



RF MEASUREMENT REPORT

FCC ID: XCO-HSBT5151
Applicant: HANSONG (NANJING) TECHNOLOGY LTD.
Product: Bluetooth Module
Model No.: HSBT5151
FCC Classification: Digital Transmission System (DTS)
FCC Rule Part(s): Part 15 Subpart C (Section 15.247)
Result: Complies
Received Date: 2024-10-29
Test Date: 2024-11-13 ~ 2025-05-08

Reviewed By:

Denise Zhou

Denise Zhou

Approved By:

Robin Wu

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 and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the 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
R25S1001023-U201	V01	Initial Report	2025-05-13	Invalid
R25S1001023-U201	V02	Update "Measuring Instrument"	2025-05-15	Valid

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1. General Information

1.1. Applicant

HANSONG (NANJING) TECHNOLOGY LTD.

8th Kangping Road, Jiangning Economy and Technology Development Zone, Nanjing, 211106, China.

1.2. Manufacturer

HANSONG (NANJING) TECHNOLOGY LTD.

8th Kangping Road, Jiangning Economy and Technology Development Zone, Nanjing, 211106, China.

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	
	VCCI:	☐ R-20025	☐ G-20034	☐ C-20020
		☐ T-20020		
		☐ R-20141	☐ G-20134	☐ C-20103
			☐ T-20104	
☐	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		CNAS: L10551	
☐	FCC: CN1284		ISED: CN0105	
	Test Site – MRT Taiwan Laboratory			
	Laboratory Location (Taiwan)			
	No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)			
	Laboratory Accreditations			
☐	TAF: 3261			
	FCC: 291082, TW3261		ISED: TW3261	

1.4. Product Information

Product Name	Bluetooth Module
Model No.	HSBT5151
EUT Identification No.	20241029Sample#06 20250317Sample#03 20250321Sample#01
Bluetooth Specification	BT 5.2 (Dual mode)
Antenna Information	Refer to Section 1.7
Module Power Voltage	DC 3.3V
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification under Test

Bluetooth Frequency	2402 ~ 2480MHz
Channel Number	40
Type of modulation	GFSK
Data Rate	1Mbps & 2Mbps

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	--	--	--	--

1.7. Antenna Details

Antenna No.	Antenna Model No.	Antenna Type	Max. Antenna Gain (dBi)
1	RC12WFI0288A1	External PCB Antenna	2.35
2	AUK01911-WiFi	External FPC Antenna	3.43
3	RC1WF10886A2	External Rod Antenna	1.24
4	HSPCBTX001	Internal PCB Antenna	1.97

2. Test Configuration

2.1. Test Mode

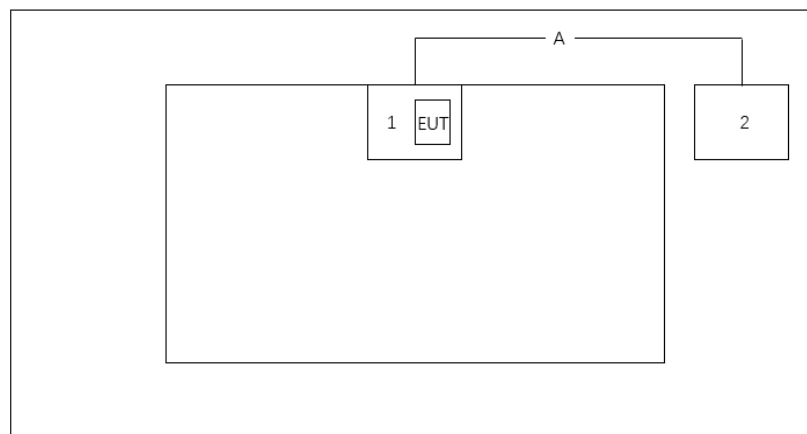
Mode 1: Transmit by BLE-1Mbps

Mode 2: Transmit by BLE-2Mbps

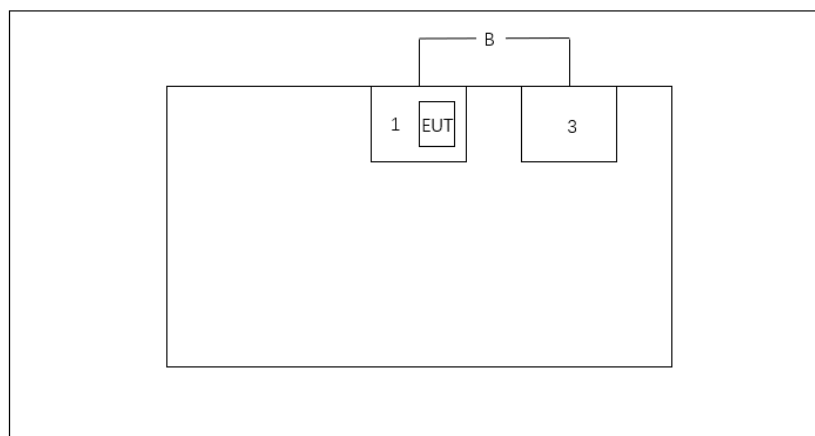
2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.

Connection Diagram – Radiated Emission testing



Connection Diagram – AC line conducted testing



No.	Cable Type	Cable Spec.	Length
A	USB Cable	Shielding	>10m
B	USB Cable	Shielding	1.0m
No.	Product	Manufacturer	Model No.

1	Test Fixture Board	Hansong	N/A
2	Notebook (for RF Test)	Lenovo	E431
3	Adapter	SWITCHING MODE POWER SUPPLY	GPE024Q-050500-Z

2.3. Test Software

The test utility software used during testing was “BlueTest3”, and the version was 2.6.9.

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 D01v05r02
- ANSI C63.10-2013

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.”

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2025-05-08	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11082	1 year	2025-06-05	WZ-SR5
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2025-05-12	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Cable	UCwave	UCE500	24060015	Note	Note	WZ-SR5
Preamplifier	EMCI	EMC118A45SE	MRTSUE07102	1 year	2025-04-11	WJ-AC2
				1 year	2026-04-09	WJ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE07103	1 year	2025-04-14	WJ-AC2
				1 year	2026-04-09	WJ-AC2
Anechoic Chamber	TDK	WJ-AC2	MRTSUE07117	1 year	2025-05-14	WJ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11315	1 year	2025-06-24	WJ-AC2
Broadband Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE07100	1 year	2025-04-24	WJ-AC2
				1 year	2026-04-10	WJ-AC2
EXA Signal Analyzer	Keysight	N9010B	MRTSUE07147	1 year	2025-11-06	WJ-AC2
EMI Test Receiver	R&S	ESR3	MRTSUE07111	1 year	2025-04-18	WJ-AC2
				1 year	2026-03-24	WJ-AC2
Horn Antenna	EMCI	DRH18-E	MRTSUE07105	1 year	2025-05-12	WJ-AC2
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2025-11-19	WJ-AC2
TRILOG Broad Band Antenna	Schwarzbeck	VULB 9163	MRTSUE07097	1 year	2026-04-20	WJ-AC2
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2025-04-17	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2025-05-08	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2025-04-18	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2025-05-08	WZ-SR2
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	5 years	2026-12-20	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2025-05-12	WZ-SR2
Four-Line V-Network	R&S	ENV432	MRTSUE06615	1 year	2025-09-05	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2025-09-05	WZ-SR2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2025-07-26	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2025-11-08	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2025-04-19	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2025-10-13	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2025-10-16	WZ-AC1

Note: The loss of the RF cable will be measured before testing.

Software	Version	Function
e3	2310711	EMI Test Software
CONTROLLER CO3000	v 1.03.02	RE Antenna & Turntable
Controller_MF 7802	1.02	RE Antenna & Turntable
Controller_MF 7802	2.03C	RE Antenna & Turntable
BenchVue Power Meter	2018.1	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: 9kHz~150kHz: 3.58dB 150kHz~30MHz: 3.20dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.35dB Coplanar: 9kHz~30MHz: 2.37dB Horizontal: 30MHz~200MHz: 3.47dB 200MHz~1GHz: 4.17dB 1GHz~40GHz: 4.97dB Vertical: 30MHz~200MHz: 4.07dB 200MHz~1GHz: 5.28dB 1GHz~40GHz: 4.84dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.5dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 1.5dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.5dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 3.2%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(a)(2)	6dB 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 150kHz - 30MHz	Line Conducted	Pass

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.

6.2. 6dB Bandwidth Measurement

6.2.1. Test Limit

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

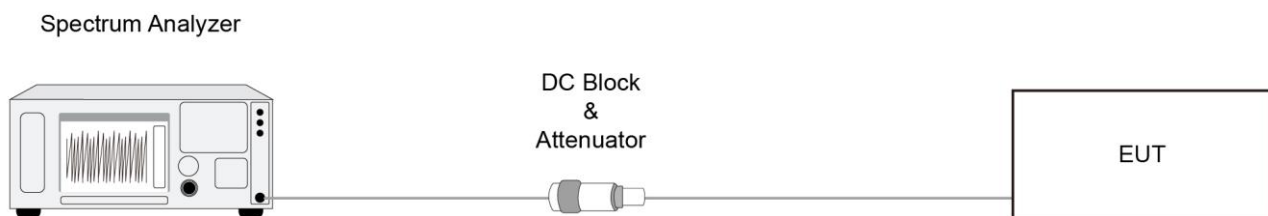
6.2.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.8

6.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB 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. Set RBW = 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 (30dBm).

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 - 2013 - Section 11.9.1.3

ANSI C63.10 - 2013 - Section 11.9.2.3.2

6.3.3. Test Setting

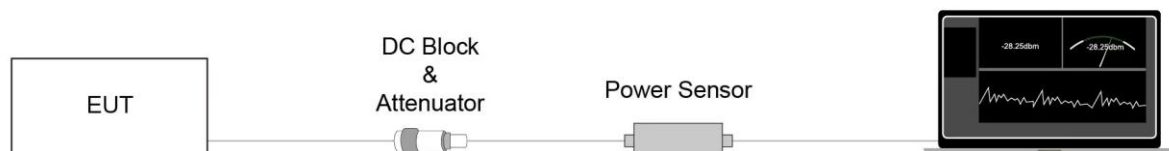
Method PKPM1 (Peak Power Measurement of Signals with DTS BW $\leq$ 50MHz)

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 = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

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 8dBm in any 3 kHz band.

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

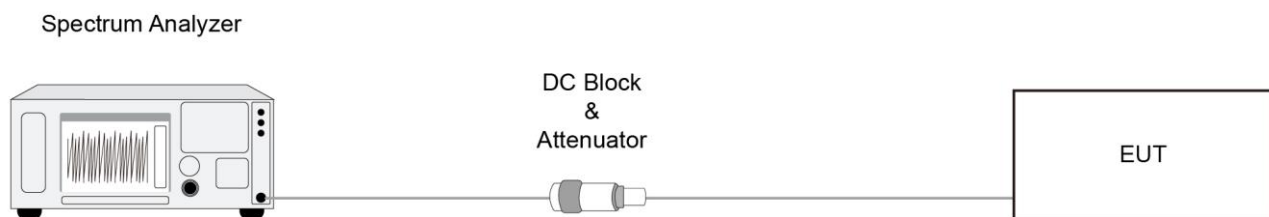
6.4.2. Test Procedure

ANSI C63.10-2013 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 = 3kHz
4. VBW = 10kHz
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 20dB 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 C63.10-2013 - Section 11.11

6.5.3. Test Setting

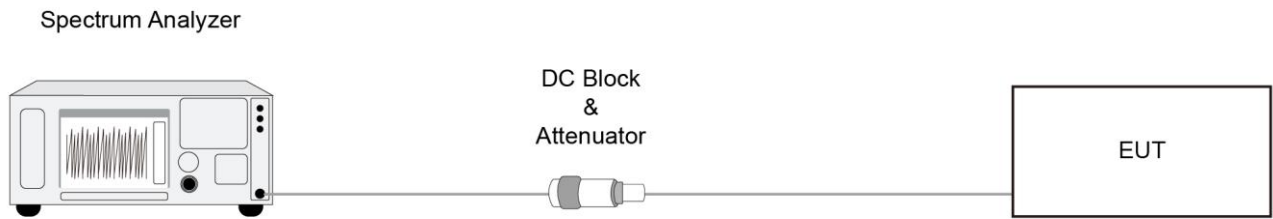
Reference level measurement

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 = 100kHz
3. VBW = 300kHz
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 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 - Section 6.6 (Standard test method above 1GHz)

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
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
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 1GHz

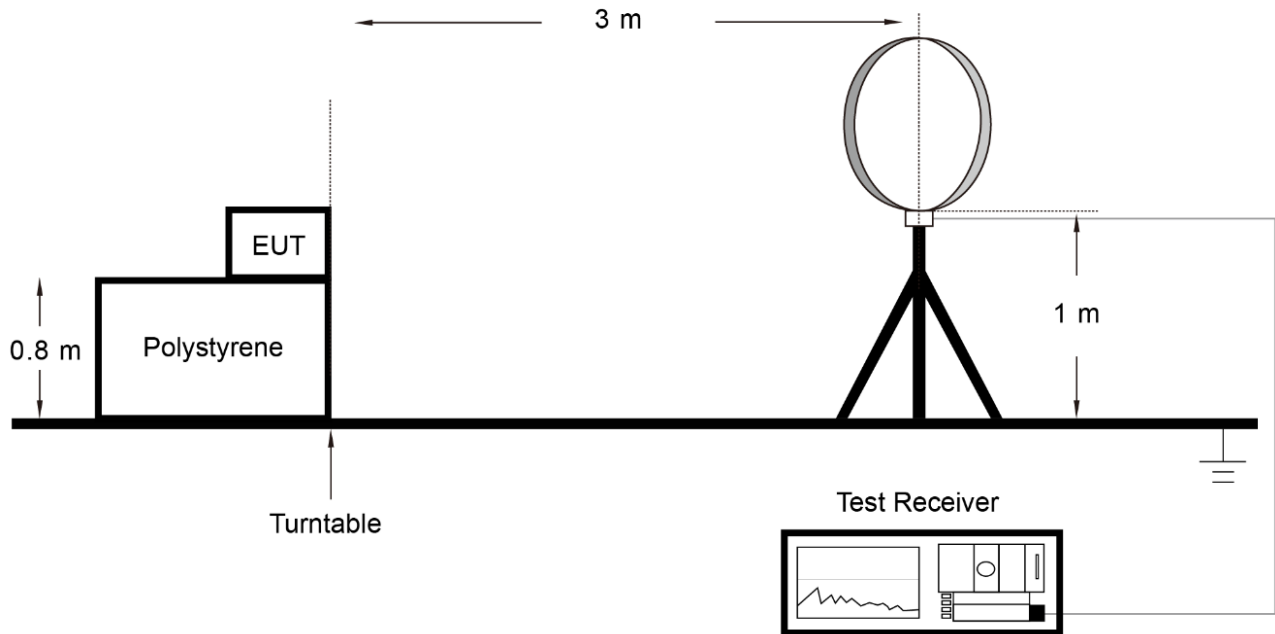
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

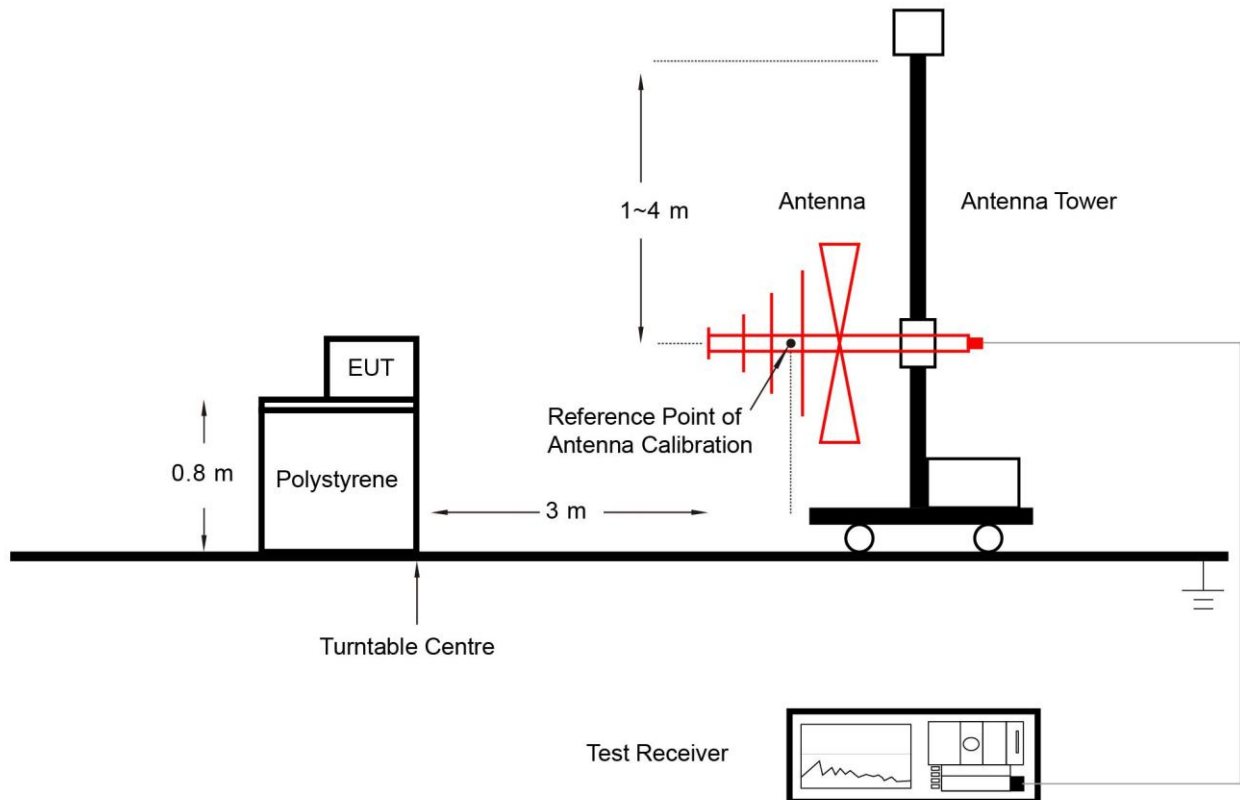
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; if the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10Hz
If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$. T is the minimum transmission duration.
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

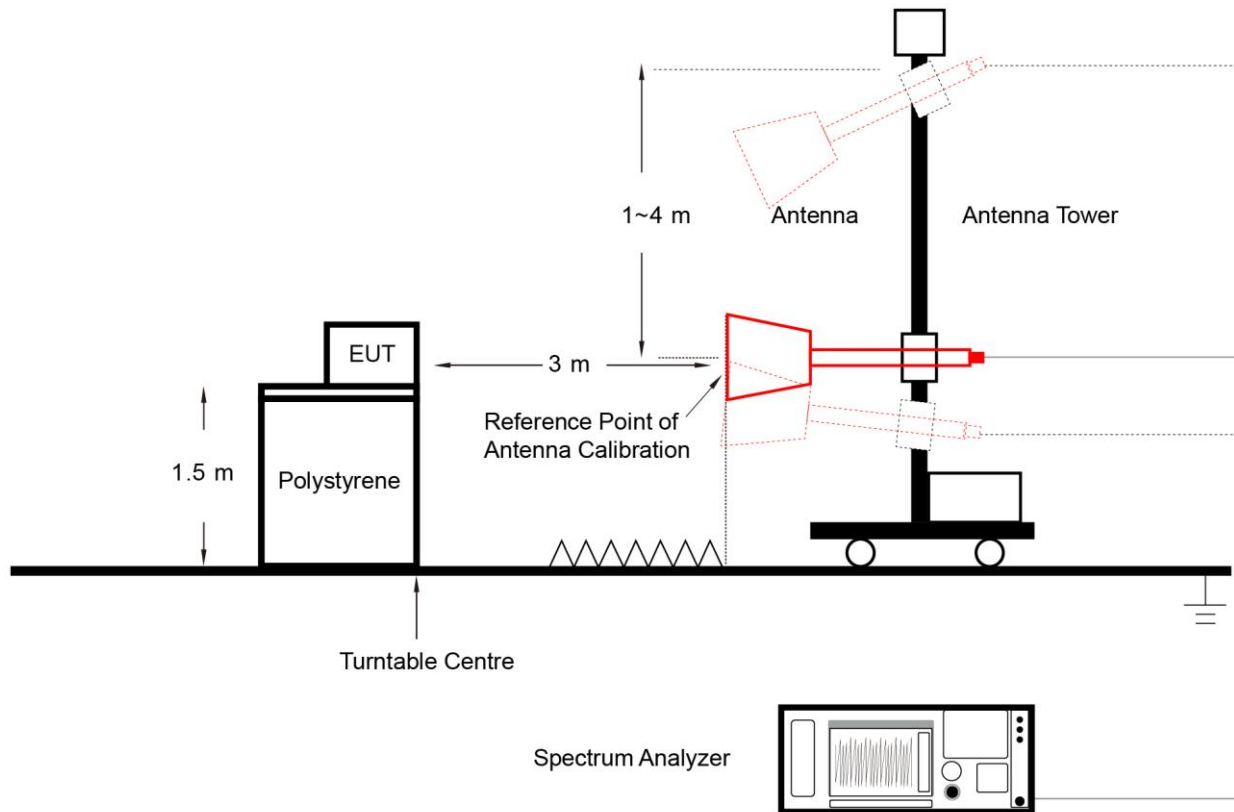
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz 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
¹ 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 47CFR 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 C63.10-2013 Section 6.3 & 6.6 & 11.13

6.7.3. Test Setting

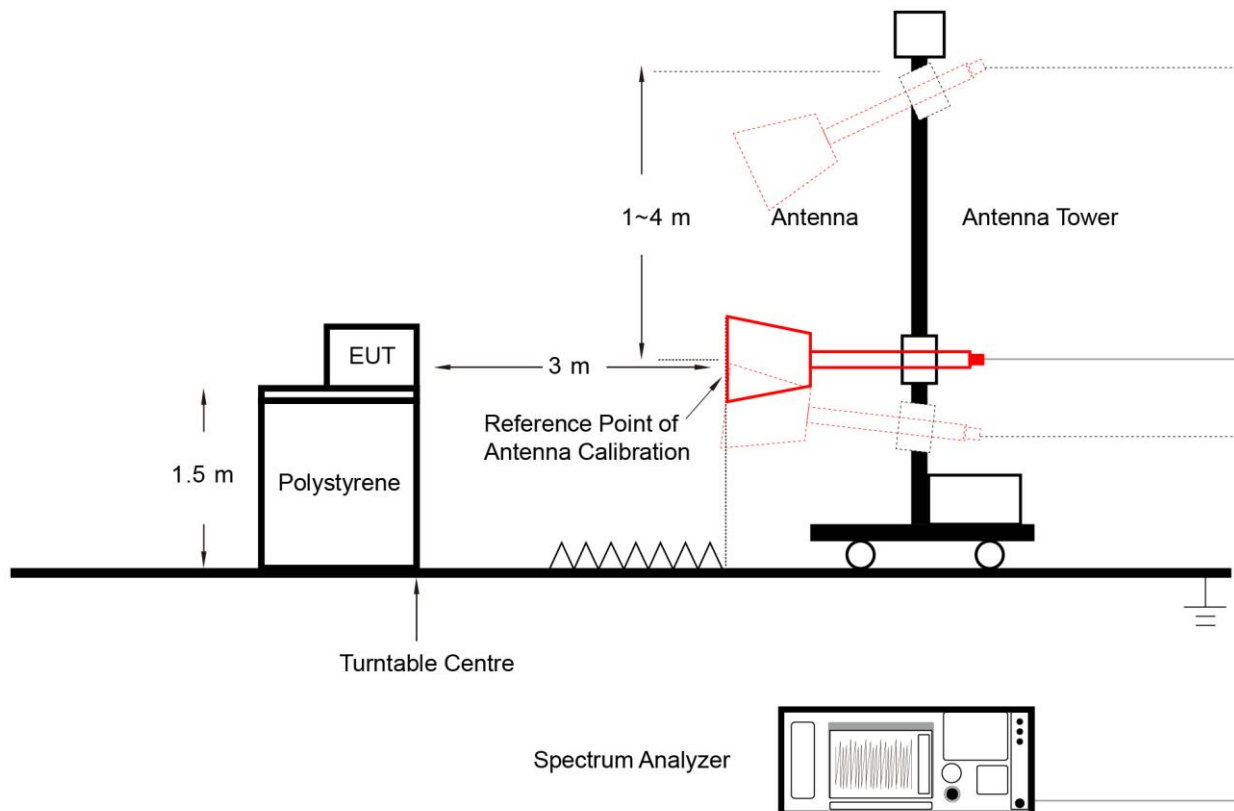
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
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 = 1MHz
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

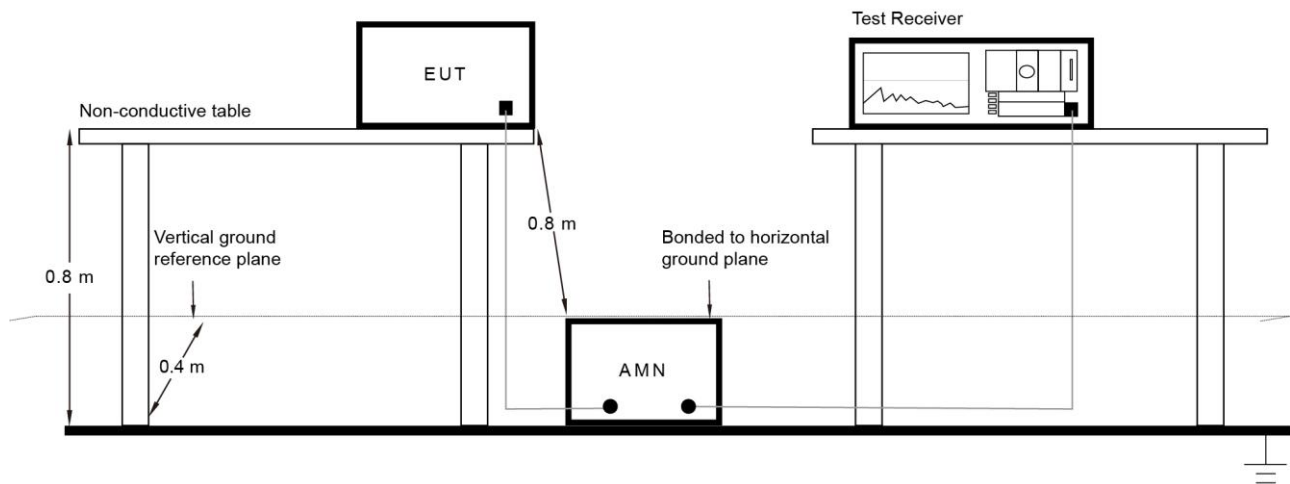
6.8.1. Test Limit

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 0.15MHz to 0.5MHz.

6.8.2. Test Setup



6.8.3. Test Result

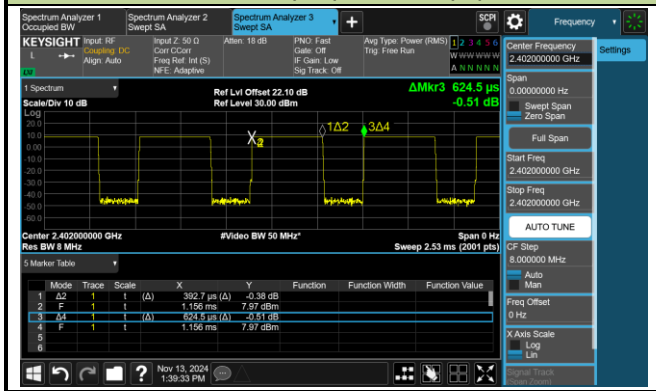
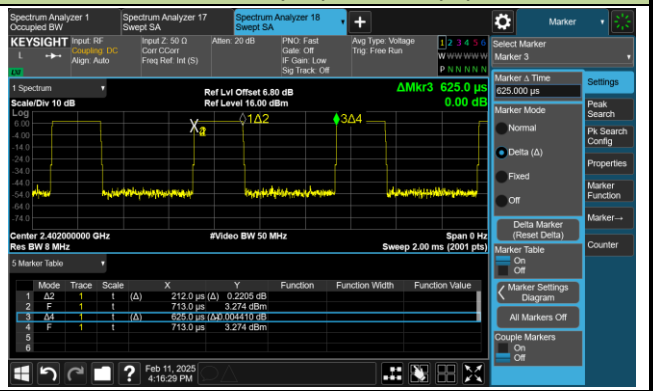
Refer to Appendix A.8.

Appendix A - Test Result

A.1 Duty Cycle Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-11-13 ~ 2025-02-11		

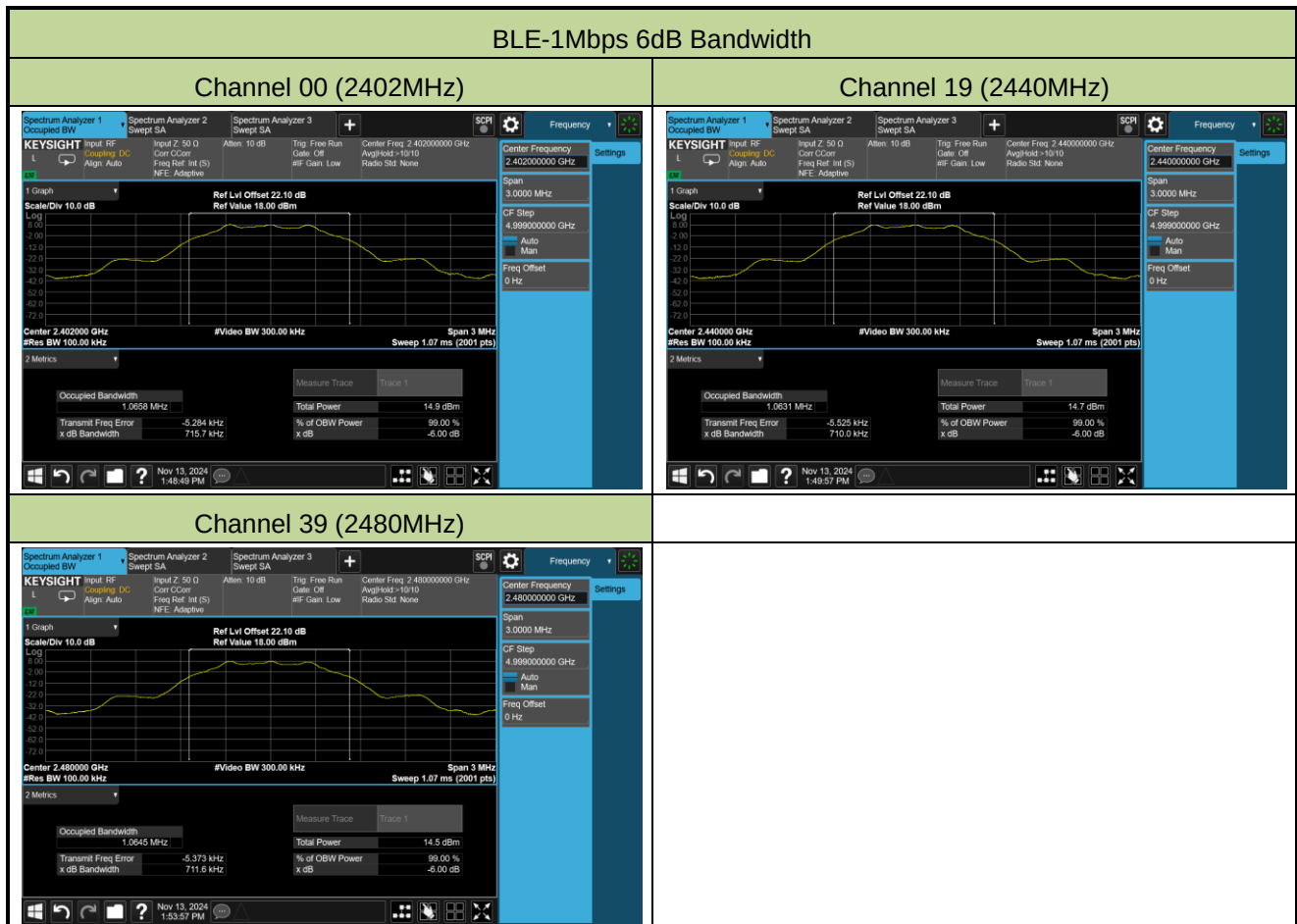
Test Mode	Duty Cycle
BLE-1Mbps	62.88%
BLE-2Mbps	33.92%
Duty Cycle (T = Transmission Duration)	
BLE-1Mbps (T = 392.7 μ s)	BLE-2Mbps (T = 212.0 μ s)

A.2 6dB Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-11-13 ~ 2025-02-11		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
BLE	1Mbps	00	2402	0.7157	≥ 0.5
BLE	1Mbps	19	2440	0.7100	≥ 0.5
BLE	1Mbps	39	2480	0.7116	≥ 0.5
BLE	2Mbps	00	2402	1.2580	≥ 0.5
BLE	2Mbps	19	2440	1.2100	≥ 0.5
BLE	2Mbps	39	2480	1.2120	≥ 0.5



BLE-2Mbps 6dB Bandwidth

Channel 00 (2402MHz)



Channel 19 (2440MHz)



Channel 39 (2480MHz)



A.3 Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-11-18 ~ 2025-02-11		

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	8.72	≤ 30.00	Pass
BLE	1Mbps	19	2440	8.50	≤ 30.00	Pass
BLE	1Mbps	39	2480	8.39	≤ 30.00	Pass
BLE	2Mbps	00	2402	7.52	≤ 30.00	Pass
BLE	2Mbps	19	2440	7.78	≤ 30.00	Pass
BLE	2Mbps	39	2480	7.83	≤ 30.00	Pass

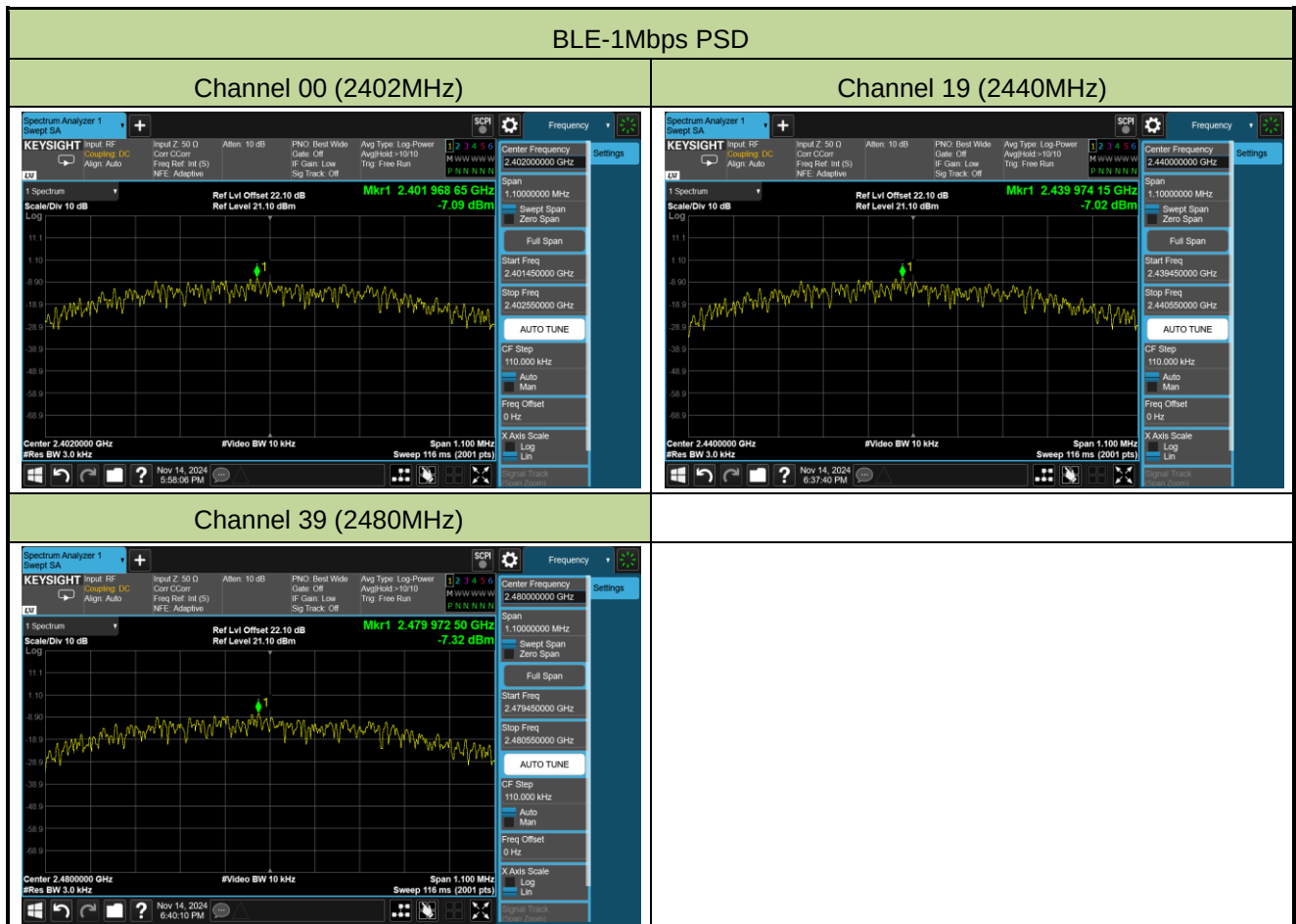
Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	8.38	≤ 30.00	Pass
BLE	1Mbps	19	2440	8.10	≤ 30.00	Pass
BLE	1Mbps	39	2480	7.92	≤ 30.00	Pass
BLE	2Mbps	00	2402	7.46	≤ 30.00	Pass
BLE	2Mbps	19	2440	7.71	≤ 30.00	Pass
BLE	2Mbps	39	2480	7.77	≤ 30.00	Pass

A.4 Power Spectral Density Test Result

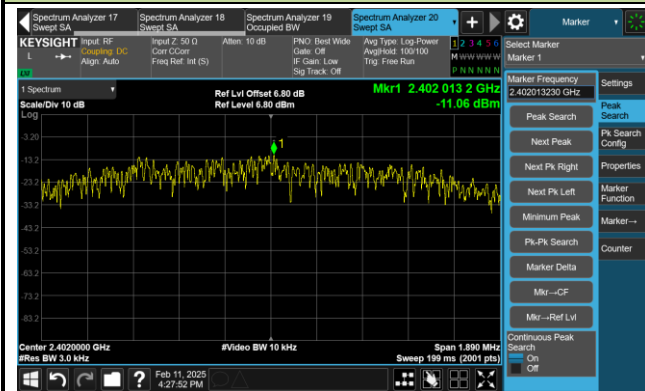
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-11-14 ~ 2025-02-11		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1Mbps	00	2402	-7.09	≤ 8.00	Pass
BLE	1Mbps	19	2440	-7.02	≤ 8.00	Pass
BLE	1Mbps	39	2480	-7.32	≤ 8.00	Pass
BLE	2Mbps	00	2402	-11.06	≤ 8.00	Pass
BLE	2Mbps	19	2440	-10.81	≤ 8.00	Pass
BLE	2Mbps	39	2480	-10.76	≤ 8.00	Pass

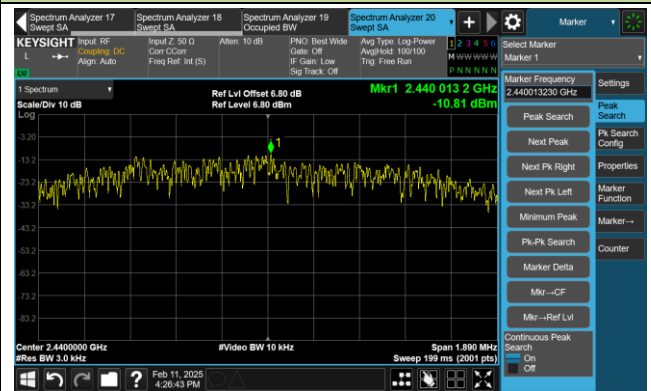


BLE-2Mbps PSD

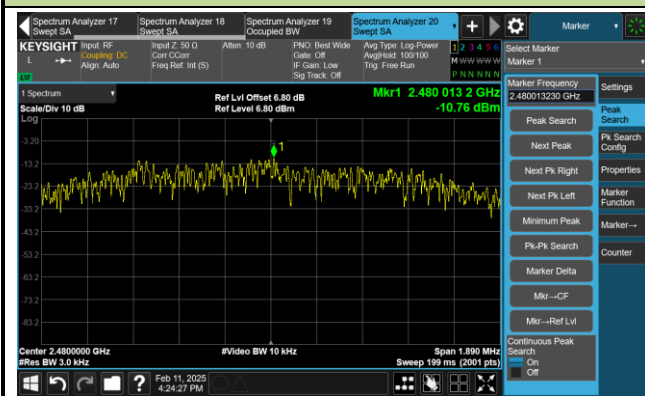
Channel 00 (2402MHz)



Channel 19 (2440MHz)



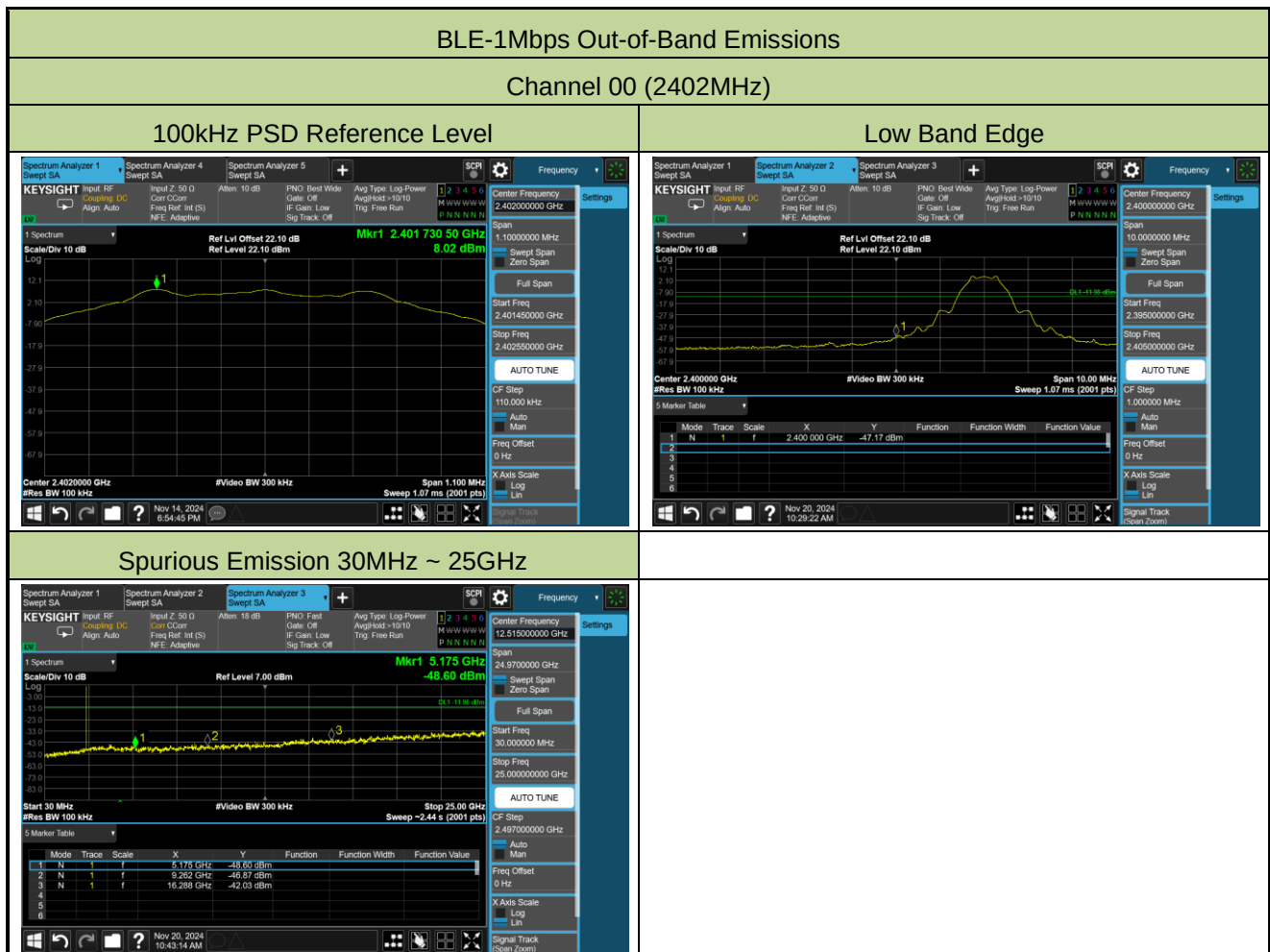
Channel 39 (2480MHz)



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

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-11-14 ~ 2025-02-11		

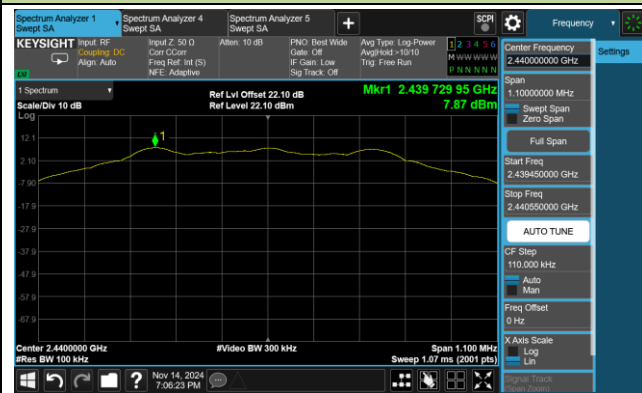
Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1	00	2402	20	Pass
BLE	1	19	2440	20	Pass
BLE	1	39	2480	20	Pass
BLE	2	00	2402	20	Pass
BLE	2	19	2440	20	Pass
BLE	2	39	2480	20	Pass



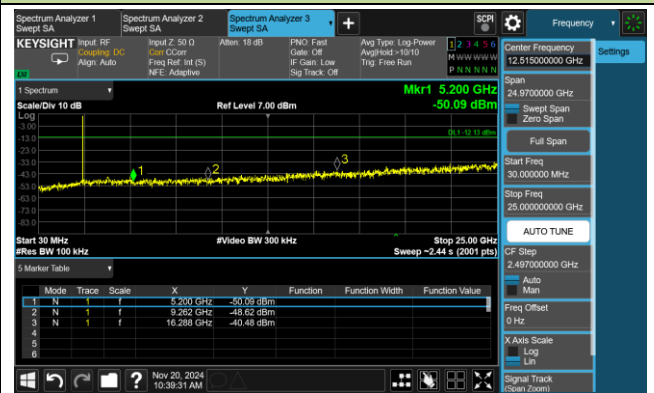
BLE-1Mbps Out-of-Band Emissions

Channel 19 (2440MHz)

100kHz PSD Reference Level

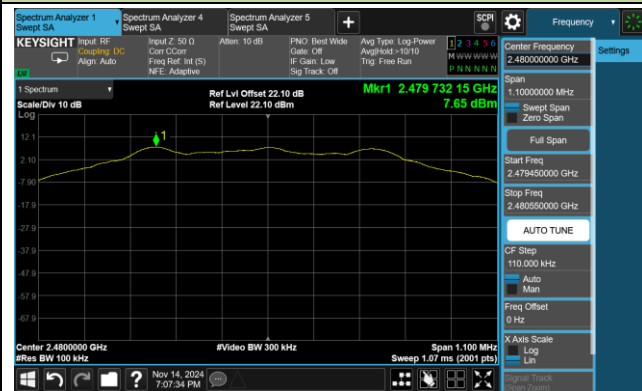


Spurious Emission 30MHz ~ 25GHz

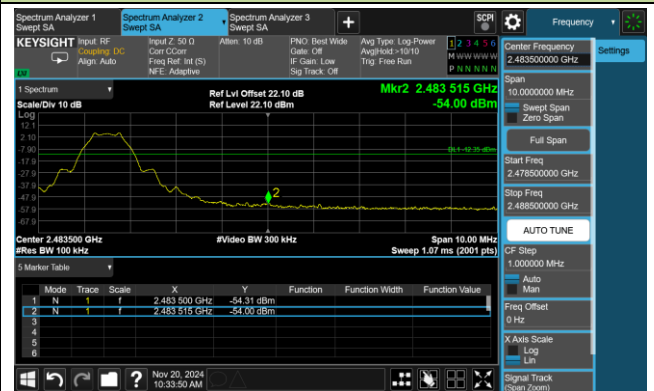


Channel 39 (2480MHz)

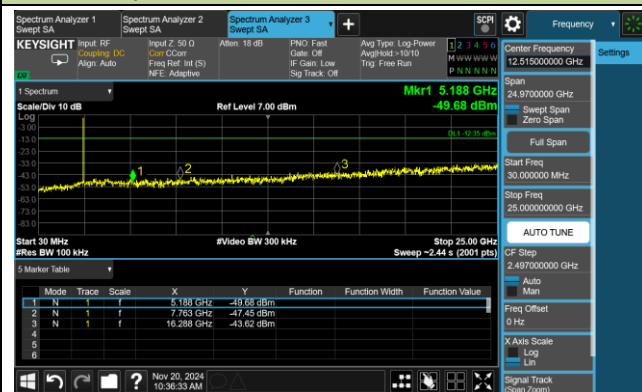
100kHz PSD Reference Level



High Band Edge



Spurious Emission 30MHz ~ 25GHz



BLE-2Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

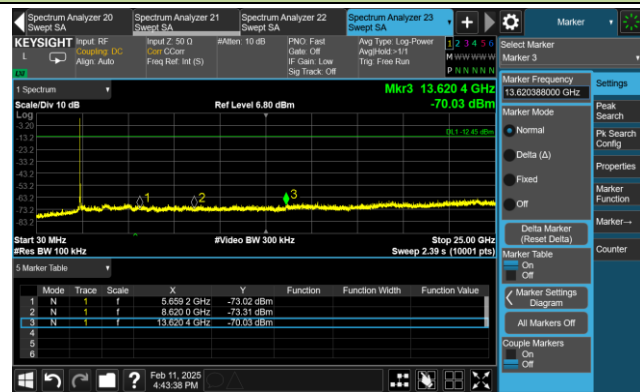
100kHz PSD Reference Level



Low Band Edge

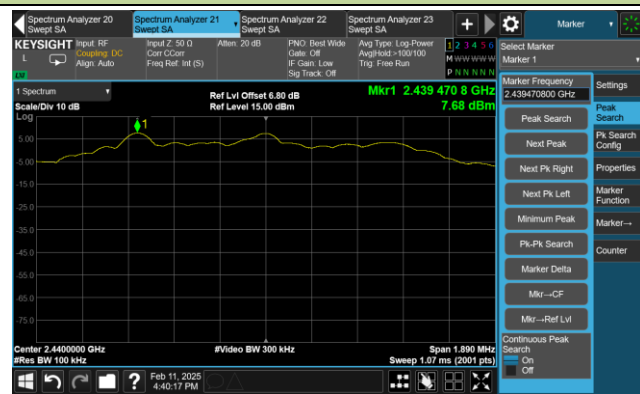


Spurious Emission 30MHz ~ 25GHz

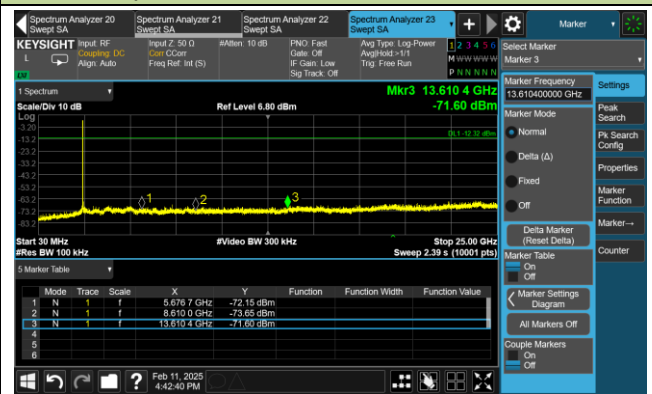


Channel 19 (2440MHz)

100kHz PSD Reference Level



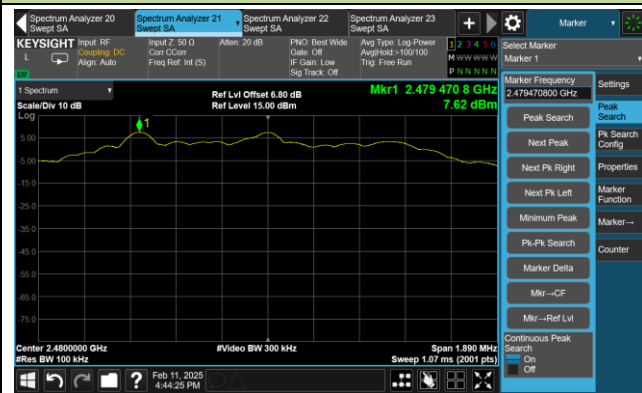
Spurious Emission 30MHz ~ 25GHz



BLE-2Mbps Out-of-Band Emissions

Channel 39 (2480MHz)

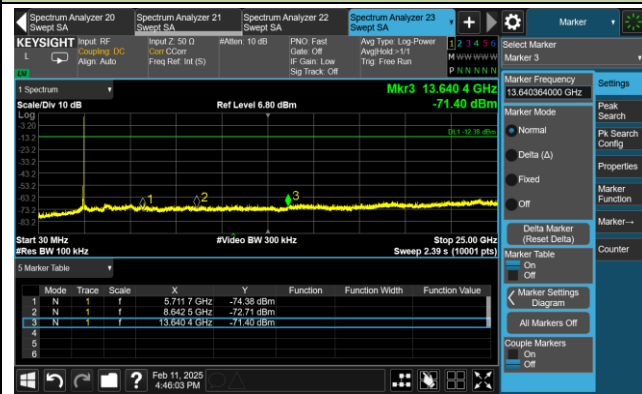
100kHz PSD Reference Level



High Band Edge



Spurious Emission 30MHz ~ 25GHz



A.6 Radiated Spurious Emission Test Result

Antenna #1

Test Site	WZ-AC1	Test Engineer	Lucas Wang
Test Date	2025-02-21	Test Mode	BLE-1Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, 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	3602.7	40.6	0.4	41.0	74.0	-33.0	Peak	Horizontal
	4804.6	44.4	3.4	47.8	74.0	-26.2	Peak	Horizontal
	8204.6	37.1	9.7	46.8	74.0	-27.2	Peak	Horizontal
	3604.4	42.7	0.4	43.1	74.0	-30.9	Peak	Vertical
	4804.6	43.9	3.4	47.3	74.0	-26.7	Peak	Vertical
	8490.2	36.7	10.2	46.9	74.0	-27.1	Peak	Vertical
19	3660.5	41.1	0.3	41.4	74.0	-32.6	Peak	Horizontal
	4879.4	44.7	3.3	48.0	74.0	-26.0	Peak	Horizontal
	7320.6	38.2	8.9	47.1	74.0	-26.9	Peak	Horizontal
	3660.5	42.2	0.3	42.5	74.0	-31.5	Peak	Vertical
	4881.1	44.6	3.3	47.9	74.0	-26.1	Peak	Vertical
	7320.6	40.5	8.9	49.4	74.0	-24.6	Peak	Vertical
39	3720.0	40.1	0.6	40.7	74.0	-33.3	Peak	Horizontal
	4961.0	43.2	3.7	46.9	74.0	-27.1	Peak	Horizontal
	7441.3	38.5	9.0	47.5	74.0	-26.5	Peak	Horizontal
	3721.7	40.0	0.6	40.6	74.0	-33.4	Peak	Vertical
	4959.3	43.5	3.7	47.2	74.0	-26.8	Peak	Vertical
	7441.3	41.5	9.0	50.5	74.0	-23.5	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)

Test Site	WZ-AC1	Test Engineer	Lucas Wang
Test Date	2025-02-21	Test Mode	BLE-2Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, 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	3604.4	40.9	0.4	41.3	74.0	-32.7	Peak	Horizontal
	4802.9	43.5	3.4	46.9	74.0	-27.1	Peak	Horizontal
	11376.8	36.2	14.4	50.6	74.0	-23.4	Peak	Horizontal
	3604.4	41.5	0.4	41.9	74.0	-32.1	Peak	Vertical
	4802.9	41.3	3.4	44.7	74.0	-29.3	Peak	Vertical
	11094.6	36.1	14.6	50.7	74.0	-23.3	Peak	Vertical
19	3648.6	39.1	0.4	39.5	74.0	-34.5	Peak	Horizontal
	4879.4	44.2	3.3	47.5	74.0	-26.5	Peak	Horizontal
	7640.2	36.9	8.9	45.8	74.0	-28.2	Peak	Horizontal
	3658.8	41.2	0.3	41.5	74.0	-32.5	Peak	Vertical
	4881.1	44.3	3.3	47.6	74.0	-26.4	Peak	Vertical
	7322.3	40.5	8.9	49.4	74.0	-24.6	Peak	Vertical
39	3720.0	39.4	0.6	40.0	74.0	-34.0	Peak	Horizontal
	4959.3	43.1	3.7	46.8	74.0	-27.2	Peak	Horizontal
	7439.6	38.3	9.0	47.3	74.0	-26.7	Peak	Horizontal
	3720.0	41.3	0.6	41.9	74.0	-32.1	Peak	Vertical
	4959.3	43.4	3.7	47.1	74.0	-26.9	Peak	Vertical
	7441.3	40.3	9.0	49.3	74.0	-24.7	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)

Antenna #2

Test Site	WJ-AC2	Test Engineer	Bob Zhang
Test Date	2025-03-31	Test Mode	BLE-1Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, 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	3913.8	40.1	-1.3	38.8	74.0	-35.2	Peak	Horizontal
	4804.6	46.7	0.0	46.7	74.0	-27.3	Peak	Horizontal
	11874.9	42.5	5.0	47.5	74.0	-26.5	Peak	Horizontal
	4026.0	40.2	-1.5	38.7	74.0	-35.3	Peak	Vertical
	4804.6	48.3	0.0	48.3	74.0	-25.7	Peak	Vertical
	11380.2	42.0	5.5	47.5	74.0	-26.5	Peak	Vertical
19	3857.7	41.1	-1.5	39.6	74.0	-34.4	Peak	Horizontal
	4879.4	44.1	0.0	44.1	74.0	-29.9	Peak	Horizontal
	11582.5	42.1	5.1	47.2	74.0	-26.8	Peak	Horizontal
	4009.0	40.5	-1.2	39.3	74.0	-34.7	Peak	Vertical
	4879.4	47.3	0.0	47.3	74.0	-26.7	Peak	Vertical
	11808.6	42.8	4.8	47.6	74.0	-26.4	Peak	Vertical
39	4060.0	40.5	-1.7	38.8	74.0	-35.2	Peak	Horizontal
	4665.2	43.5	-0.4	43.1	74.0	-30.9	Peak	Horizontal
	11594.4	42.2	5.1	47.3	74.0	-26.7	Peak	Horizontal
	3799.9	41.2	-1.6	39.6	74.0	-34.4	Peak	Vertical
	4961.0	45.6	0.1	45.7	74.0	-28.3	Peak	Vertical
	11397.2	42.1	5.5	47.6	74.0	-26.4	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)

Test Site	WJ-AC2	Test Engineer	Bob Zhang
Test Date	2025-03-31	Test Mode	BLE-2Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, 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	4027.7	40.5	-1.5	39.0	74.0	-35.0	Peak	Horizontal
	4802.9	47.3	0.0	47.3	74.0	-26.7	Peak	Horizontal
	11752.5	43.2	4.7	47.9	74.0	-26.1	Peak	Horizontal
	4010.7	40.6	-1.3	39.3	74.0	-34.7	Peak	Vertical
	4804.6	47.7	0.0	47.7	74.0	-26.3	Peak	Vertical
	11703.2	42.4	4.8	47.2	74.0	-26.8	Peak	Vertical
19	3988.6	41.5	-1.4	40.1	74.0	-33.9	Peak	Horizontal
	4879.4	42.0	0.0	42.0	74.0	-32.0	Peak	Horizontal
	11871.5	42.3	5.0	47.3	74.0	-26.7	Peak	Horizontal
	3767.6	41.6	-1.5	40.1	74.0	-33.9	Peak	Vertical
	4881.1	47.5	0.0	47.5	74.0	-26.5	Peak	Vertical
	11276.5	42.4	5.3	47.7	74.0	-26.3	Peak	Vertical
39	4114.4	40.5	-1.8	38.7	74.0	-35.3	Peak	Horizontal
	4959.3	41.1	0.1	41.2	74.0	-32.8	Peak	Horizontal
	12328.8	42.7	4.7	47.4	74.0	-26.6	Peak	Horizontal
	3935.9	40.8	-1.5	39.3	74.0	-34.7	Peak	Vertical
	4961.0	42.8	0.1	42.9	74.0	-31.1	Peak	Vertical
	11261.2	41.8	5.4	47.2	74.0	-26.8	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)

Antenna #3

Test Site	WJ-AC2	Test Engineer	Bob Zhang
Test Date	2025-03-31	Test Mode	BLE-1Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, 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	3930.8	41.1	-1.4	39.7	74.0	-34.3	Peak	Horizontal
	4802.9	44.8	0.0	44.8	74.0	-29.2	Peak	Horizontal
	11822.2	43.5	4.9	48.4	74.0	-25.6	Peak	Horizontal
	4112.7	41.2	-1.8	39.4	74.0	-34.6	Peak	Vertical
	4802.9	46.9	0.0	46.9	74.0	-27.1	Peak	Vertical
	11347.9	41.6	5.5	47.1	74.0	-26.9	Peak	Vertical
19	3951.2	40.9	-1.5	39.4	74.0	-34.6	Peak	Horizontal
	4881.1	44.7	0.0	44.7	74.0	-29.3	Peak	Horizontal
	11597.8	42.4	5.0	47.4	74.0	-26.6	Peak	Horizontal
	3941.0	40.6	-1.5	39.1	74.0	-34.9	Peak	Vertical
	4879.4	47.0	0.0	47.0	74.0	-27.0	Peak	Vertical
	12148.6	44.0	5.0	49.0	74.0	-25.0	Peak	Vertical
39	4005.6	41.8	-1.3	40.5	74.0	-33.5	Peak	Horizontal
	4959.3	43.4	0.1	43.5	74.0	-30.5	Peak	Horizontal
	11346.2	42.4	5.5	47.9	74.0	-26.1	Peak	Horizontal
	3990.3	42.7	-1.4	41.3	74.0	-32.7	Peak	Vertical
	4959.3	44.2	0.1	44.3	74.0	-29.7	Peak	Vertical
	11900.4	42.8	4.9	47.7	74.0	-26.3	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)

Test Site	WJ-AC2	Test Engineer	Bob Zhang
Test Date	2025-03-31	Test Mode	BLE-2Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, 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	3837.3	40.5	-1.3	39.2	74.0	-34.8	Peak	Horizontal
	4804.6	42.7	0.0	42.7	74.0	-31.3	Peak	Horizontal
	11312.2	42.1	5.4	47.5	74.0	-26.5	Peak	Horizontal
	3976.7	40.3	-1.4	38.9	74.0	-35.1	Peak	Vertical
	4804.6	45.5	0.0	45.5	74.0	-28.5	Peak	Vertical
	11291.8	42.2	5.4	47.6	74.0	-26.4	Peak	Vertical
19	3825.4	40.4	-1.4	39.0	74.0	-35.0	Peak	Horizontal
	4879.4	42.8	0.0	42.8	74.0	-31.2	Peak	Horizontal
	11738.9	42.1	4.8	46.9	74.0	-27.1	Peak	Horizontal
	3983.5	40.8	-1.4	39.4	74.0	-34.6	Peak	Vertical
	4879.4	44.2	0.0	44.2	74.0	-29.8	Peak	Vertical
	11796.7	44.5	4.8	49.3	74.0	-24.7	Peak	Vertical
39	4121.2	40.9	-1.7	39.2	74.0	-34.8	Peak	Horizontal
	4961.0	45.1	0.1	45.2	74.0	-28.8	Peak	Horizontal
	11973.5	42.4	5.2	47.6	74.0	-26.4	Peak	Horizontal
	3966.5	40.6	-1.5	39.1	74.0	-34.9	Peak	Vertical
	4961.0	44.9	0.1	45.0	74.0	-29.0	Peak	Vertical
	11881.7	42.7	5.0	47.7	74.0	-26.3	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)

Antenna #4

Test Site	WJ-AC2	Test Engineer	Bob Zhang
Test Date	2025-03-31	Test Mode	BLE-1Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, 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	4039.6	41.6	-1.6	40.0	74.0	-34.0	Peak	Horizontal
	4689.0	41.8	-0.3	41.5	74.0	-32.5	Peak	Horizontal
	11703.2	42.5	4.8	47.3	74.0	-26.7	Peak	Horizontal
	4005.6	40.5	-1.3	39.2	74.0	-34.8	Peak	Vertical
	4845.4	40.9	0.0	40.9	74.0	-33.1	Peak	Vertical
	11295.2	42.4	5.4	47.8	74.0	-26.2	Peak	Vertical
19	3969.9	40.5	-1.5	39.0	74.0	-35.0	Peak	Horizontal
	4879.4	45.4	0.0	45.4	74.0	-28.6	Peak	Horizontal
	12044.9	42.1	5.2	47.3	74.0	-26.7	Peak	Horizontal
	4026.0	40.7	-1.5	39.2	74.0	-34.8	Peak	Vertical
	4881.1	48.8	0.0	48.8	74.0	-25.2	Peak	Vertical
	11217.0	42.5	5.3	47.8	74.0	-26.2	Peak	Vertical
39	3988.6	41.0	-1.4	39.6	74.0	-34.4	Peak	Horizontal
	4881.1	43.6	0.0	43.6	74.0	-30.4	Peak	Horizontal
	11878.3	43.3	5.0	48.3	74.0	-25.7	Peak	Horizontal
	4024.3	41.2	-1.5	39.7	74.0	-34.3	Peak	Vertical
	4879.4	48.2	0.0	48.2	74.0	-25.8	Peak	Vertical
	12080.6	43.3	5.2	48.5	74.0	-25.5	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)								

Test Site	WJ-AC2	Test Engineer	Bob Zhang
Test Date	2025-03-31	Test Mode	BLE-2Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, 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	4129.7	41.8	-1.7	40.1	74.0	-33.9	Peak	Horizontal
	4804.6	45.7	0.0	45.7	74.0	-28.3	Peak	Horizontal
	11694.7	43.1	4.8	47.9	74.0	-26.1	Peak	Horizontal
	4070.2	41.5	-1.6	39.9	74.0	-34.1	Peak	Vertical
	4804.6	49.3	0.0	49.3	74.0	-24.7	Peak	Vertical
	11832.4	43.1	5.0	48.1	74.0	-25.9	Peak	Vertical
19	3849.2	40.3	-1.4	38.9	74.0	-35.1	Peak	Horizontal
	4879.4	44.0	0.0	44.0	74.0	-30.0	Peak	Horizontal
	11696.4	42.6	4.8	47.4	74.0	-26.6	Peak	Horizontal
	3963.1	40.4	-1.5	38.9	74.0	-35.1	Peak	Vertical
	4879.4	47.3	0.0	47.3	74.0	-26.7	Peak	Vertical
	11742.3	42.6	4.8	47.4	74.0	-26.6	Peak	Vertical
39	3956.3	41.0	-1.5	39.5	74.0	-34.5	Peak	Horizontal
	4961.0	42.1	0.1	42.2	74.0	-31.8	Peak	Horizontal
	11426.1	42.4	5.4	47.8	74.0	-26.2	Peak	Horizontal
	4007.3	40.6	-1.2	39.4	74.0	-34.6	Peak	Vertical
	4959.3	46.5	0.1	46.6	74.0	-27.4	Peak	Vertical
	11956.5	43.3	5.2	48.5	74.0	-25.5	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)

Spot check test data for module with shielding cover:

Antenna #1

Test Site	WJ-AC2	Test Engineer	Bob Zhang
Test Date	2025-05-08	Test Mode	BLE-1Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, 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
39	4083.8	42.6	1.4	44.0	74.0	-30.0	Peak	Horizontal
	4700.9	41.8	1.9	43.7	74.0	-30.3	Peak	Horizontal
	11470.3	42.9	4.8	47.7	74.0	-26.3	Peak	Horizontal
	3980.1	43.2	1.5	44.7	74.0	-29.3	Peak	Vertical
	4692.4	42.1	1.9	44.0	74.0	-30.0	Peak	Vertical
	11796.7	43.1	4.5	47.6	74.0	-26.4	Peak	Vertical

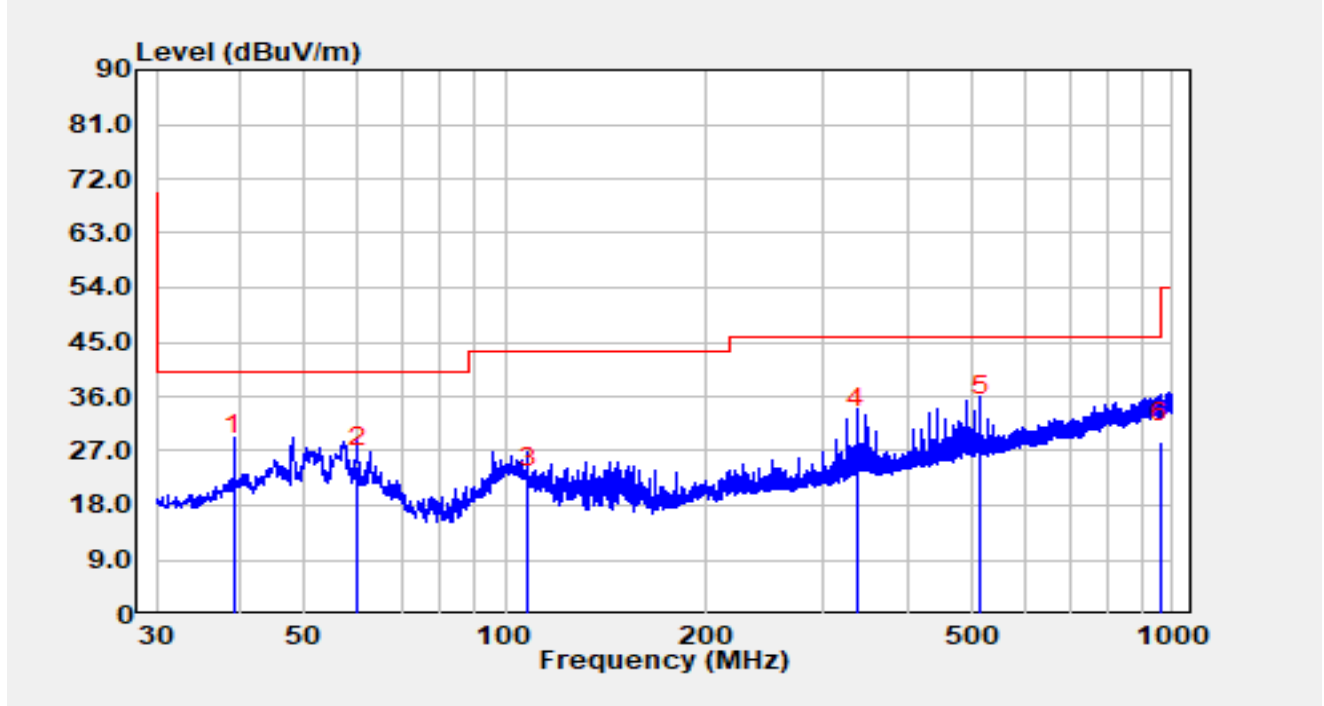
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

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

The Result of Radiated Emission below 1GHz:

Antenna #1

Site	WZ-AC2	Test Date	2025-04-10
Temperature	28.7 °C	Humidity	41.7 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Dick Shen
Factor	VULB 9162_00047	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

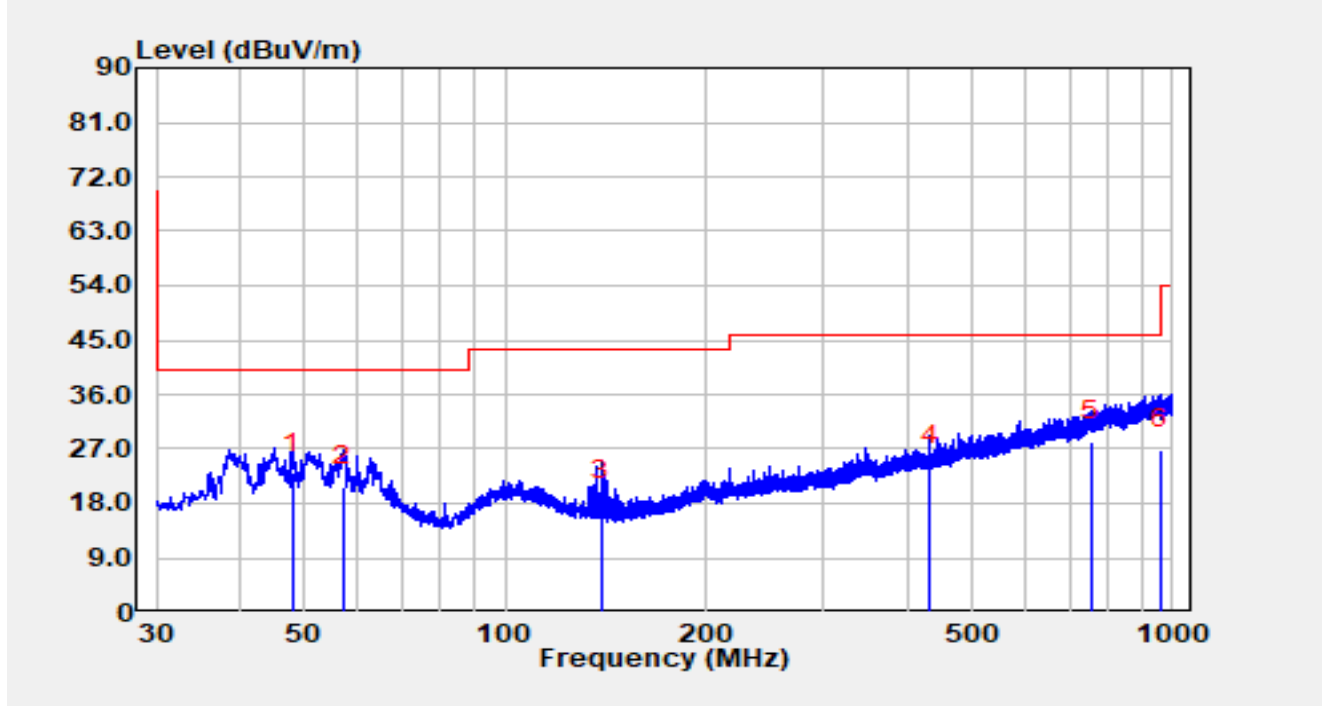


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		39.22	7.17	19.12	26.29	-13.71	40.00	QP
2		59.97	4.90	19.39	24.29	-15.71	40.00	QP
3		107.99	2.43	18.50	20.93	-22.57	43.50	QP
4		336.04	8.62	22.20	30.82	-15.18	46.00	QP
5	*	516.07	7.47	25.43	32.90	-13.10	46.00	QP
6		957.42	-3.18	31.65	28.47	-17.53	46.00	QP

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC2	Test Date	2025-04-10
Temperature	28.7 °C	Humidity	41.7 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Dick Shen
Factor	VULB 9162_00047	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		



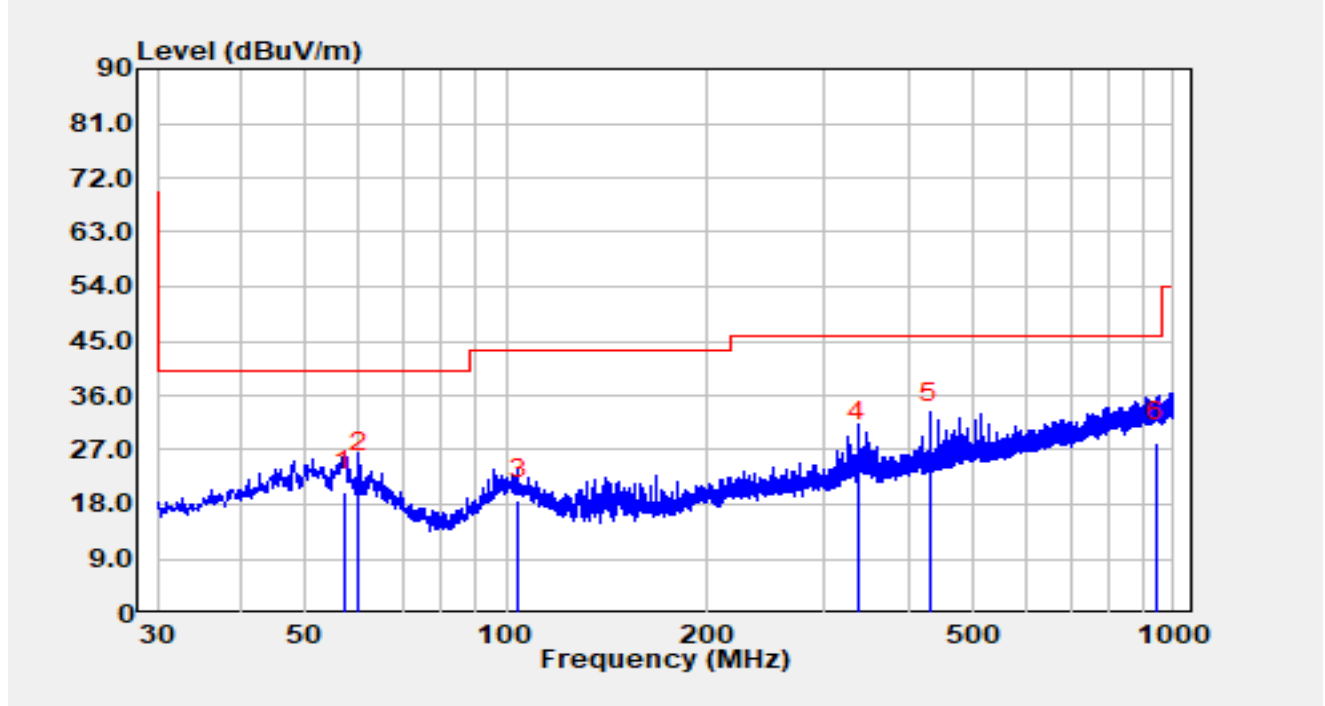
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	48.04	2.46	20.47	22.93	-17.07	40.00	QP
2		57.06	0.81	19.95	20.76	-19.24	40.00	QP
3		139.51	3.52	15.13	18.65	-24.85	43.50	QP
4		432.07	0.40	23.73	24.13	-21.87	46.00	QP
5		755.66	-1.54	29.76	28.22	-17.78	46.00	QP
6		957.81	-4.75	31.65	26.90	-19.10	46.00	QP

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Antenna #2

Site	WZ-AC2	Test Date	2025-04-10
Temperature	28.7 °C	Humidity	41.7 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Dick Shen
Factor	VULB 9162_00047	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

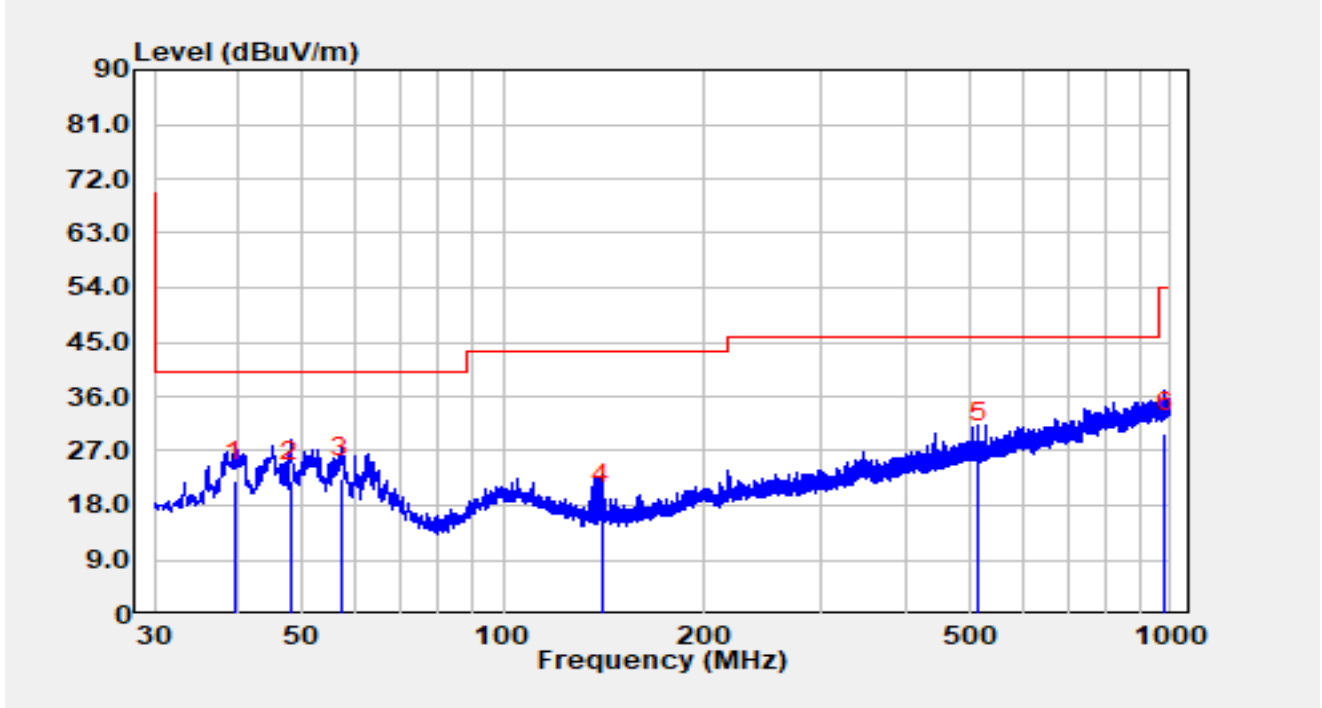


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		57.06	0.16	19.95	20.11	-19.89	40.00	QP
2		59.97	3.95	19.39	23.34	-16.66	40.00	QP
3		104.40	0.02	18.80	18.82	-24.68	43.50	QP
4		336.04	6.02	22.20	28.21	-17.79	46.00	QP
5	*	431.97	7.63	23.73	31.36	-14.64	46.00	QP
6		940.83	-3.34	31.69	28.35	-17.65	46.00	QP

Notes:

- " * ", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC2	Test Date	2025-04-10
Temperature	28.7 °C	Humidity	41.7 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Dick Shen
Factor	VULB 9162_00047	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		



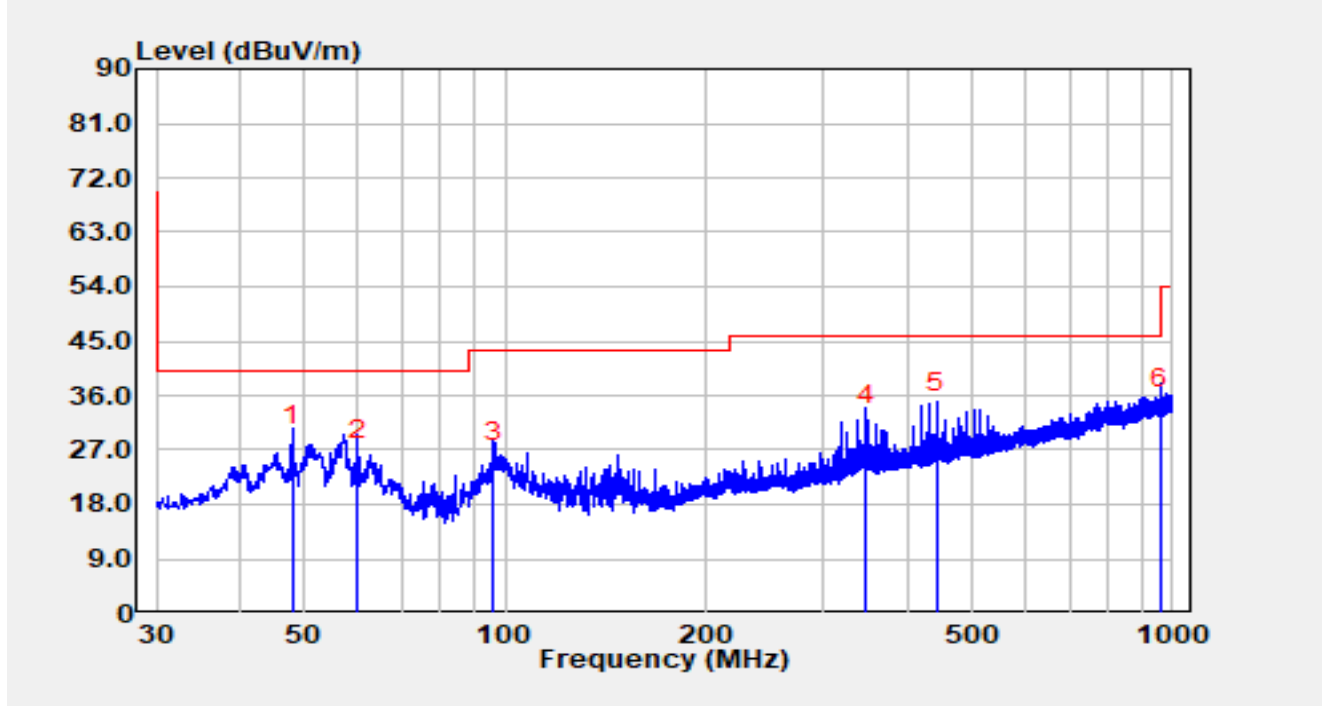
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		39.51	2.74	19.18	21.92	-18.08	40.00	QP
2		48.04	1.54	20.47	22.01	-17.99	40.00	QP
3	*	57.06	2.49	19.95	22.44	-17.56	40.00	QP
4		140.58	3.04	15.12	18.16	-25.34	43.50	QP
5		515.97	2.91	25.43	28.34	-17.66	46.00	QP
6		982.25	-1.91	31.92	30.01	-23.99	54.00	QP

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Antenna #3

Site	WZ-AC2	Test Date	2025-04-10
Temperature	28.7 °C	Humidity	41.7 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Dick Shen
Factor	VULB 9162_00047	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2440MHz		

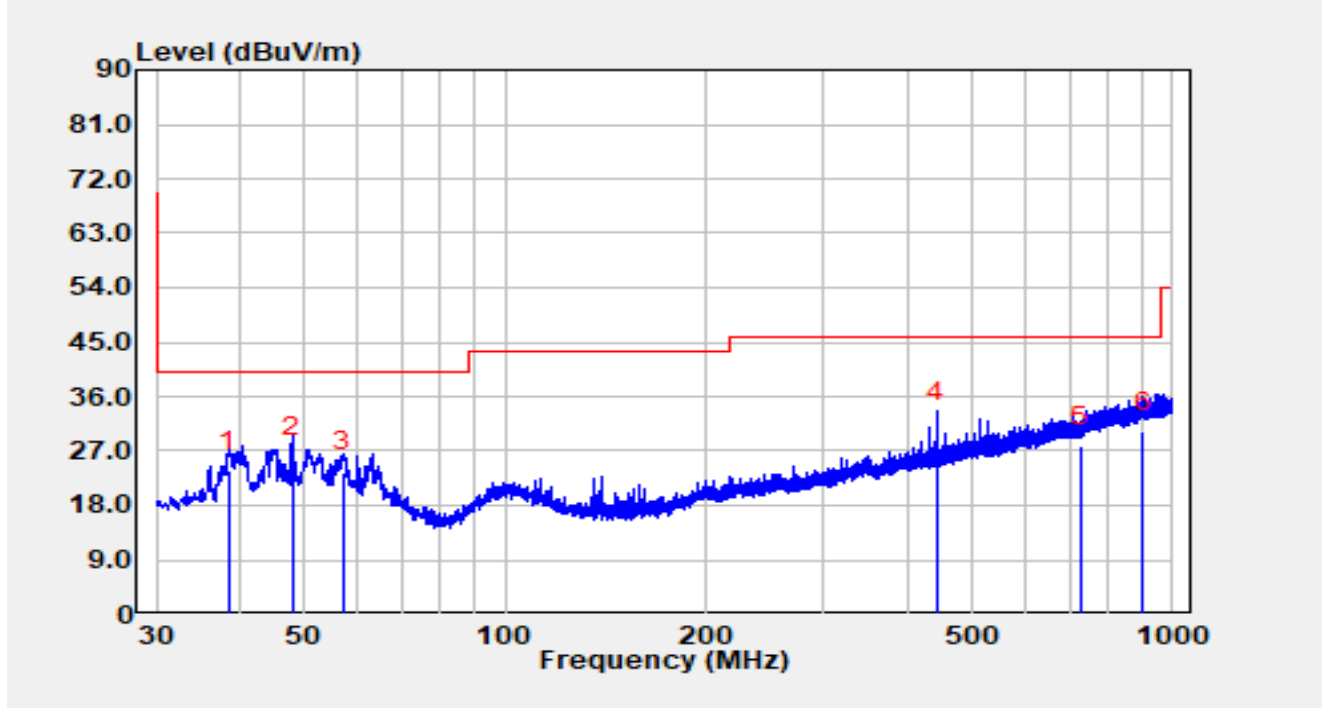


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		48.04	7.23	20.47	27.70	-12.30	40.00	QP
2		59.97	6.00	19.39	25.39	-14.61	40.00	QP
3		96.15	6.80	18.23	25.03	-18.47	43.50	QP
4		348.06	8.07	22.85	30.92	-15.08	46.00	QP
5		444.00	9.15	23.98	33.13	-12.87	46.00	QP
6	*	958.39	2.30	31.66	33.95	-12.05	46.00	QP

Notes:

- " * ", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC2	Test Date	2025-04-10
Temperature	28.7 °C	Humidity	41.7 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Dick Shen
Factor	VULB 9162_00047	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2440MHz		



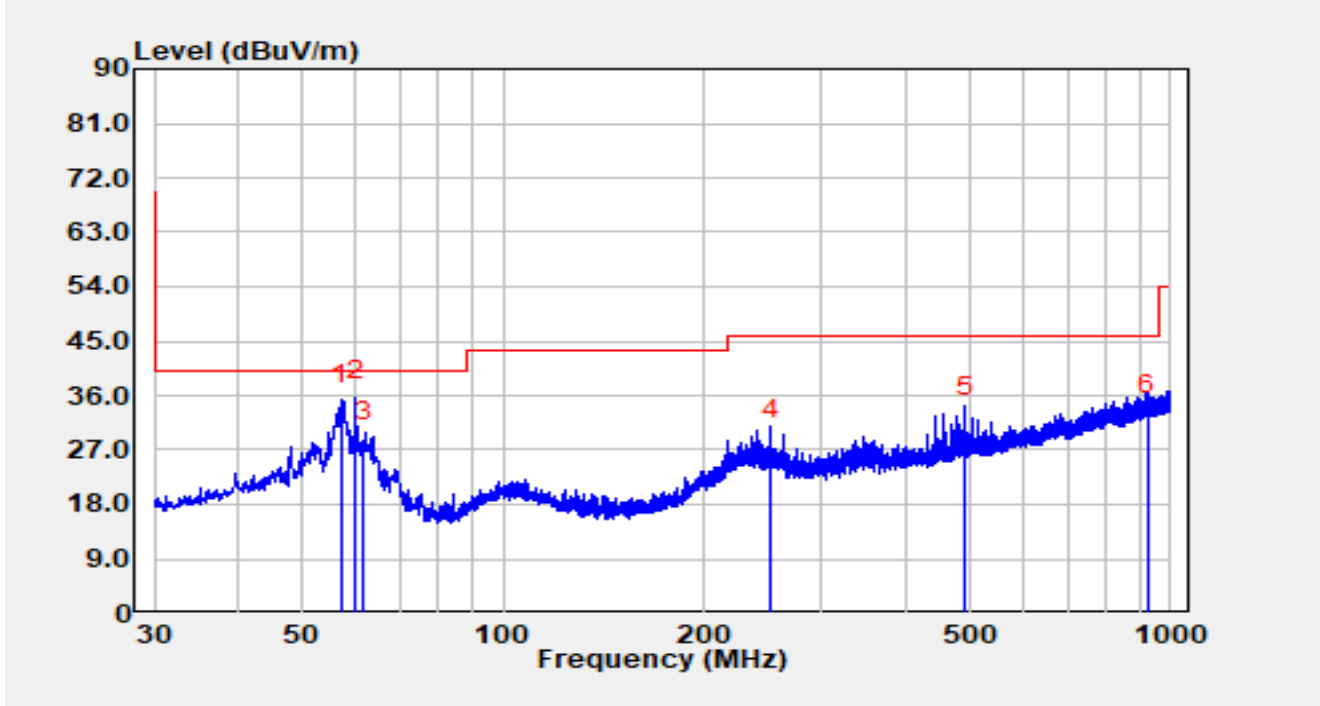
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		38.54	4.86	18.88	23.74	-16.26	40.00	QP
2	*	48.04	5.48	20.47	25.95	-14.05	40.00	QP
3		57.06	3.58	19.95	23.54	-16.46	40.00	QP
4		443.90	7.75	23.97	31.73	-14.27	46.00	QP
5		725.98	-0.93	28.70	27.76	-18.24	46.00	QP
6		902.71	-1.16	31.32	30.16	-15.84	46.00	QP

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Antenna #4

Site	WZ-AC2	Test Date	2025-04-08
Temperature	29.1 °C	Humidity	33.7 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Jerry Lu
Factor	VULB 9162_00047	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

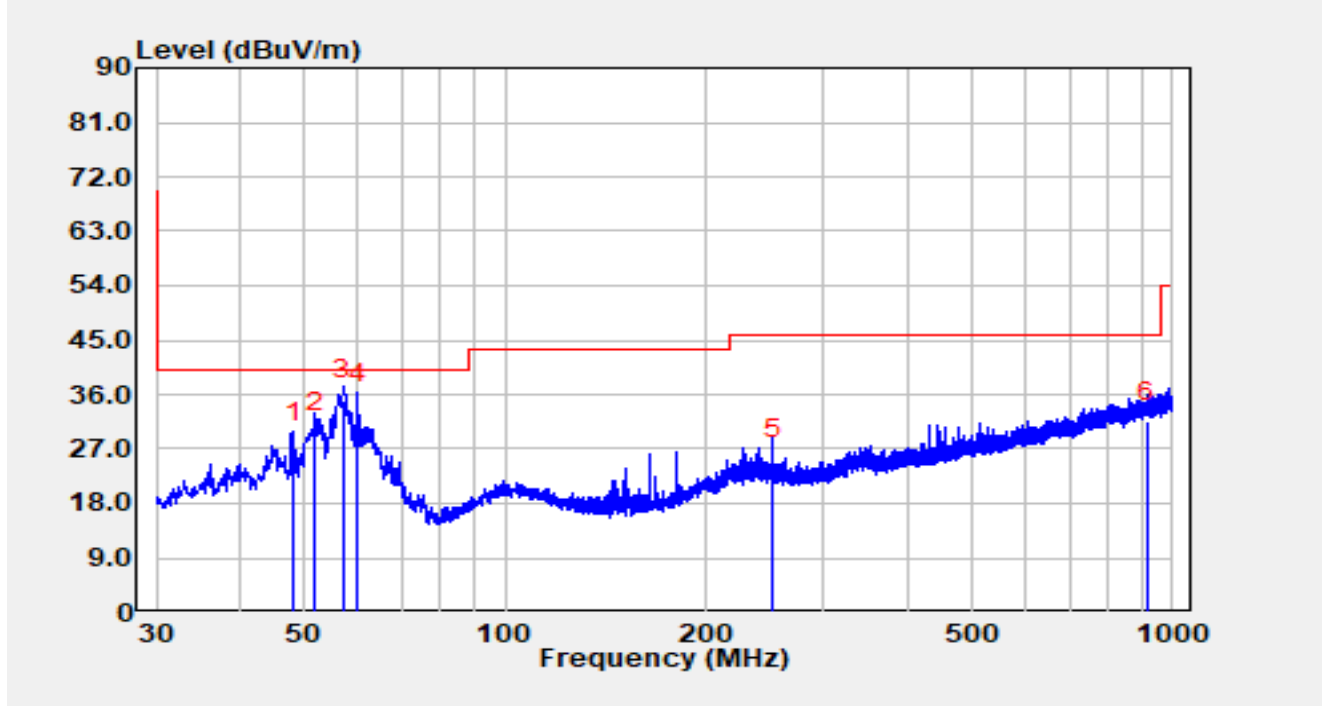


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		57.10	14.49	19.87	34.37	-5.63	40.00	QP
2	*	59.97	15.72	19.39	35.11	-4.89	40.00	QP
3		61.86	9.29	18.99	28.28	-11.72	40.00	QP
4		252.12	8.59	20.18	28.77	-17.23	46.00	QP
5		491.91	7.25	25.32	32.57	-13.43	46.00	QP
6		924.05	1.26	31.35	32.61	-13.39	46.00	QP

Notes:

- " * ", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC2	Test Date	2025-04-08
Temperature	29.1 °C	Humidity	33.7 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Jerry Lu
Factor	VULB 9162_00047	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		48.12	7.52	20.47	27.99	-12.01	40.00	QP
2		51.76	9.44	20.44	29.88	-10.12	40.00	QP
3	*	57.09	15.15	19.95	35.10	-4.90	40.00	QP
4		60.02	15.23	19.39	34.62	-5.38	40.00	QP
5		252.10	5.27	20.18	25.45	-20.55	46.00	QP
6		915.42	0.24	31.29	31.53	-14.47	46.00	QP

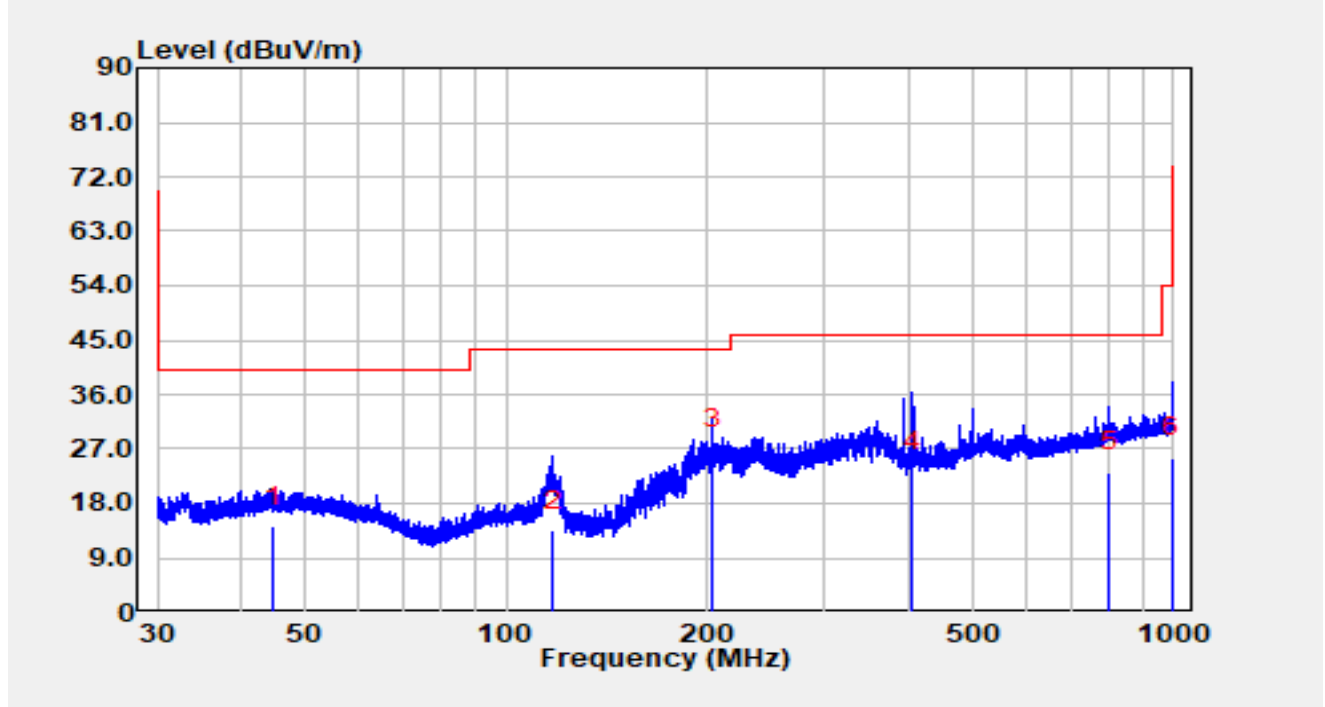
Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Spot check test data for module with shielding cover:

Antenna #4

Site	WJ-AC2	Test Date	2025-05-06
Temperature	20.5 °C	Humidity	35.7 %
Limit	FCC_Part 15.209_RSE (3m)	Test Engineer	Bob Zhang
Factor	VULB 9163_07097	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

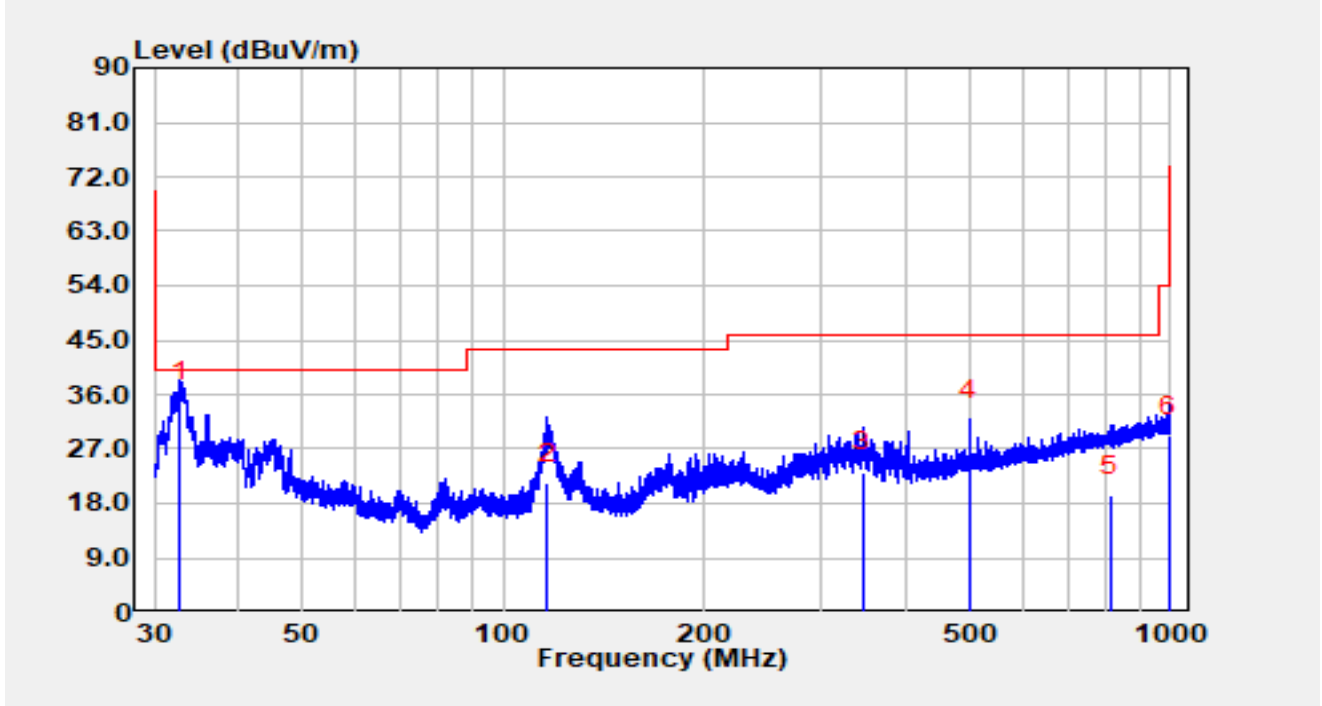


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		44.743	-5.20	19.37	14.17	-25.83	40.00	QP
2		117.319	-2.60	16.12	13.52	-29.98	43.50	QP
3	*	203.523	9.70	17.43	27.13	-16.37	43.50	QP
4		406.943	0.70	22.61	23.31	-22.69	46.00	QP
5		802.630	-5.30	28.42	23.12	-22.88	46.00	QP
6		993.011	-4.70	30.31	25.61	-28.39	54.00	QP

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WJ-AC2	Test Date	2025-05-06
Temperature	20.5 °C	Humidity	35.7 %
Limit	FCC_Part 15.209_RSE (3m)	Test Engineer	Bob Zhang
Factor	VULB 9163_07097	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	32.760	18.30	16.42	34.72	-5.28	40.00	QP
2		116.581	5.10	16.25	21.35	-22.15	43.50	QP
3		346.445	1.50	21.63	23.13	-22.87	46.00	QP
4		500.126	7.60	24.17	31.77	-14.23	46.00	QP
5		811.118	-9.30	28.49	19.19	-26.81	46.00	QP
6		995.801	-1.20	30.34	29.14	-24.86	54.00	QP

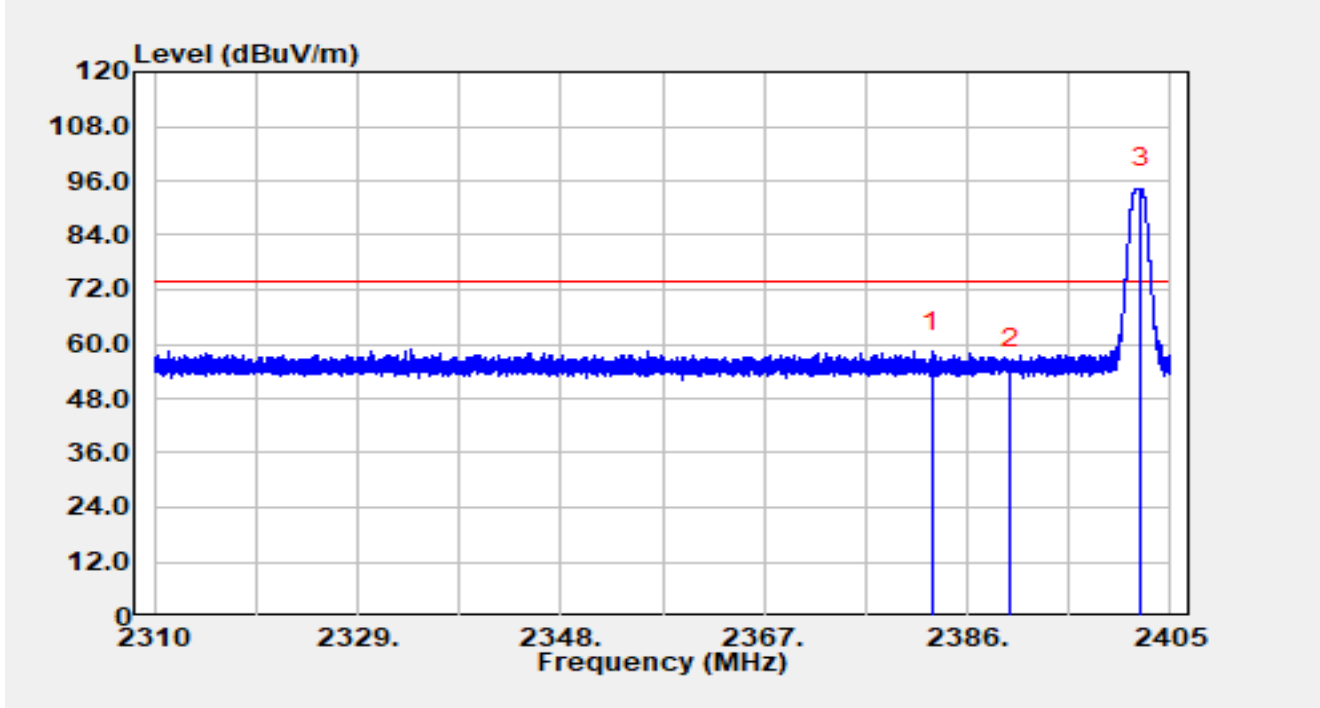
Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
4. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

A.7 Radiated Restricted Band Edge Test Result

Antenna #1

Site	WZ-AC1	Test Date	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

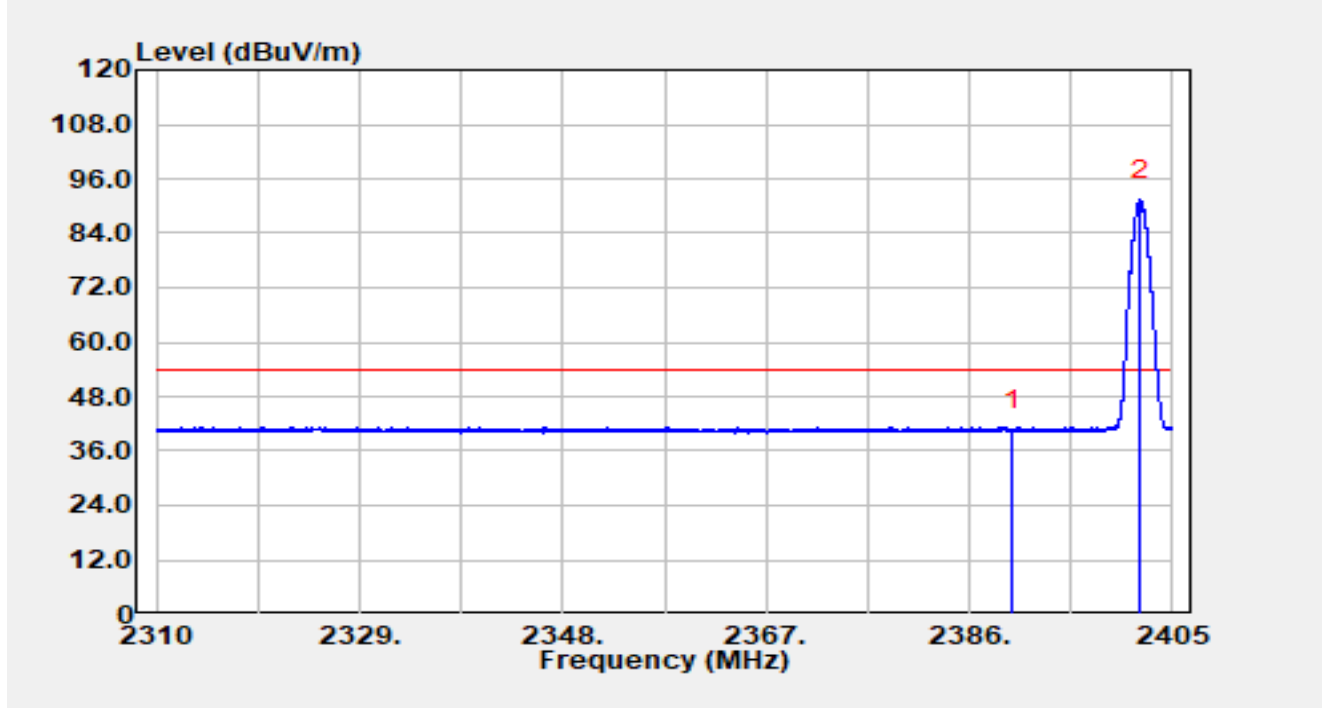


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2382.74	26.32	31.97	58.30	-15.70	74.00	Peak
2		2390.00	22.55	31.96	54.51	-19.49	74.00	Peak
3		2402.26	62.50	31.90	94.40	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

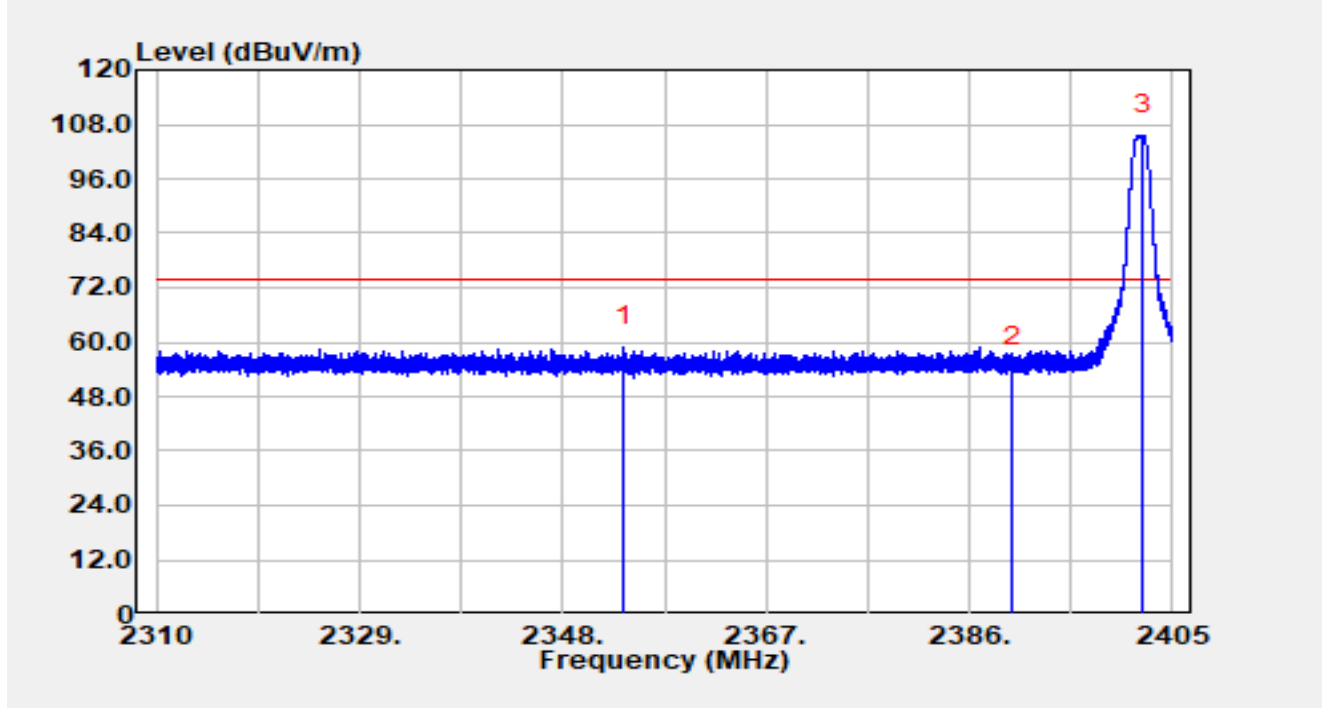


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2390.00	8.79	31.96	40.74	-13.26	54.00	Average
2		2401.96	59.50	31.90	91.40	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

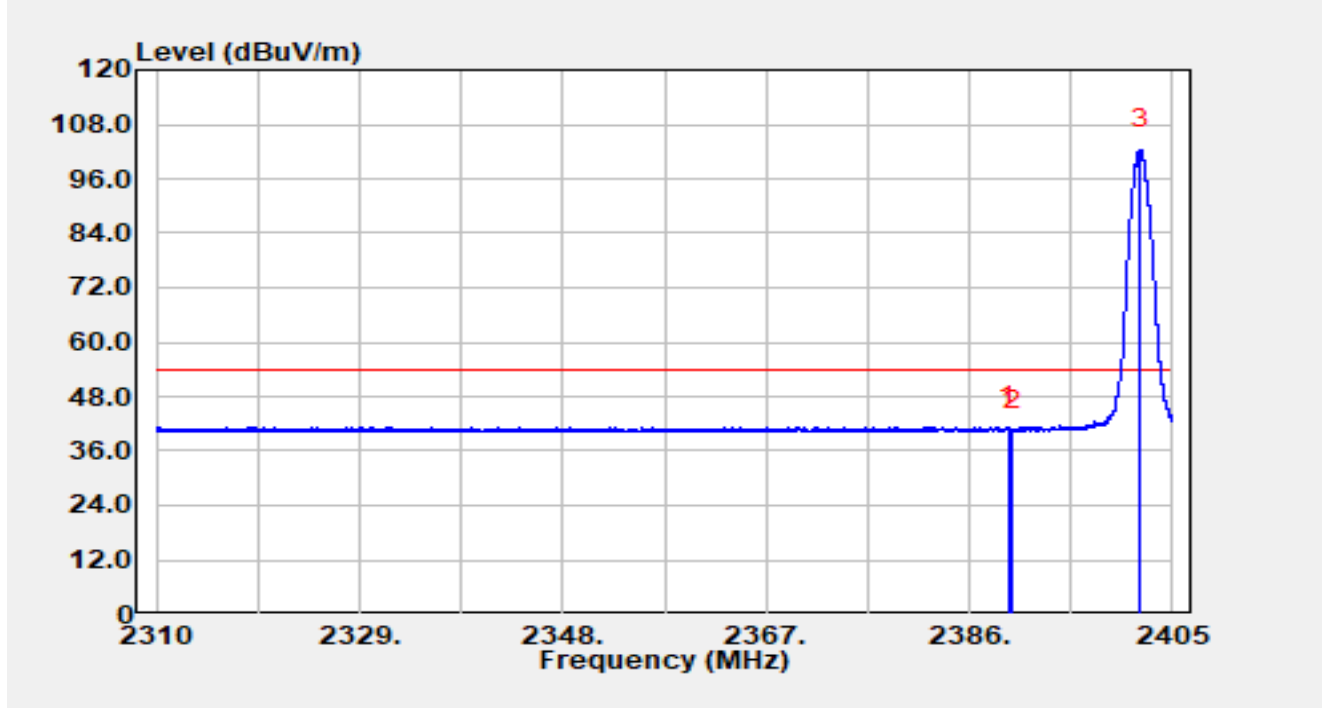


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2353.77	27.02	31.97	58.99	-15.01	74.00	Peak
2		2390.00	22.43	31.96	54.38	-19.62	74.00	Peak
3		2402.24	73.70	31.90	105.60	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

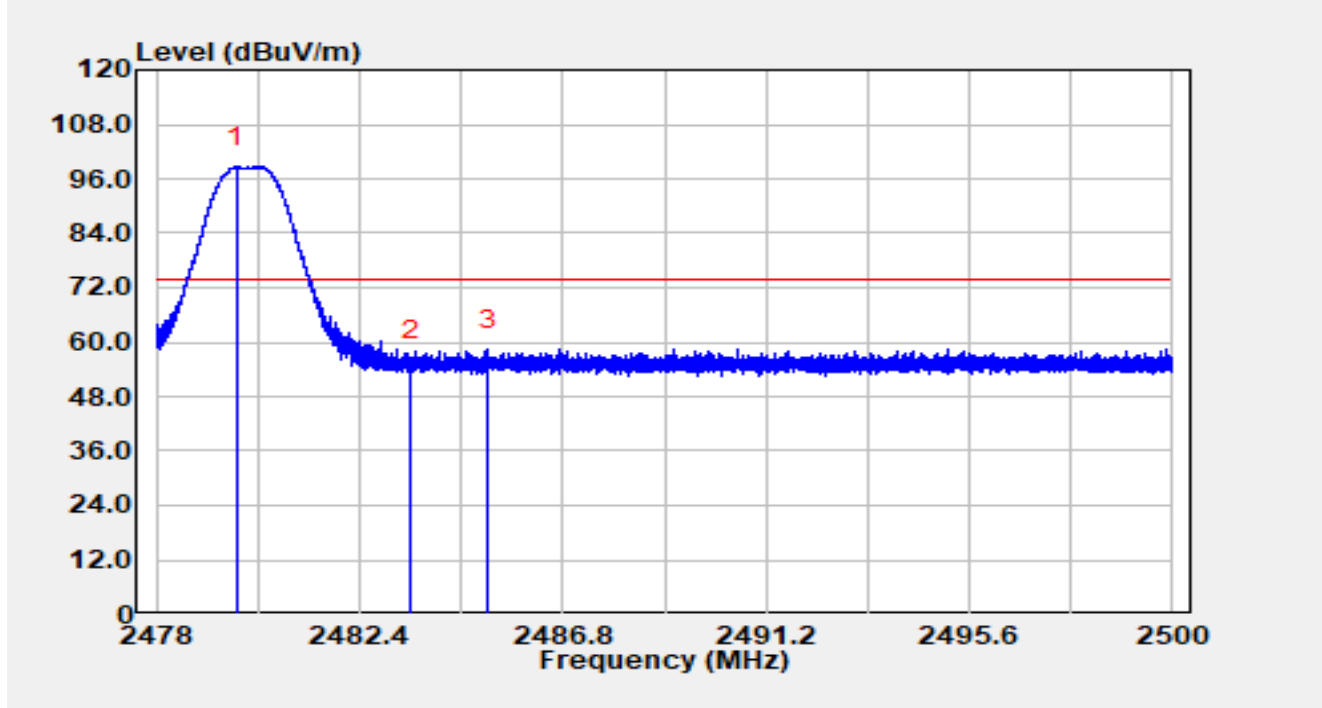


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2389.62	9.34	31.96	41.30	-12.70	54.00	Average
2		2390.00	8.53	31.96	40.48	-13.52	54.00	Average
3		2402.04	70.63	31.90	102.53	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

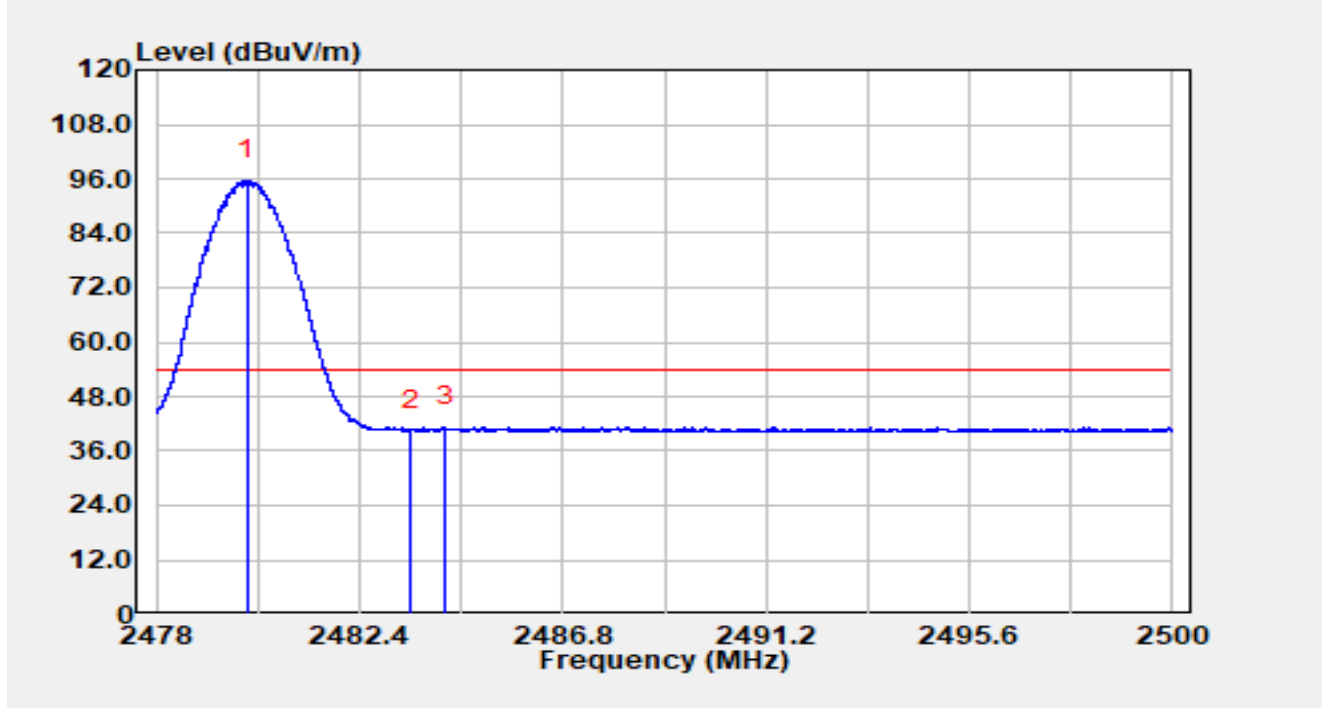


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.74	66.83	31.80	98.64	N/A	N/A	Peak
2		2483.50	23.92	31.81	55.73	-18.27	74.00	Peak
3	*	2485.17	26.61	31.81	58.41	-15.59	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

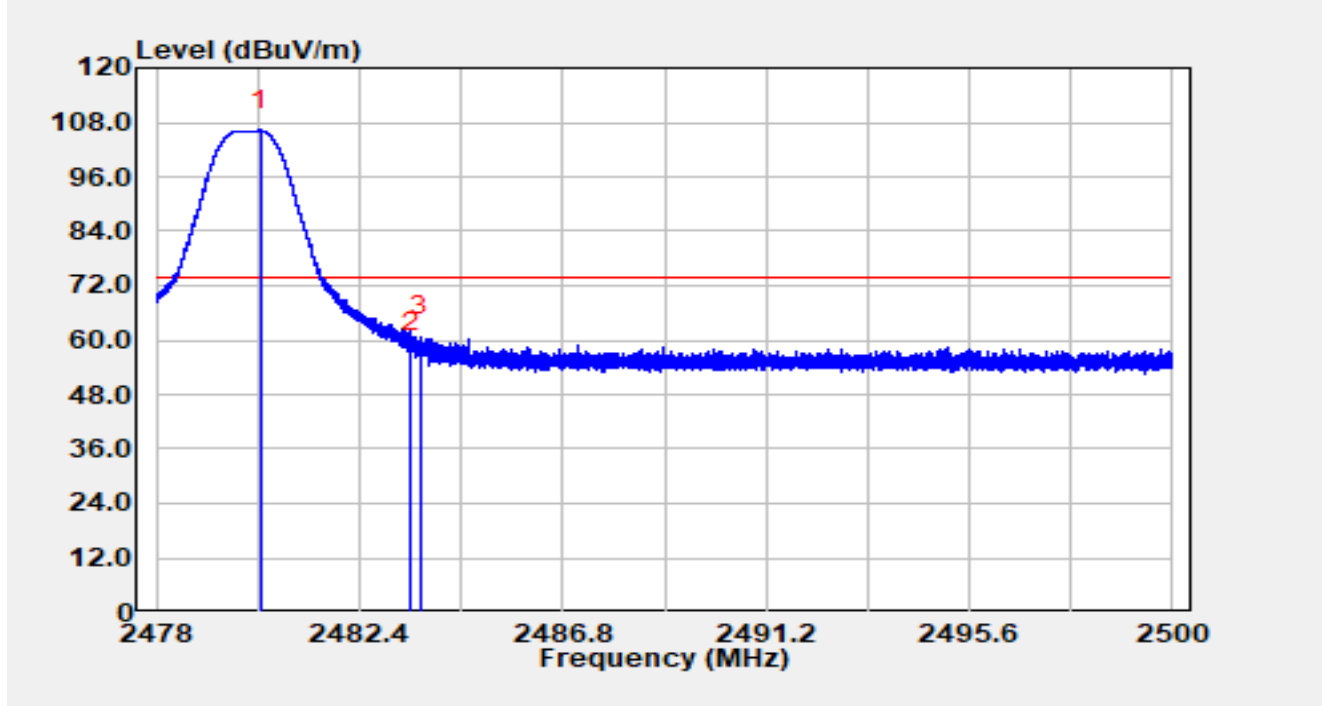


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.96	63.87	31.80	95.67	N/A	N/A	Average
2		2483.50	8.72	31.81	40.53	-13.47	54.00	Average
3	*	2484.26	9.52	31.81	41.32	-12.68	54.00	Average

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

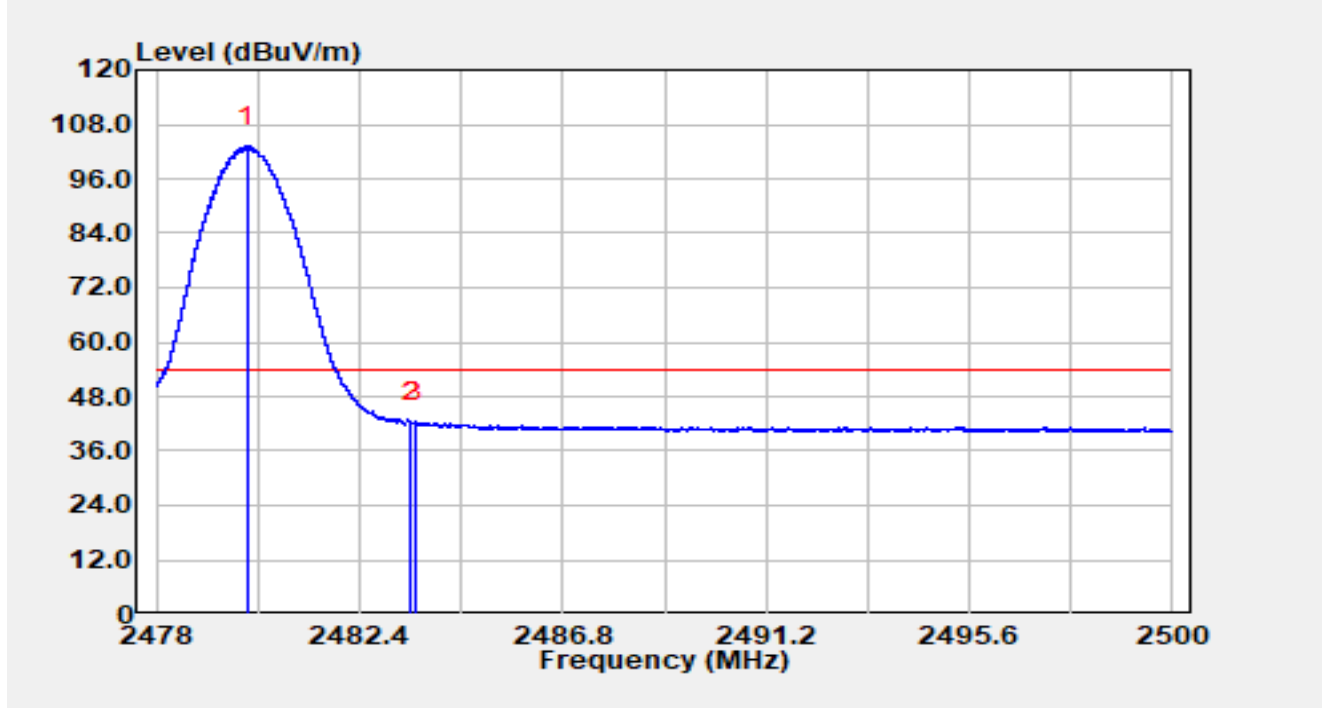


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.26	74.40	31.80	106.20	N/A	N/A	Peak
2		2483.50	25.69	31.81	57.50	-16.50	74.00	Peak
3	*	2483.71	29.04	31.81	60.85	-13.15	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

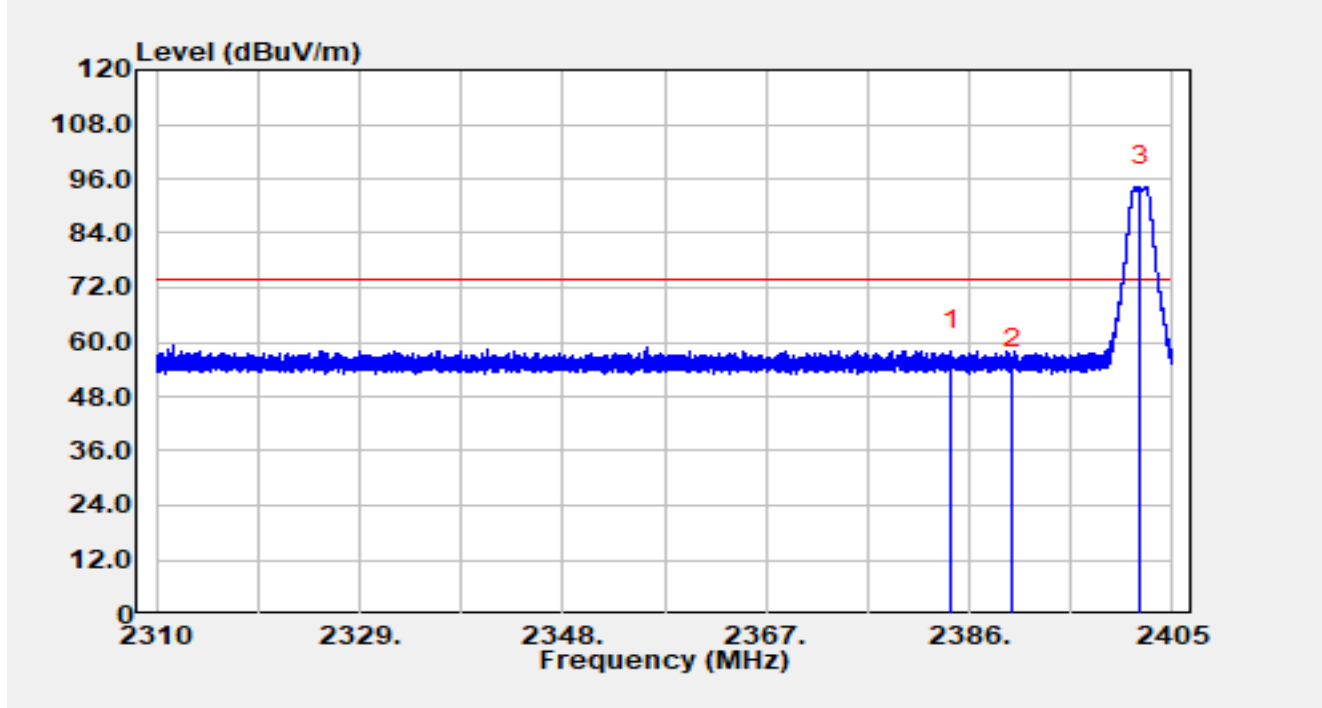


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.96	71.41	31.80	103.21	N/A	N/A	Average
2		2483.50	10.56	31.81	42.37	-11.63	54.00	Average
3	*	2483.58	10.62	31.81	42.42	-11.58	54.00	Average

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

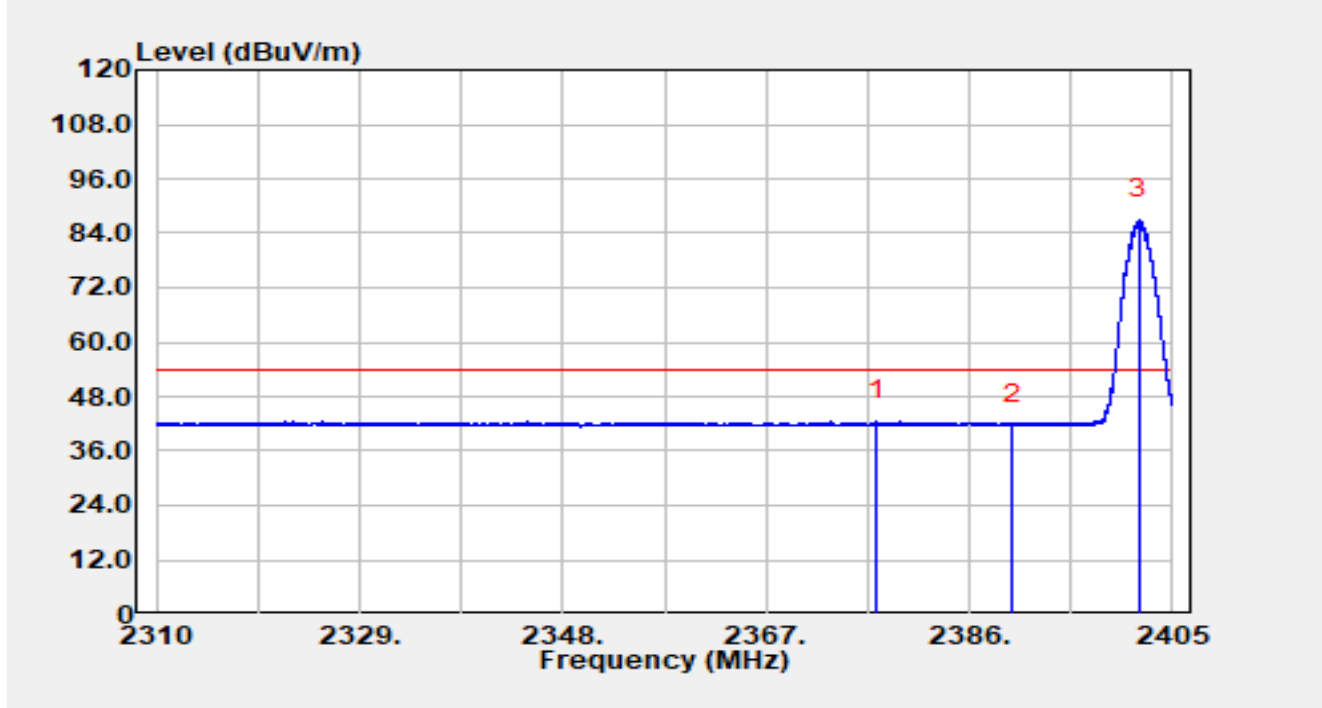


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2384.27	26.18	31.97	58.15	-15.85	74.00	Peak
2		2390.00	22.26	31.96	54.21	-19.79	74.00	Peak
3		2401.98	62.50	31.90	94.40	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

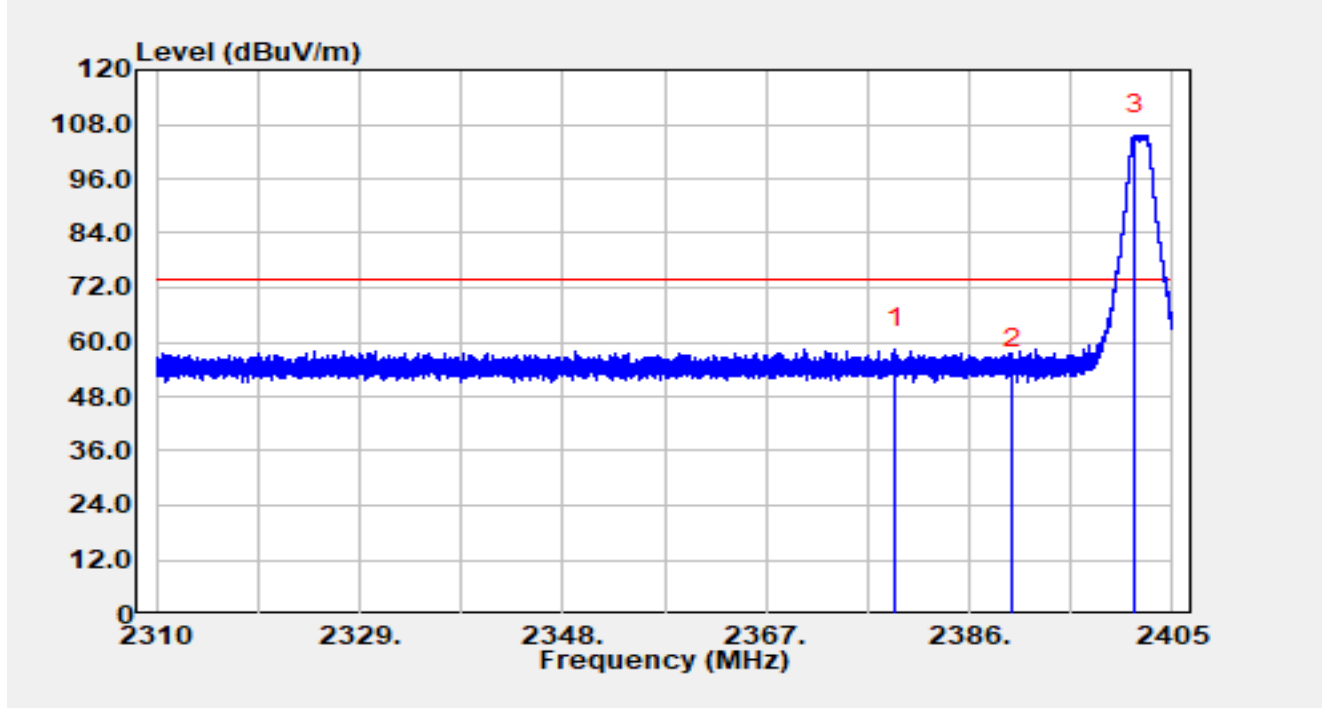


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2377.29	10.81	31.97	42.77	-11.23	54.00	Average
2		2390.00	10.10	31.96	42.06	-11.94	54.00	Average
3		2401.89	55.06	31.90	86.96	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

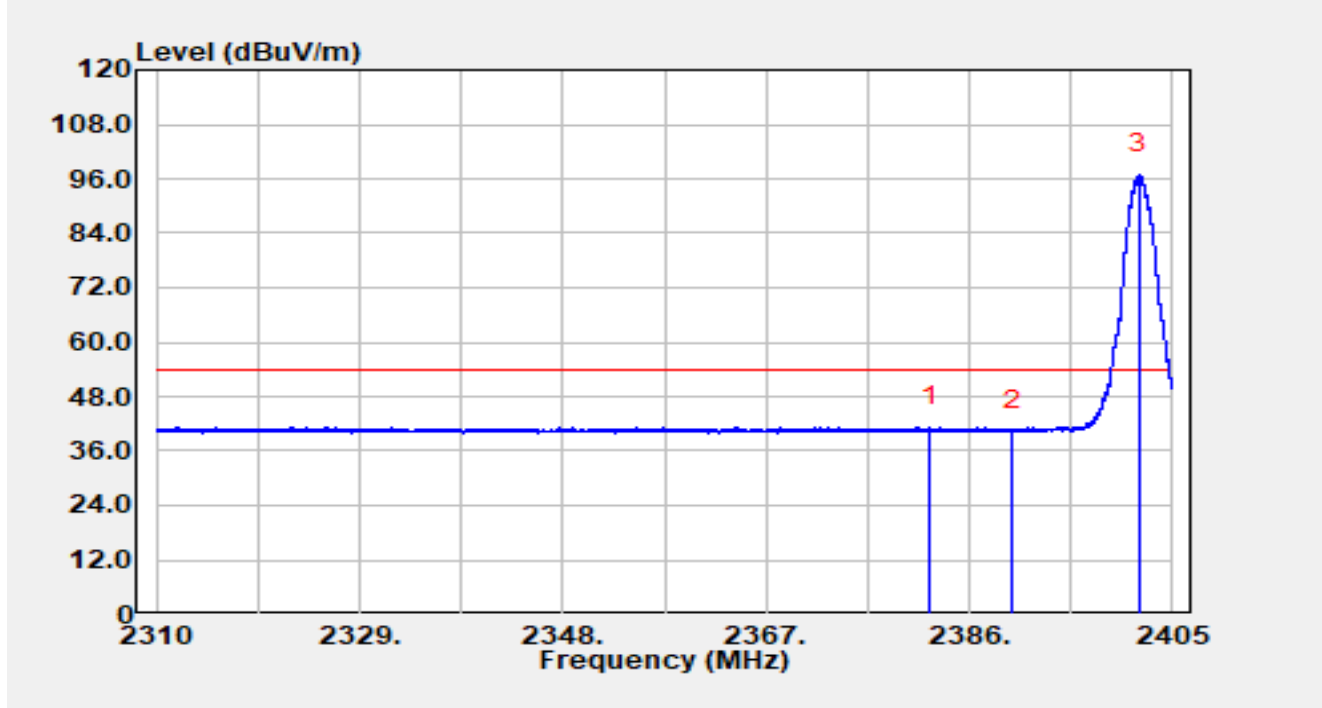


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2379.14	26.55	31.97	58.52	-15.48	74.00	Peak
2		2390.00	21.94	31.96	53.90	-20.10	74.00	Peak
3		2401.43	73.71	31.90	105.61	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

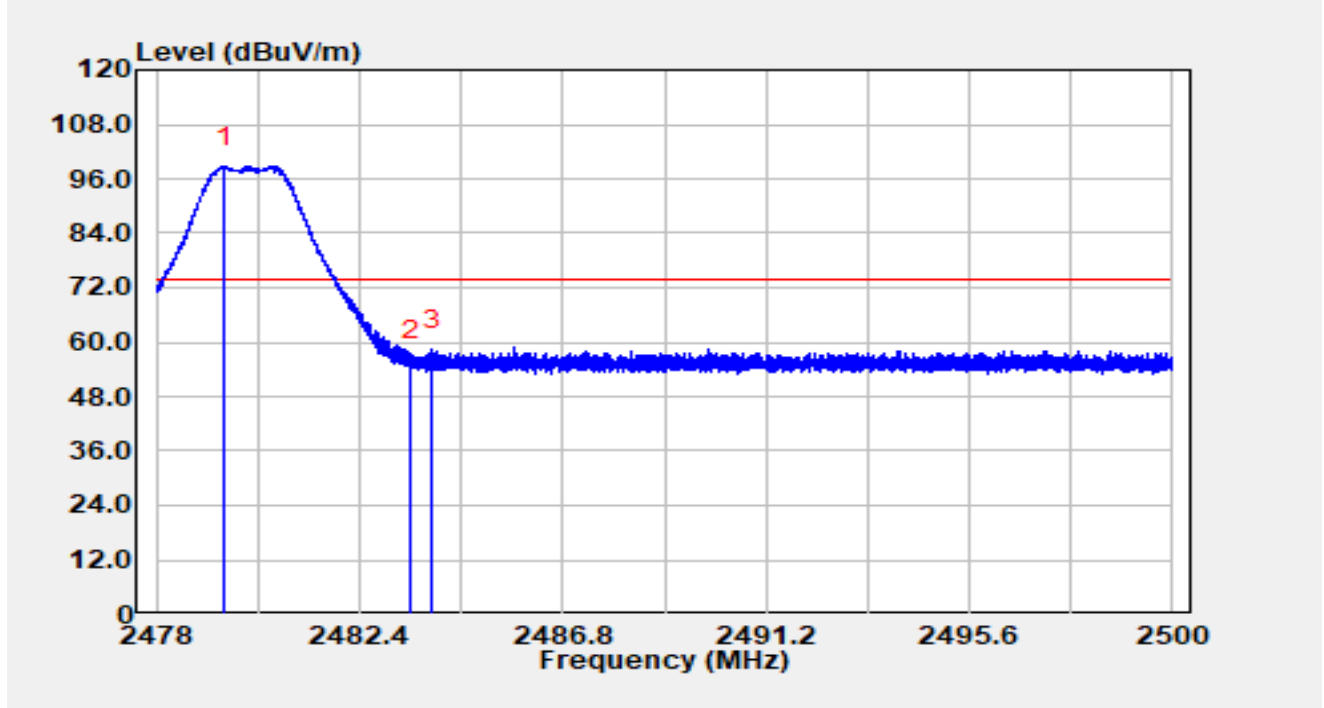


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2382.32	9.30	31.97	41.27	-12.73	54.00	Average
2		2390.00	8.79	31.96	40.74	-13.26	54.00	Average
3		2401.88	65.10	31.90	97.00	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

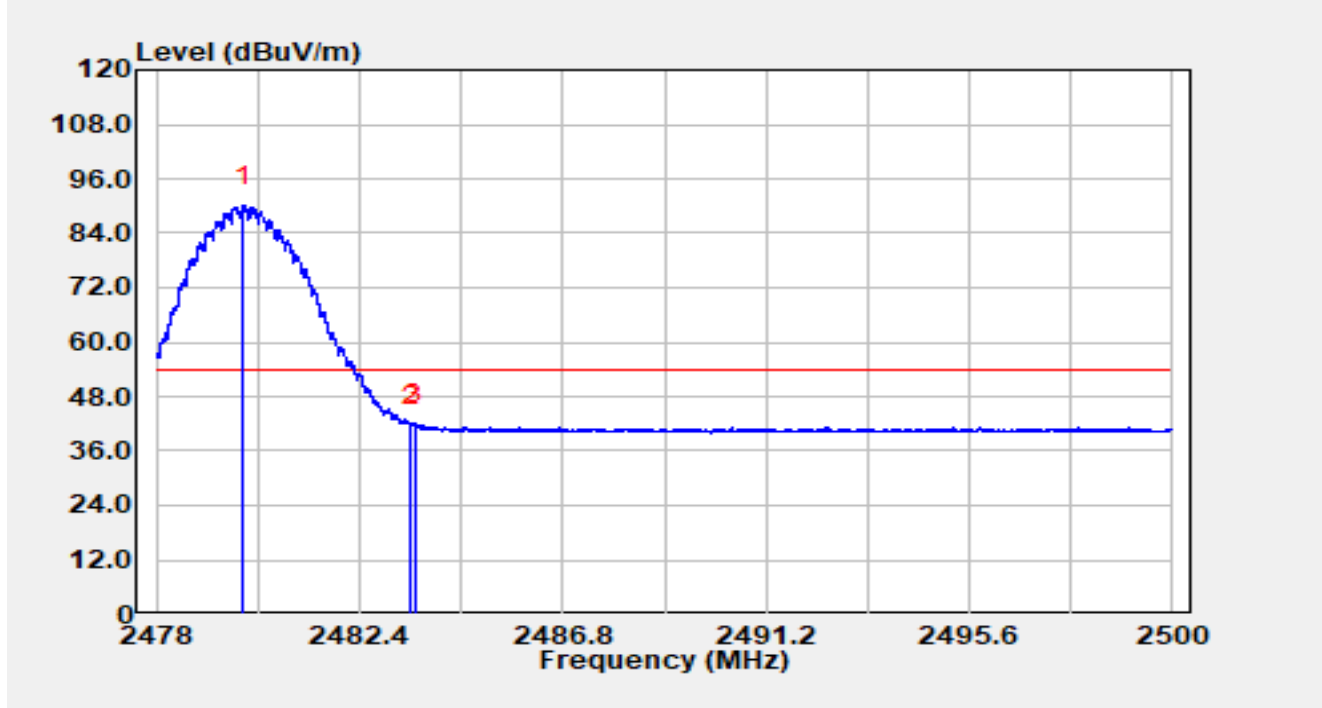


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.49	66.86	31.80	98.66	N/A	N/A	Peak
2		2483.50	24.06	31.81	55.87	-18.13	74.00	Peak
3	*	2483.97	26.57	31.81	58.38	-15.62	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

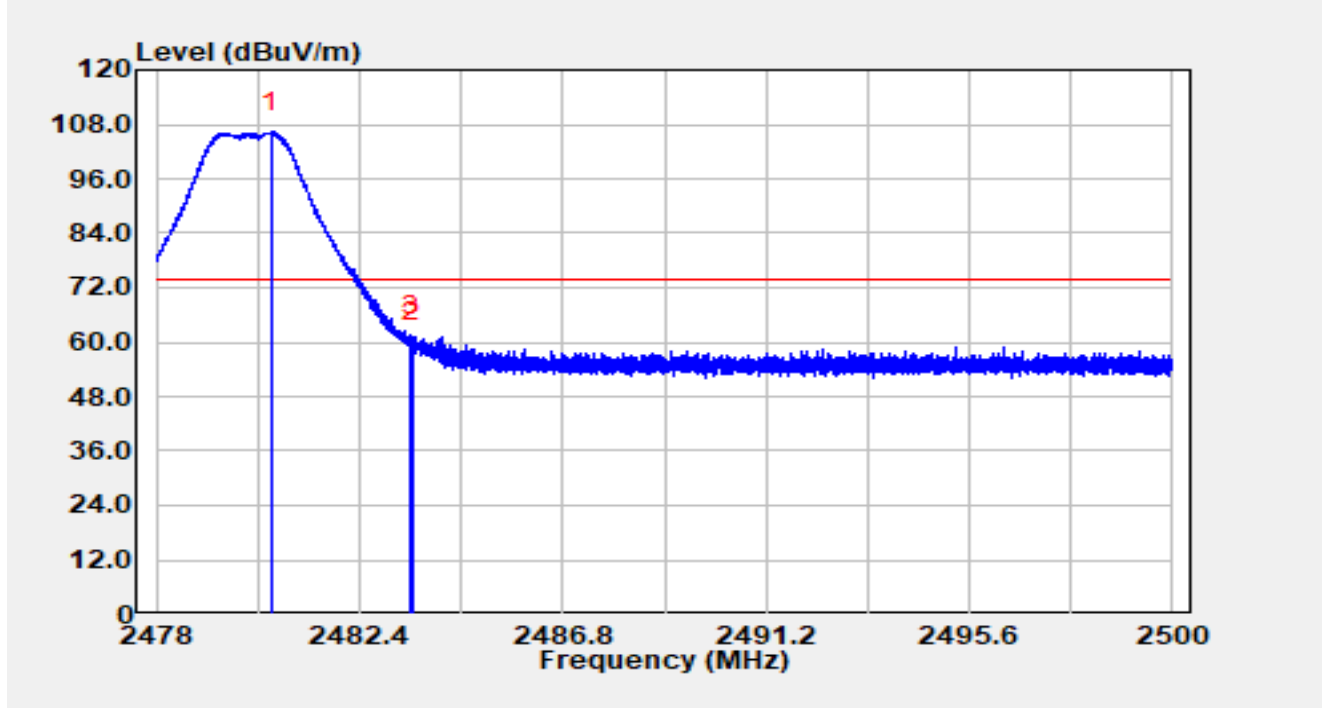


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.87	58.25	31.80	90.06	N/A	N/A	Average
2		2483.50	9.72	31.81	41.52	-12.48	54.00	Average
3	*	2483.59	10.10	31.81	41.90	-12.10	54.00	Average

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

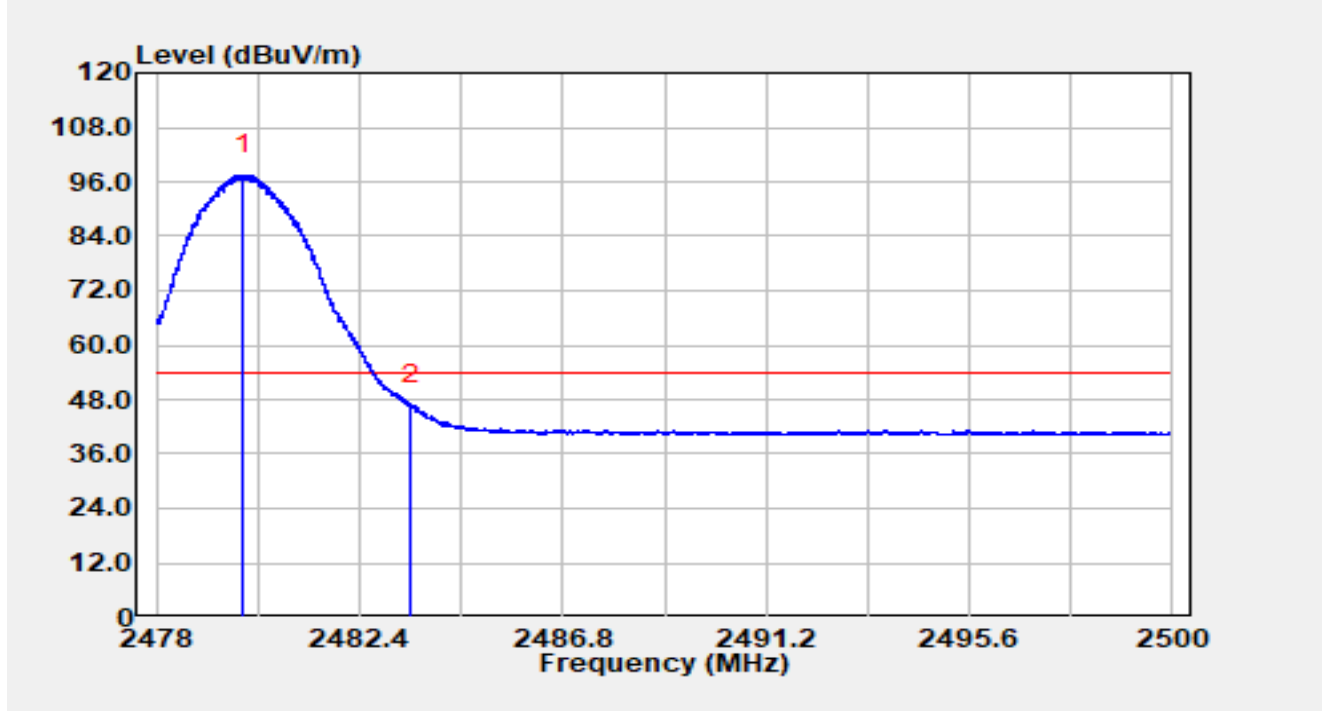


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.50	74.44	31.80	106.24	N/A	N/A	Peak
2		2483.50	28.10	31.81	59.91	-14.09	74.00	Peak
3	*	2483.54	29.55	31.81	61.36	-12.64	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
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	2025-02-21
Temperature	20.2 °C	Humidity	35.2 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01167	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		



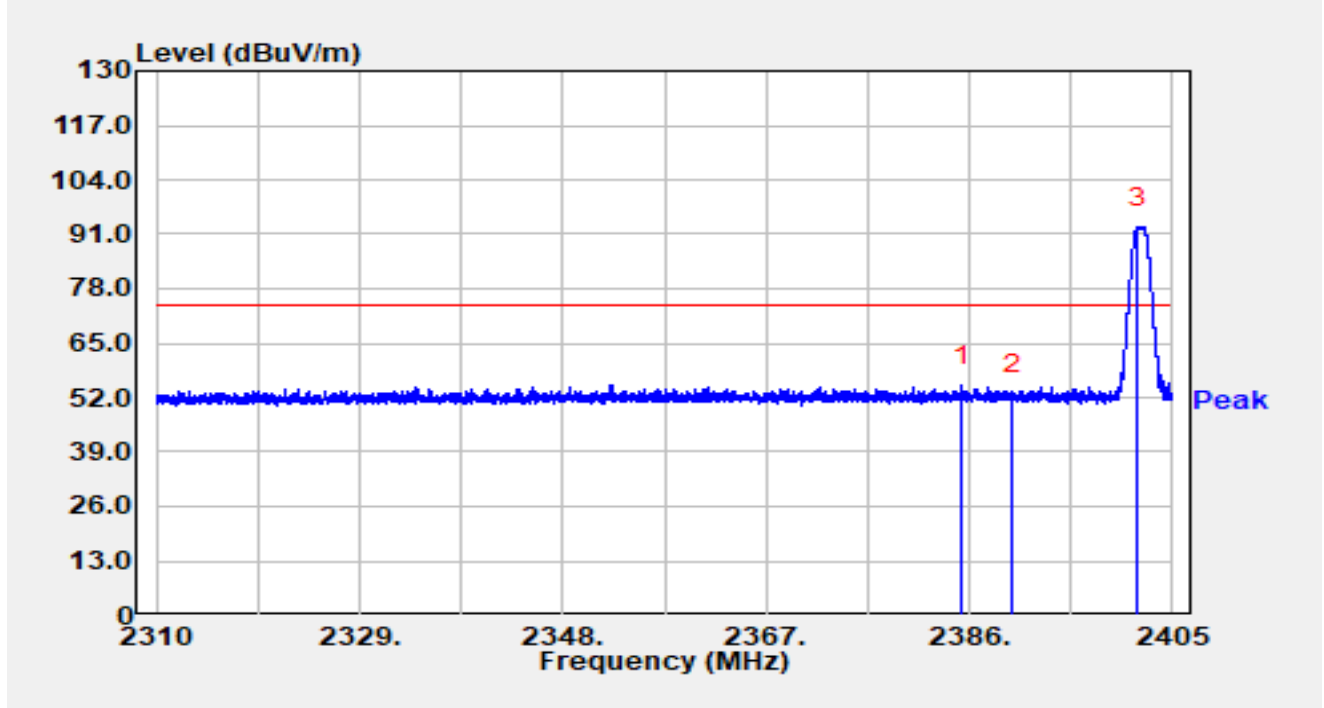
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.88	65.77	31.80	97.57	N/A	N/A	Average
2	*	2483.50	15.06	31.81	46.87	-7.13	54.00	Average

Notes:

- " * ", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Antenna #2

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

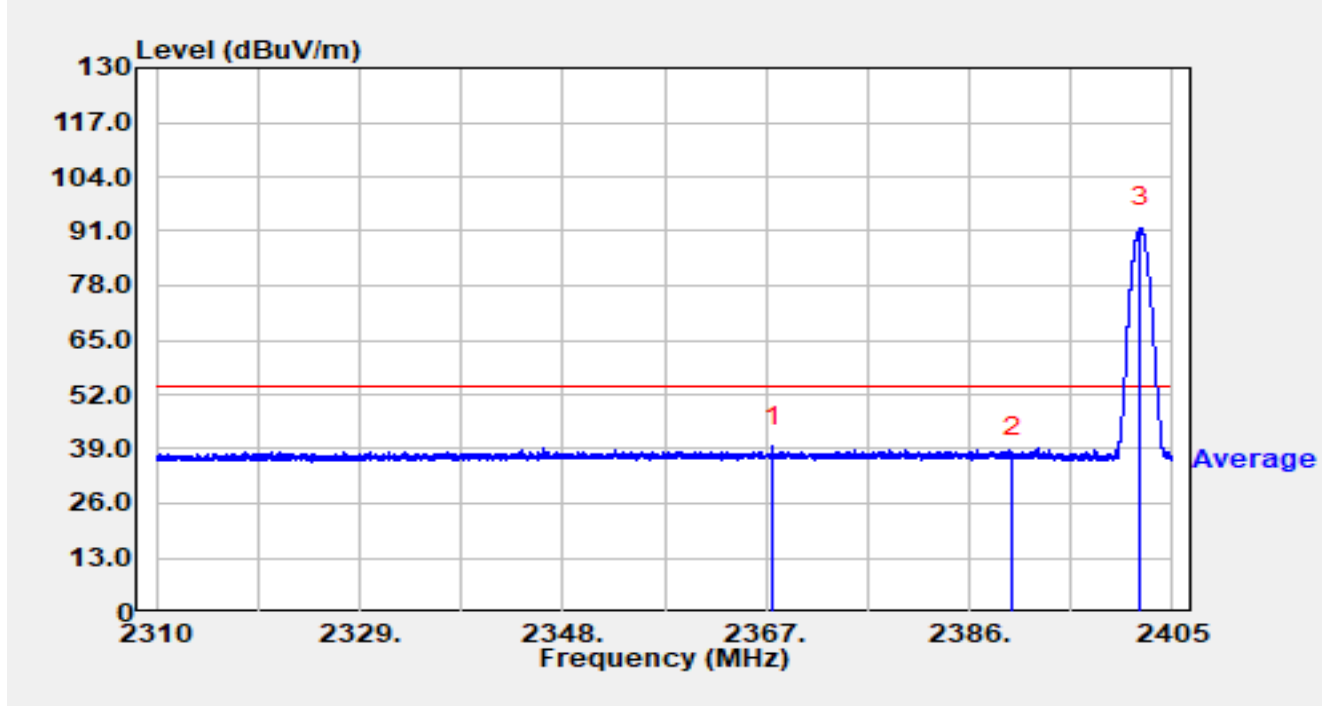


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2385.335	25.13	29.57	54.71	-19.29	74.00	Peak
2		2390.000	23.04	29.59	52.63	-21.37	74.00	Peak
3		2401.741	63.00	29.64	92.64	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

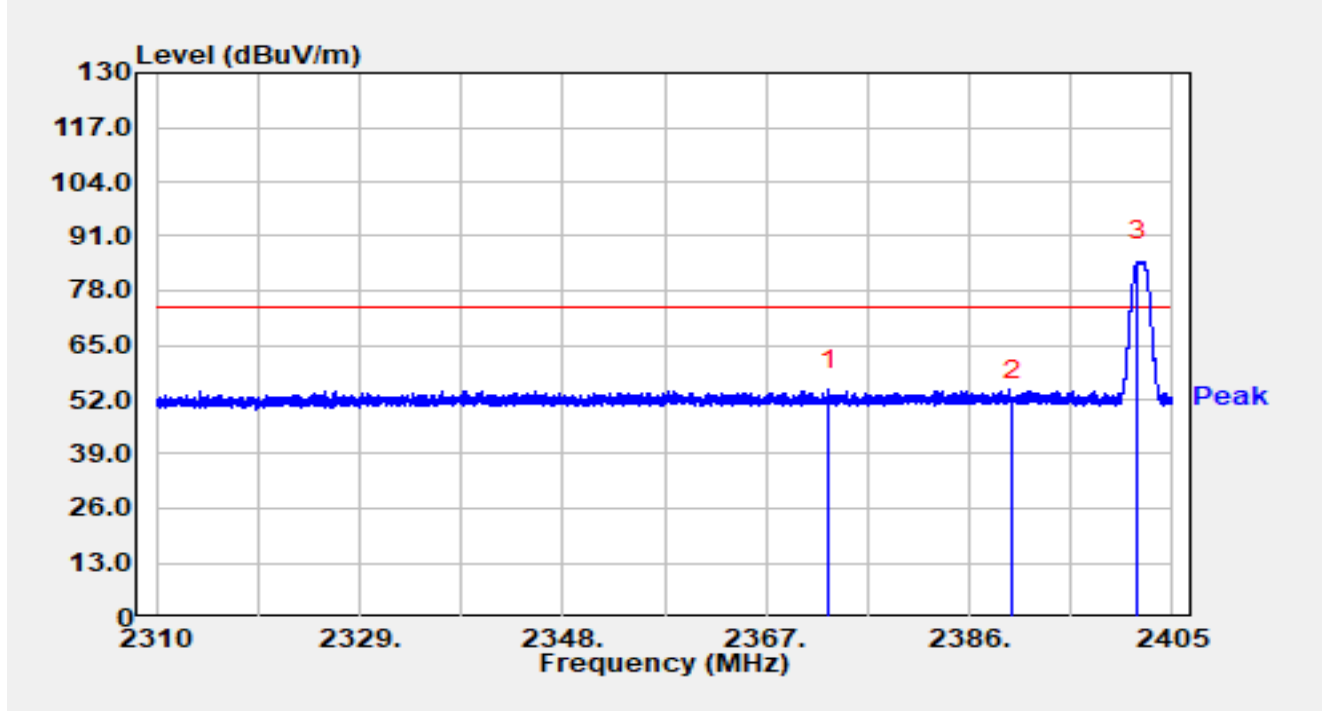


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2367.608	9.93	29.56	39.49	-14.51	54.00	Average
2		2390.000	7.67	29.59	37.26	-16.74	54.00	Average
3		2402.008	62.13	29.64	91.77	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

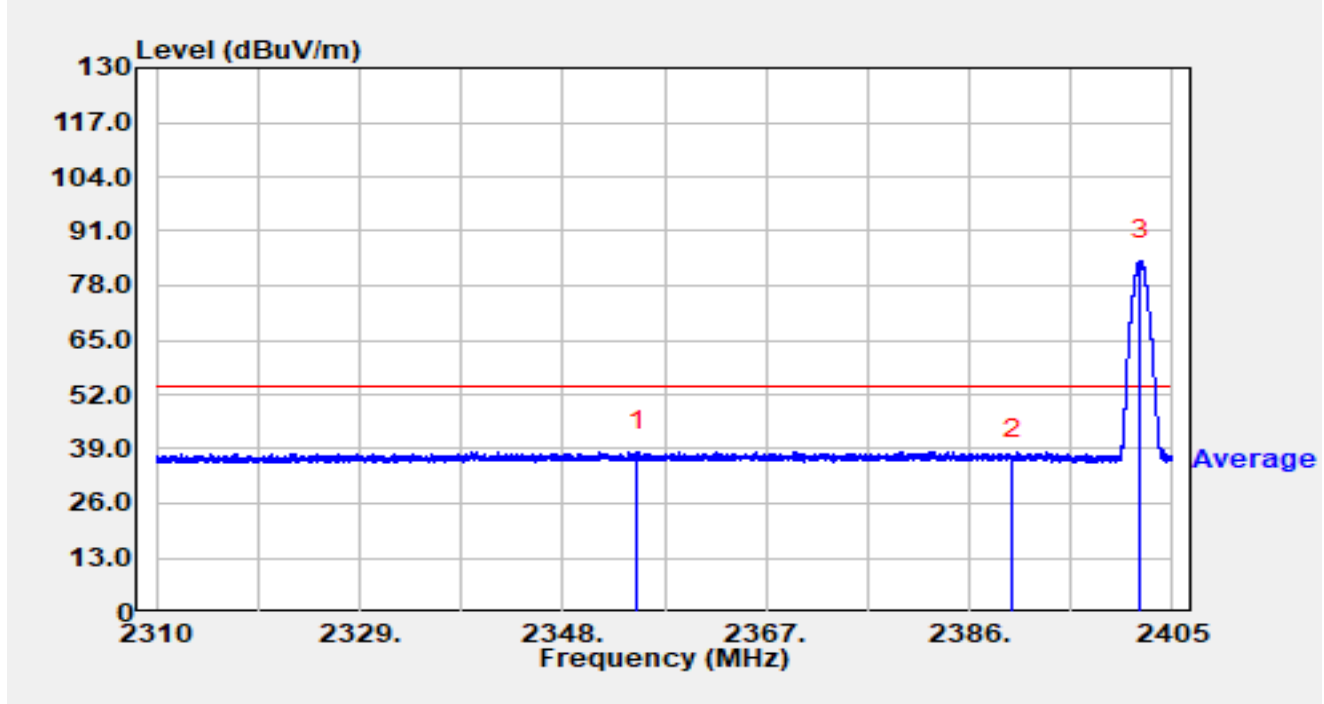


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2372.899	24.80	29.56	54.36	-19.64	74.00	Peak
2		2390.000	22.16	29.59	51.75	-22.25	74.00	Peak
3		2401.760	55.27	29.64	84.90	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

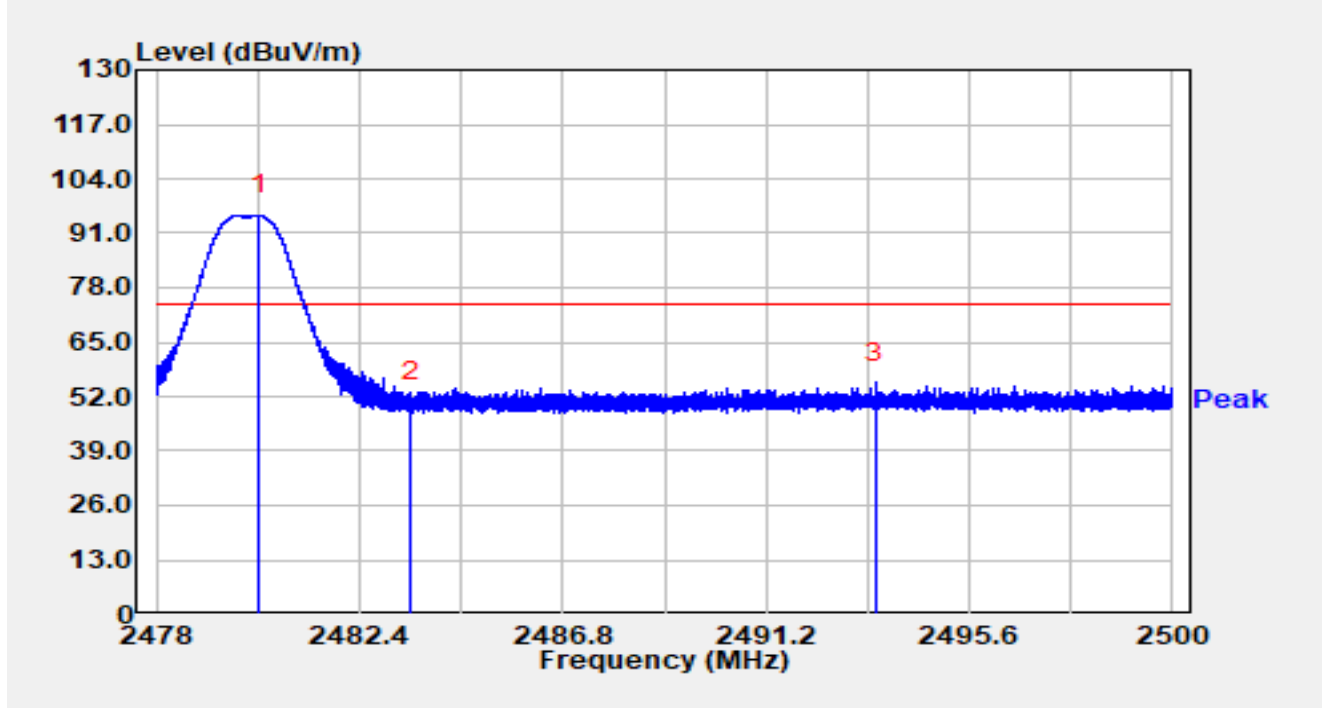


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2355.011	8.97	29.53	38.50	-15.50	54.00	Average
2		2390.000	6.82	29.59	36.41	-17.59	54.00	Average
3		2402.036	54.29	29.64	83.93	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

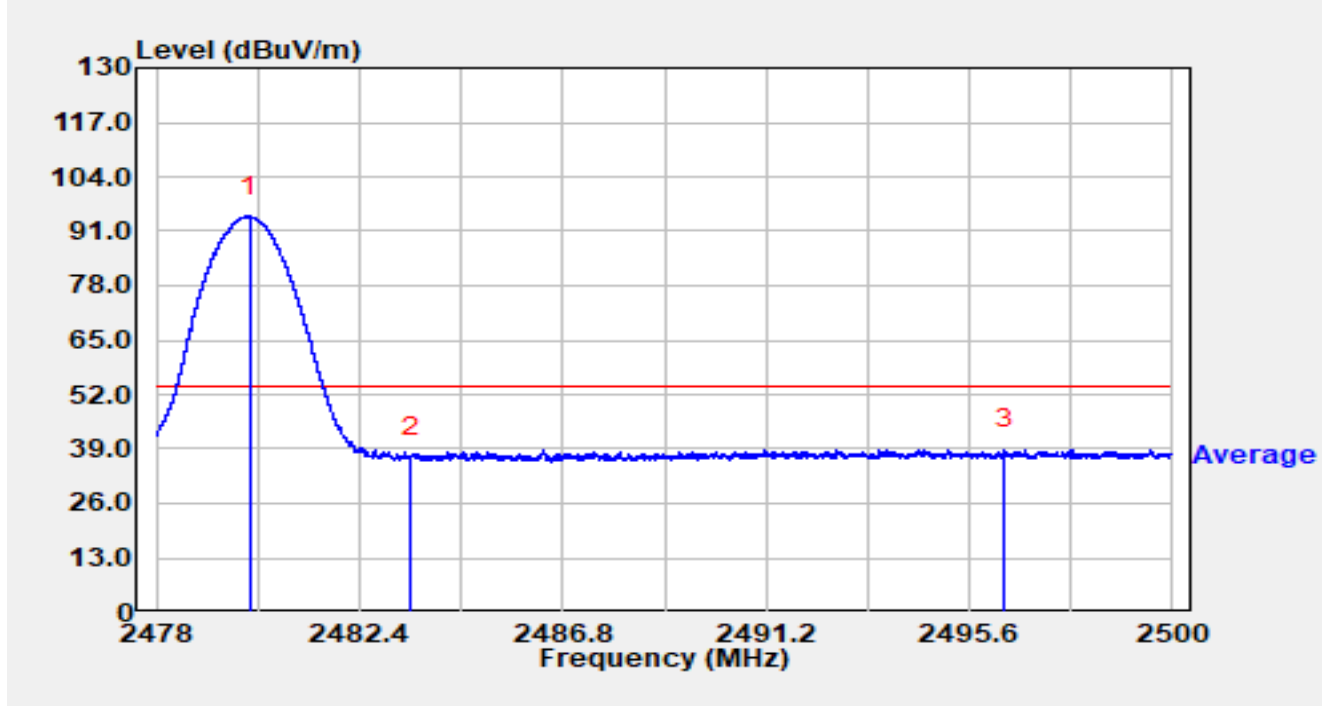


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.235	65.43	29.75	95.18	N/A	N/A	Peak
2		2483.500	20.95	29.76	50.72	-23.28	74.00	Peak
3	*	2493.574	25.58	29.79	55.37	-18.63	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

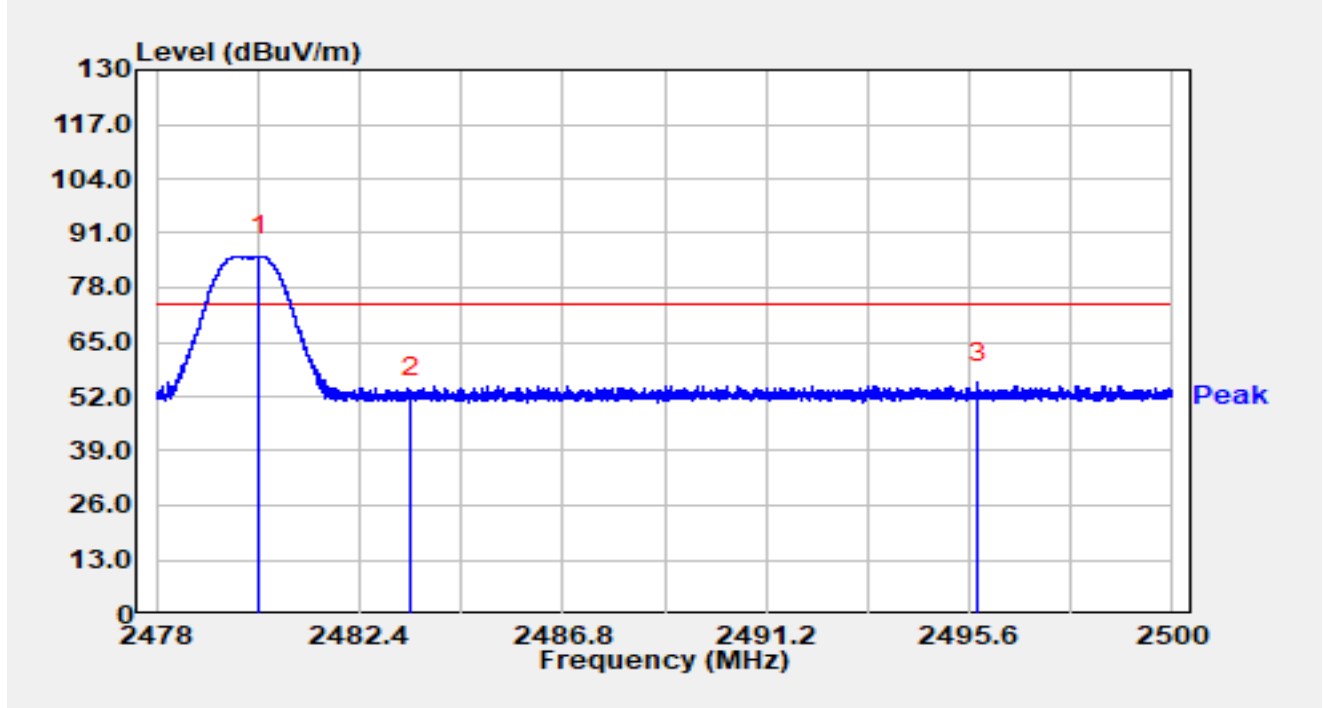


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.026	64.78	29.75	94.53	N/A	N/A	Average
2		2483.500	7.08	29.76	36.84	-17.16	54.00	Average
3	*	2496.359	9.14	29.79	38.93	-15.07	54.00	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

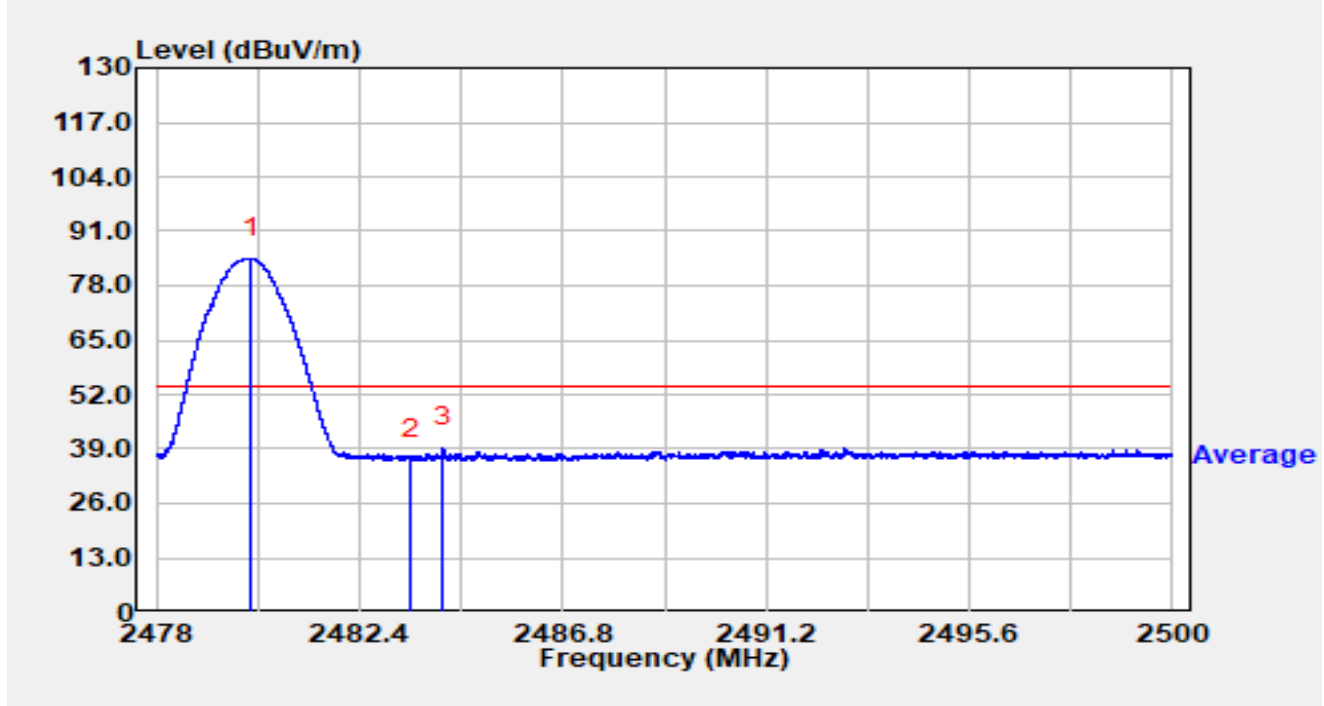


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.229	55.74	29.75	85.49	N/A	N/A	Peak
2		2483.500	21.76	29.76	51.52	-22.48	74.00	Peak
3	*	2495.792	25.44	29.79	55.22	-18.78	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

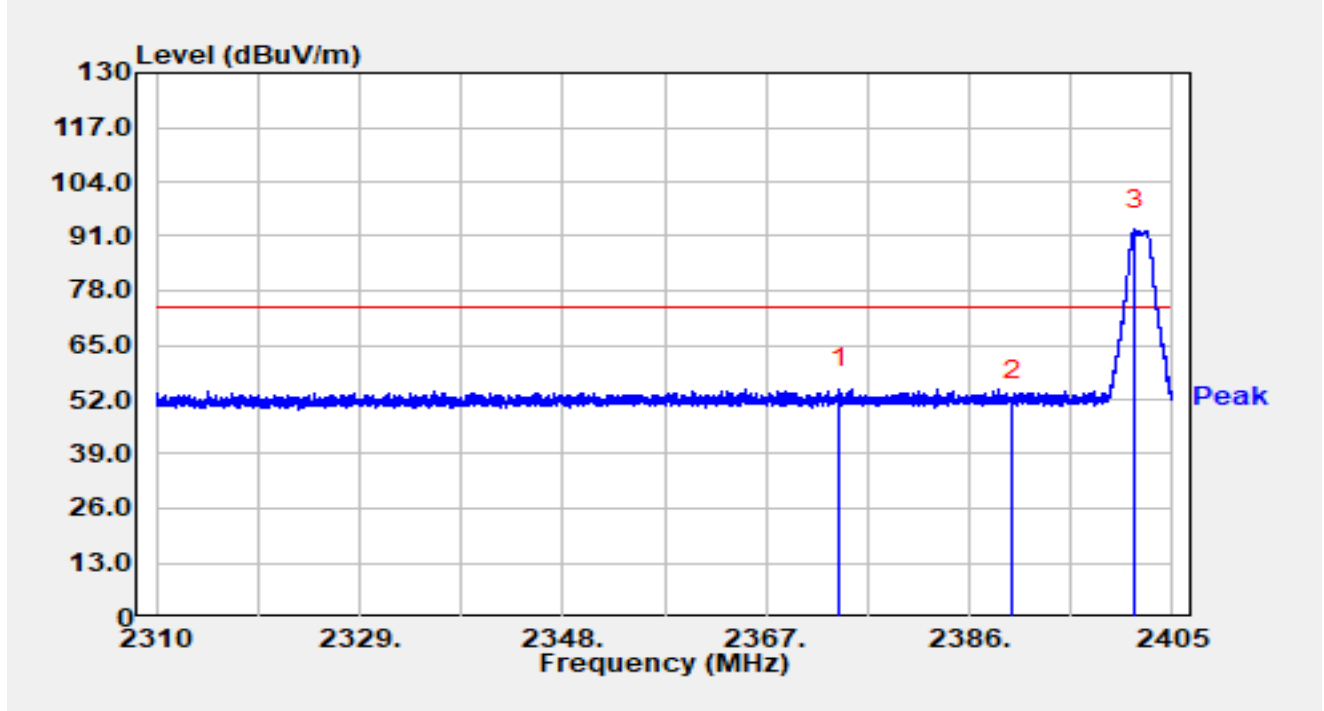


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.061	54.79	29.75	84.55	N/A	N/A	Average
2		2483.500	7.02	29.76	36.78	-17.22	54.00	Average
3	*	2484.208	9.57	29.77	39.34	-14.66	54.00	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

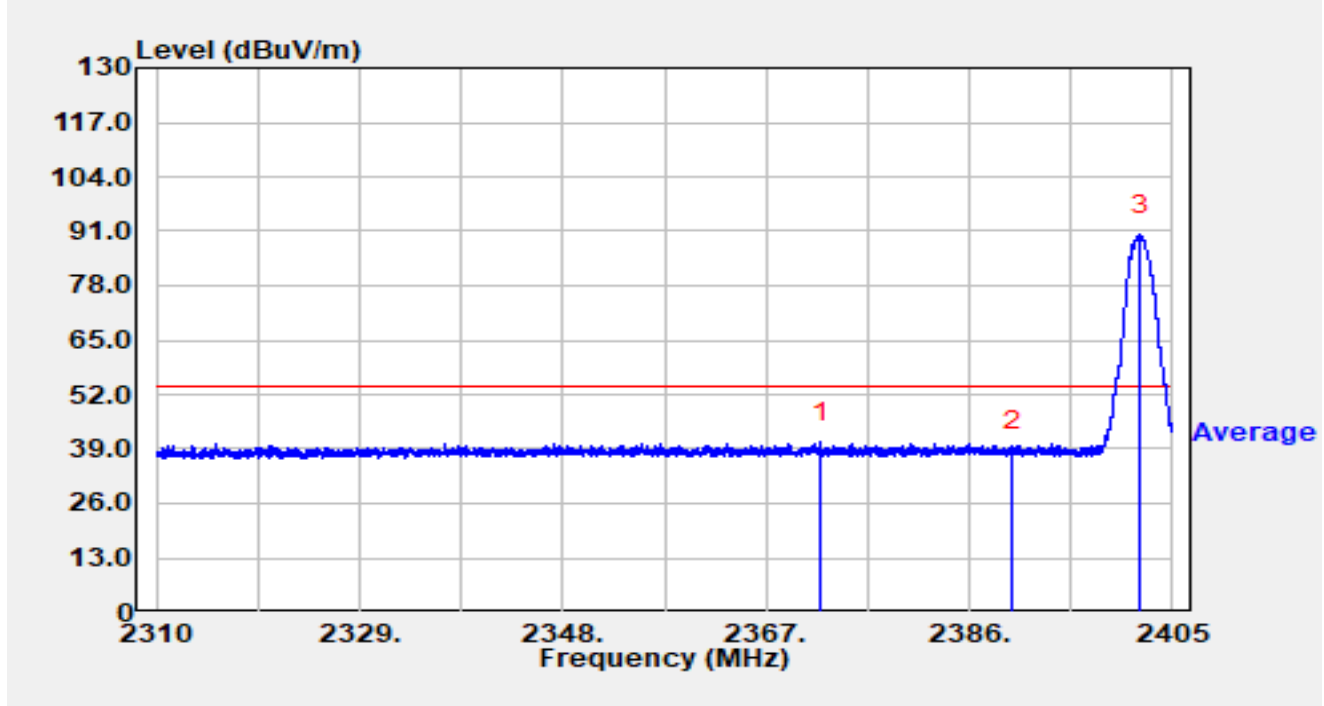


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2373.831	24.96	29.56	54.53	-19.47	74.00	Peak
2		2390.000	22.35	29.59	51.94	-22.06	74.00	Peak
3		2401.476	62.85	29.64	92.49	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

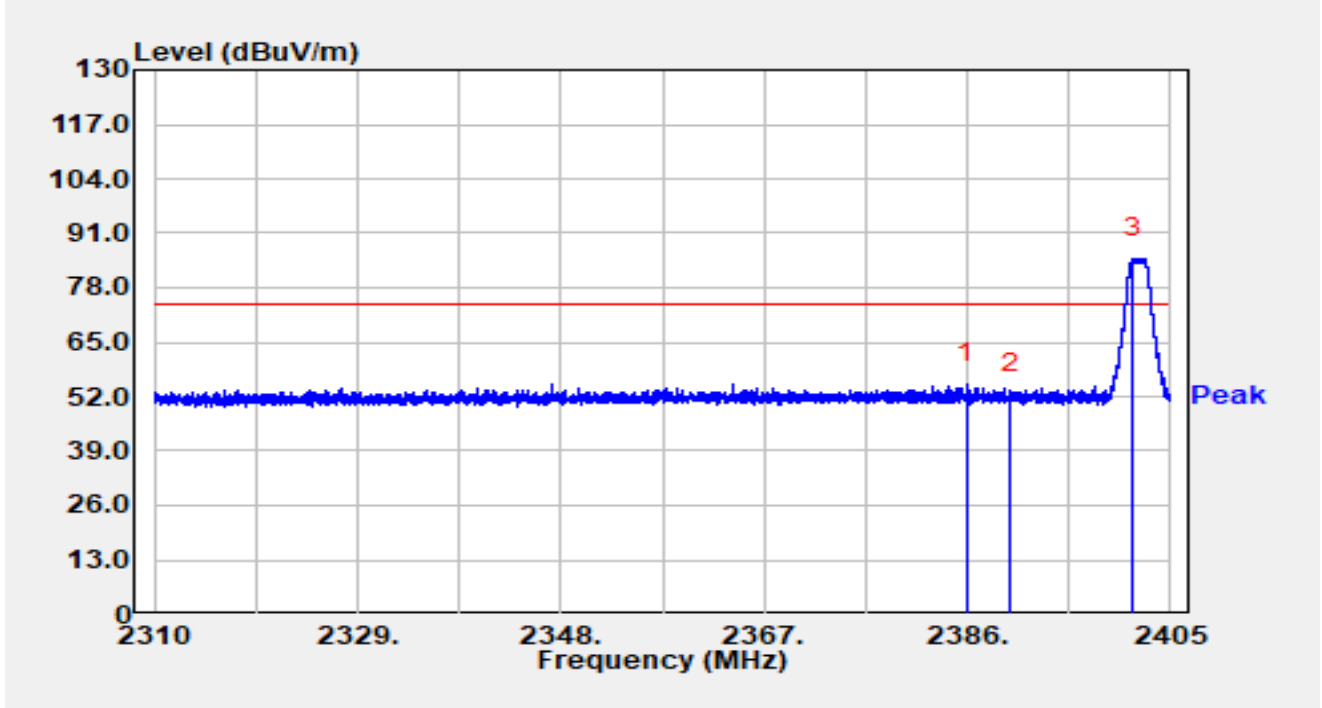


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2372.149	11.03	29.56	40.59	-13.41	54.00	Average
2		2390.000	9.11	29.59	38.70	-15.30	54.00	Average
3		2401.969	60.58	29.64	90.22	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

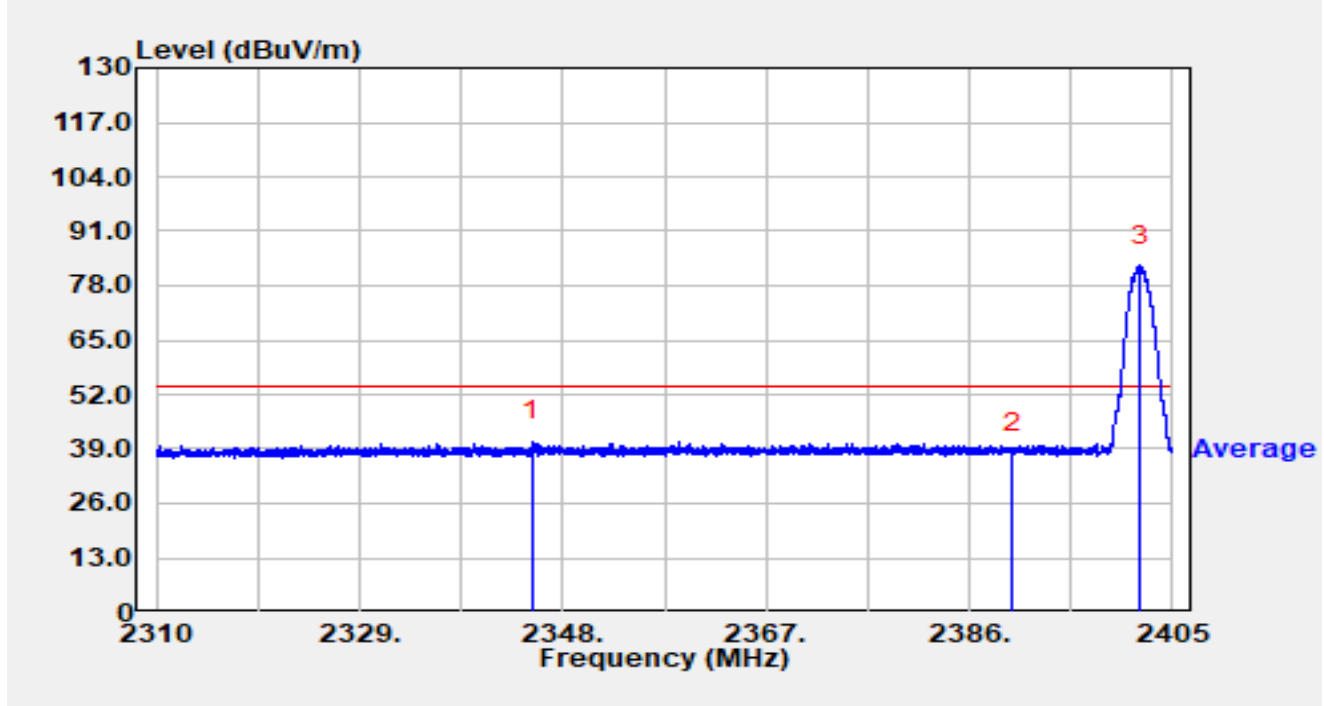


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2385.962	25.53	29.58	55.10	-18.90	74.00	Peak
2		2390.000	23.03	29.59	52.63	-21.37	74.00	Peak
3		2401.476	55.33	29.64	84.96	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

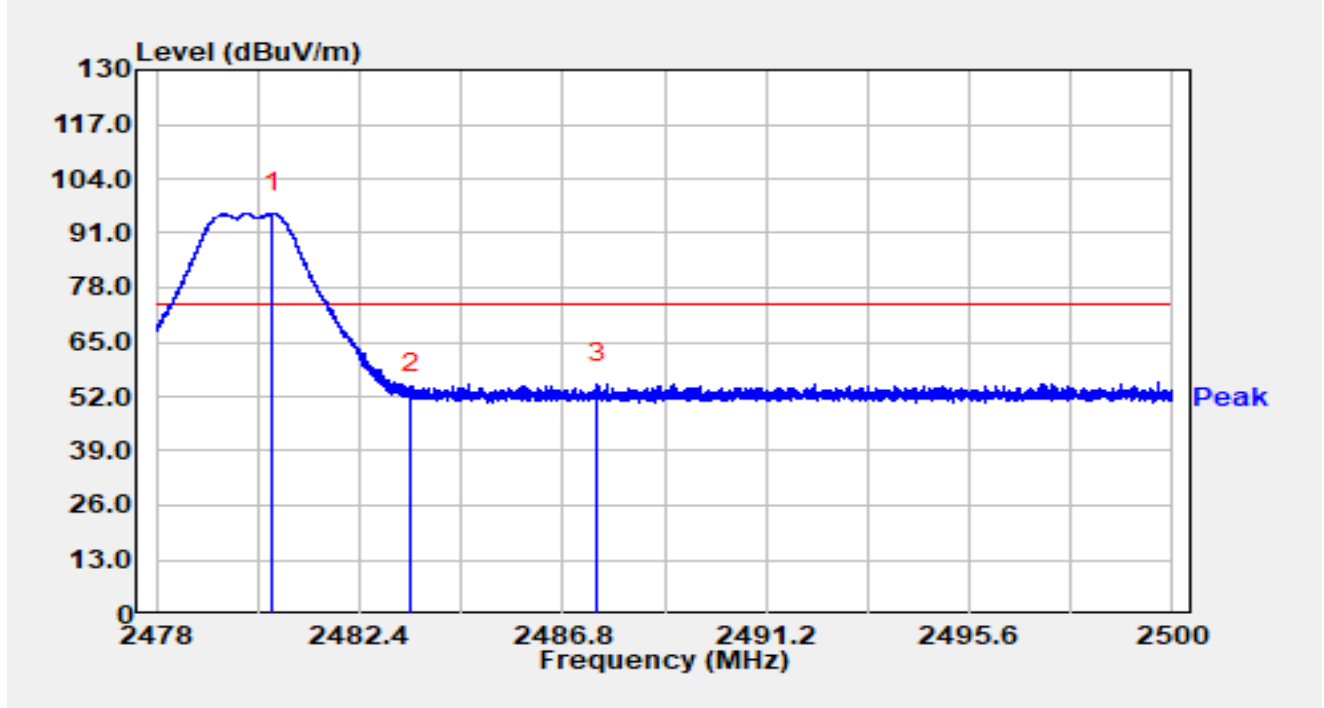


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2345.159	11.35	29.50	40.85	-13.15	54.00	Average
2		2390.000	8.51	29.59	38.10	-15.90	54.00	Average
3		2401.989	53.09	29.64	82.73	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

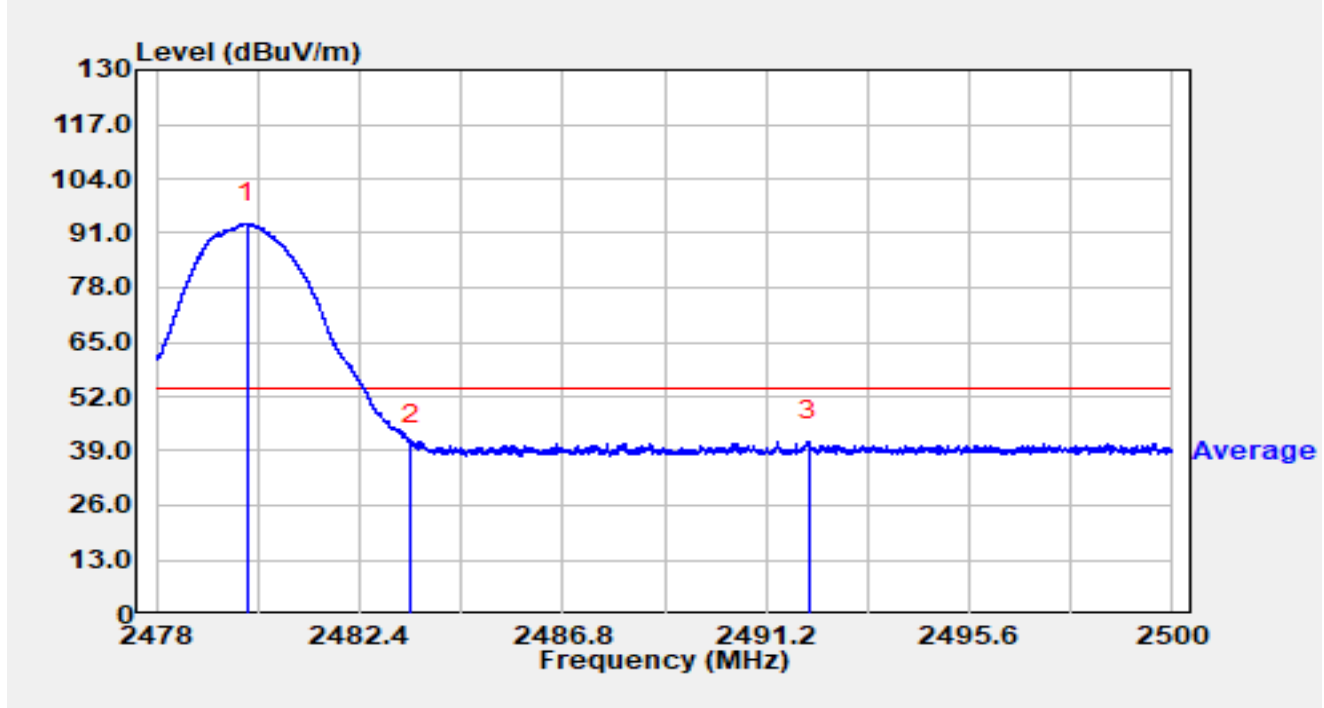


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.512	65.95	29.75	95.71	N/A	N/A	Peak
2		2483.500	23.13	29.76	52.89	-21.11	74.00	Peak
3	*	2487.559	25.39	29.78	55.17	-18.83	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

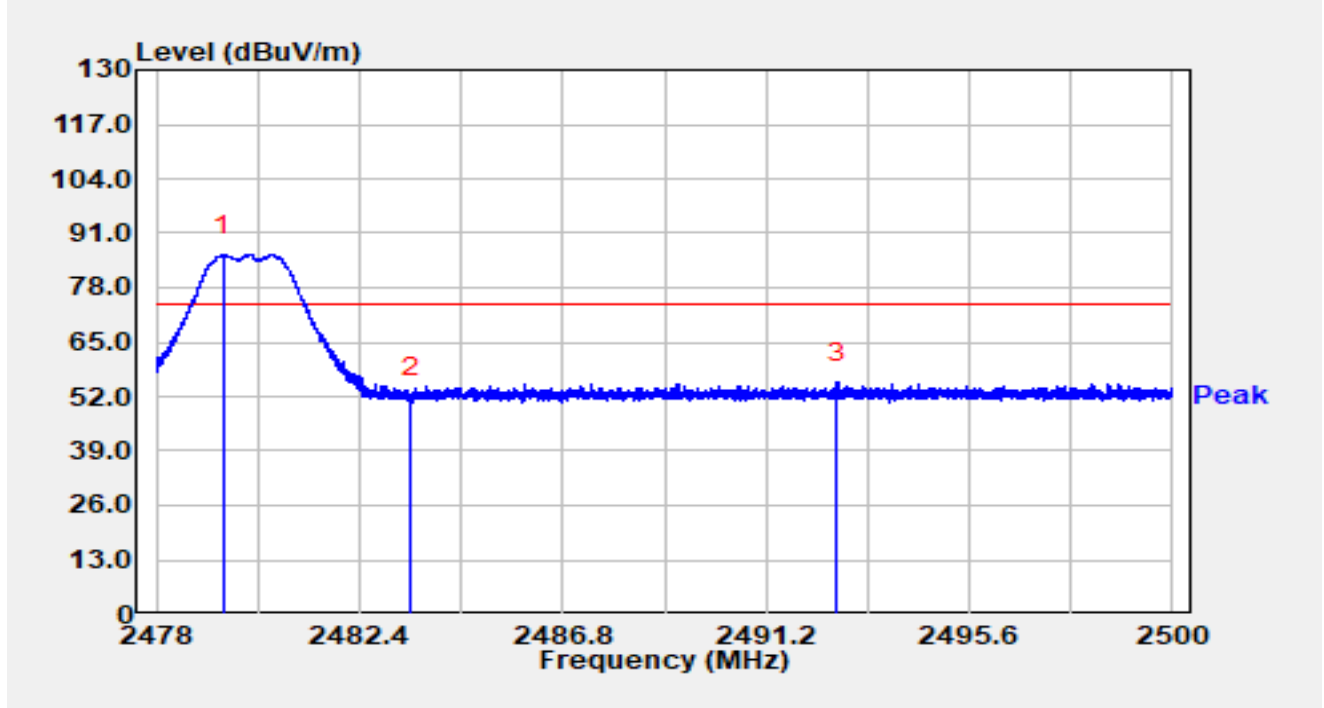


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.956	63.48	29.75	93.23	N/A	N/A	Average
2		2483.500	10.56	29.76	40.32	-13.68	54.00	Average
3	*	2492.113	11.58	29.79	41.37	-12.63	54.00	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

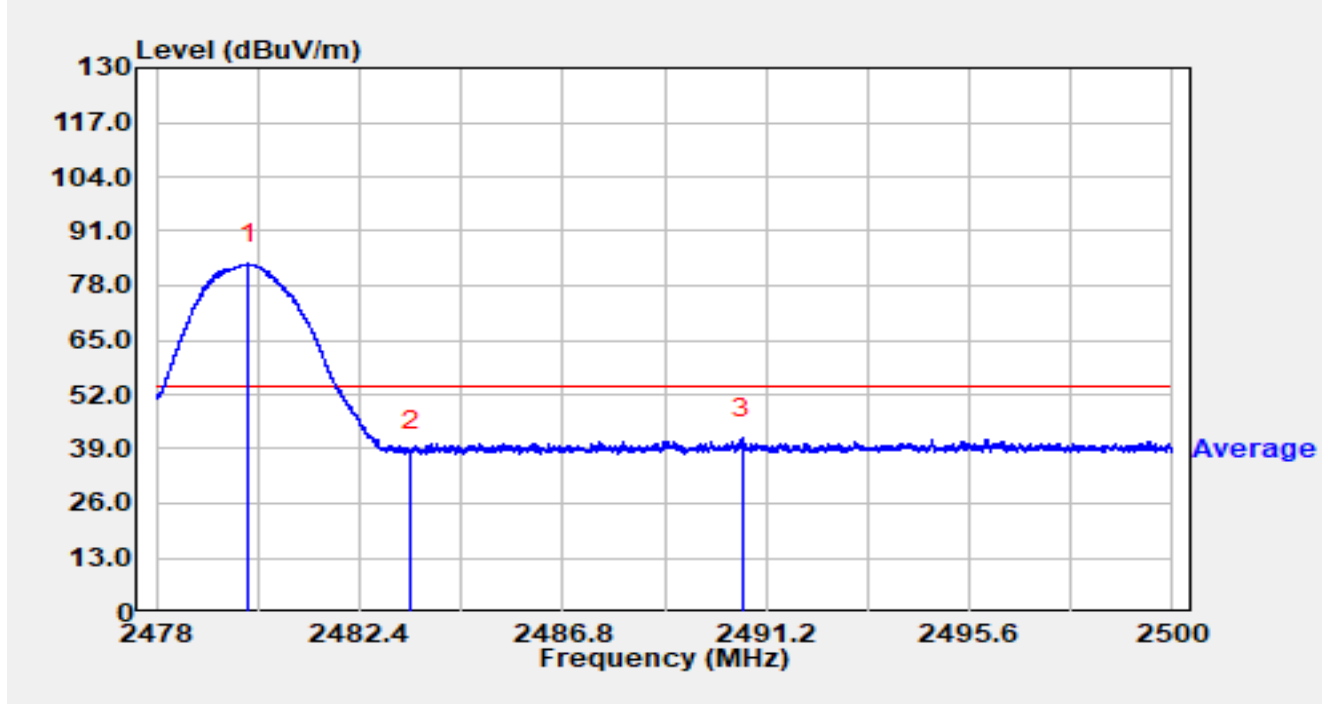


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.445	55.99	29.75	85.74	N/A	N/A	Peak
2		2483.500	22.01	29.76	51.77	-22.23	74.00	Peak
3	*	2492.744	25.59	29.79	55.38	-18.62	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		



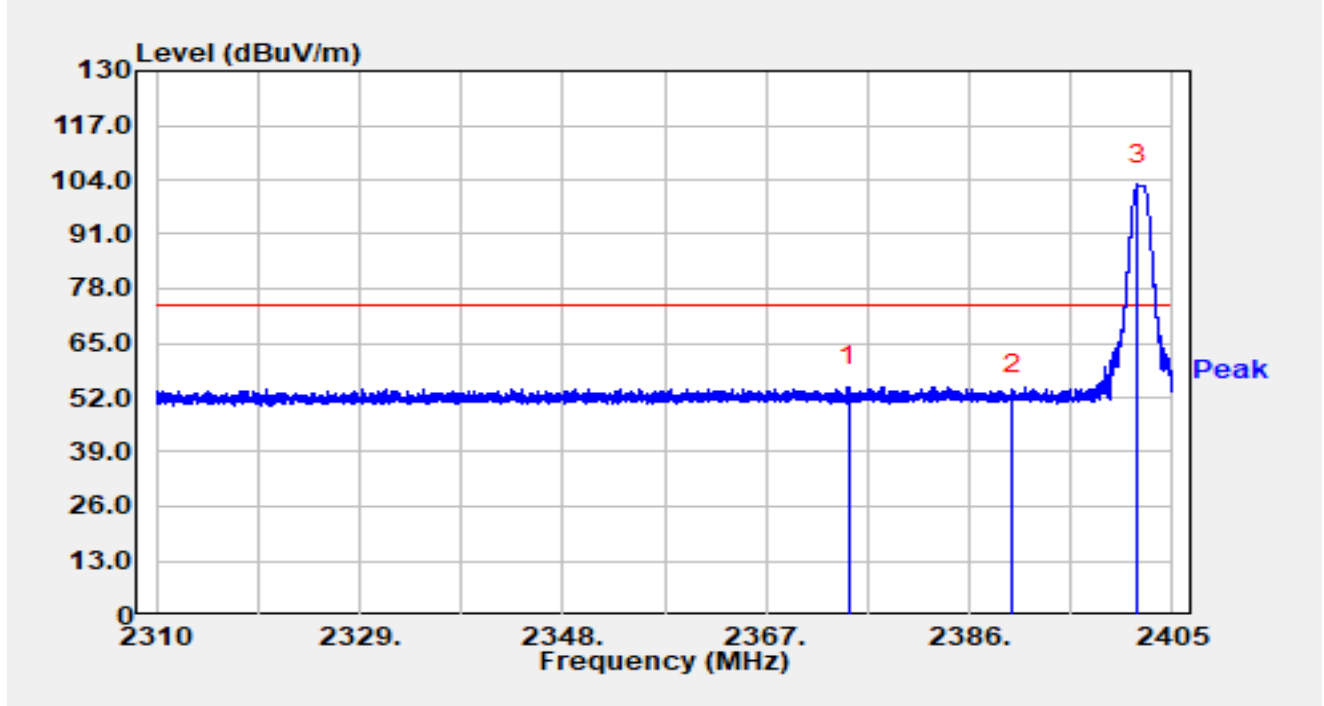
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.991	53.54	29.75	83.29	N/A	N/A	Average
2		2483.500	8.78	29.76	38.55	-15.45	54.00	Average
3	*	2490.696	11.70	29.79	41.49	-12.51	54.00	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Antenna #3

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

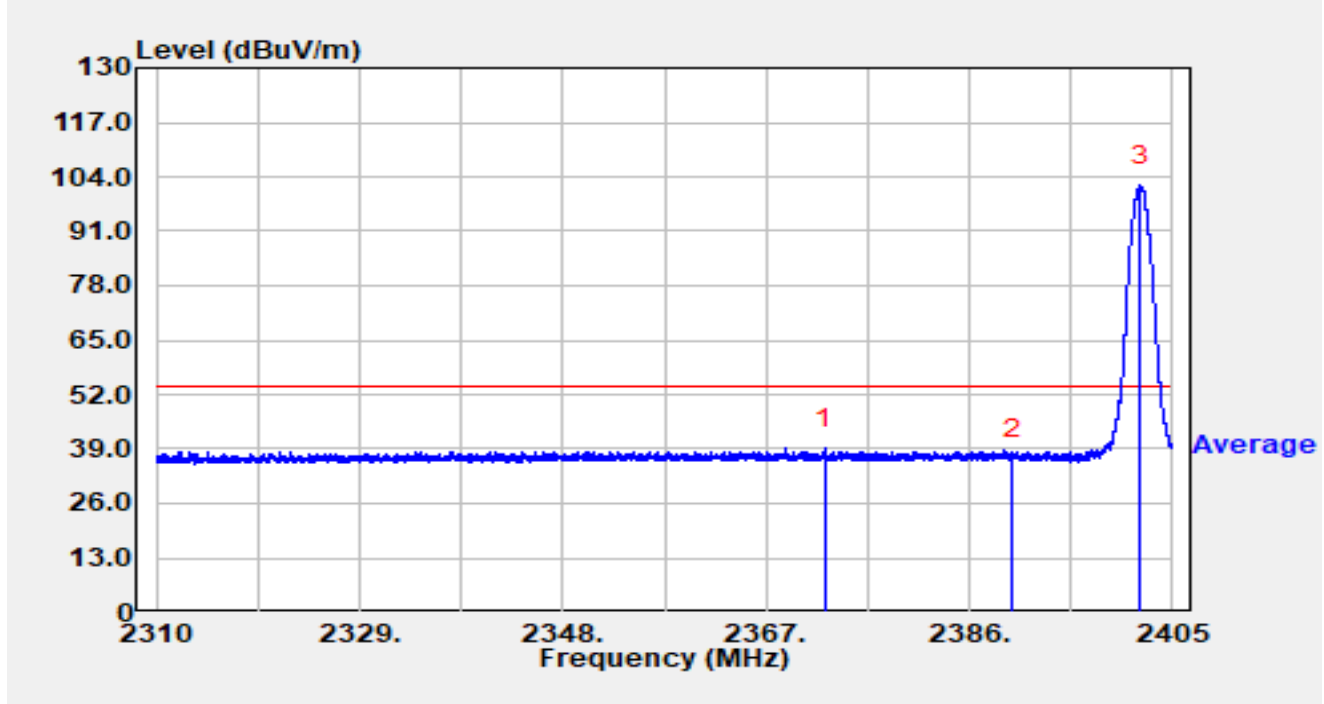


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2374.676	25.09	29.56	54.65	-19.35	74.00	Peak
2		2390.000	22.97	29.59	52.56	-21.44	74.00	Peak
3		2401.751	73.14	29.64	102.78	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

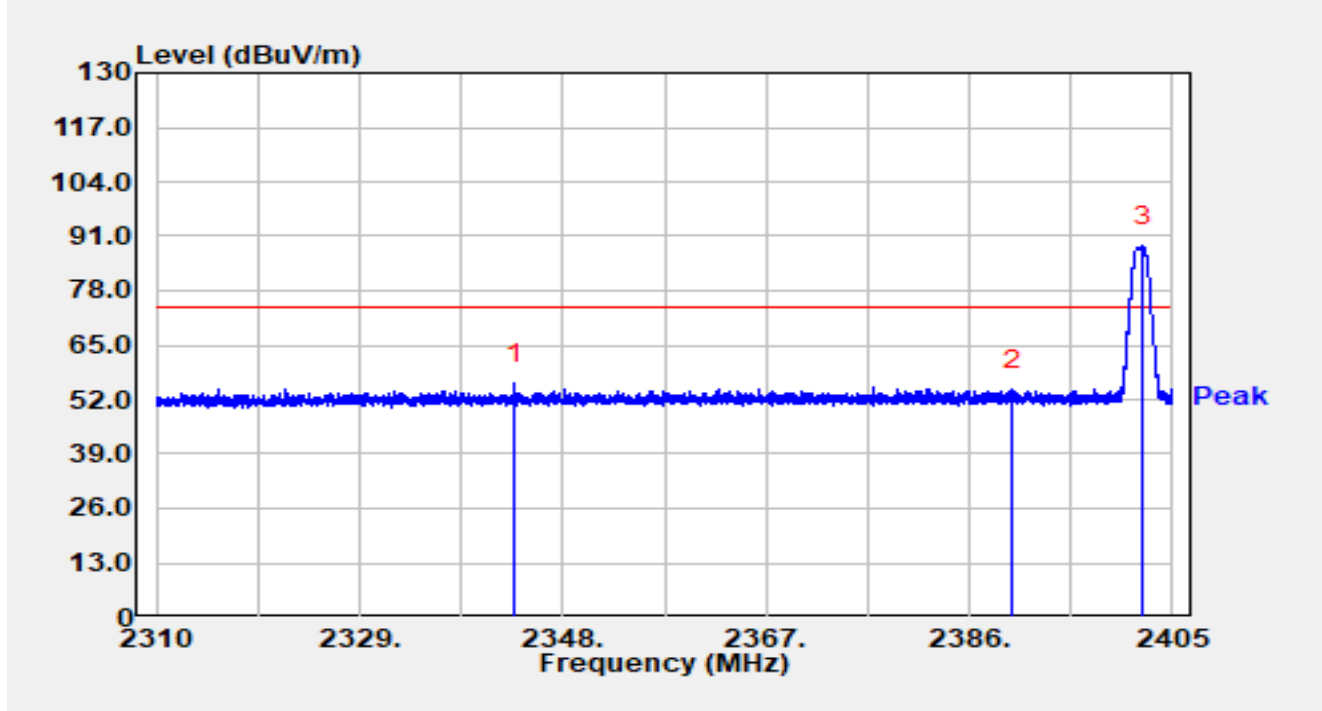


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2372.472	9.53	29.56	39.10	-14.90	54.00	Average
2		2390.000	7.08	29.59	36.67	-17.33	54.00	Average
3		2402.008	72.37	29.64	102.01	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

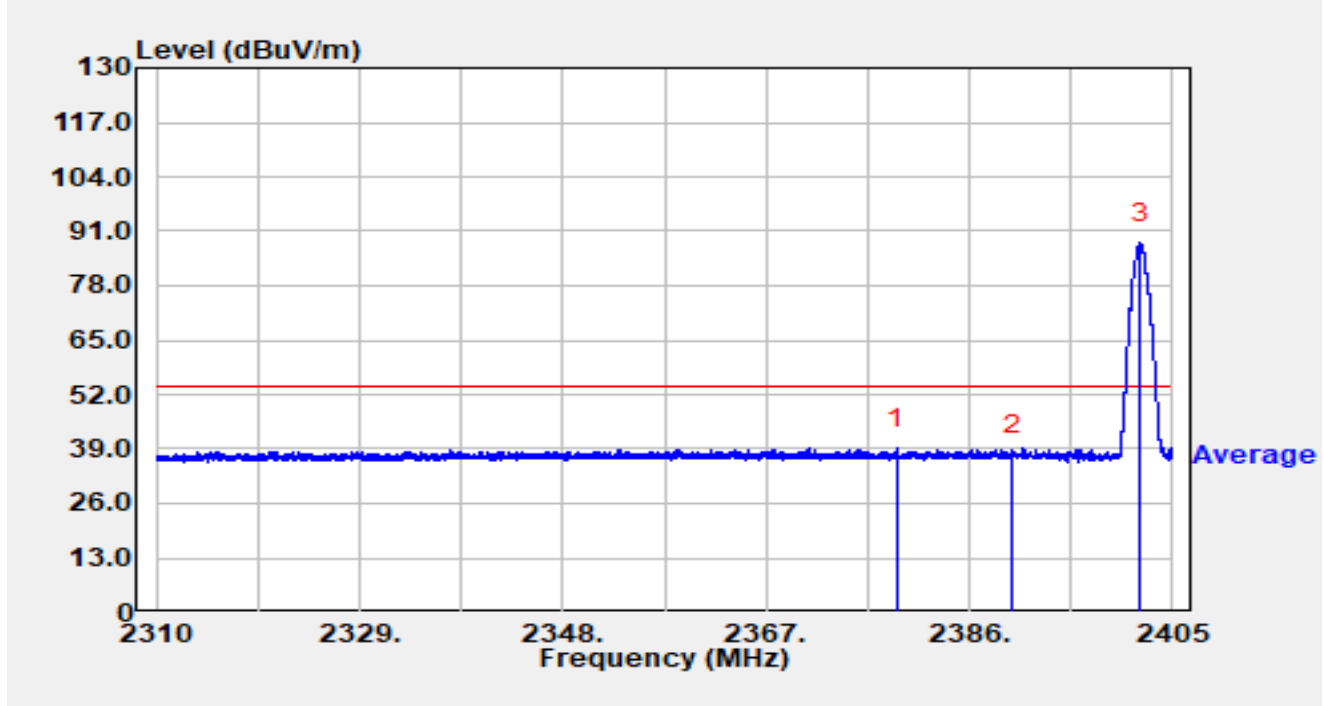


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2343.469	26.22	29.50	55.72	-18.28	74.00	Peak
2		2390.000	24.58	29.59	54.17	-19.83	74.00	Peak
3		2402.226	58.93	29.64	88.57	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

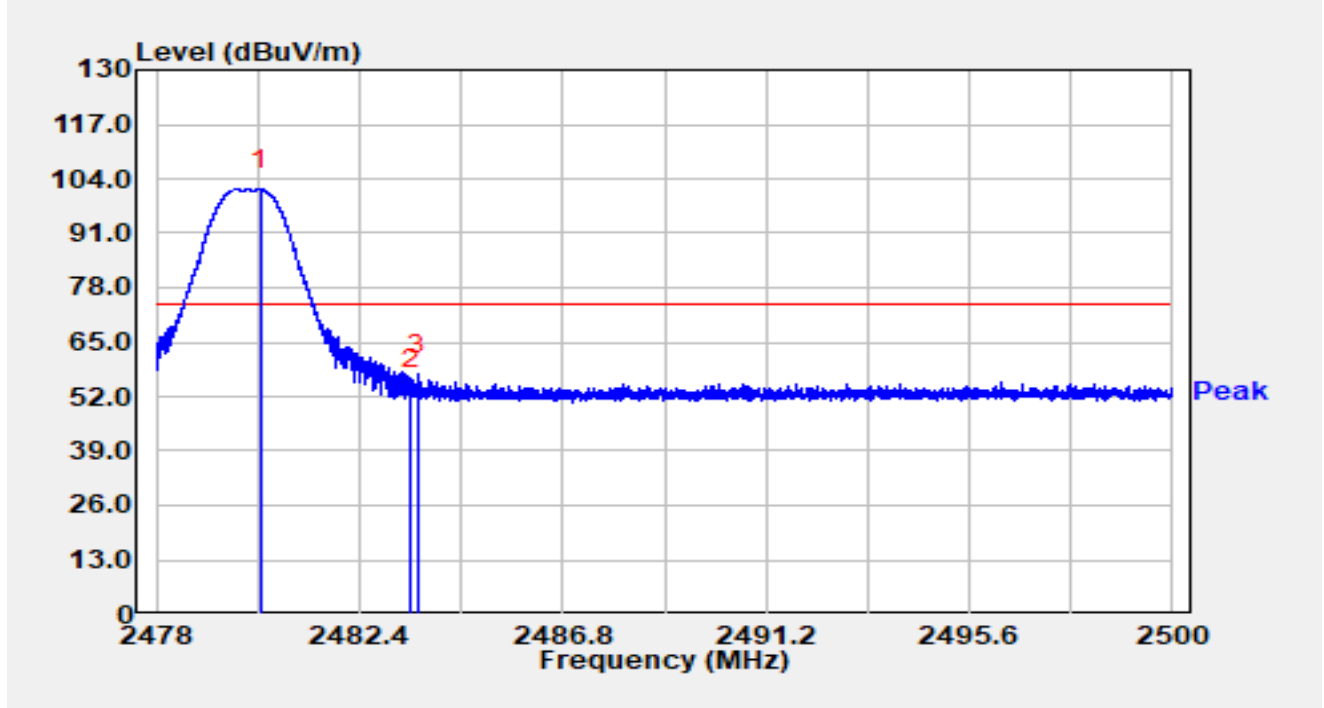


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2379.198	9.57	29.57	39.13	-14.87	54.00	Average
2		2390.000	7.81	29.59	37.40	-16.60	54.00	Average
3		2402.027	58.42	29.64	88.06	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

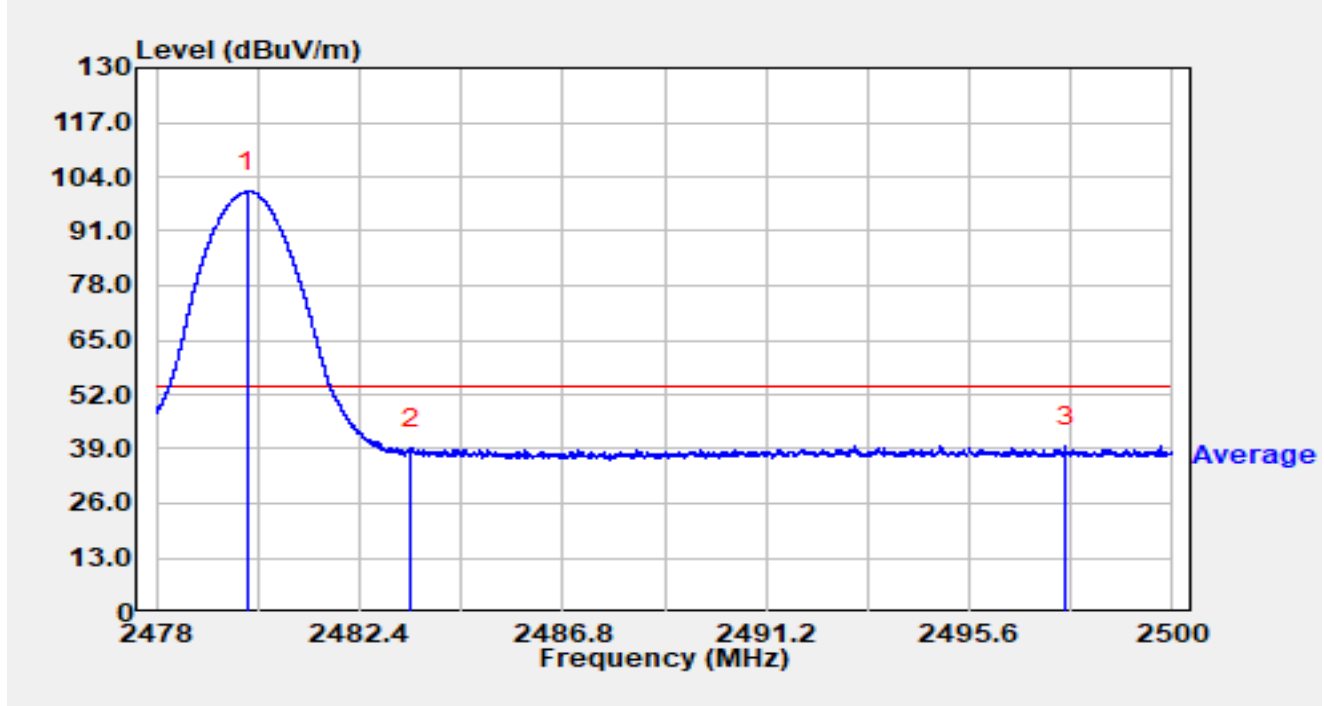


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.240	71.69	29.75	101.44	N/A	N/A	Peak
2		2483.500	24.09	29.76	53.85	-20.15	74.00	Peak
3	*	2483.667	27.45	29.76	57.21	-16.79	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

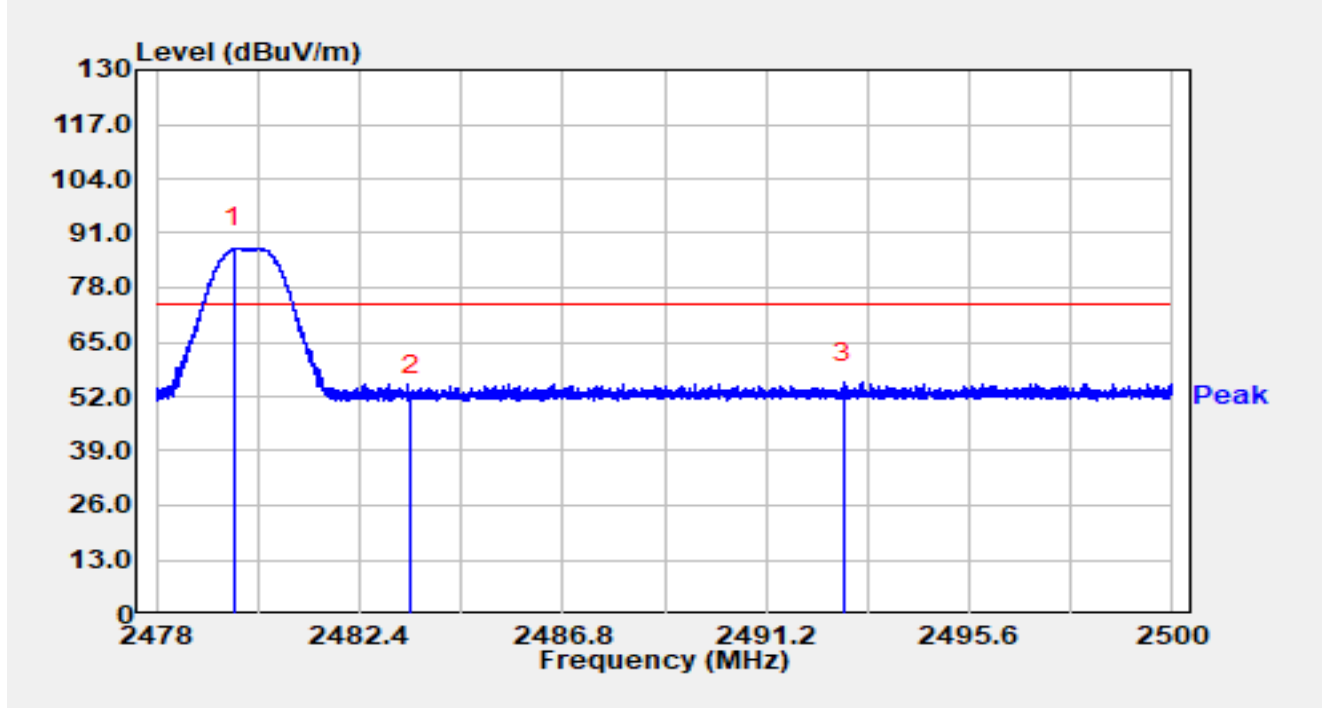


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.980	70.74	29.75	100.49	N/A	N/A	Average
2		2483.500	9.47	29.76	39.23	-14.77	54.00	Average
3	*	2497.679	9.77	29.79	39.55	-14.45	54.00	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

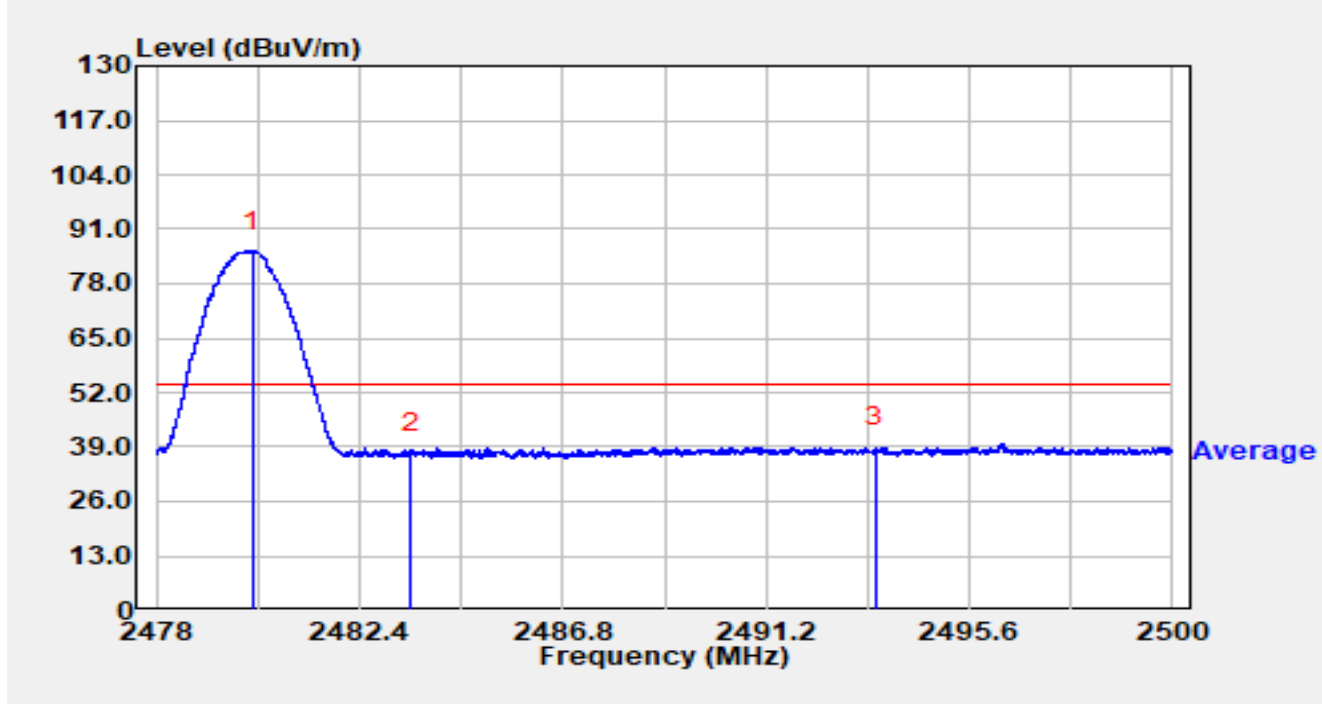


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.690	57.64	29.75	87.39	N/A	N/A	Peak
2		2483.500	22.31	29.76	52.08	-21.92	74.00	Peak
3	*	2492.868	25.60	29.79	55.39	-18.61	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

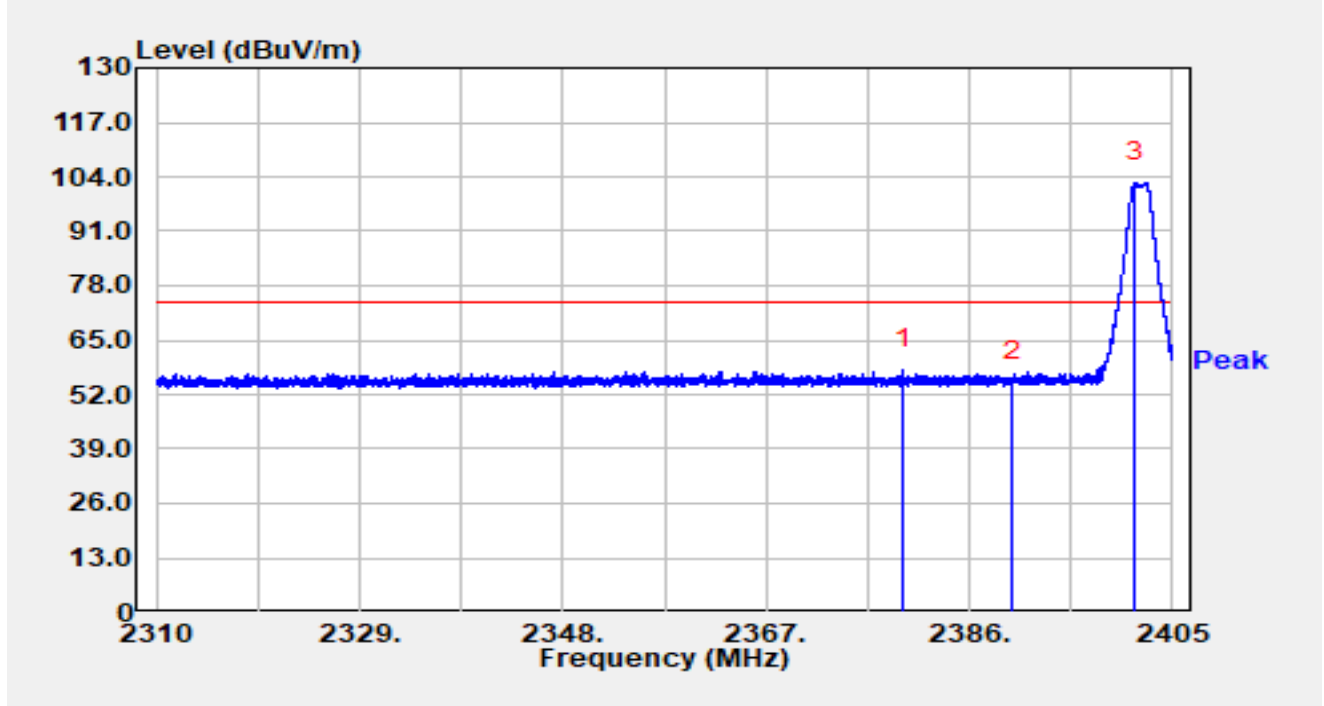


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.094	56.04	29.75	85.79	N/A	N/A	Average
2		2483.500	7.53	29.76	37.30	-16.70	54.00	Average
3	*	2493.565	9.14	29.79	38.94	-15.06	54.00	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

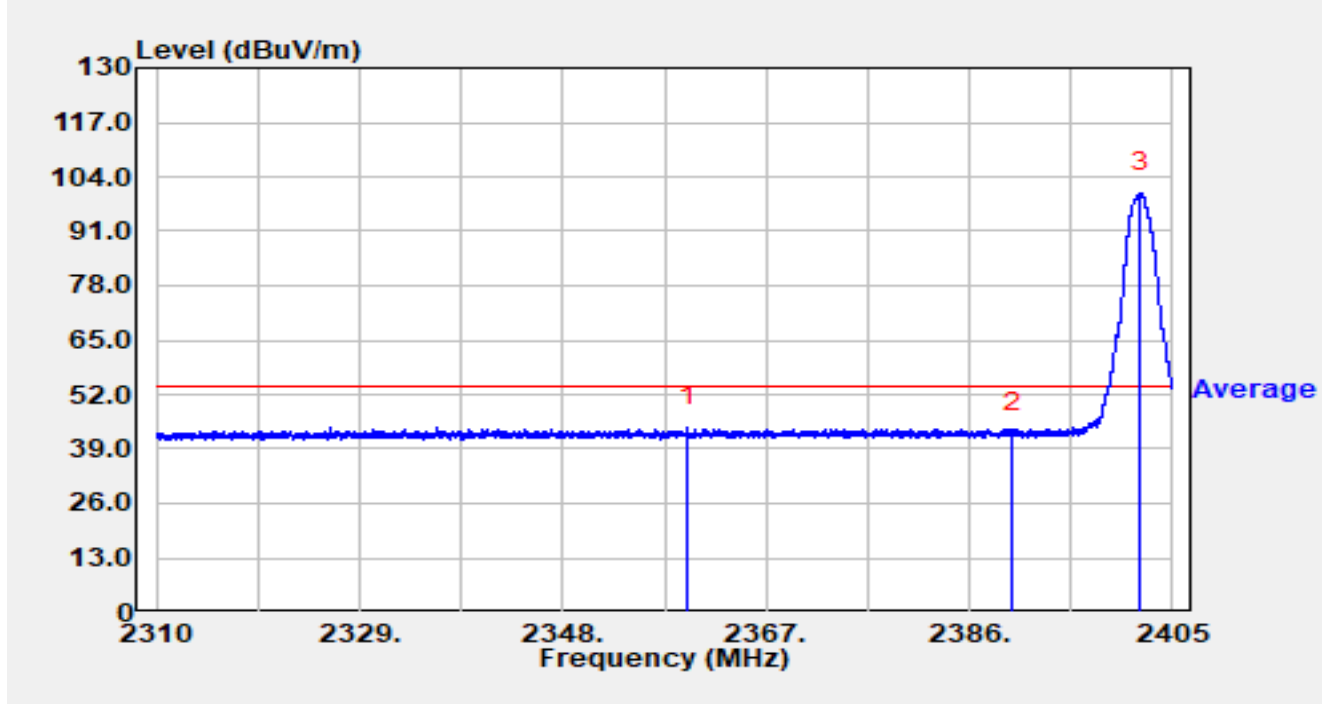


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2379.834	28.53	29.57	58.09	-15.91	74.00	Peak
2		2390.000	25.74	29.59	55.34	-18.66	74.00	Peak
3		2401.476	72.93	29.64	102.56	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

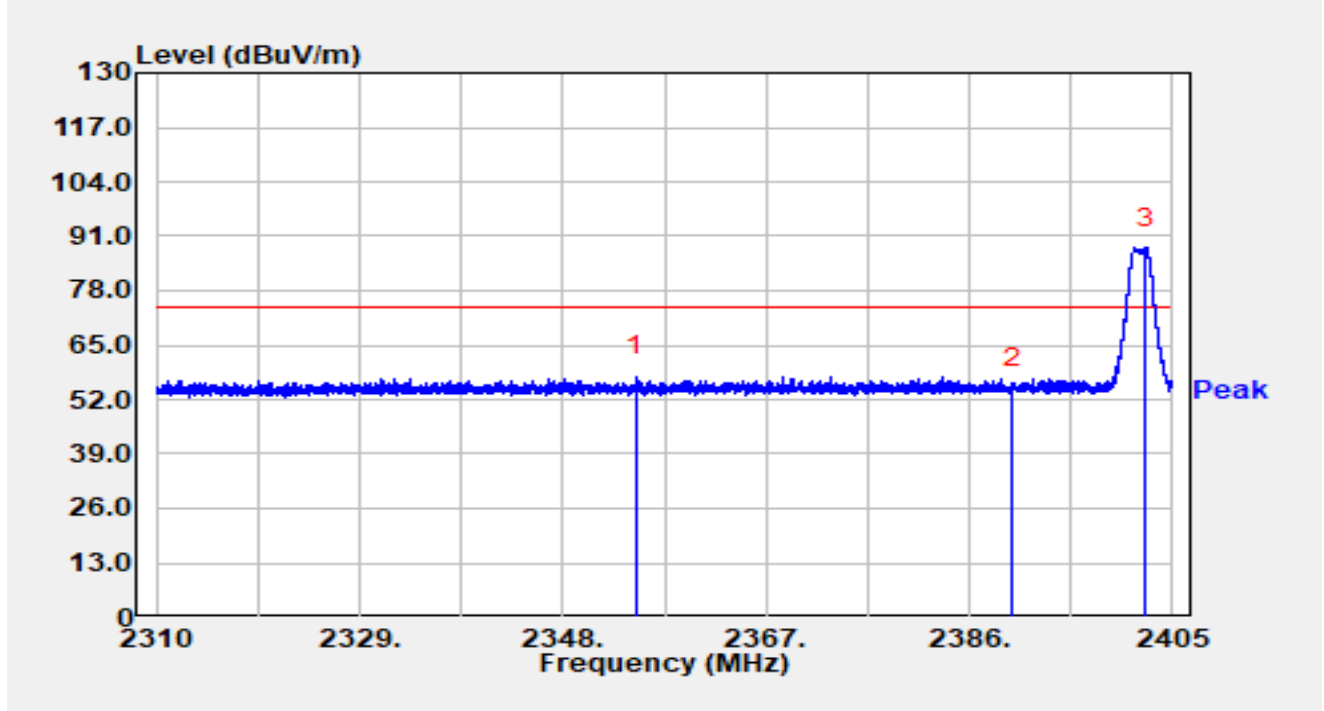


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2359.637	14.79	29.54	44.33	-9.67	54.00	Average
2		2390.000	13.32	29.59	42.91	-11.09	54.00	Average
3		2402.045	70.61	29.64	100.25	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

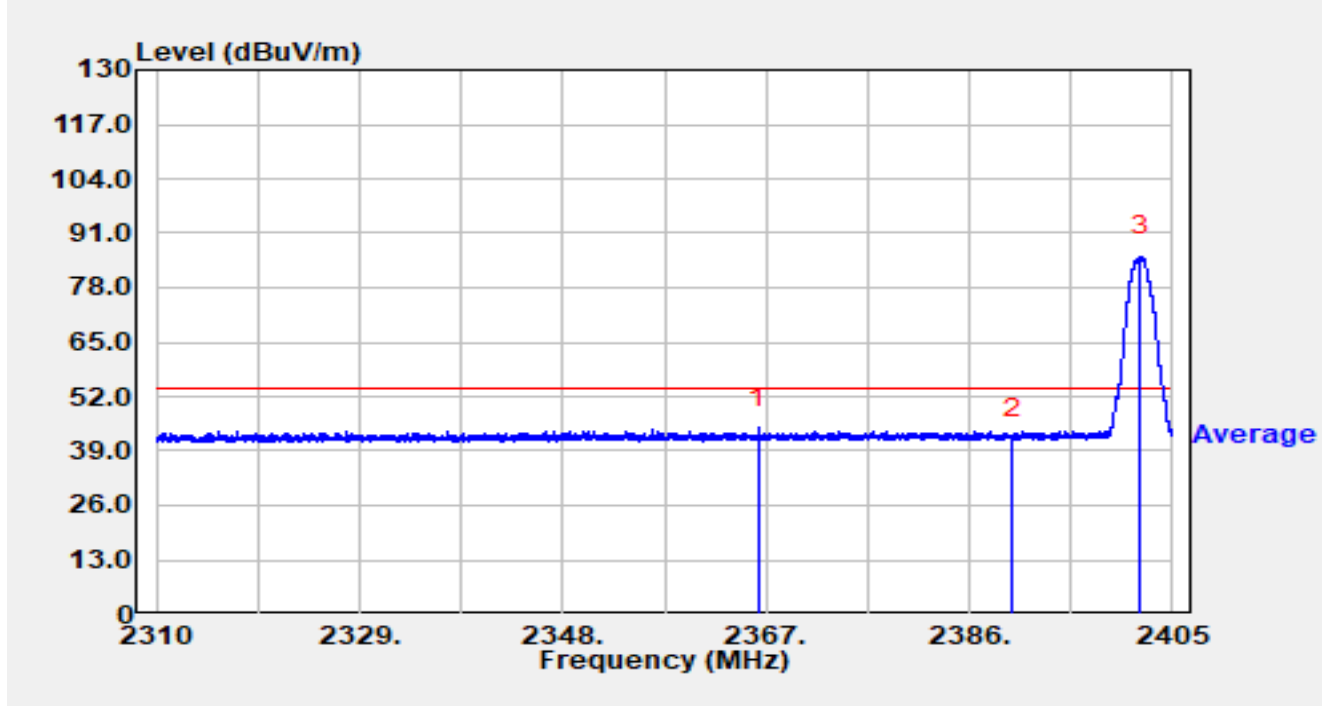


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2354.821	27.92	29.53	57.45	-16.55	74.00	Peak
2		2390.000	25.35	29.59	54.94	-19.06	74.00	Peak
3		2402.530	58.64	29.64	88.28	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

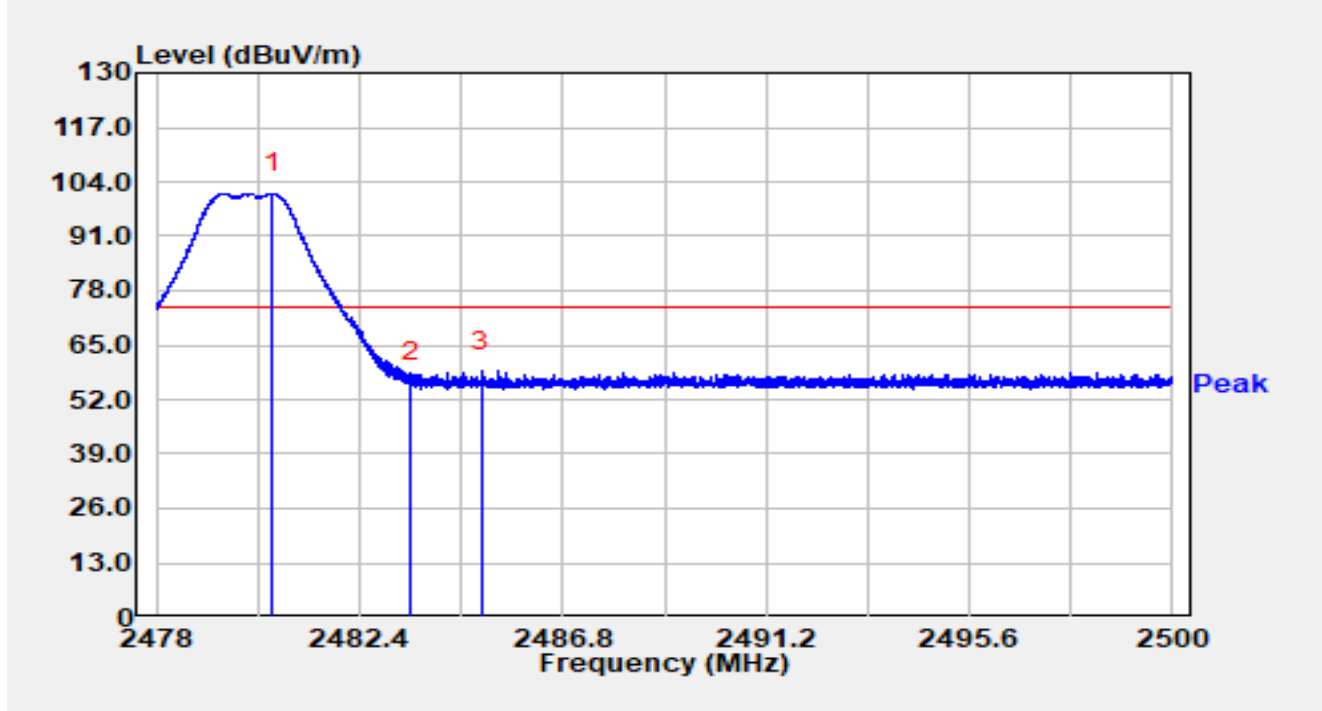


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2366.250	14.95	29.56	44.51	-9.49	54.00	Average
2		2390.000	12.53	29.59	42.12	-11.88	54.00	Average
3		2401.941	55.91	29.64	85.55	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

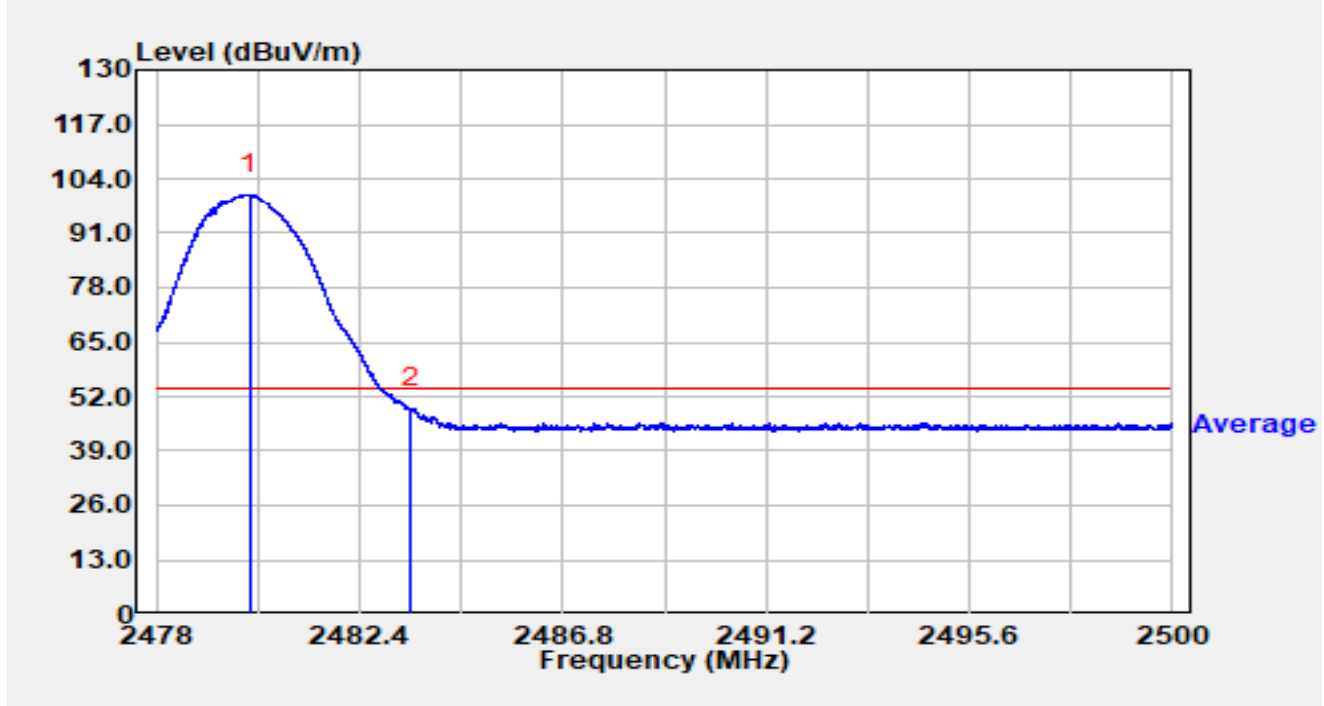


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.504	71.42	29.75	101.17	N/A	N/A	Peak
2		2483.500	26.41	29.76	56.17	-17.83	74.00	Peak
3	*	2485.051	29.08	29.77	58.85	-15.15	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

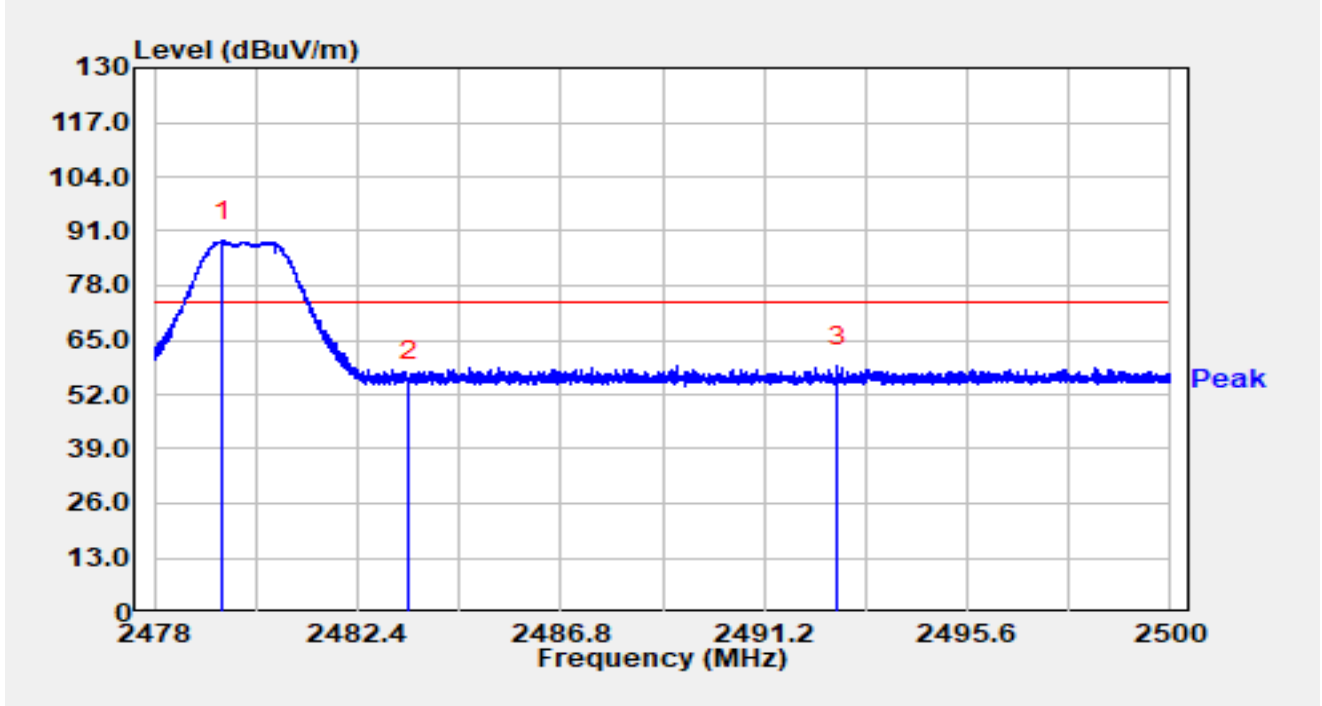


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.028	70.38	29.75	100.13	N/A	N/A	Average
2	*	2483.500	19.32	29.76	49.08	-4.92	54.00	Average

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

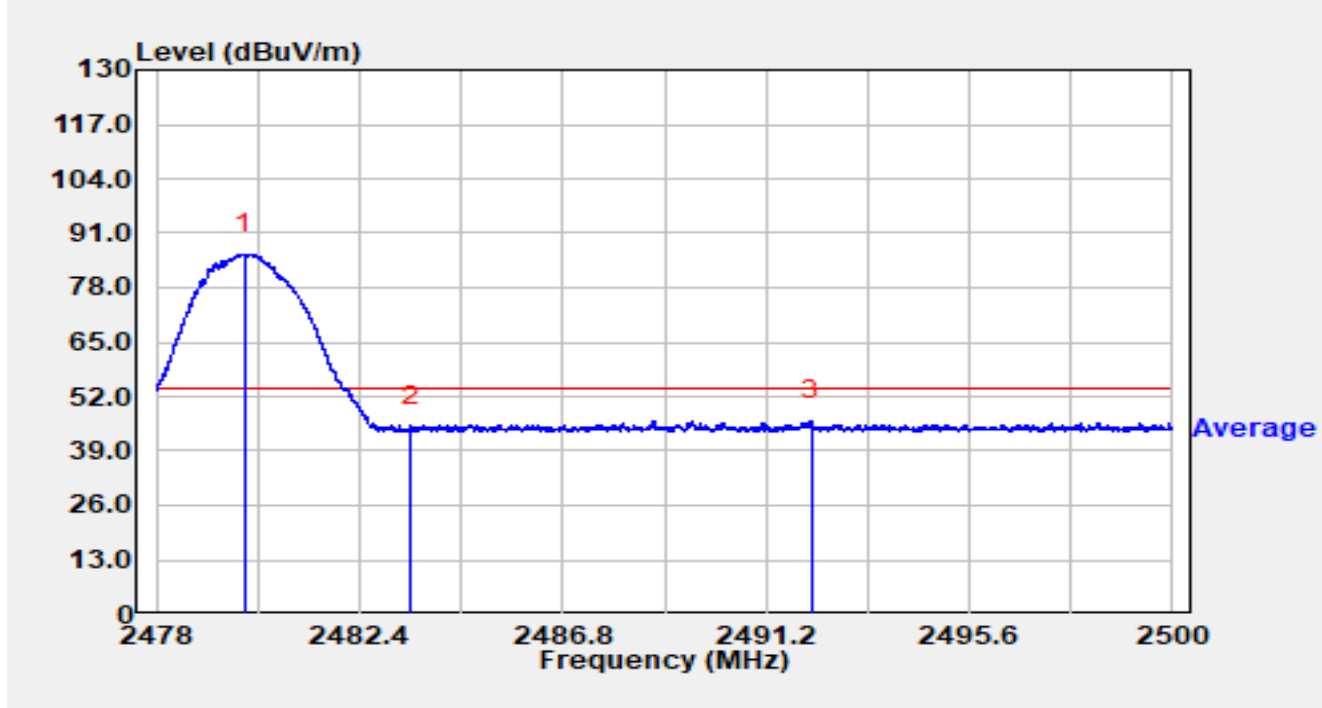


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.487	58.84	29.75	88.59	N/A	N/A	Peak
2		2483.500	25.31	29.76	55.07	-18.93	74.00	Peak
3	*	2492.775	28.87	29.79	58.67	-15.33	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-29
Temperature	19.6 °C	Humidity	41.3 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		



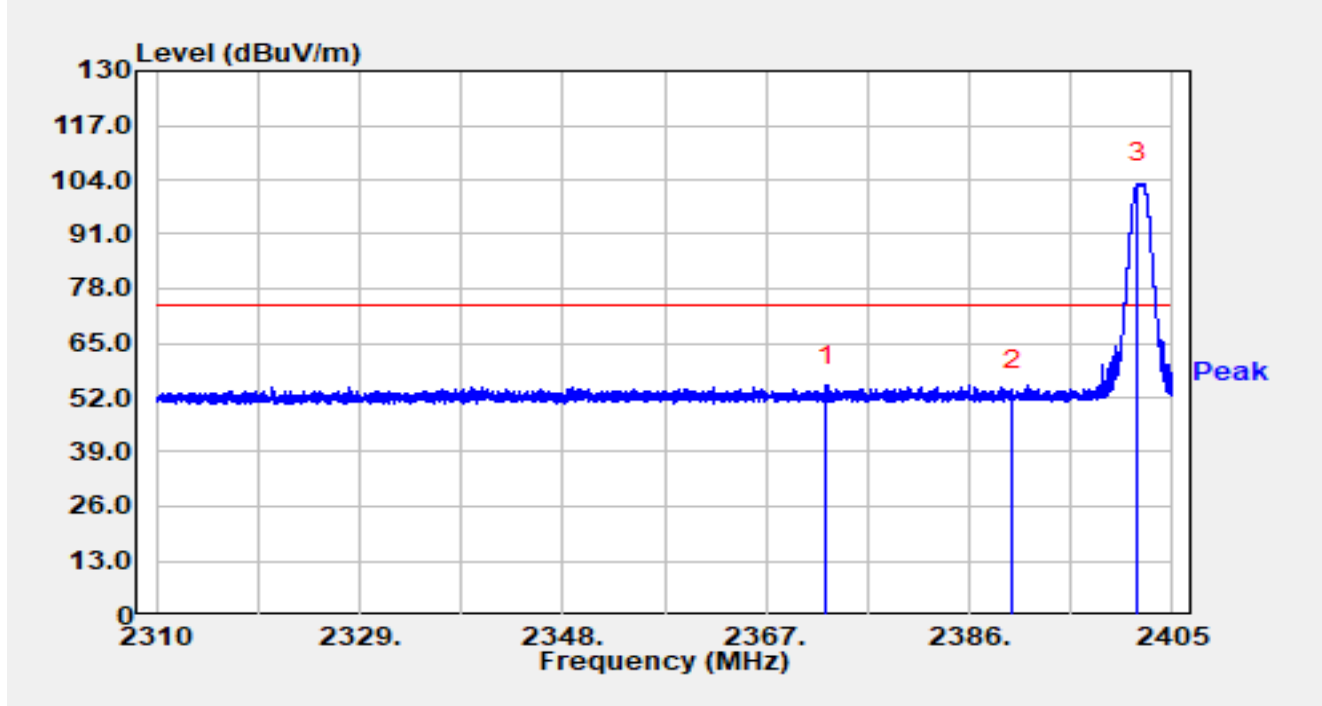
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.918	56.19	29.75	85.94	N/A	N/A	Average
2		2483.500	15.05	29.76	44.81	-9.19	54.00	Average
3	*	2492.170	16.41	29.79	46.20	-7.80	54.00	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Antenna #4

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

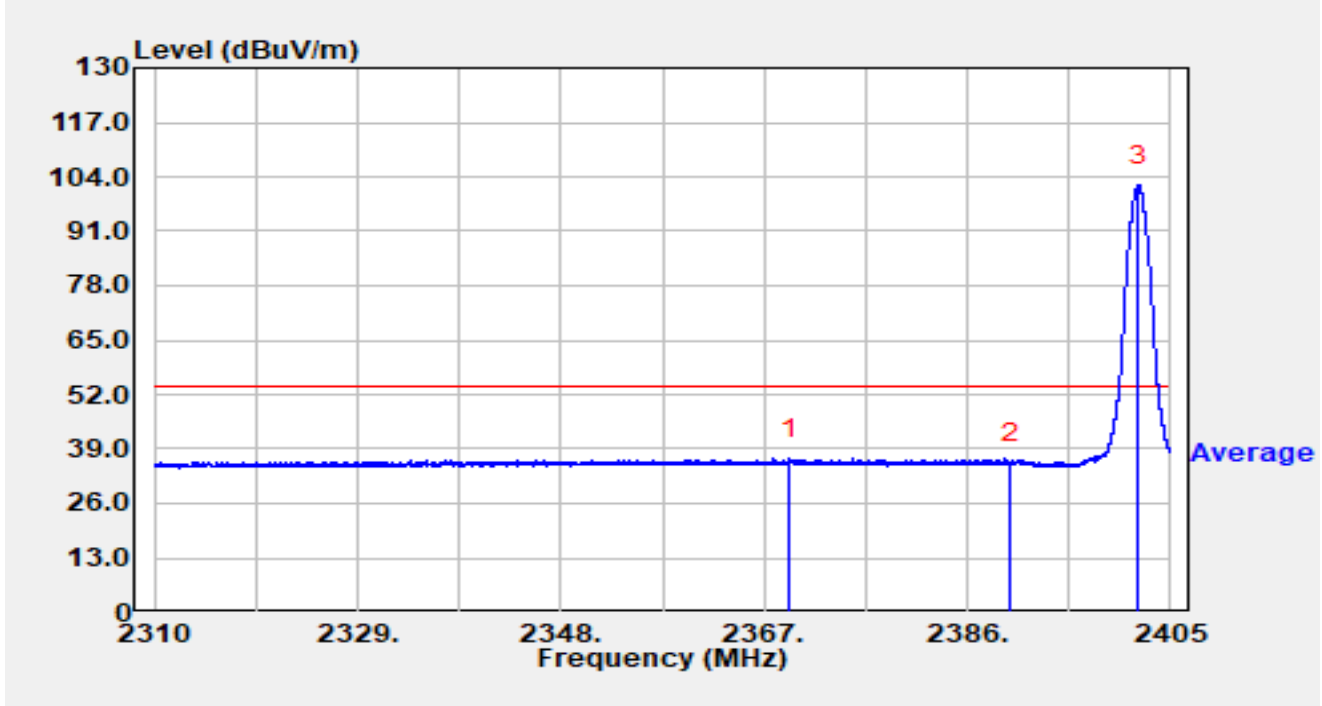


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2372.671	25.30	29.56	54.87	-19.13	74.00	Peak
2		2390.000	23.90	29.59	53.49	-20.51	74.00	Peak
3		2401.722	73.44	29.64	103.07	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

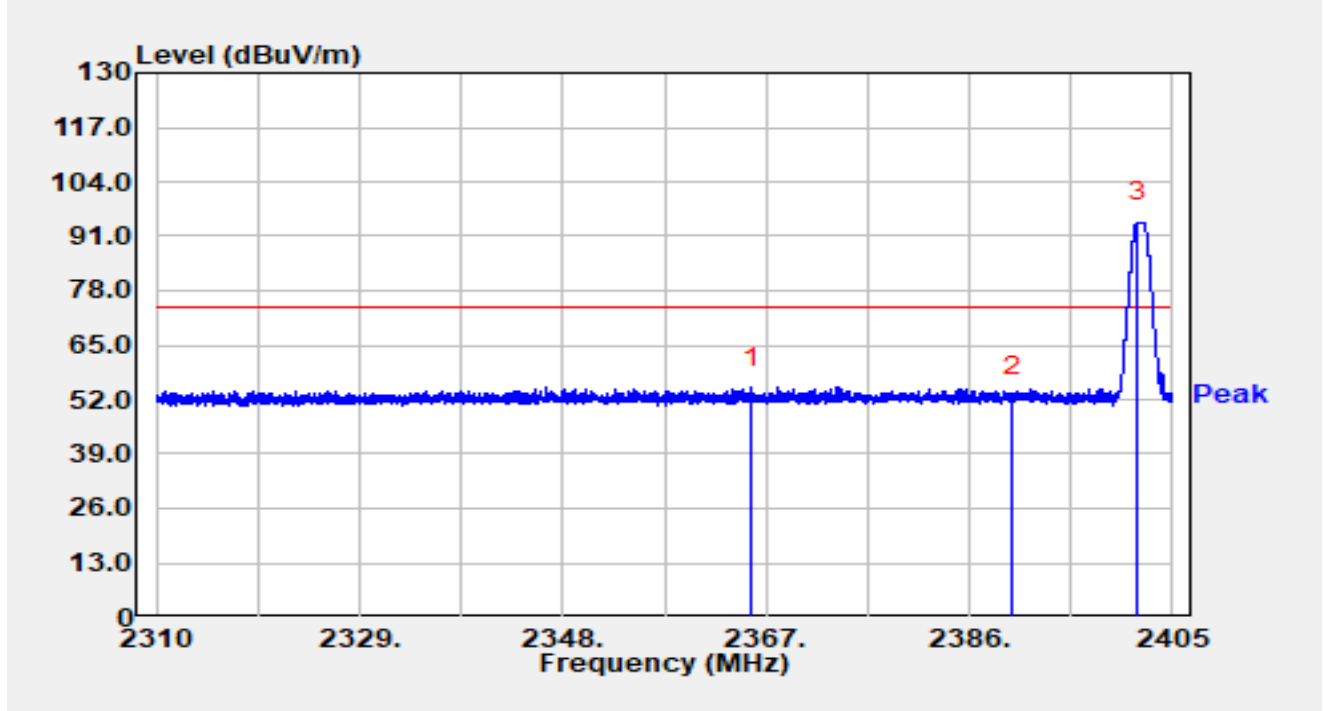


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2369.413	7.13	29.56	36.69	-17.31	54.00	Average
2		2390.000	6.16	29.59	35.76	-18.24	54.00	Average
3		2401.989	72.23	29.64	101.87	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

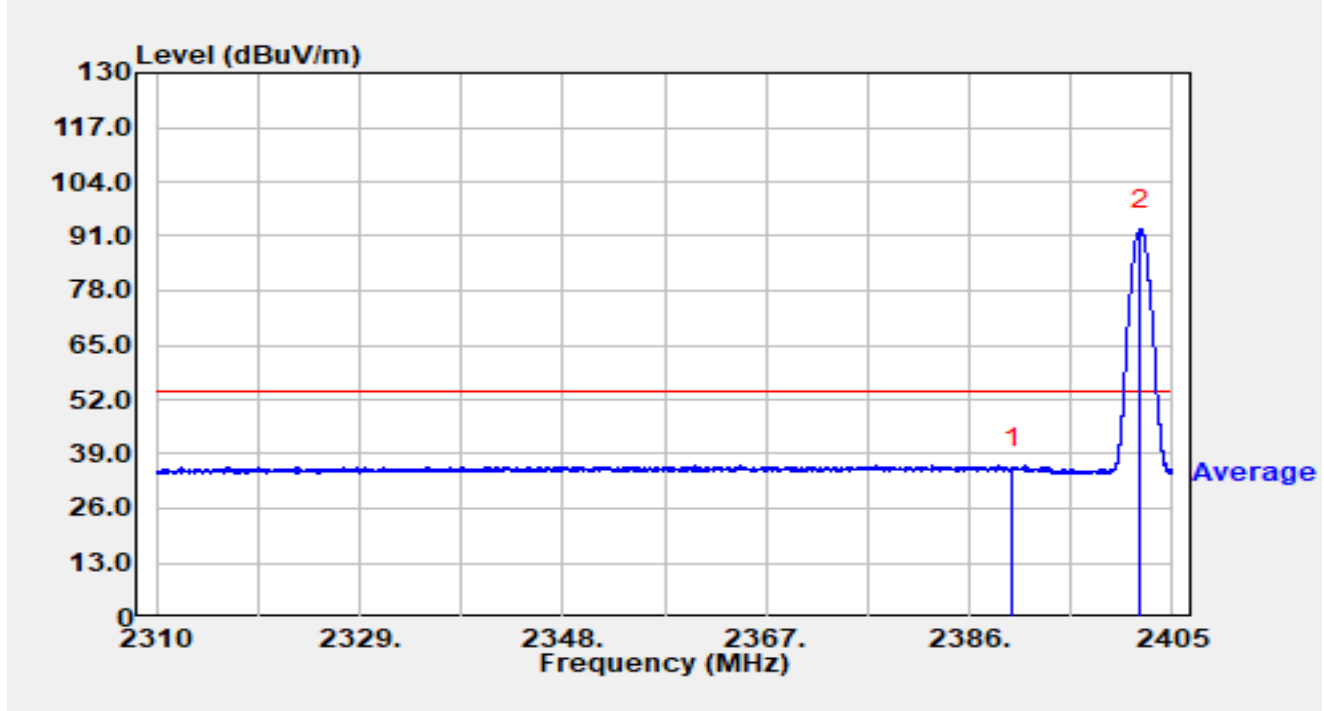


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2365.613	25.28	29.56	54.84	-19.16	74.00	Peak
2		2390.000	22.94	29.59	52.53	-21.47	74.00	Peak
3		2401.741	64.67	29.64	94.31	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

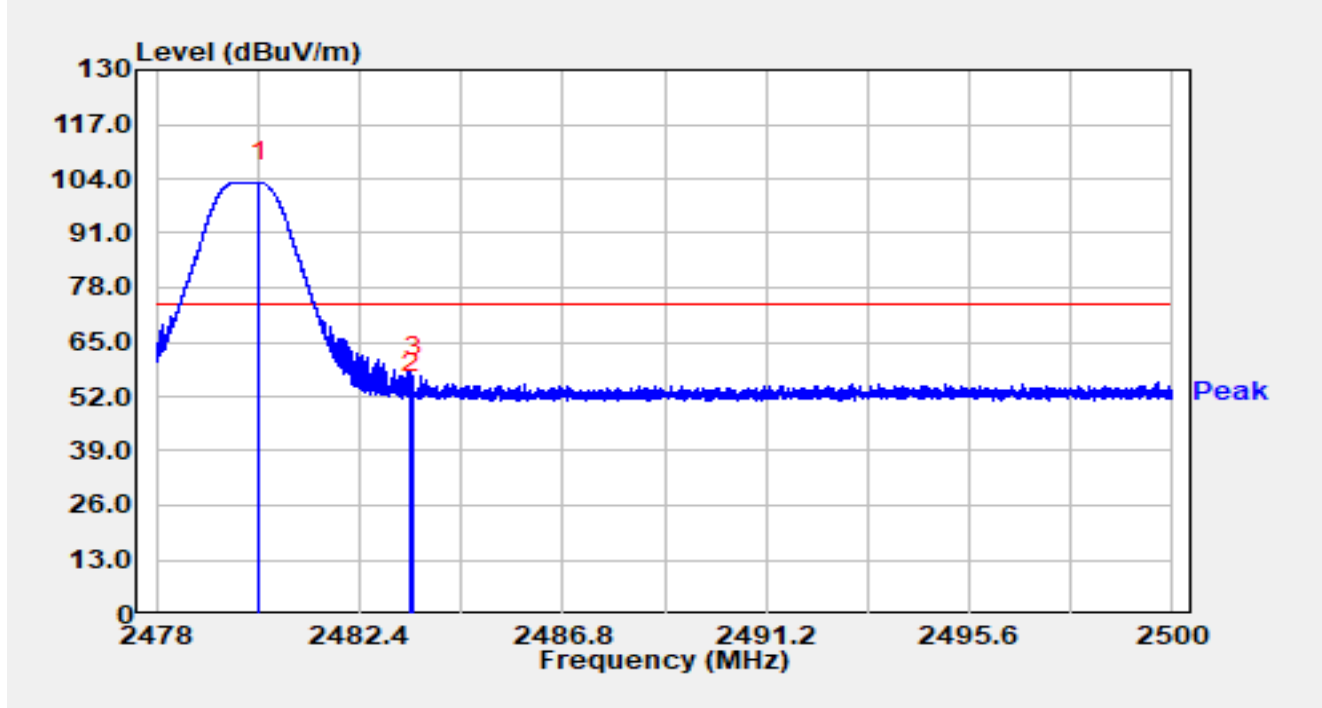


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2390.000	5.81	29.59	35.40	-18.60	54.00	Average
2		2402.027	62.99	29.64	92.63	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

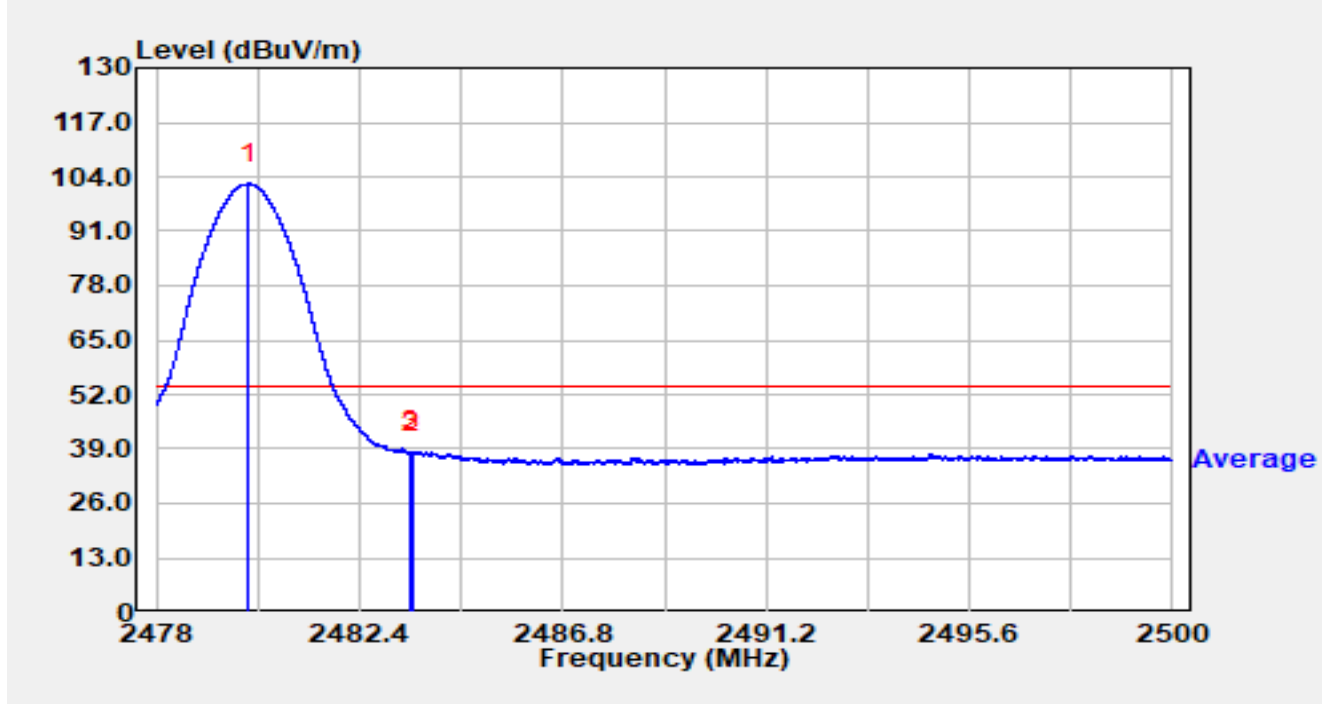


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.231	73.44	29.75	103.19	N/A	N/A	Peak
2		2483.500	22.73	29.76	52.50	-21.50	74.00	Peak
3	*	2483.562	27.11	29.76	56.87	-17.13	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

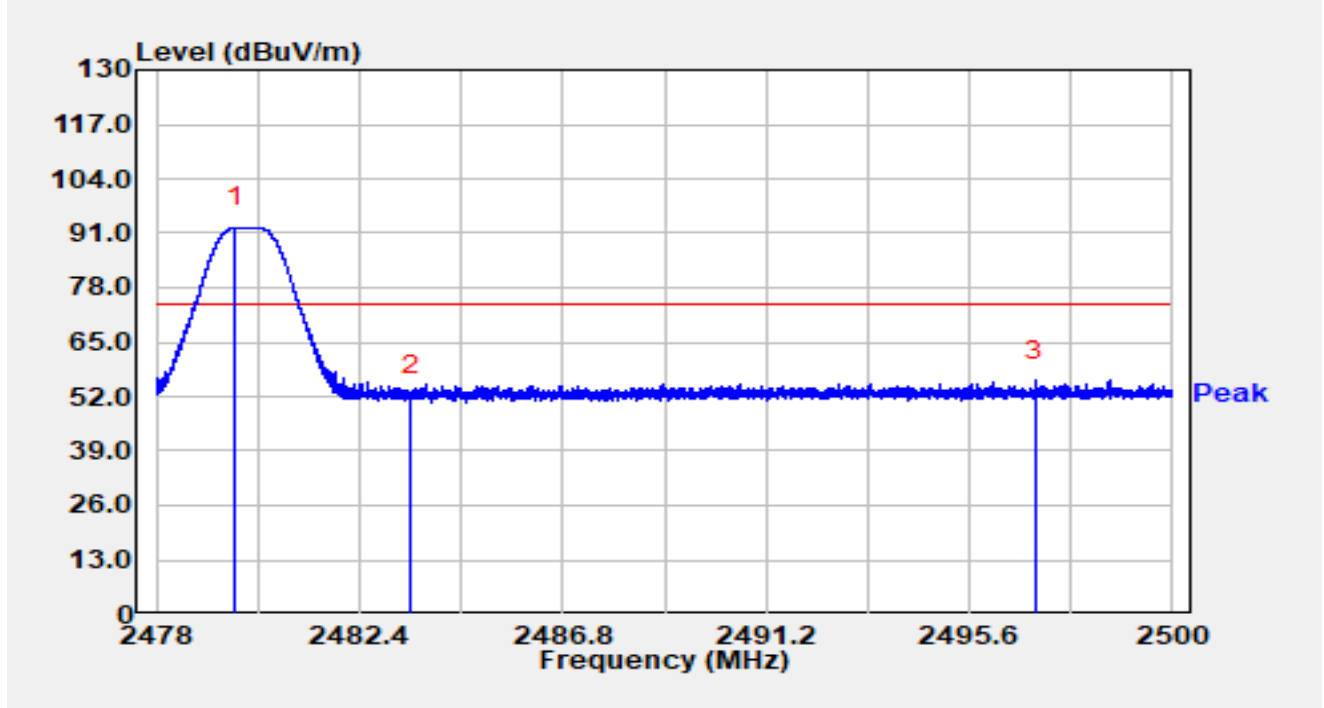


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.989	72.55	29.75	102.30	N/A	N/A	Average
2		2483.500	8.30	29.76	38.07	-15.93	54.00	Average
3	*	2483.544	8.60	29.76	38.36	-15.64	54.00	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

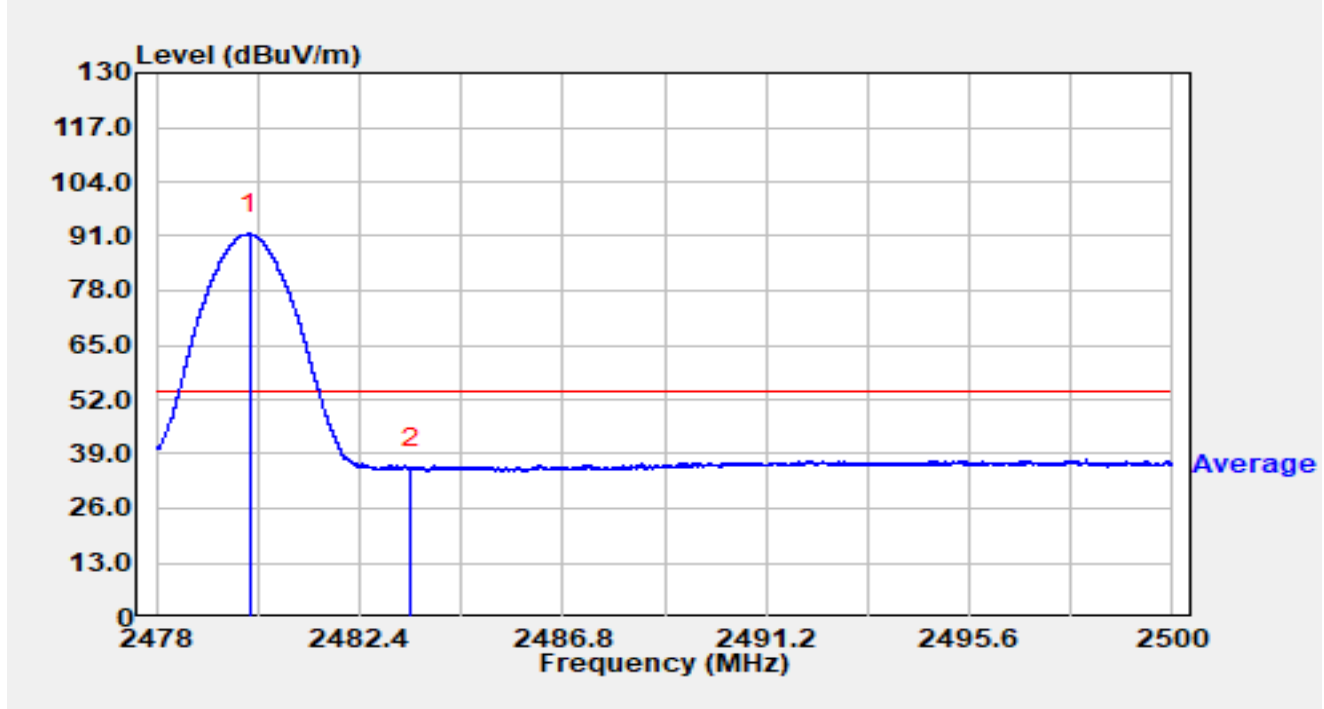


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.698	62.72	29.75	92.47	N/A	N/A	Peak
2		2483.500	22.63	29.76	52.40	-21.60	74.00	Peak
3	*	2497.021	26.00	29.79	55.78	-18.22	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 1Mbps at 2480MHz		

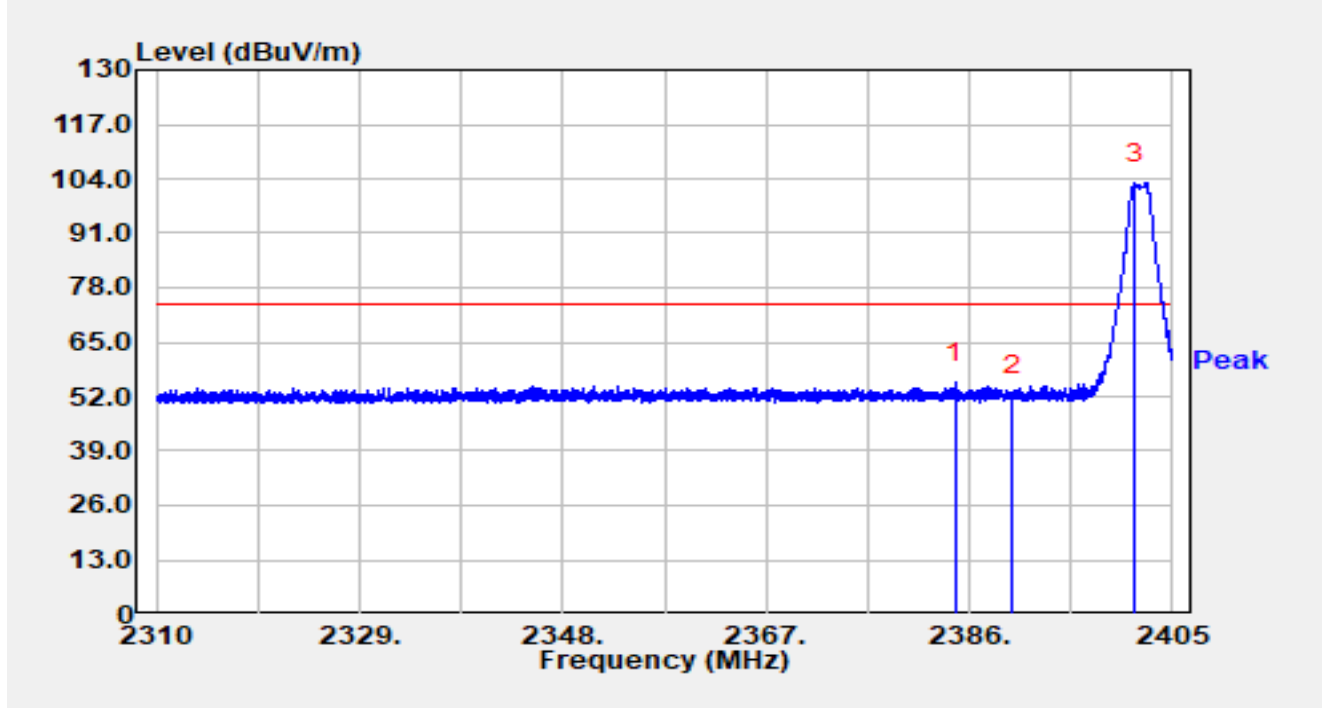


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.013	61.78	29.75	91.54	N/A	N/A	Average
2	*	2483.500	5.88	29.76	35.65	-18.35	54.00	Average

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

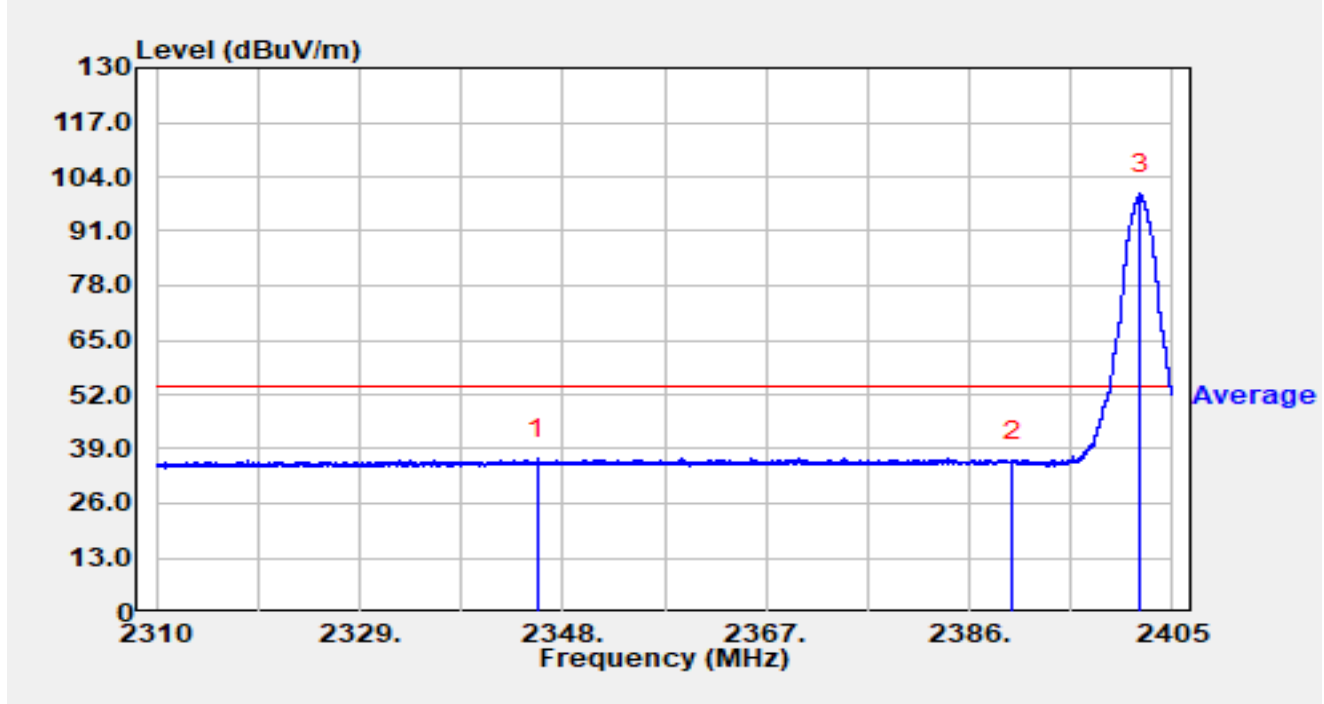


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2384.718	25.65	29.57	55.22	-18.78	74.00	Peak
2		2390.000	22.79	29.59	52.38	-21.62	74.00	Peak
3		2401.476	73.28	29.64	102.91	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

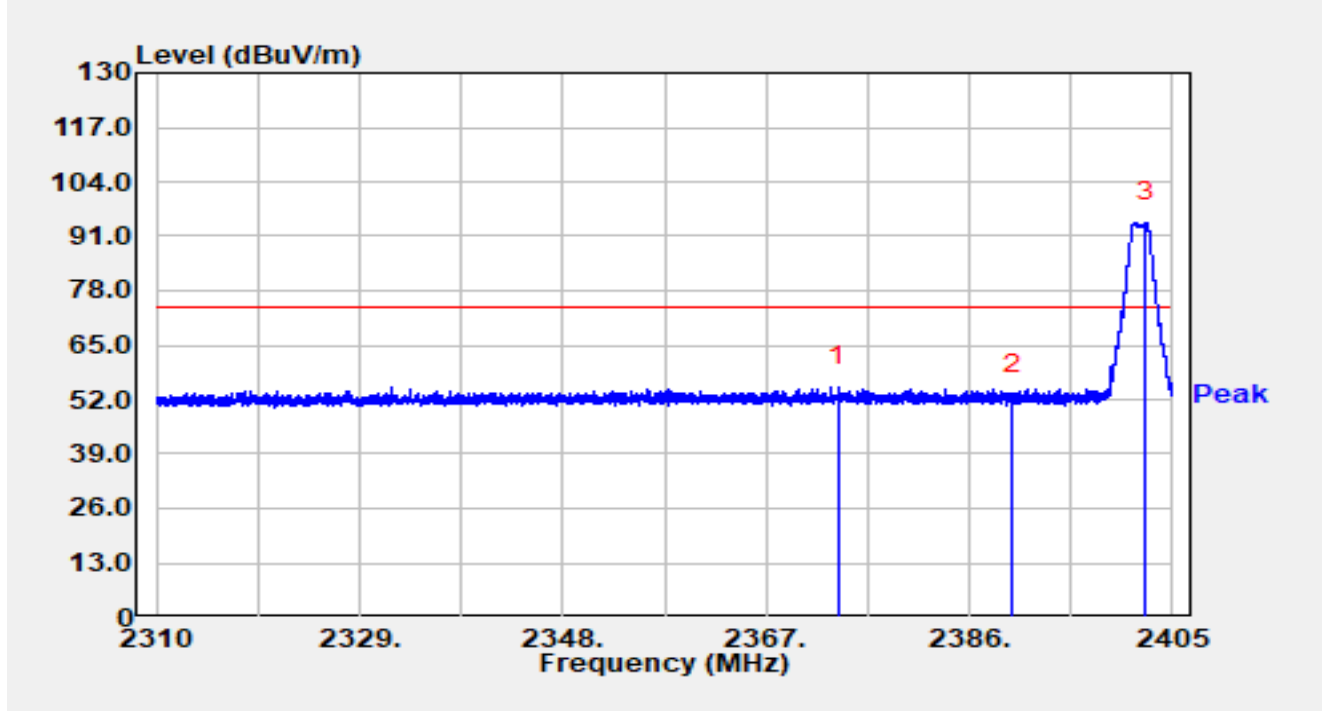


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2345.606	7.19	29.50	36.69	-17.31	54.00	Average
2		2390.000	6.43	29.59	36.02	-17.98	54.00	Average
3		2401.998	70.29	29.64	99.93	N/A	N/A	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

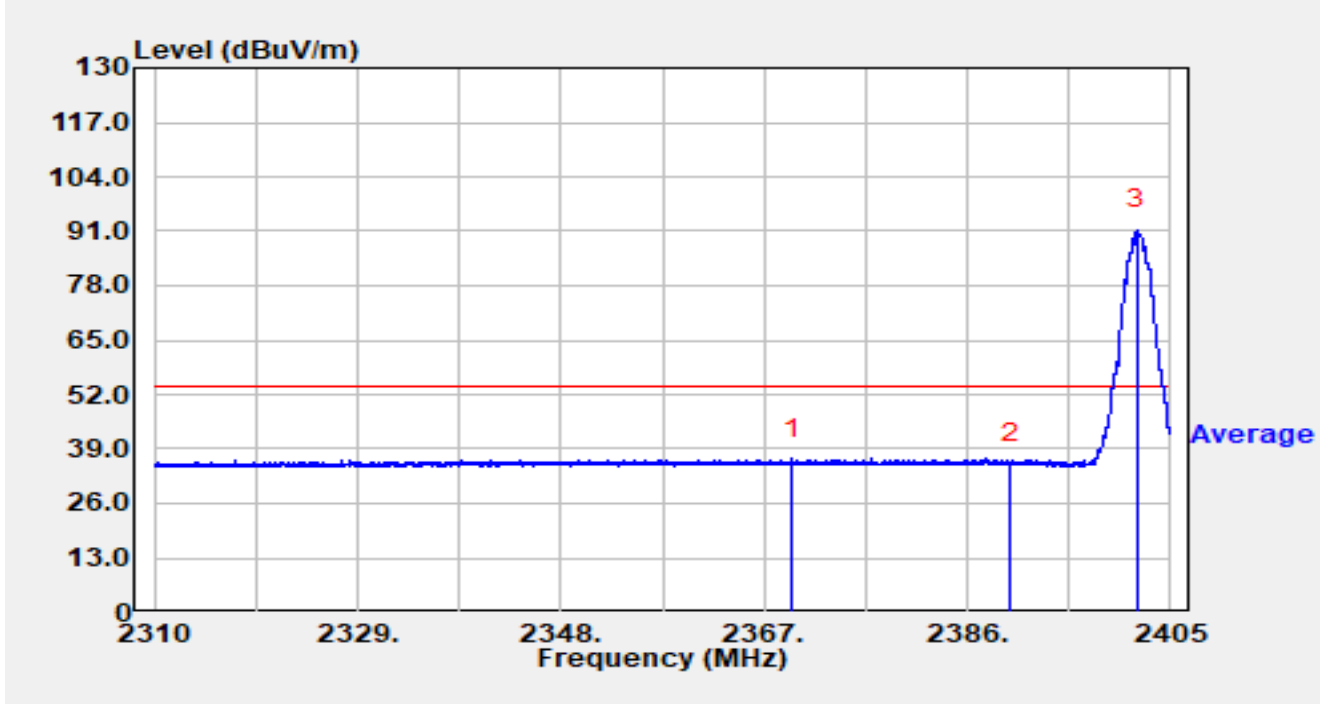


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2373.726	25.47	29.56	55.03	-18.97	74.00	Peak
2		2390.000	23.82	29.59	53.41	-20.59	74.00	Peak
3		2402.501	64.72	29.64	94.36	N/A	N/A	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2402MHz		

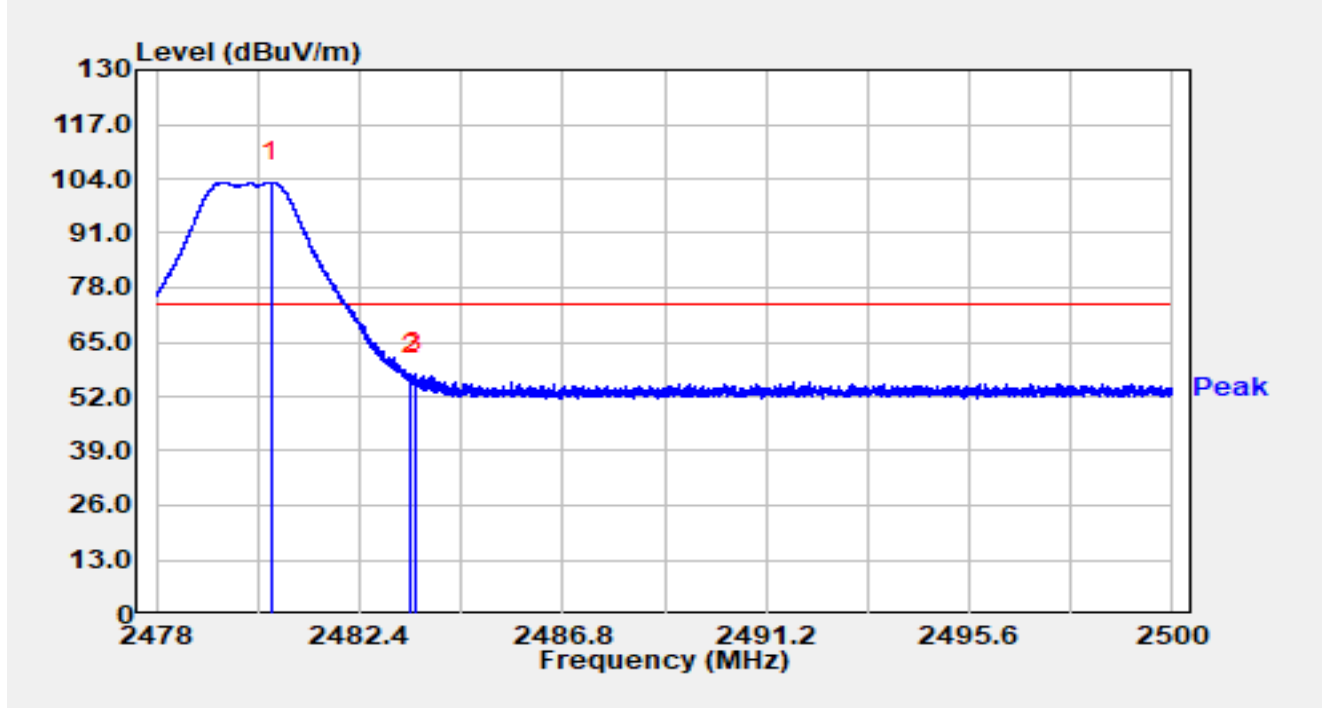


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2369.594	7.16	29.56	36.72	-17.28	54.00	Average
2		2390.000	6.15	29.59	35.74	-18.26	54.00	Average
3		2401.913	61.74	29.64	91.38	N/A	N/A	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

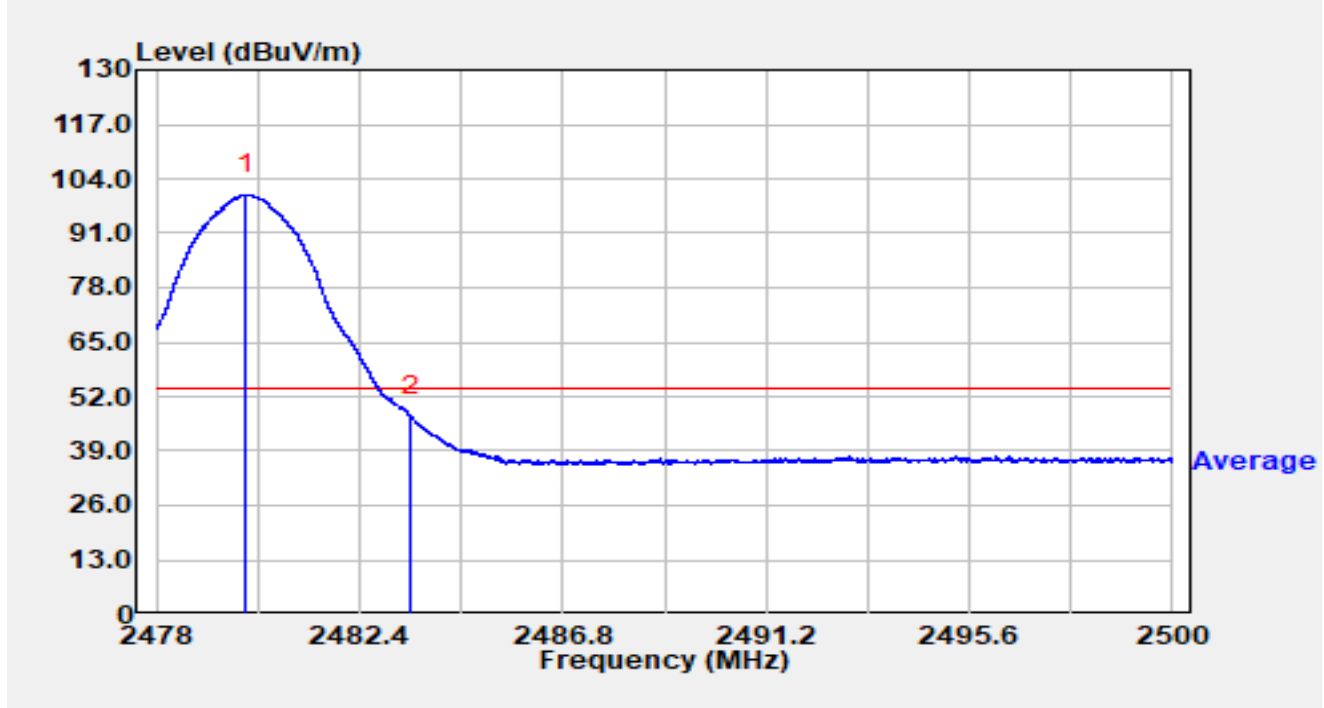


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.488	73.51	29.75	103.26	N/A	N/A	Peak
2		2483.500	27.55	29.76	57.32	-16.68	74.00	Peak
3	*	2483.592	27.74	29.76	57.51	-16.49	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

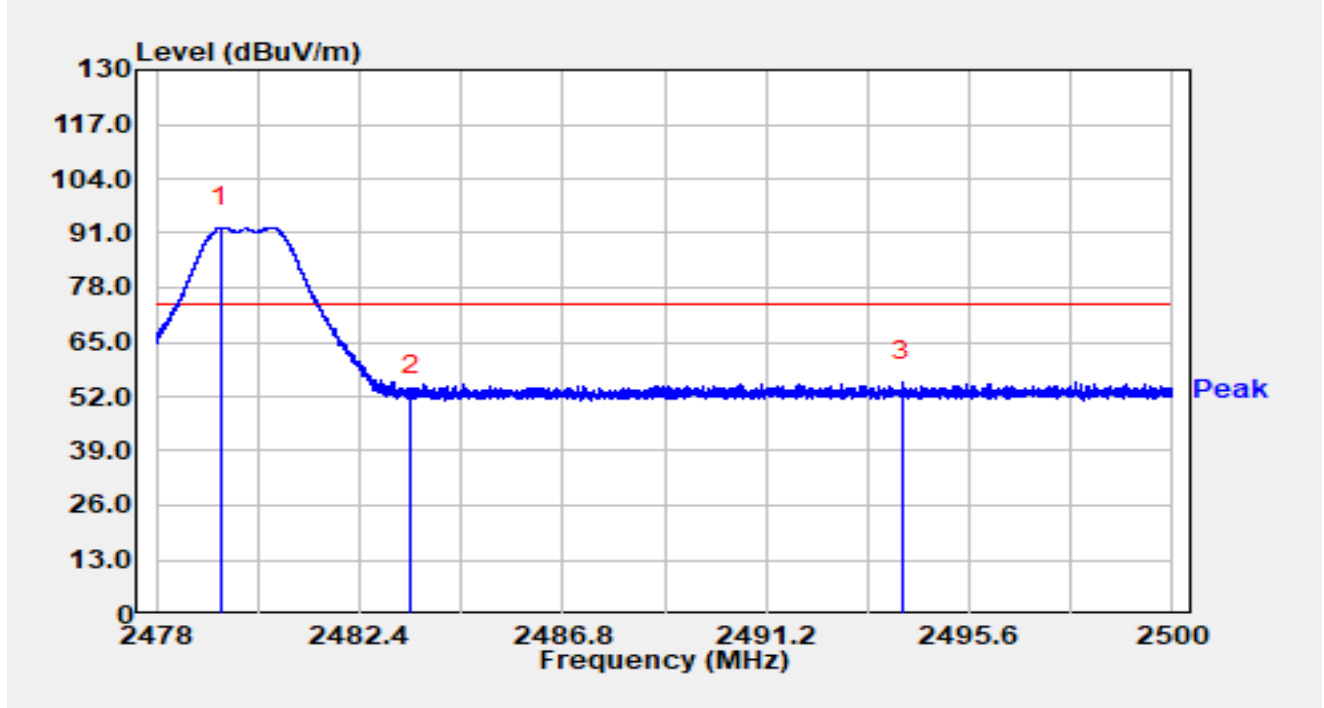


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.927	70.55	29.75	100.30	N/A	N/A	Average
2	*	2483.500	17.52	29.76	47.28	-6.72	54.00	Average

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

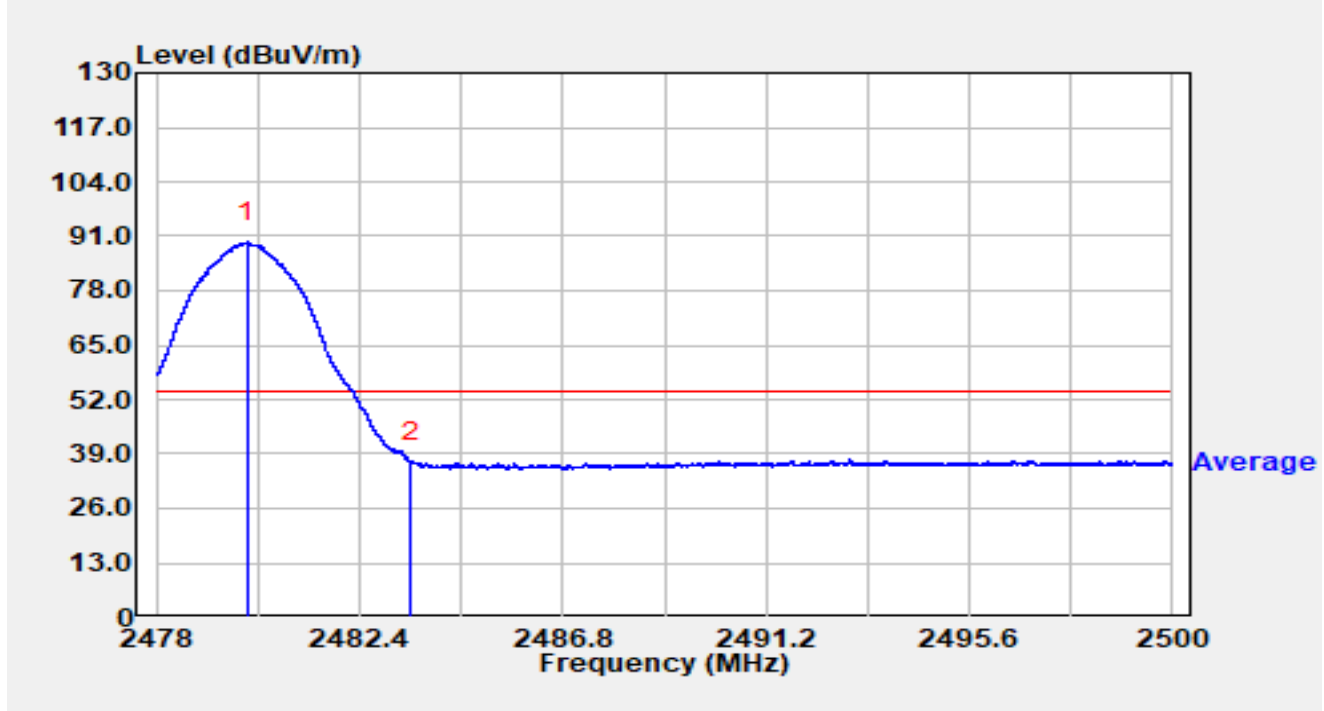


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.397	62.64	29.75	92.39	N/A	N/A	Peak
2		2483.500	22.29	29.76	52.05	-21.95	74.00	Peak
3	*	2494.157	25.76	29.79	55.55	-18.45	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-03-30
Temperature	19.6°C	Humidity	41.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.973	59.78	29.75	89.53	N/A	N/A	Average
2	*	2483.500	7.49	29.76	37.25	-16.75	54.00	Average

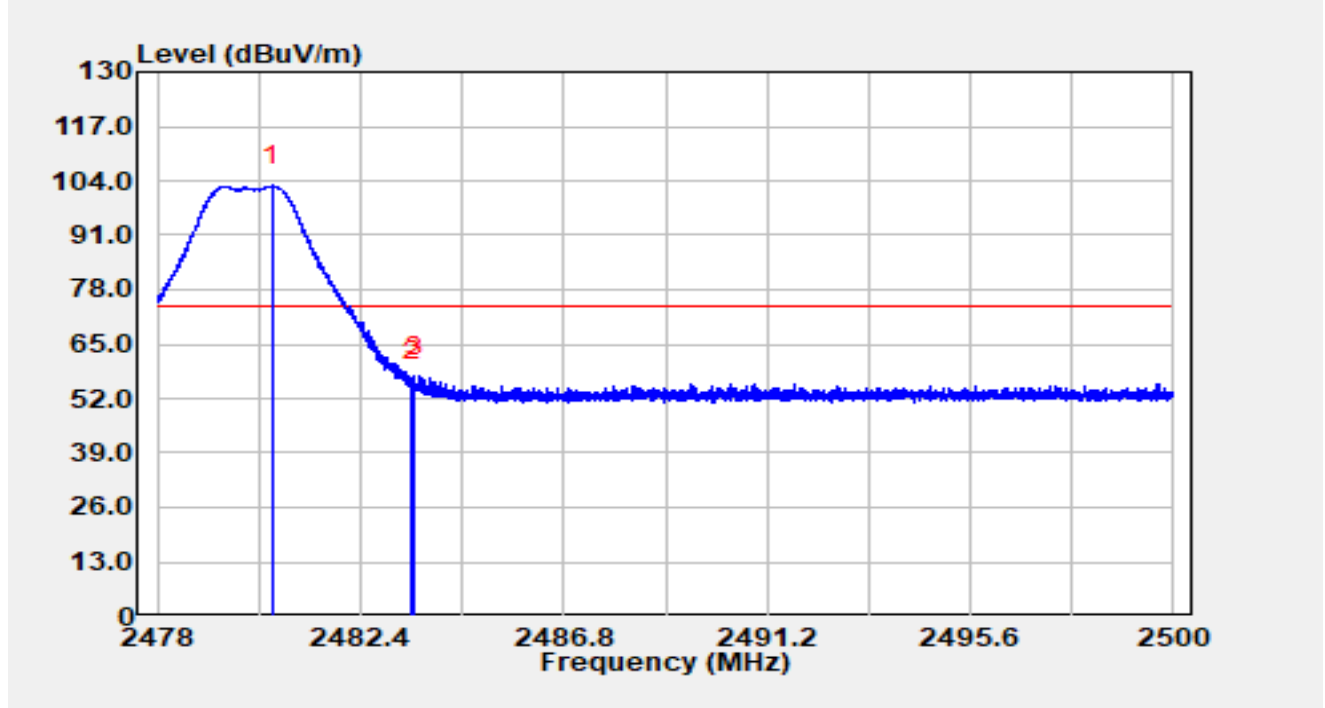
Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Spot check test data for module with shielding cover:

Antenna #3

Site	WJ-AC2	Test Date	2025-05-07
Temperature	23.0 °C	Humidity	50.4 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

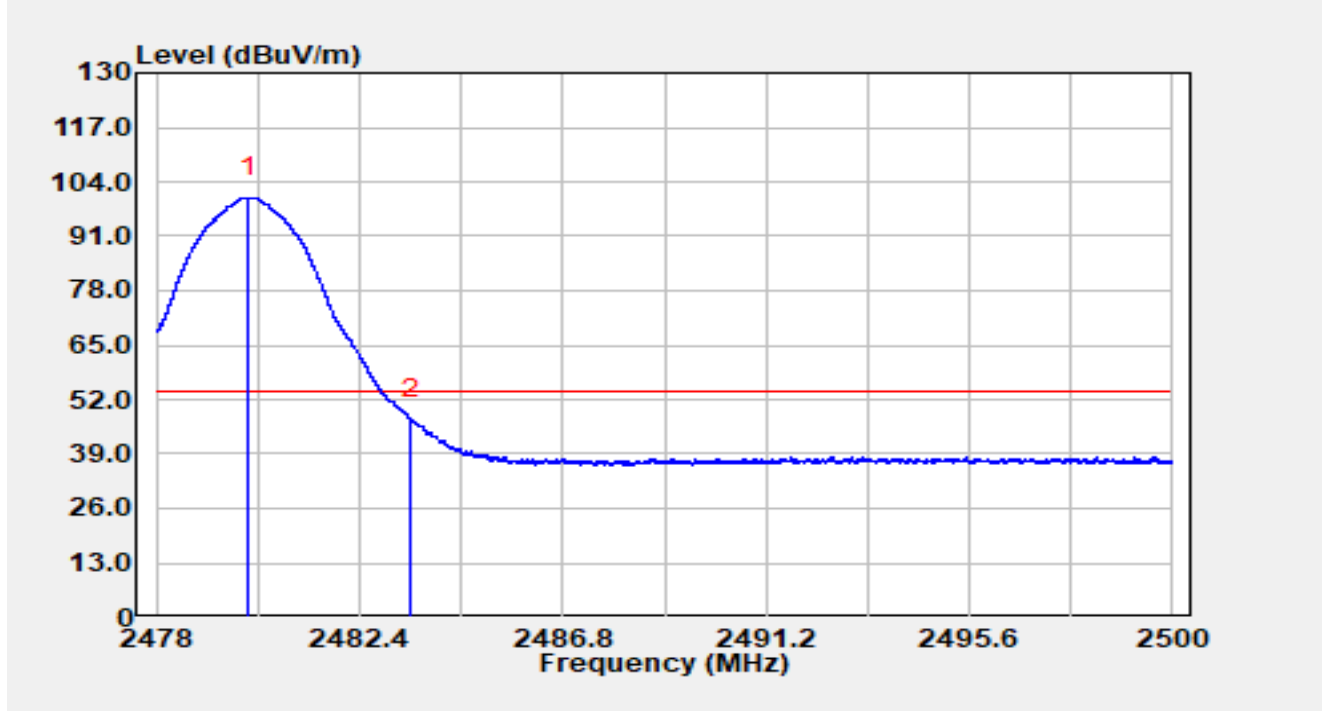


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2480.484	73.04	29.75	102.79	N/A	N/A	Peak
2		2483.500	26.34	29.76	56.10	-17.90	74.00	Peak
3		2483.577	27.56	29.76	57.33	-16.67	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
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	WJ-AC2	Test Date	2025-05-07
Temperature	23.0 °C	Humidity	50.4 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

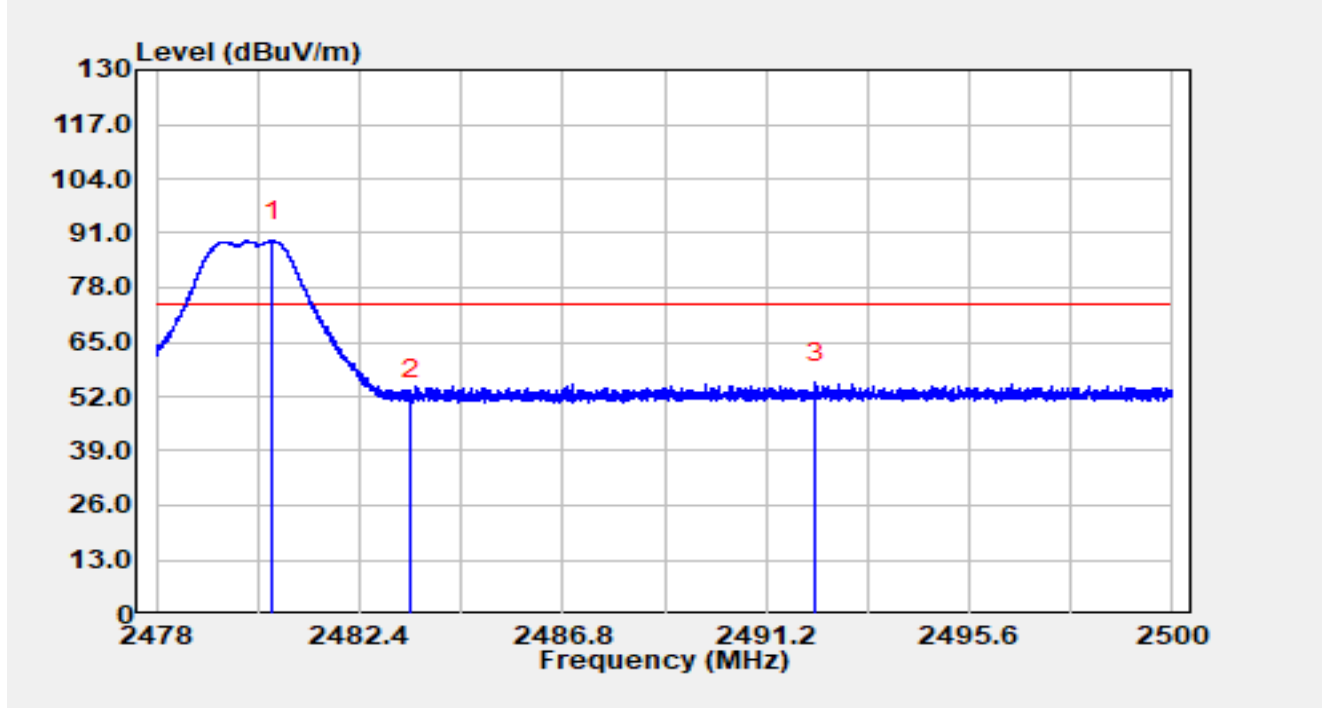


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2480.004	70.53	29.75	100.28	N/A	N/A	Average
2		2483.500	17.77	29.76	47.53	-6.47	54.00	Average

Notes:

- " * ", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)-AMP (dB).
- Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	WJ-AC2	Test Date	2025-05-07
Temperature	23.0 °C	Humidity	50.4 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		

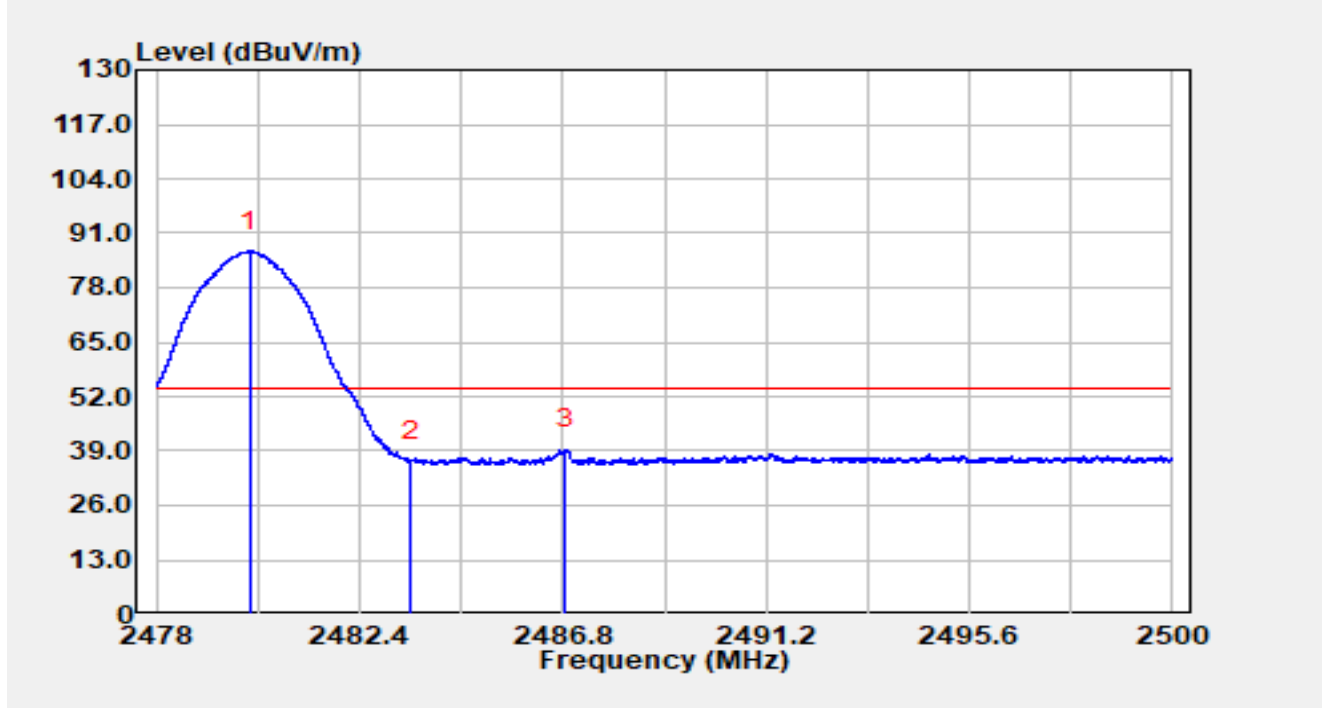


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2480.508	59.48	29.75	89.23	N/A	N/A	Peak
2		2483.500	21.50	29.76	51.27	-22.73	74.00	Peak
3		2492.280	25.55	29.79	55.34	-18.66	74.00	Peak

Notes:

1. " * ", means this data is the worst emission level.
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	WJ-AC2	Test Date	2025-05-07
Temperature	23.0 °C	Humidity	50.4 %
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	Bluetooth Module	Test Voltage	DC 3.3V
Test Mode	Transmit by BLE 2Mbps at 2480MHz		



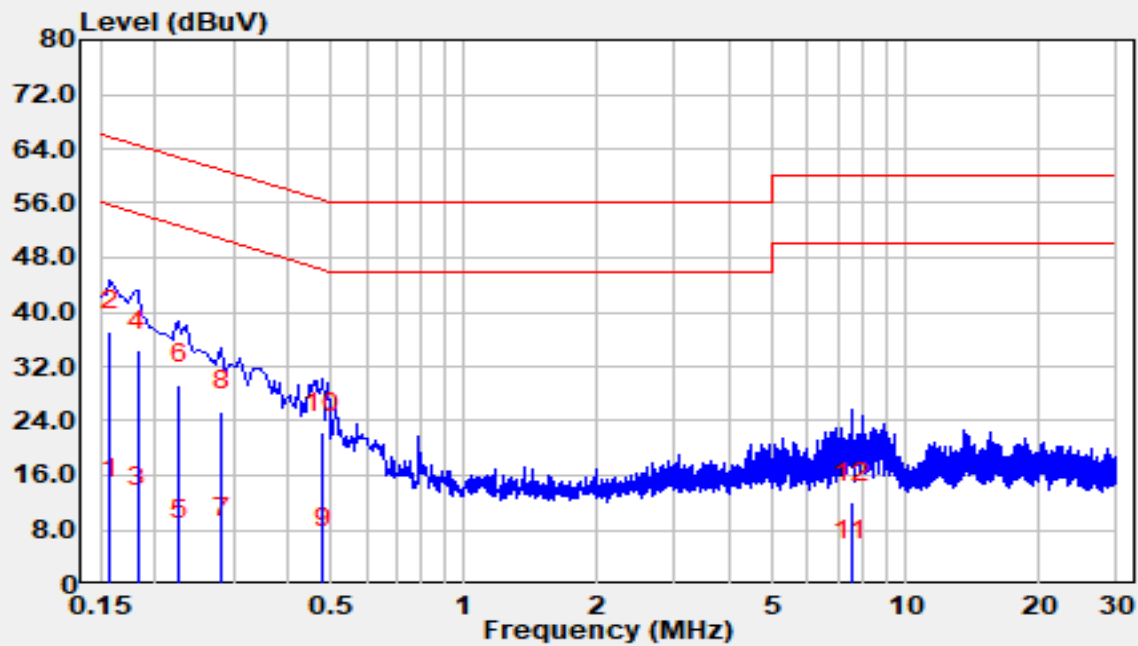
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2480.022	56.92	29.75	86.67	N/A	N/A	Average
2		2483.500	6.93	29.76	36.69	-17.31	54.00	Average
3		2486.848	9.66	29.78	39.44	-14.56	54.00	Average

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)-AMP (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

A.8 AC Conducted Emissions Test Result

Site	WZ-SR2	Test Date	2025-04-09
Temperature	23.3 °C	Humidity	52.6 %
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
Factor	ENV216_101683_L1_Filter Off_E	Polarity	Line1
EUT	Bluetooth Module	Test Voltage	AC 120/60Hz
Test Mode	Transmit by BLE 1Mbps at 2402MHz		

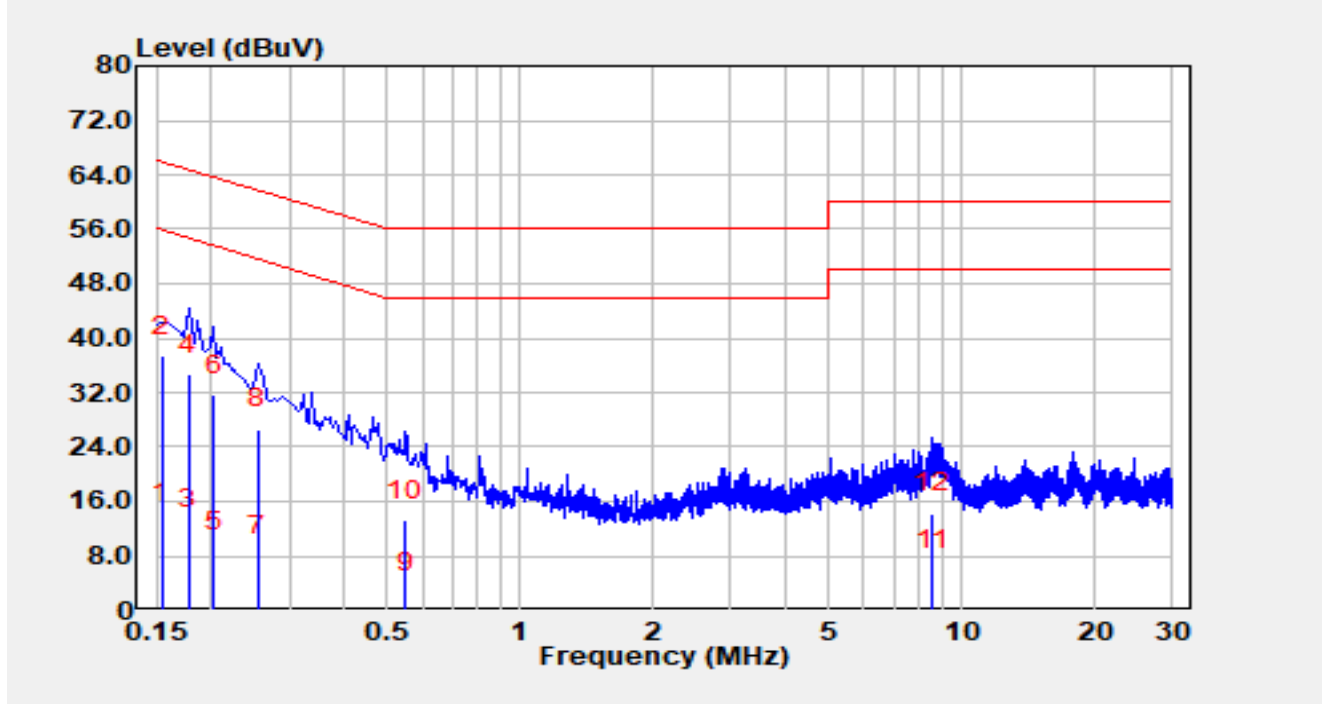


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.16	2.70	9.77	12.47	-43.09	55.57	Average
2	*	0.16	27.40	9.77	37.17	-28.39	65.57	QP
3		0.18	1.50	9.78	11.28	-43.11	54.39	Average
4		0.18	24.50	9.78	34.28	-30.11	64.39	QP
5		0.23	-3.20	9.80	6.60	-45.99	52.60	Average
6		0.23	19.60	9.80	29.40	-33.19	62.60	QP
7		0.28	-3.00	9.82	6.82	-43.93	50.76	Average
8		0.28	15.60	9.82	25.42	-35.33	60.76	QP
9		0.48	-4.70	9.92	5.22	-41.16	46.37	Average
10		0.48	12.40	9.92	22.32	-34.06	56.37	QP
11		7.55	-7.20	10.78	3.58	-46.42	50.00	Average
12		7.55	1.20	10.78	11.98	-48.02	60.00	QP

Notes:

1. " * ", means this data is the worst emission level.
2. C.F (dB) = LISN Factor (dB) + Cable Loss (dB).
3. Measurement (dB μ V) = Reading (dB μ V) + C.F (dB).

Site	WZ-SR2	Test Date	2025-04-09
Temperature	23.3 °C	Humidity	52.6 %
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
Factor	ENV216_101683_N_Filter Off_E	Polarity	Neutral
EUT	Bluetooth Module	Test Voltage	AC 120/60Hz
Test Mode	Transmit by BLE 1Mbps at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.15	3.20	9.75	12.95	-42.83	55.78	Average
2	*	0.15	27.60	9.75	37.35	-28.43	65.78	QP
3		0.18	2.20	9.77	11.97	-42.61	54.58	Average
4		0.18	24.80	9.77	34.57	-30.01	64.58	QP
5		0.20	-1.20	9.78	8.58	-44.95	53.53	Average
6		0.20	21.90	9.78	31.68	-31.85	63.53	QP
7		0.25	-1.90	9.79	7.89	-43.73	51.63	Average
8		0.25	16.80	9.79	26.59	-35.03	61.63	QP
9		0.55	-7.30	9.94	2.64	-43.36	46.00	Average
10		0.55	3.20	9.94	13.14	-42.86	56.00	QP
11		8.57	-5.10	10.89	5.79	-44.21	50.00	Average
12		8.57	3.40	10.89	14.29	-45.71	60.00	QP

Notes:

1. " * ", means this data is the worst emission level.

2. $C.F (dB) = LISN \text{ Factor } (dB) + \text{Cable Loss } (dB)$.
3. $\text{Measurement } (dB\mu V) = \text{Reading } (dB\mu V) + C.F (dB)$.

Appendix B - Test Setup Photograph

Refer to "R25S1001023-UT" file.

Appendix C - EUT Photograph

Refer to "R25S1001023-UE" file.

The End
