RF MEASUREMENT REPORT

FCC ID:	DD4SLXD3EG57
Applicant:	Shure Incorporated
Product:	Plug-on Wireless Transmitter
Regulatory Model Number (RMN):	SLXD3+
Product Number:	SLXD3+ G57
Trade Mark:	SHURE, SHURE®
FCC Classification:	Digital Transmission System (DTS)
FCC Rule Part(s):	Part 15 Subpart C (Section 15.247)
Result:	Complies
Received Date:	2025-06-03 ~ 2025-06-04
Test Date:	2025-06-16 ~ 2025-06-30

Reviewed By: Jame Yuan

Approved By: Robin Wu

ilac-MRA

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

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
R25S1001068-U201	V01	Initial Report	2025-07-08	Invalid
R25S1001068-U201	V02	Update Channel Number Information	2025-07-22	Valid

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1. General Information

1.1. Applicant

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

1.2. Manufacturer

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

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	Plug-on Wireless Transmitter
Regulatory Model Number (RMN)	SLXD3+
Product Number	SLXD3+ G57
EUT Identification No.	20250604Sample#11 (Conducted) 20250603Sample#04 (Radiated)
Bluetooth Specification	BLE Only
Microphone Specification	Wireless Microphone, UHF band, 470.125MHz ~ 551.850MHz & 552.150MHz ~ 607.875MHz
Antenna Specification	Refer to clause 1.5
Operating Temp.	-18 ~ 50 °C
Power Type	By 2pcs * AA: 3Vdc or Rechargeable Li-ion Battery Pack
Accessory	
Li-ion Battery	Model: SB903 Output: 3.6V⎓1200mAh, 4.32Wh
Note: The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer.	

1.5. Radio Specification under Test

Frequency Range	1Mbps/125kbps/500kbps: 2402 ~ 2480MHz 2Mbps: 2404 ~ 2478MHz (Excluding 2426MHz)
Channel Number	1Mbps/125kbps/500kbps: 40 2Mbps: 37
Type of Modulation	GFSK
Data Rate	1Mbps, 2Mbps, 500kbps, 125kbps
Antenna Type	Dipole Antenna
Antenna Gain	4.1dBi

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	--	--	--	--

Note: The 2Mbps mode is not supported on the 2402/ 2426/ 2480MHz channels.

2. Test Configuration

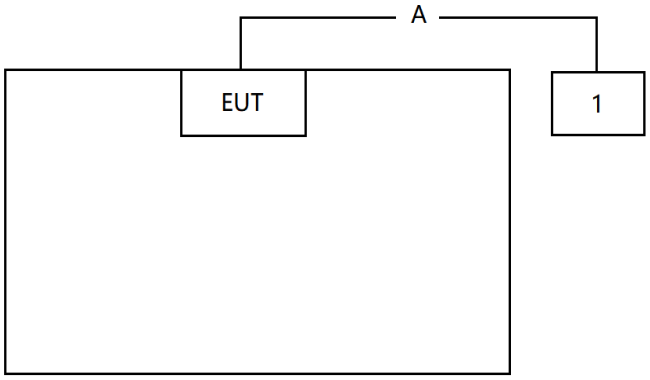
2.1. Test Mode

Mode 1: Transmit by BLE-1Mbps
Mode 2: Transmit by BLE-2Mbps
Mode 3: Transmit by BLE-500kbps
Mode 4: Transmit by BLE-125kbps

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 & AC Conducted Emissions



Cable Type		Cable Description	Length
A	Type-C Cable	Shielded	1.0m
Product		**Manufacturer**	**Model No.**
1	Notebook	Dell	E430C

2.3. Test Software

The test utility software used during testing was “Shure_Control” and the version was 4.6.

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."

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

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2026-04-24	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06558	1 year	2026-05-17	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06447	1 year	2025-06-18 2026-06-17	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11088	1 year	2026-06-02	WZ-SR5
Cable	UCwave	UCE500	2411001	Note	Note	WZ-SR5
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2026-03-22	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2025-09-23	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2026-03-18	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2026-04-17	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2025-10-13	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2026-01-09	WZ-AC2
Passive Magentic TX Loop Antenna	Schwarzbeck	Cable loop EN 303417	MRTSUE07087	N/A	N/A	WZ-AC2
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2026-04-26	WZ-SR2
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	5 years	2026-12-20	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2026-04-24	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

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

Software	Version	Function
e3	230711	RE & CE
Agilent Power Panel	V R03.09.00	Power
Controller_MF 7802	1.02	RE Antenna & Turntable

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=2Uc(y)): 2.5dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.5dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.5dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(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.

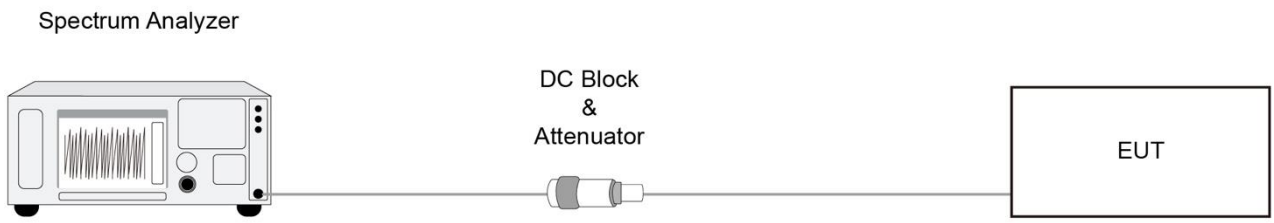
6.2.2. Test Procedure

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 ≥ 3 × 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

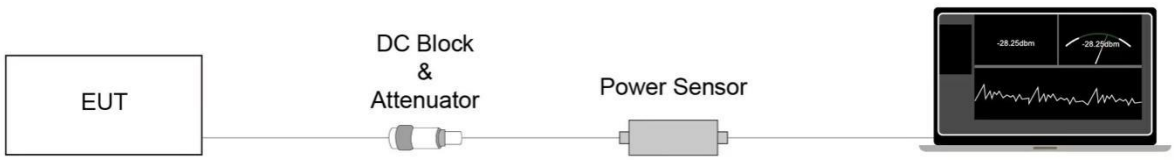
Method PKPM1 (Peak Power Measurement of Signals with DTS BW ≤ 50MHz)

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.

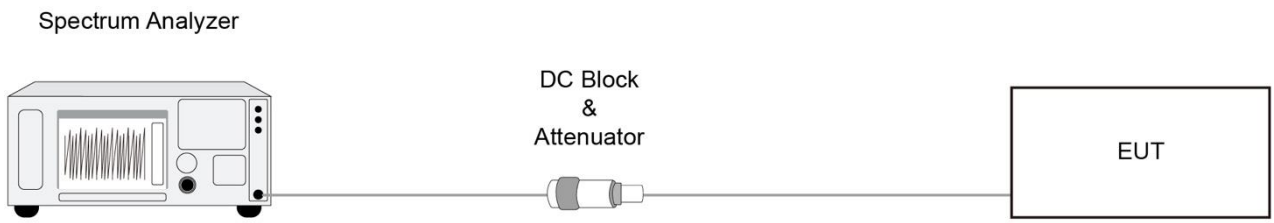
6.4.2. Test Procedure

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

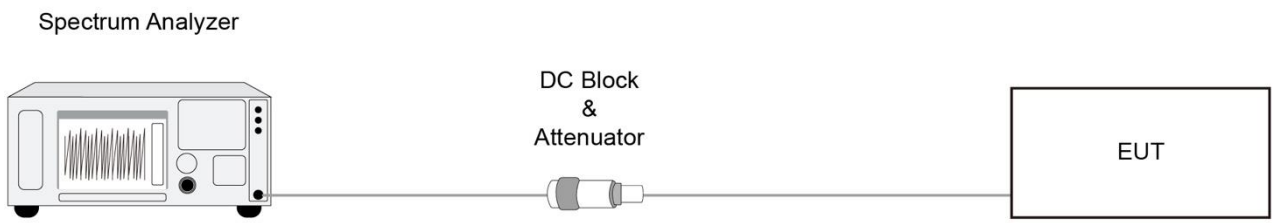
Reference level measurement

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 ≥ 3 x 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 [μV/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
> 1000 MHz	1 MHz

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

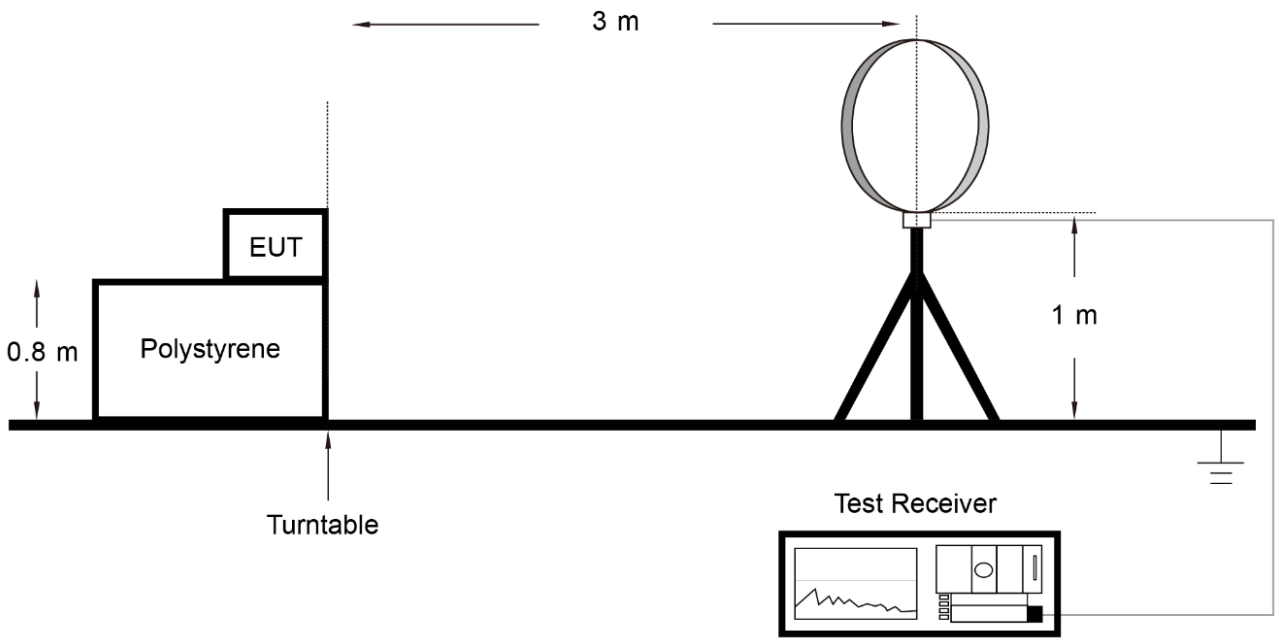
Average Measurements above 1GHz (Method VB)

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 ≥ 98%, set VBW = 10Hz

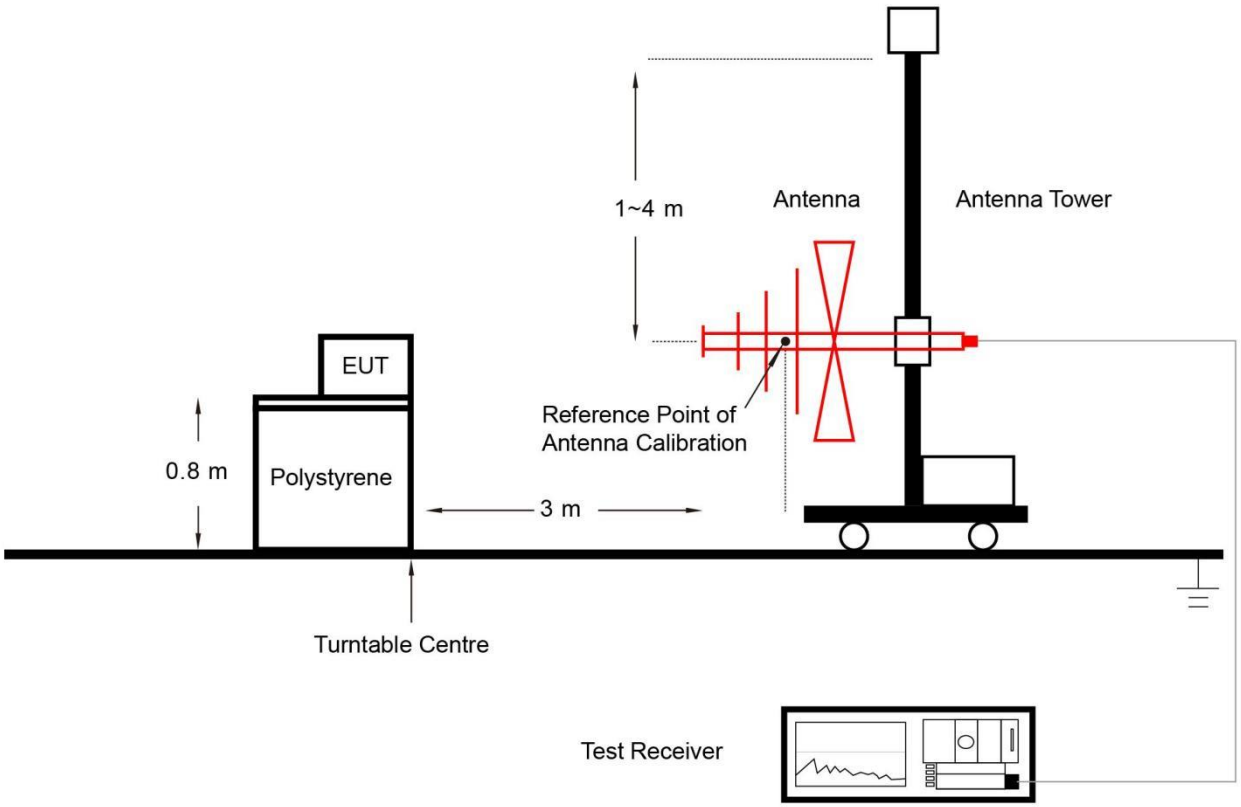
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display 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

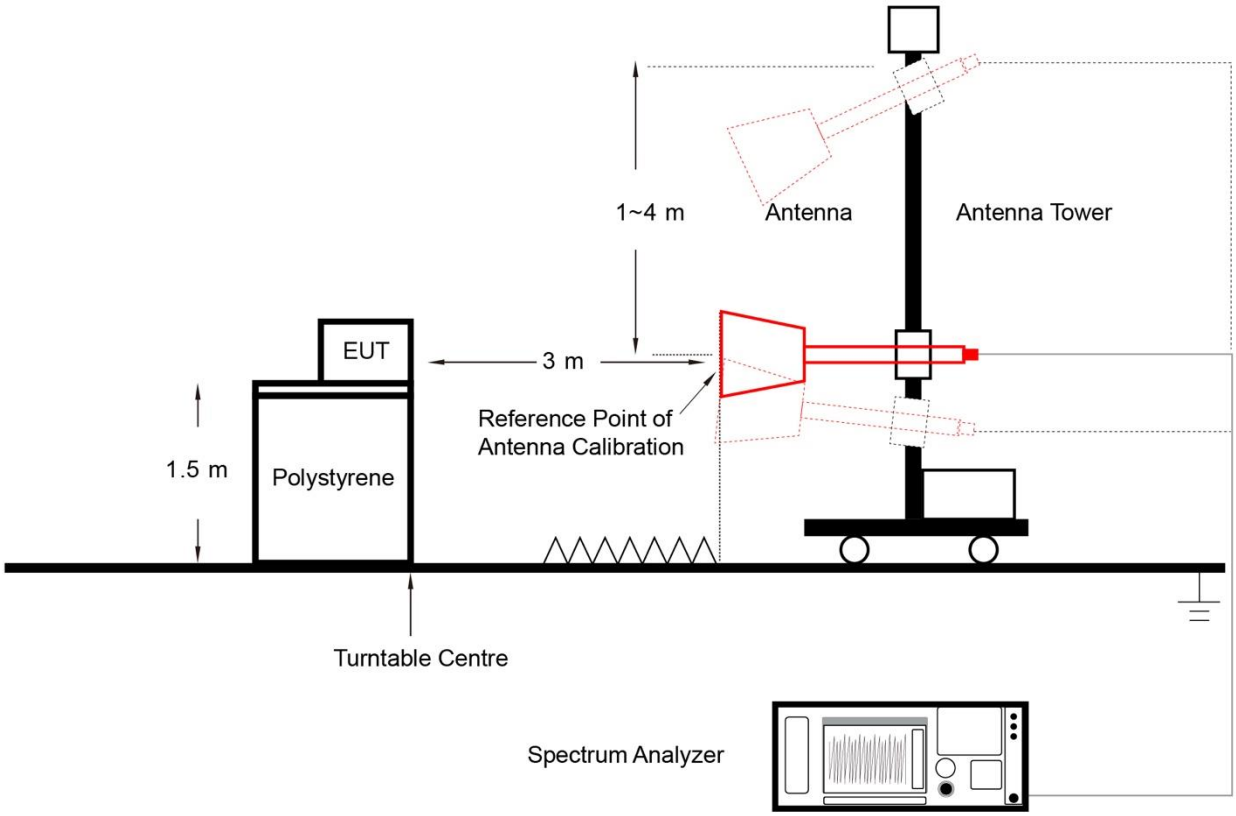
Below 30MHz Test Setup:



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 [μV/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

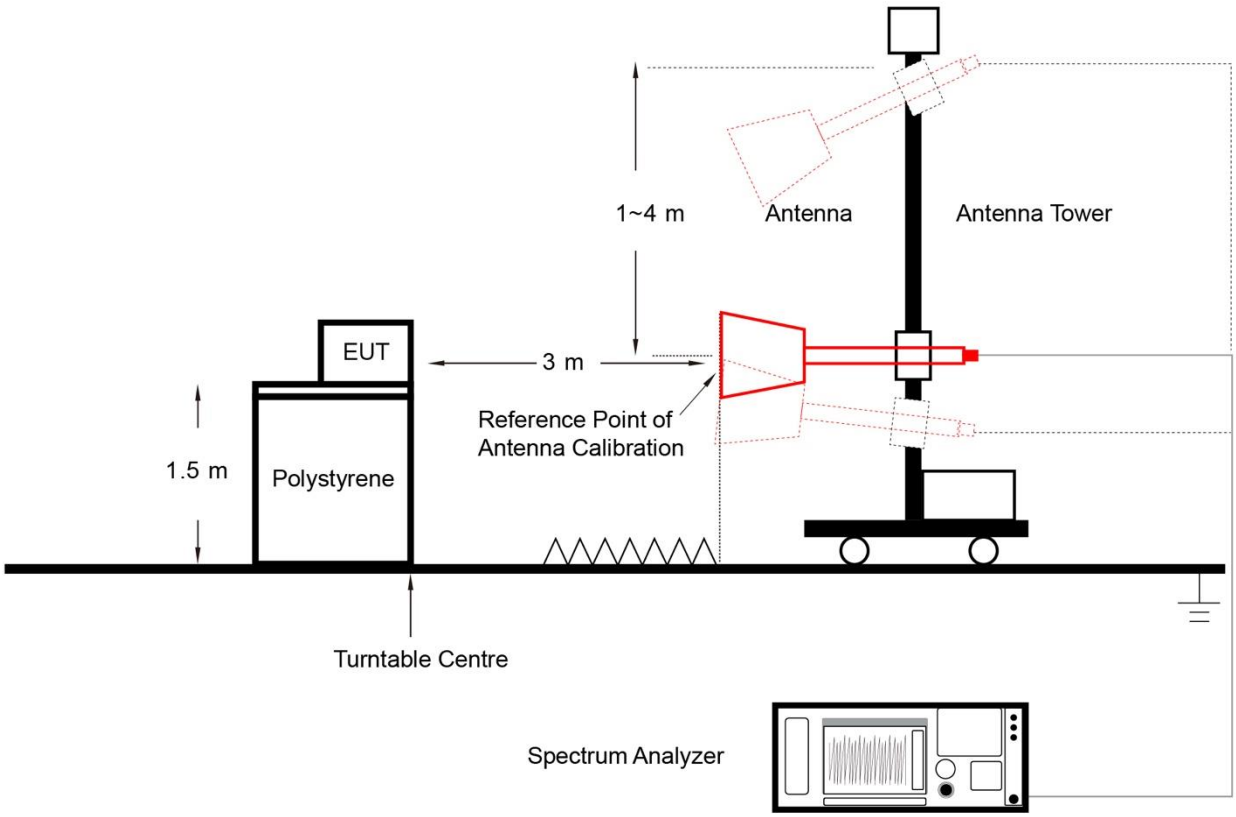
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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 ≥ 98%, set VBW = 10 Hz.

   If the EUT duty cycle is < 98%, set VBW ≥ 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

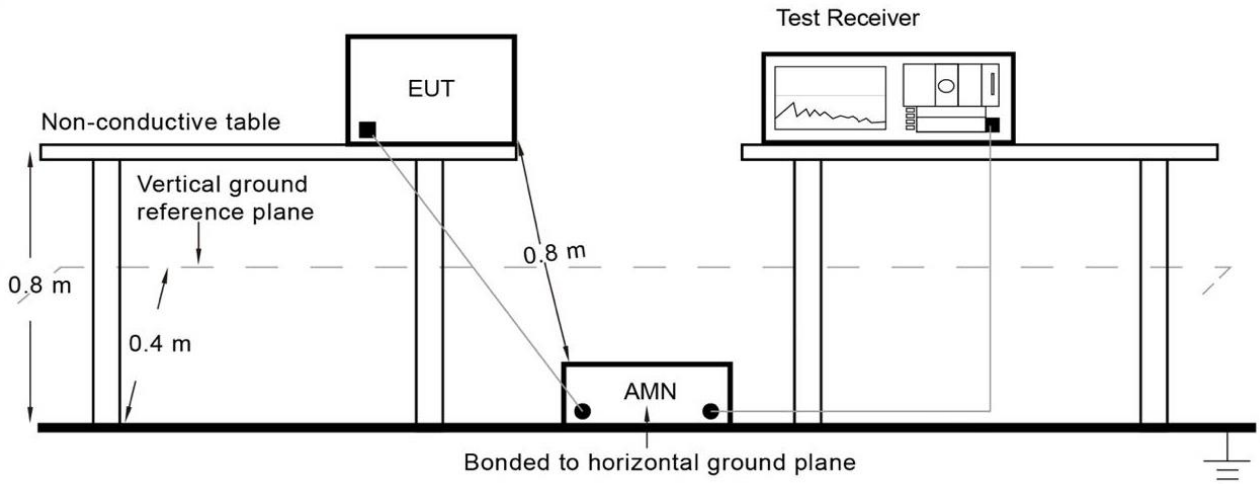
Refer to Appendix A.7.

6.8. AC Conducted Emissions Measurement

6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBμV)	AV (dBμV)
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



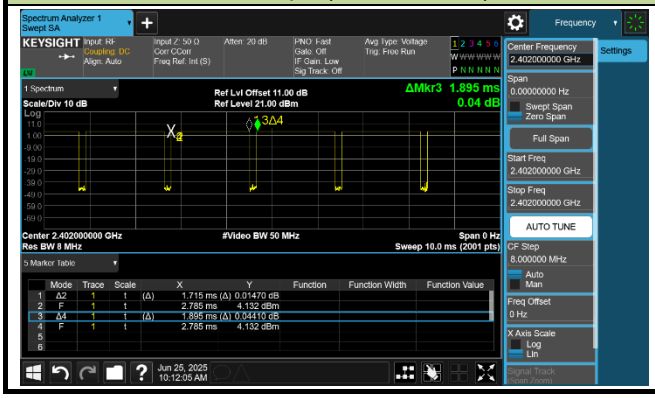
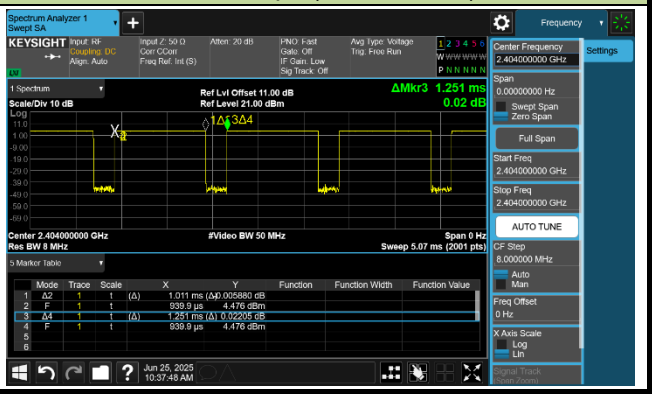
6.8.3. Test Result

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	2025-06-25		

Test Mode	Duty Cycle
BLE-1Mbps	90.50%
BLE-2Mbps	80.82%
Duty Cycle (T = Transmission Duration)	
BLE-1Mbps (T = 1.715ms)	BLE-2Mbps (T = 1.011ms)
	

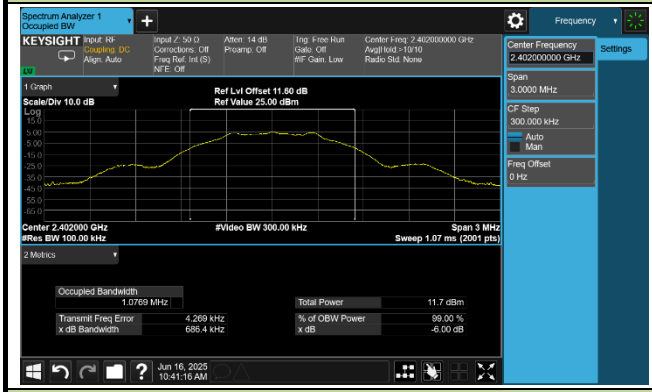
A.2 6dB Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-06-16		

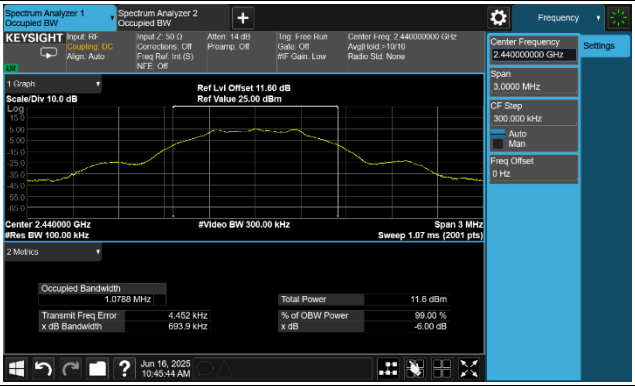
Test Mode	Data Rate	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
BLE	1Mbps	00	2402	0.6864	≥ 0.5
BLE	1Mbps	19	2440	0.6939	≥ 0.5
BLE	1Mbps	39	2480	0.6948	≥ 0.5
BLE	2Mbps	01	2404	1.1440	≥ 0.5
BLE	2Mbps	19	2440	1.1560	≥ 0.5
BLE	2Mbps	38	2478	1.1590	≥ 0.5

BLE-1Mbps 6dB Bandwidth

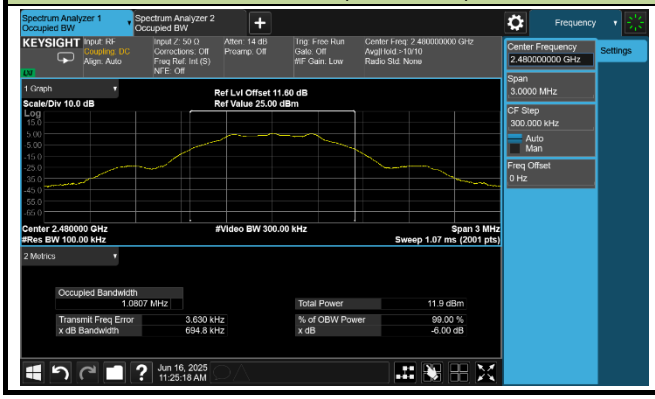
Channel 00 (2402MHz)

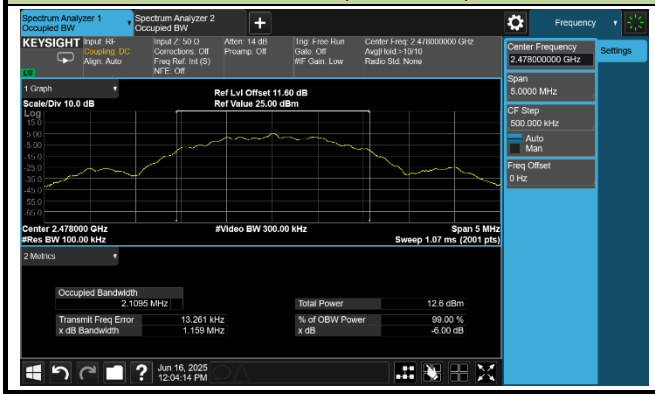


Channel 19 (2440MHz)



Channel 39 (2480MHz)



BLE-2Mbps 6dB Bandwidth	
Channel 01 (2404MHz)	Channel 19 (2440MHz)
Channel 38 (2478MHz)	
	

A.3 Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-06-16		

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	5.52	≤ 30.00	Pass
BLE	1Mbps	19	2440	5.36	≤ 30.00	Pass
BLE	1Mbps	39	2480	5.71	≤ 30.00	Pass
BLE	2Mbps	01	2404	5.58	≤ 30.00	Pass
BLE	2Mbps	19	2440	5.30	≤ 30.00	Pass
BLE	2Mbps	38	2478	5.75	≤ 30.00	Pass
BLE	125kbps	00	2402	4.91	≤ 30.00	Pass
BLE	125kbps	19	2440	4.60	≤ 30.00	Pass
BLE	125kbps	39	2480	5.06	≤ 30.00	Pass
BLE	500kbps	00	2402	4.85	≤ 30.00	Pass
BLE	500kbps	19	2440	4.56	≤ 30.00	Pass
BLE	500kbps	39	2480	5.05	≤ 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	4.72	≤ 30.00	Pass
BLE	1Mbps	19	2440	4.48	≤ 30.00	Pass
BLE	1Mbps	39	2480	4.93	≤ 30.00	Pass
BLE	2Mbps	01	2404	4.78	≤ 30.00	Pass
BLE	2Mbps	19	2440	4.52	≤ 30.00	Pass
BLE	2Mbps	38	2478	4.90	≤ 30.00	Pass
BLE	125kbps	00	2402	4.62	≤ 30.00	Pass
BLE	125kbps	19	2440	4.47	≤ 30.00	Pass
BLE	125kbps	39	2480	4.89	≤ 30.00	Pass
BLE	500kbps	00	2402	4.68	≤ 30.00	Pass
BLE	500kbps	19	2440	4.46	≤ 30.00	Pass
BLE	500kbps	39	2480	4.88	≤ 30.00	Pass

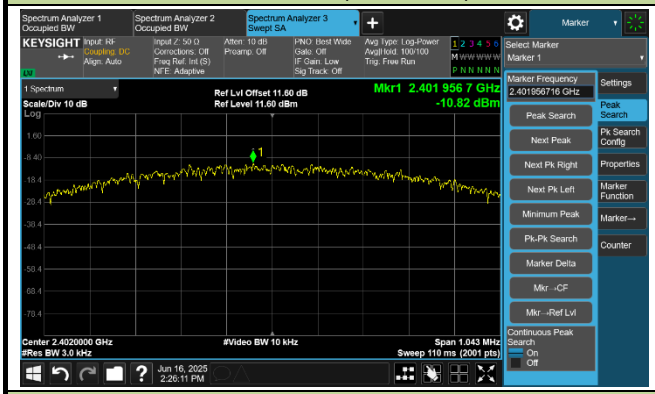
A.4 Power Spectral Density Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-06-16		

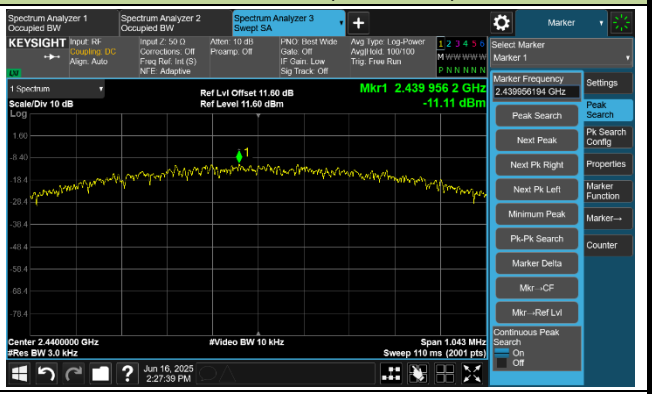
Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1Mbps	00	2402	-10.82	≤ 8.00	Pass
BLE	1Mbps	19	2440	-11.11	≤ 8.00	Pass
BLE	1Mbps	39	2480	-10.90	≤ 8.00	Pass
BLE	2Mbps	01	2404	-12.69	≤ 8.00	Pass
BLE	2Mbps	19	2440	-12.87	≤ 8.00	Pass
BLE	2Mbps	38	2478	-12.55	≤ 8.00	Pass

BLE-1Mbps PSD

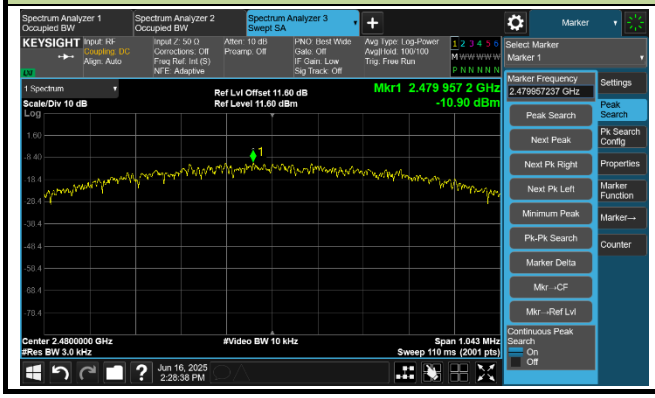
Channel 00 (2402MHz)

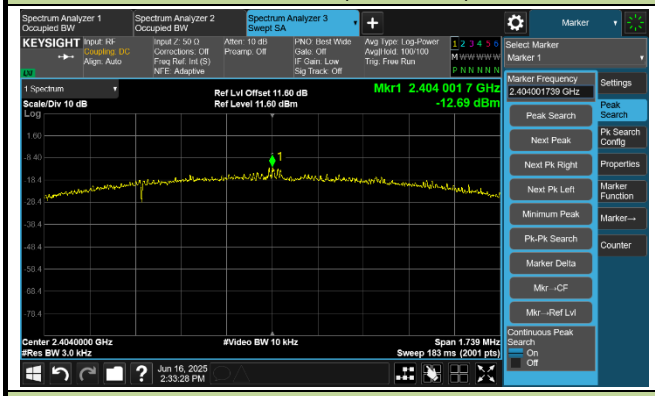
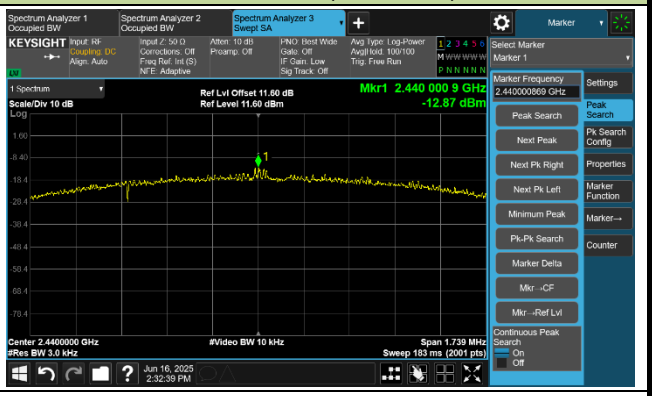
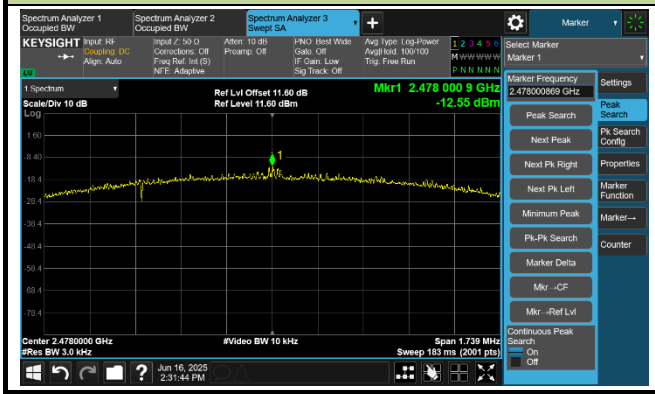


Channel 19 (2440MHz)



Channel 39 (2480MHz)



BLE-2Mbps PSD	
Channel 01 (2404MHz)	Channel 19 (2440MHz)
	
Channel 38 (2478MHz)	
	

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

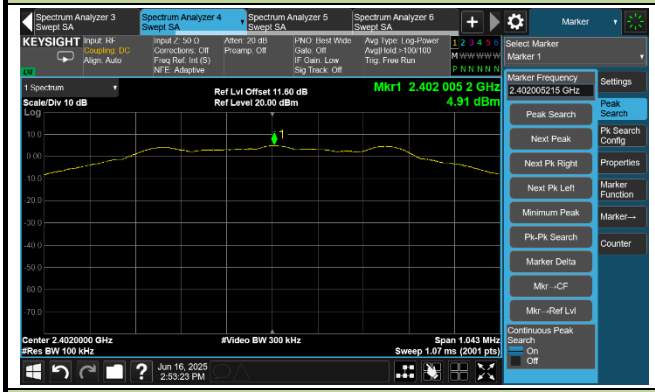
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-06-16		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1Mbps	00	2402	20	Pass
BLE	1Mbps	19	2440	20	Pass
BLE	1Mbps	39	2480	20	Pass
BLE	2Mbps	01	2404	20	Pass
BLE	2Mbps	19	2440	20	Pass
BLE	2Mbps	38	2478	20	Pass

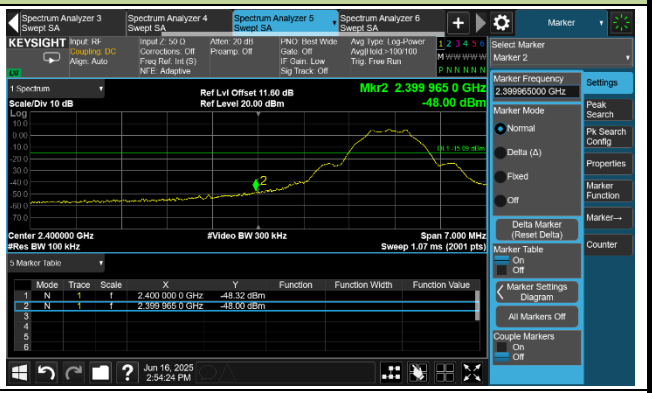
BLE-1Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

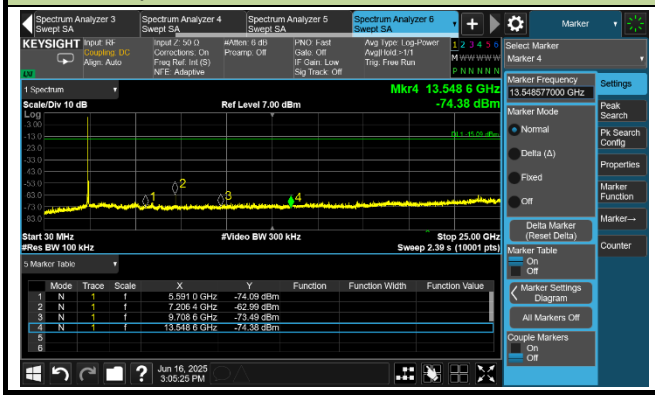
100kHz PSD Reference Level



Low Band Edge

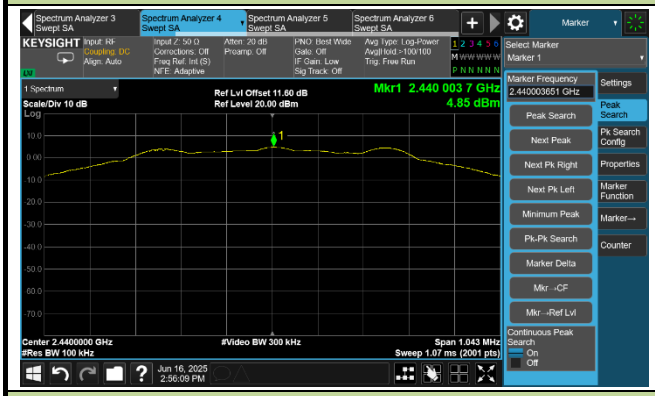


Spurious Emission 30MHz ~ 25GHz

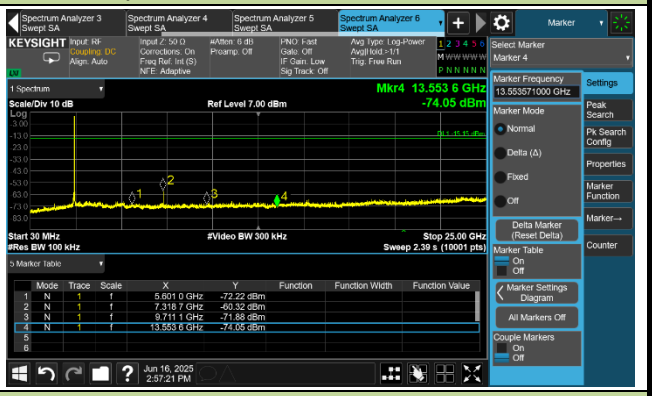


Channel 19 (2440MHz)

100kHz PSD Reference Level

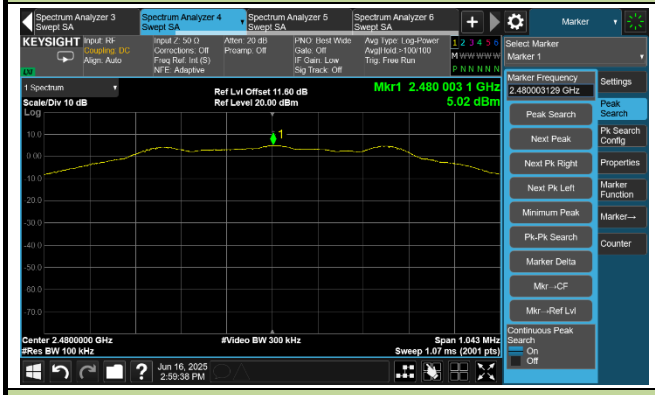


Spurious Emission 30MHz ~ 25GHz

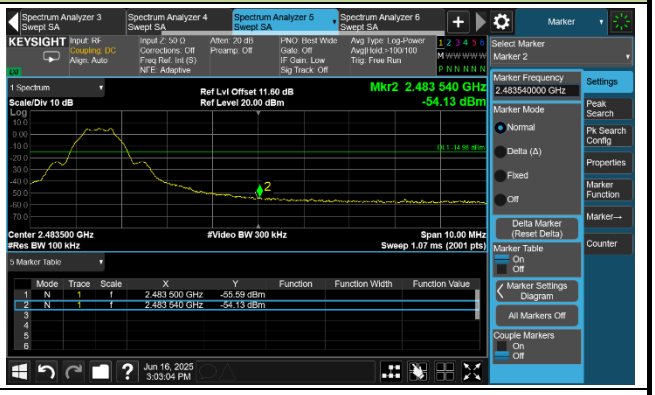


Channel 39 (2480MHz)

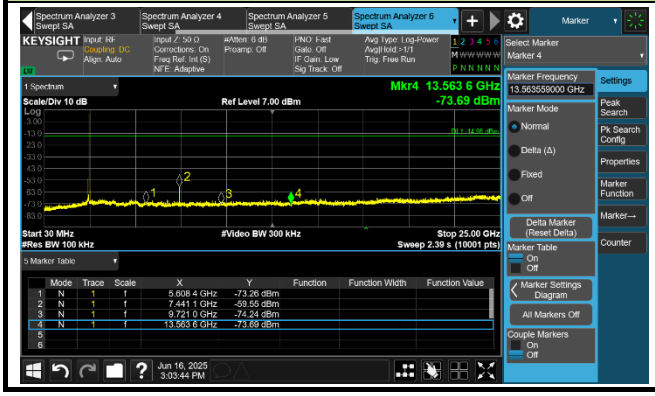
100kHz PSD Reference Level



High Band Edge



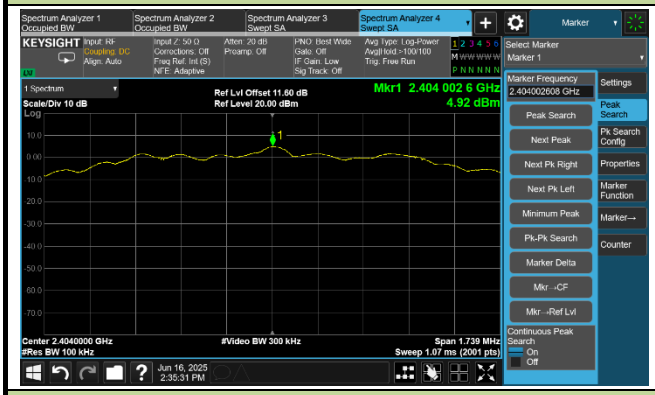
Spurious Emission 30MHz ~ 25GHz



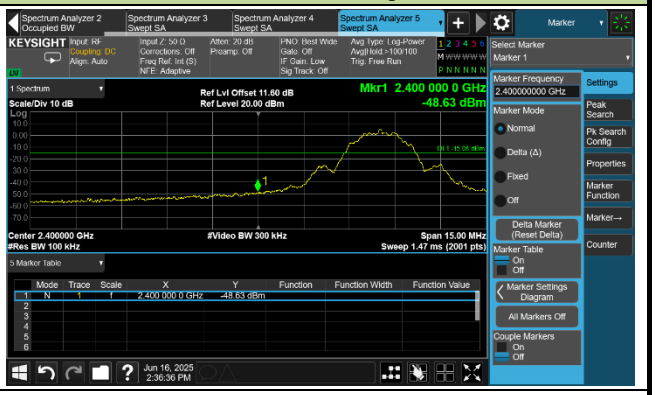
BLE-2Mbps Out-of-Band Emissions

Channel 01 (2404MHz)

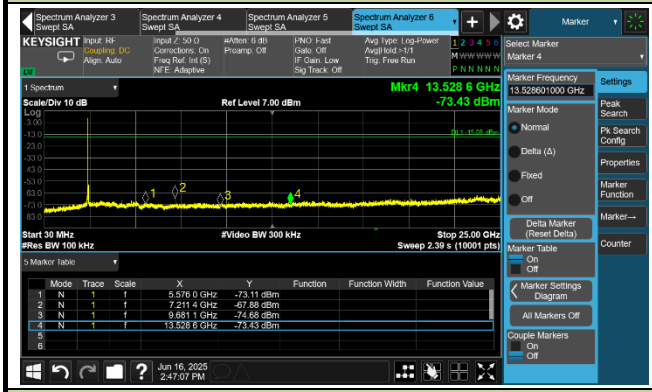
100kHz PSD Reference Level



Low Band Edge

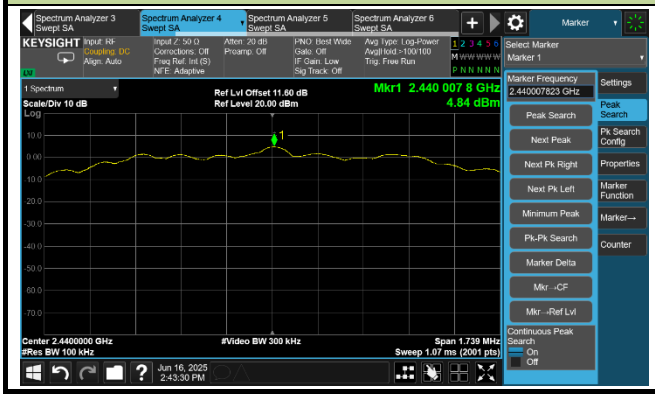


Spurious Emission 30MHz ~ 25GHz

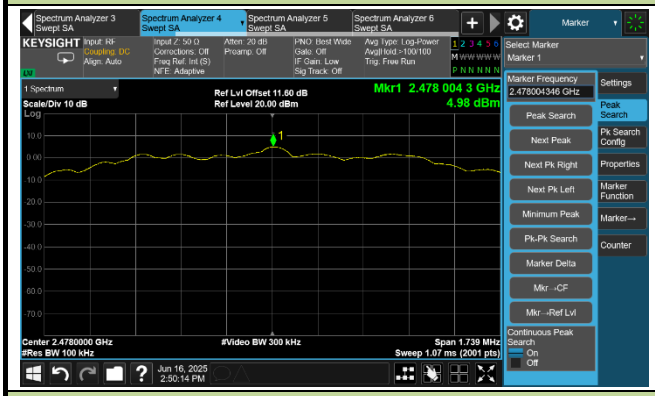
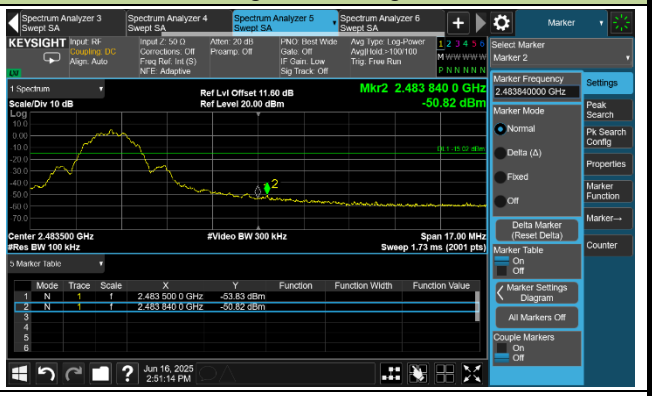
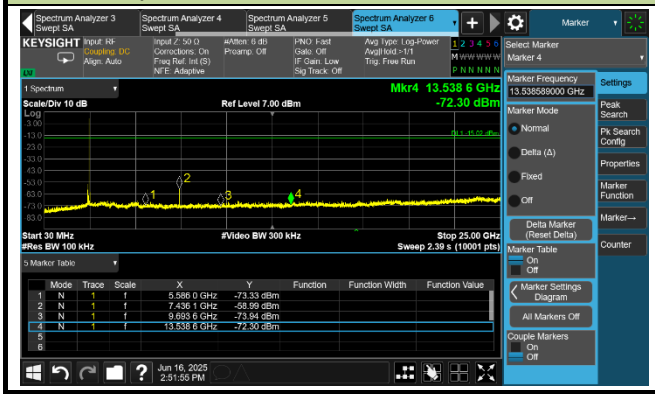


Channel 19 (2440MHz)

100kHz PSD Reference Level



Spurious Emission 30MHz ~ 25GHz

Channel 38 (2478MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

A.6 Radiated Spurious Emission Test Result

Test Site	WZ-AC2	Test Engineer	Lucas Wang
Test Date	2025-06-20	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	4196.00	40.70	0.71	41.41	74.00	-32.59	Peak	Horizontal
	11618.20	30.68	16.30	46.98	74.00	-27.02	Peak	Horizontal
	17930.30	18.34	28.42	46.76	54.00	-7.24	Average	Horizontal
	17930.30	30.48	28.42	58.90	74.00	-15.10	Peak	Horizontal
	4947.40	33.94	2.81	36.75	74.00	-37.25	Peak	Vertical
	11113.30	30.59	16.07	46.66	74.00	-27.34	Peak	Vertical
	17848.70	18.19	28.54	46.73	54.00	-7.27	Average	Vertical
	17848.70	30.27	28.54	58.81	74.00	-15.19	Peak	Vertical
19	4082.10	35.41	-0.19	35.22	74.00	-38.78	Peak	Horizontal
	11880.00	30.52	16.09	46.61	74.00	-27.39	Peak	Horizontal
	17743.30	17.97	27.40	45.37	54.00	-8.63	Average	Horizontal
	17743.30	30.64	27.40	58.04	74.00	-15.96	Peak	Horizontal
	4819.90	33.94	3.17	37.11	74.00	-36.89	Peak	Vertical
	11771.20	30.47	16.11	46.58	74.00	-27.42	Peak	Vertical
	17964.30	18.04	28.35	46.39	54.00	-7.61	Average	Vertical
	17964.30	30.22	28.35	58.57	74.00	-15.43	Peak	Vertical
39	4352.40	38.28	1.06	39.34	74.00	-34.66	Peak	Horizontal
	12141.80	30.88	16.19	47.07	74.00	-26.93	Peak	Horizontal
	17943.90	18.01	28.58	46.59	54.00	-7.41	Average	Horizontal
	17943.90	30.93	28.58	59.51	74.00	-14.49	Peak	Horizontal
	4945.70	34.64	2.83	37.47	74.00	-36.53	Peak	Vertical
	11516.20	30.49	16.38	46.87	74.00	-27.13	Peak	Vertical
	17966.00	18.26	28.30	46.56	54.00	-7.44	Average	Vertical
	17966.00	31.07	28.30	59.37	74.00	-14.63	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-AC2	Test Engineer	Lucas Wang
Test Date	2025-06-20	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.		

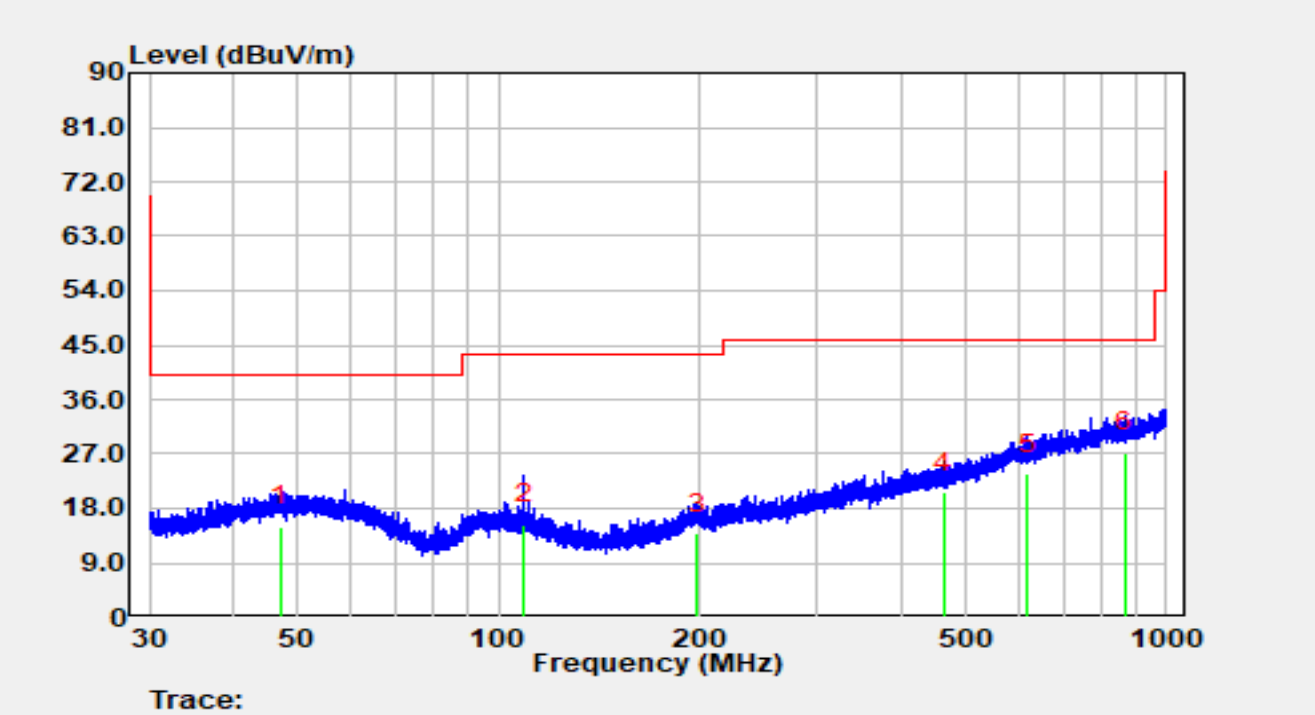
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4196.00	39.94	0.71	40.65	74.00	-33.35	Peak	Horizontal
	11113.30	31.34	16.07	47.41	74.00	-26.59	Peak	Horizontal
	17949.00	18.13	28.64	46.77	54.00	-7.23	Average	Horizontal
	17949.00	30.24	28.64	58.88	74.00	-15.12	Peak	Horizontal
	4981.40	34.41	2.88	37.29	74.00	-36.71	Peak	Vertical
	11113.30	31.40	16.07	47.47	74.00	-26.53	Peak	Vertical
	17949.00	18.08	28.64	46.72	54.00	-7.28	Average	Vertical
	17949.00	29.58	28.64	58.22	74.00	-15.78	Peak	Vertical
19	4272.50	36.80	0.83	37.63	74.00	-36.37	Peak	Horizontal
	11013.00	30.64	15.84	46.48	74.00	-27.52	Peak	Horizontal
	17952.40	17.95	28.58	46.53	54.00	-7.47	Average	Horizontal
	17952.40	30.08	28.58	58.66	74.00	-15.34	Peak	Horizontal
	4925.30	33.89	2.94	36.83	74.00	-37.17	Peak	Vertical
	11296.90	30.82	16.23	47.05	74.00	-26.95	Peak	Vertical
	17945.60	17.99	28.60	46.59	54.00	-7.41	Average	Vertical
	17945.60	29.92	28.60	58.52	74.00	-15.48	Peak	Vertical
38	4350.70	40.00	1.04	41.04	74.00	-32.96	Peak	Horizontal
	11601.20	31.42	16.38	47.80	74.00	-26.20	Peak	Horizontal
	17848.70	17.86	28.54	46.40	54.00	-7.60	Average	Horizontal
	17848.70	29.97	28.54	58.51	74.00	-15.49	Peak	Horizontal
	4811.40	34.58	3.01	37.59	74.00	-36.41	Peak	Vertical
	11614.80	30.87	16.32	47.19	74.00	-26.81	Peak	Vertical
	17921.80	17.94	28.13	46.07	54.00	-7.93	Average	Vertical
	17921.80	29.90	28.13	58.03	74.00	-15.97	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:

Site	WZ-AC2	Test Date	2025-06-30
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_Part 15.209_RSE (3m)	Test Engineer	Lucas Wang
Factor	VULB 9162_00047	Polarity	Horizontal
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 1M at 2402MHz		

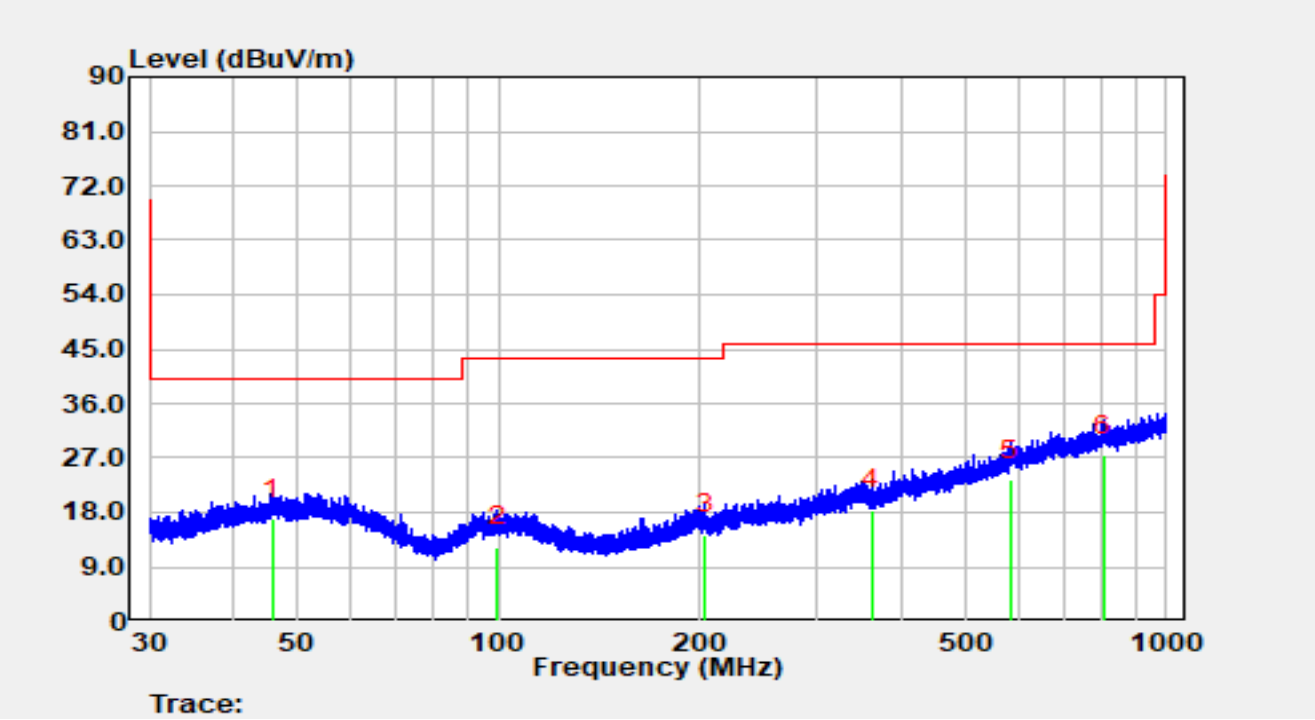


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		47.04	-5.56	20.59	15.03	-24.97	40.00	QP
2		109.33	-2.96	18.34	15.38	-28.12	43.50	QP
3		198.03	-5.22	19.13	13.91	-29.59	43.50	QP
4		463.48	-3.61	24.31	20.70	-25.30	46.00	QP
5		618.54	-3.58	27.31	23.73	-22.27	46.00	QP
6	*	868.22	-3.59	30.81	27.22	-18.78	46.00	QP

Notes:

1. " * " indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. The amplitude of the radiated emissions in the frequency range from 9kHz to 30MHz and 18GHz to 25GHz is close to the ambient noise level, and all emissions are at least 20 dB below the applicable limit. Therefore, the data is not presented in this report.

Site	WZ-AC2	Test Date	2025-06-30
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_Part 15.209_RSE (3m)	Test Engineer	Lucas Wang
Factor	VULB 9162_00047	Polarity	Vertical
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 1M at 2402MHz		



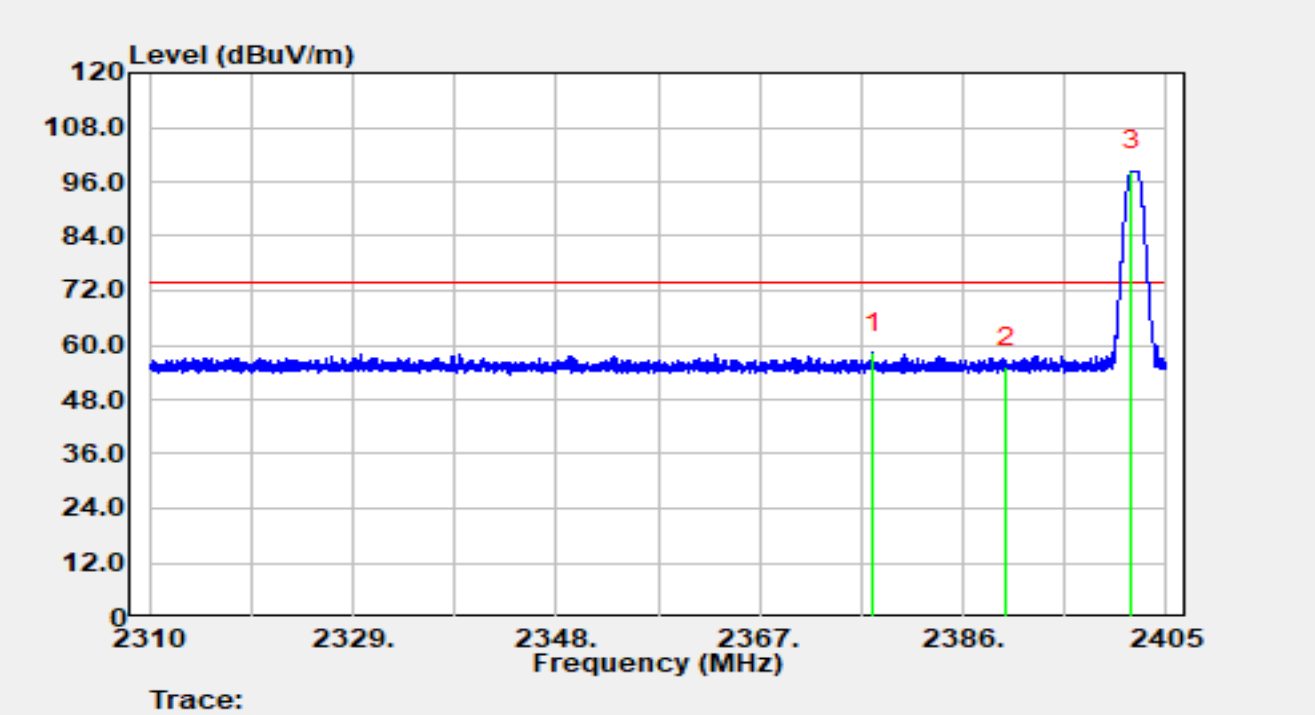
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		45.74	-3.49	20.43	16.94	-23.06	40.00	QP
2		99.56	-6.31	18.67	12.36	-31.14	43.50	QP
3		203.88	-4.30	18.61	14.31	-29.19	43.50	QP
4		362.60	-3.59	22.05	18.46	-27.54	46.00	QP
5		582.74	-3.72	27.13	23.41	-22.59	46.00	QP
6	*	803.48	-3.50	30.84	27.34	-18.66	46.00	QP

Notes:

1. " * " indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. The amplitude of the radiated emissions in the frequency range from 9kHz to 30MHz and 18GHz to 25GHz is close to the ambient noise level, and all emissions are at least 20 dB below the applicable limit. Therefore, the data is not presented in this report.

A.7 Radiated Restricted Band Edge Test Result

Site	WZ-AC2	Test Date	2025-06-20
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 1M at 2402MHz		

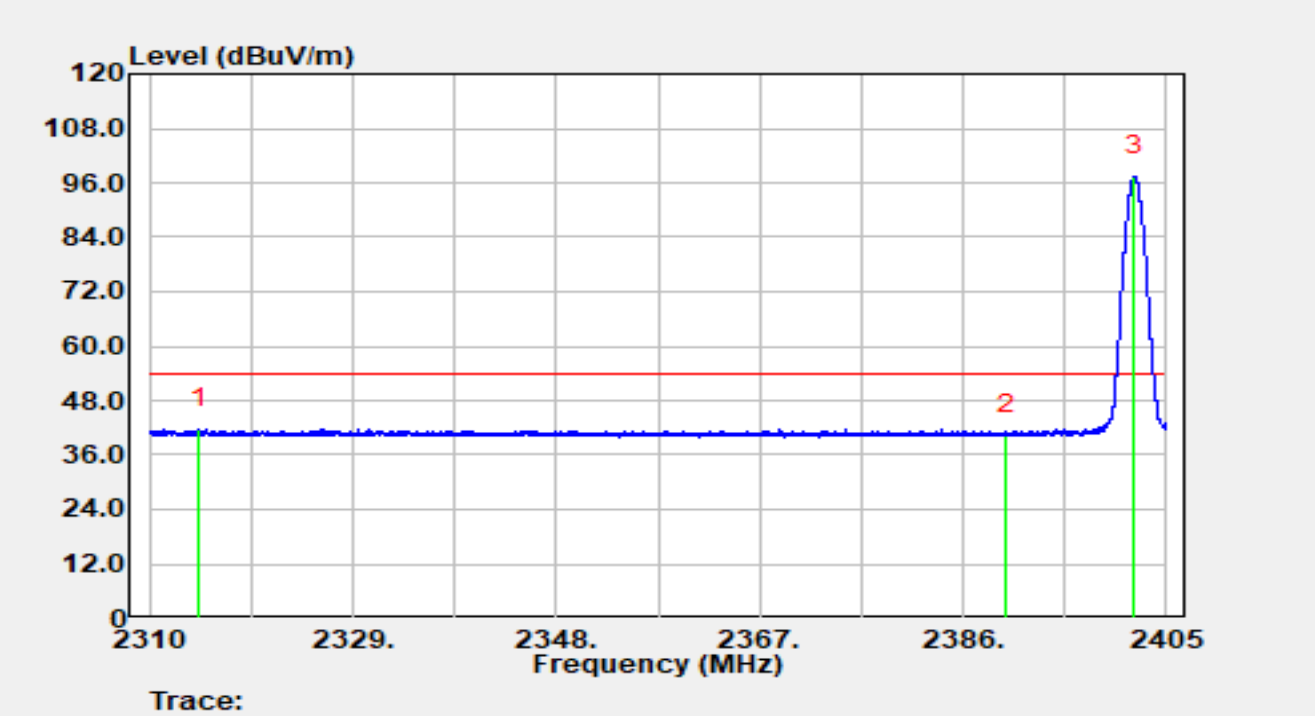


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2377.57	26.91	31.45	58.36	-15.64	74.00	Peak
2		2390.00	23.68	31.43	55.11	-18.89	74.00	Peak
3		2401.71	66.99	31.41	98.40	N/A	N/A	Peak

Notes:

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

Site	WZ-AC2	Test Date	2025-06-20
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 1M at 2402MHz		

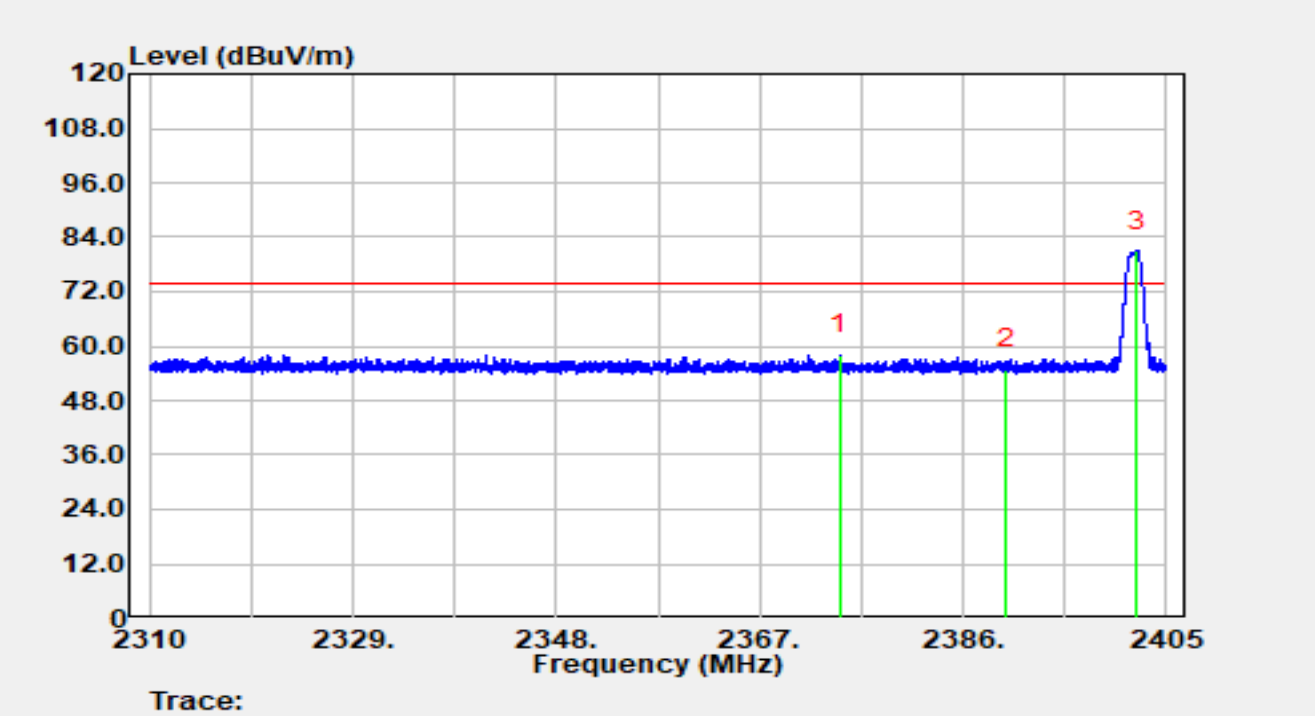


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2314.64	10.21	31.65	41.86	-12.14	54.00	Average
2		2390.00	8.92	31.43	40.35	-13.65	54.00	Average
3		2402.03	66.11	31.41	97.52	N/A	N/A	Average

Notes:

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

Site	WZ-AC2	Test Date	2025-06-20
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 1M at 2402MHz		

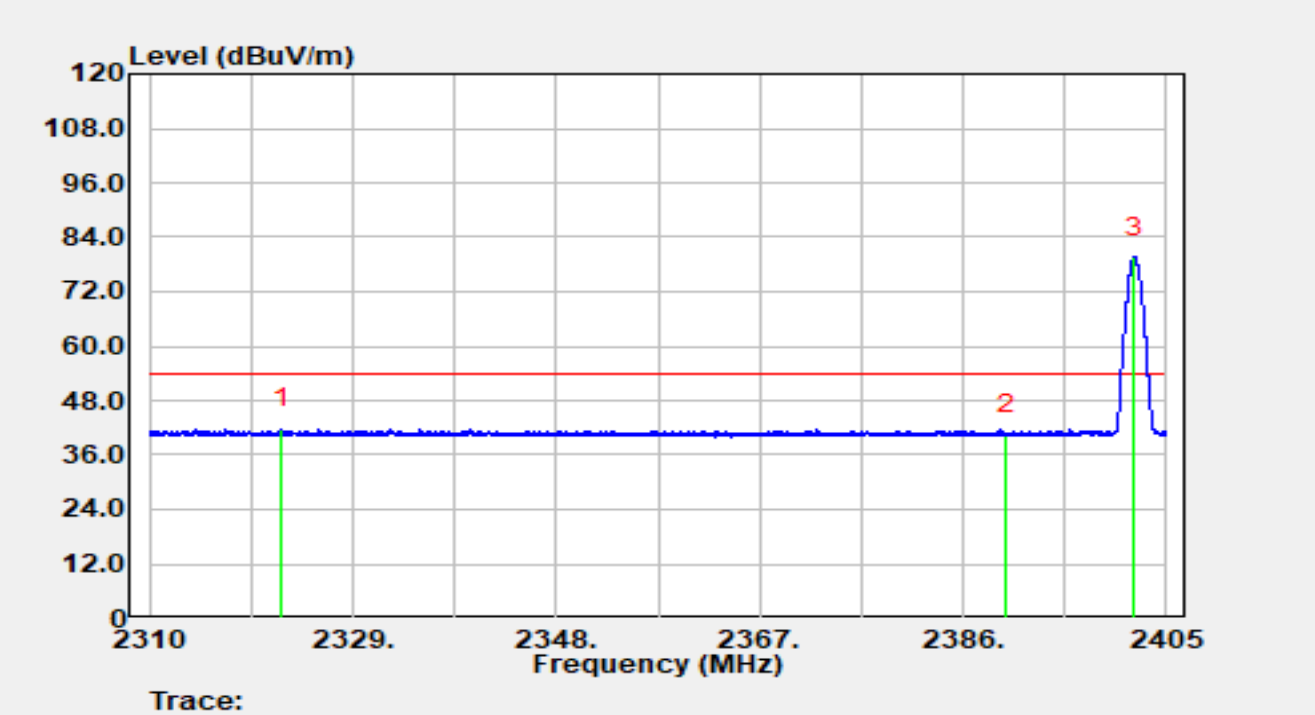


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2374.54	26.64	31.46	58.10	-15.90	74.00	Peak
2		2390.00	23.41	31.43	54.83	-19.17	74.00	Peak
3		2402.29	49.45	31.41	80.86	N/A	N/A	Peak

Notes:

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

Site	WZ-AC2	Test Date	2025-06-20
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 1M at 2402MHz		

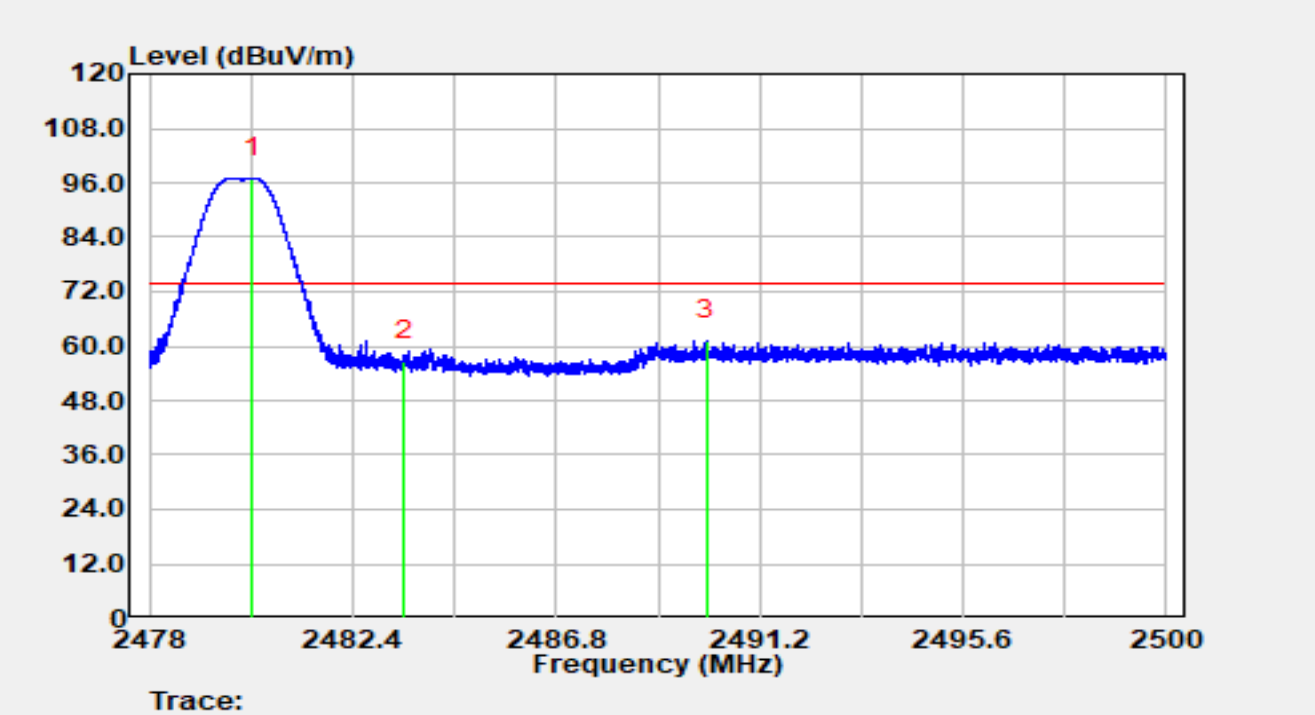


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2322.32	10.05	31.63	41.68	-12.32	54.00	Average
2		2390.00	8.98	31.43	40.41	-13.59	54.00	Average
3		2402.00	48.20	31.41	79.61	N/A	N/A	Average

Notes:

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

Site	WZ-AC2	Test Date	2025-06-20
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 1M at 2480MHz		

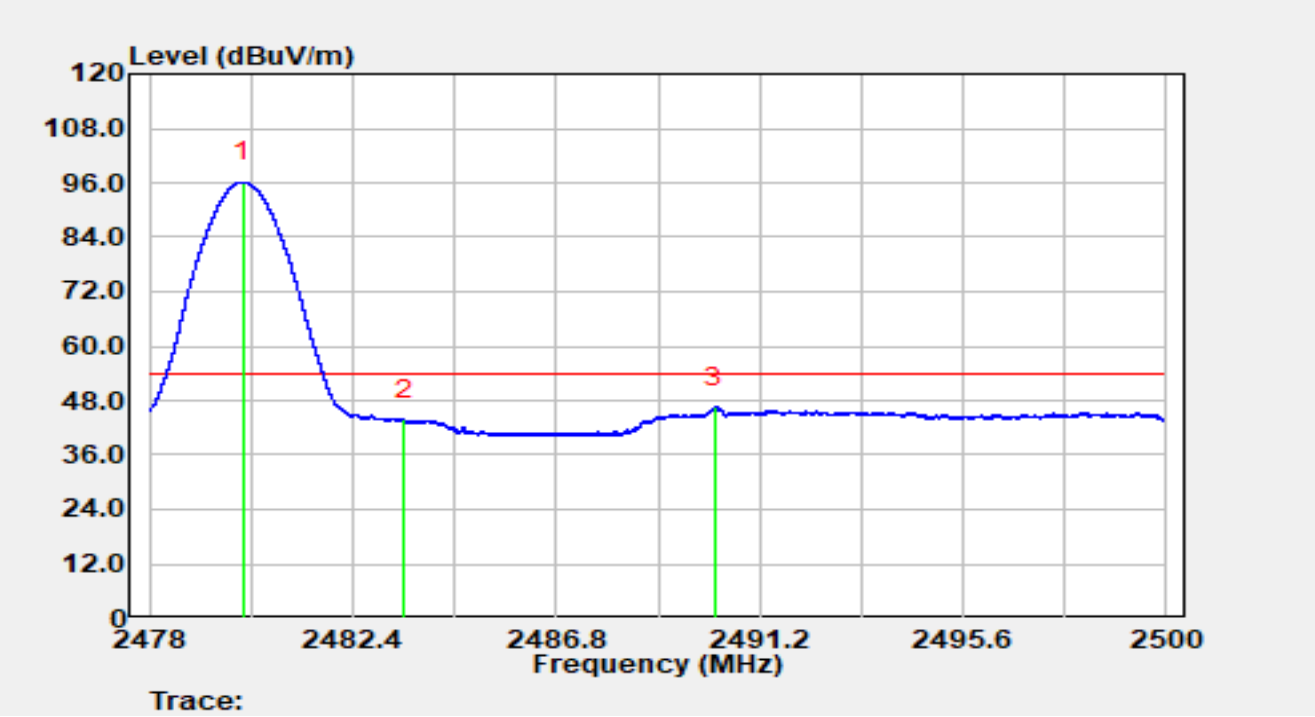


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.23	65.73	31.32	97.05	N/A	N/A	Peak
2		2483.50	25.49	31.32	56.81	-17.19	74.00	Peak
3	*	2490.04	29.96	31.31	61.27	-12.73	74.00	Peak

Notes:

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

Site	WZ-AC2	Test Date	2025-06-20
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 1M at 2480MHz		

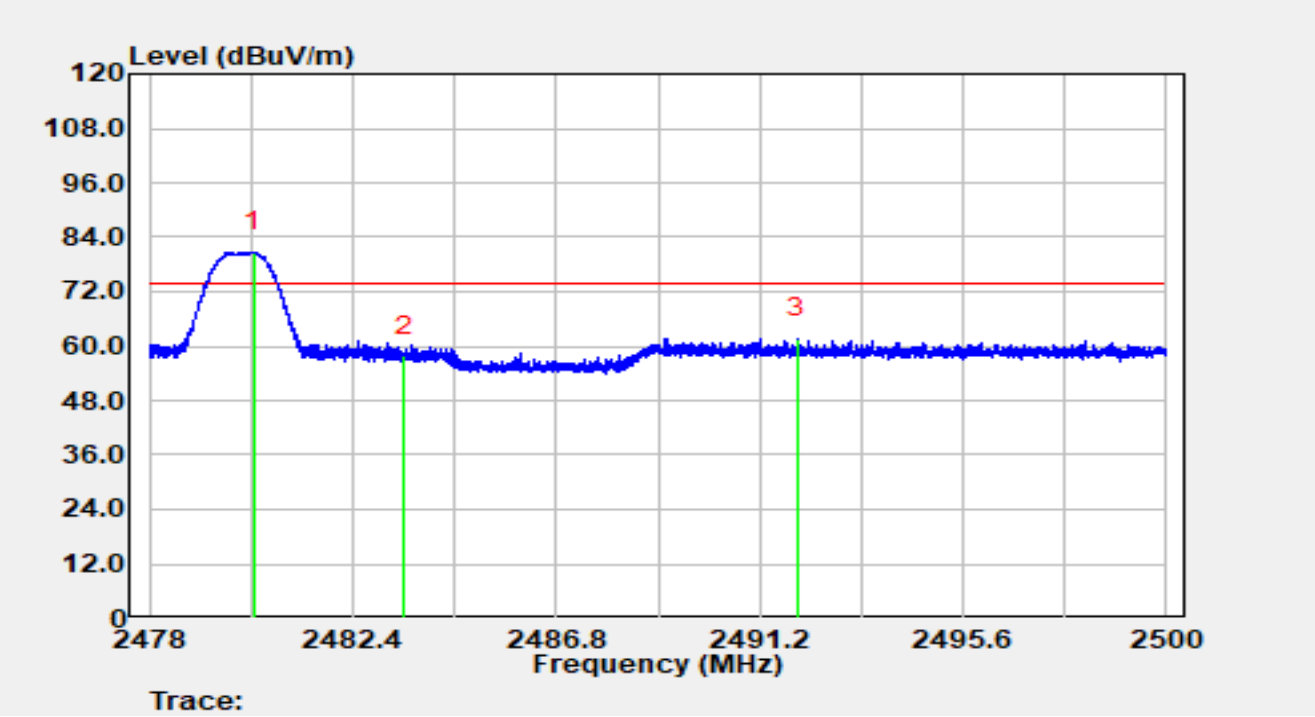


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.02	64.82	31.33	96.15	N/A	N/A	Average
2		2483.50	12.41	31.32	43.73	-10.27	54.00	Average
3	*	2490.23	15.20	31.31	46.51	-7.49	54.00	Average

Notes:

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

Site	WZ-AC2	Test Date	2025-06-20
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 1M at 2480MHz		

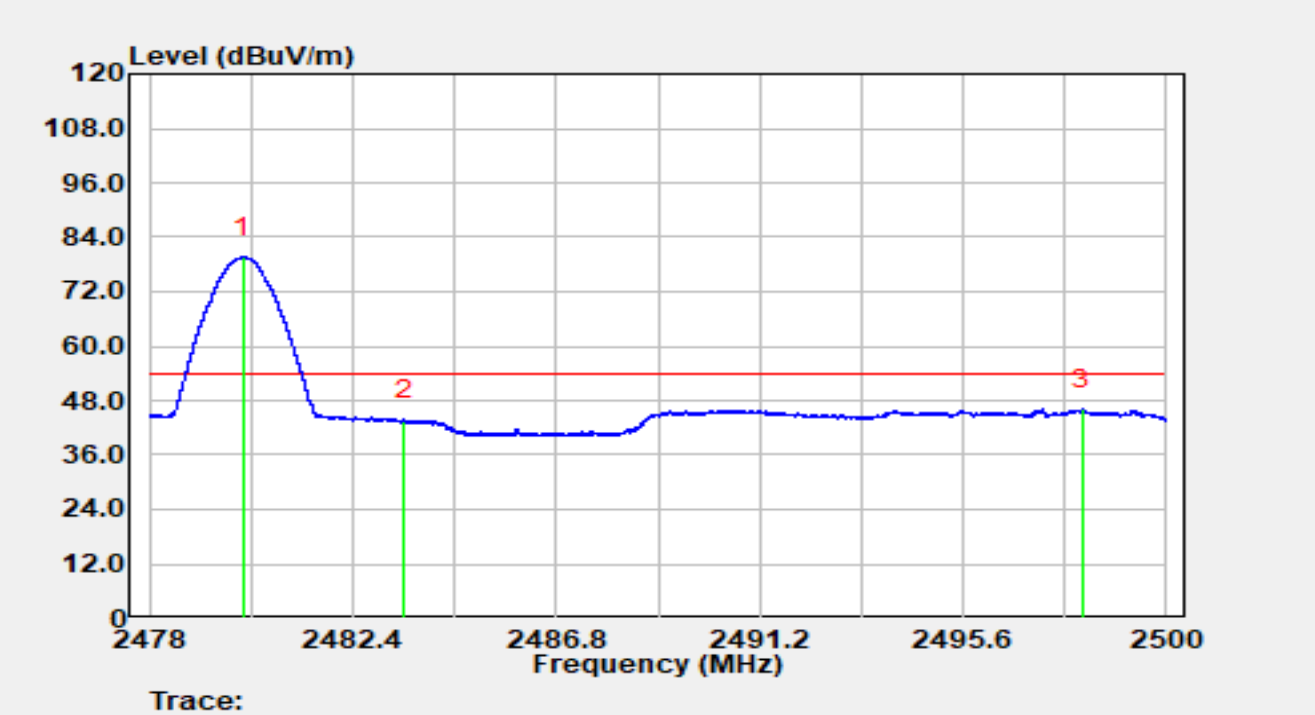


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.25	49.30	31.32	80.63	N/A	N/A	Peak
2		2483.50	26.62	31.32	57.94	-16.06	74.00	Peak
3	*	2492.01	30.30	31.31	61.61	-12.39	74.00	Peak

Notes:

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

Site	WZ-AC2	Test Date	2025-06-20
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 1M at 2480MHz		

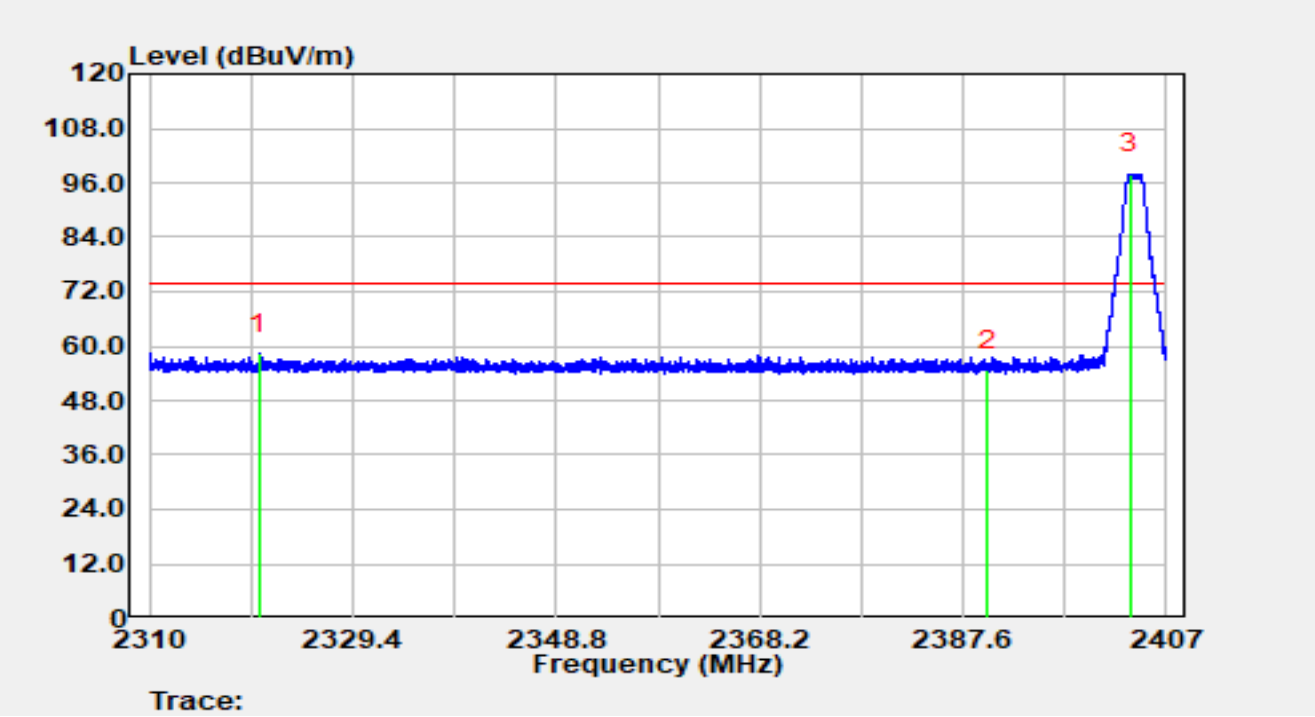


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.04	48.24	31.33	79.56	N/A	N/A	Average
2		2483.50	12.26	31.32	43.58	-10.42	54.00	Average
3	*	2498.19	14.69	31.31	46.00	-8.00	54.00	Average

Notes:

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

Site	WZ-AC2	Test Date	2025-06-26
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 2M at 2404MHz		

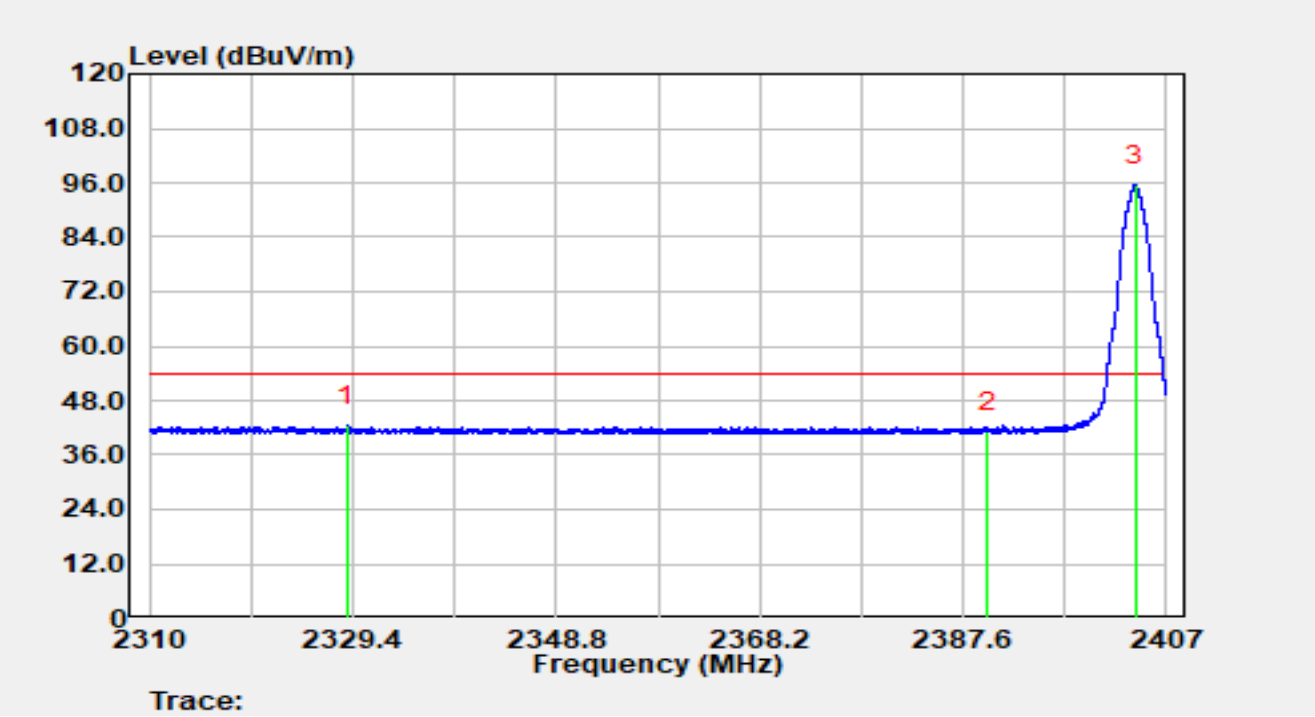


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2320.50	26.58	31.63	58.22	-15.78	74.00	Peak
2		2390.00	23.16	31.43	54.59	-19.41	74.00	Peak
3		2403.55	66.50	31.41	97.91	N/A	N/A	Peak

Notes:

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

Site	WZ-AC2	Test Date	2025-06-26
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 2M at 2404MHz		

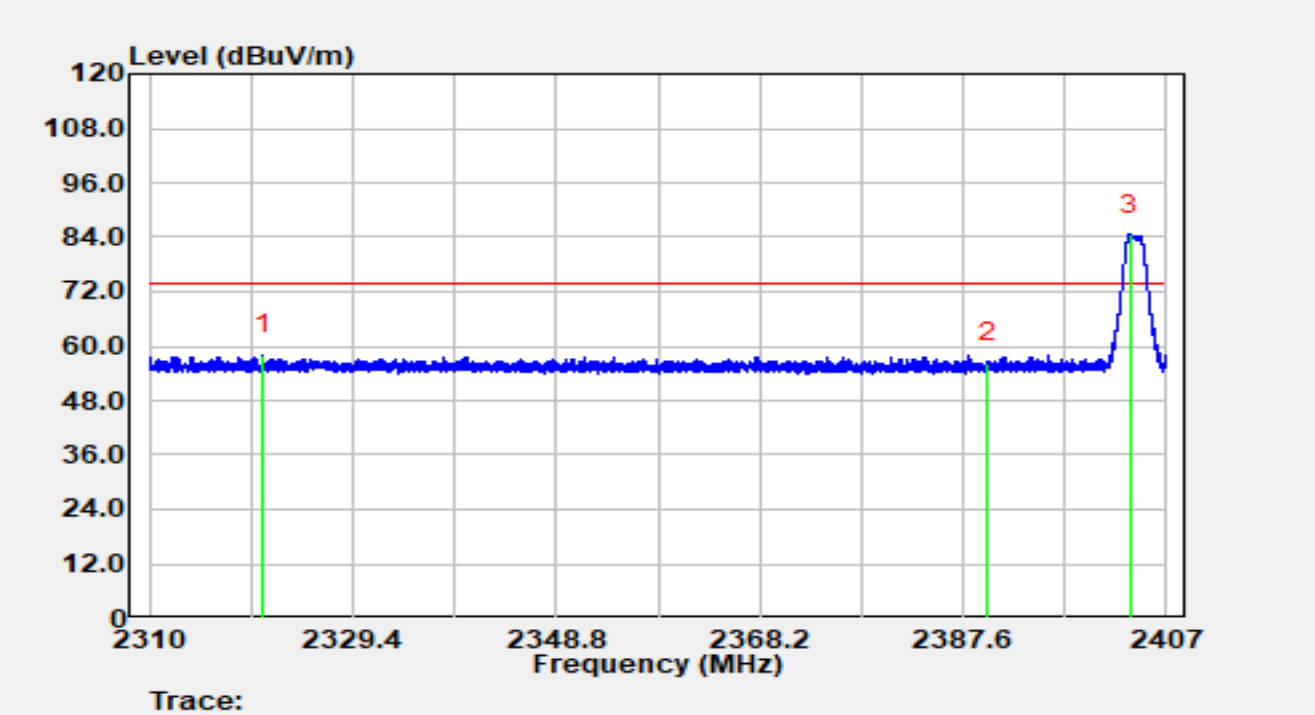


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2328.90	10.78	31.61	42.40	-11.60	54.00	Average
2		2390.00	9.76	31.43	41.18	-12.82	54.00	Average
3		2404.08	64.01	31.41	95.42	N/A	N/A	Average

Notes:

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

Site	WZ-AC2	Test Date	2025-06-26
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 2M at 2404MHz		

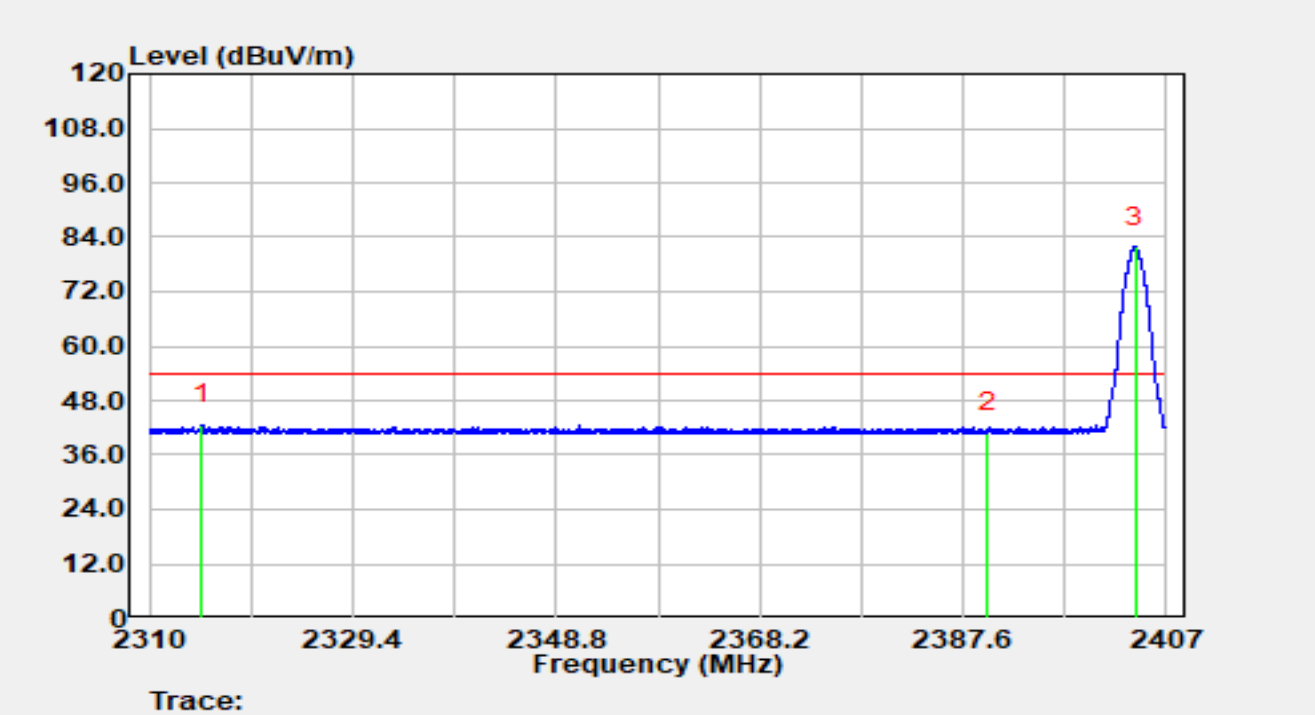


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2320.79	26.33	31.63	57.96	-16.04	74.00	Peak
2		2390.00	24.88	31.43	56.31	-17.69	74.00	Peak
3		2403.53	53.18	31.41	84.59	N/A	N/A	Peak

Notes:

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

Site	WZ-AC2	Test Date	2025-06-26
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 2M at 2404MHz		

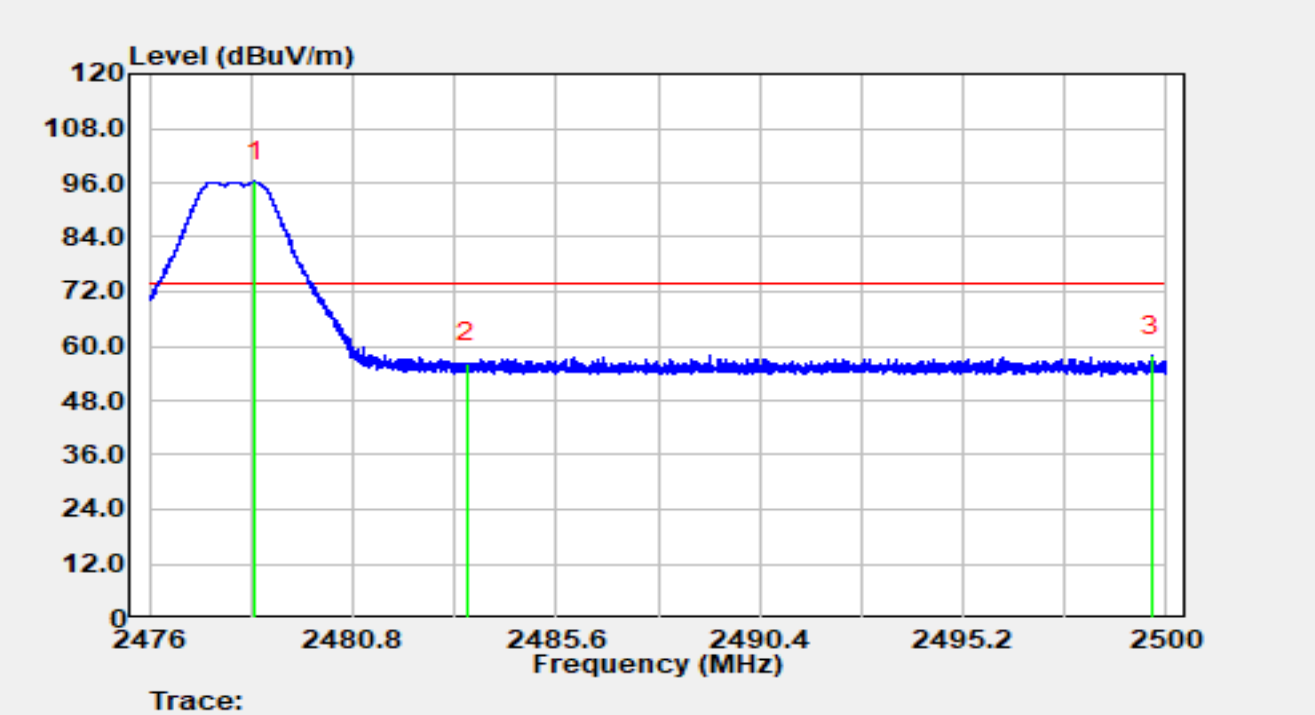


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2315.04	10.99	31.65	42.64	-11.36	54.00	Average
2		2390.00	9.47	31.43	40.90	-13.10	54.00	Average
3		2404.05	50.50	31.41	81.90	N/A	N/A	Average

Notes:

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

Site	WZ-AC2	Test Date	2025-06-26
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 2M at 2478MHz		

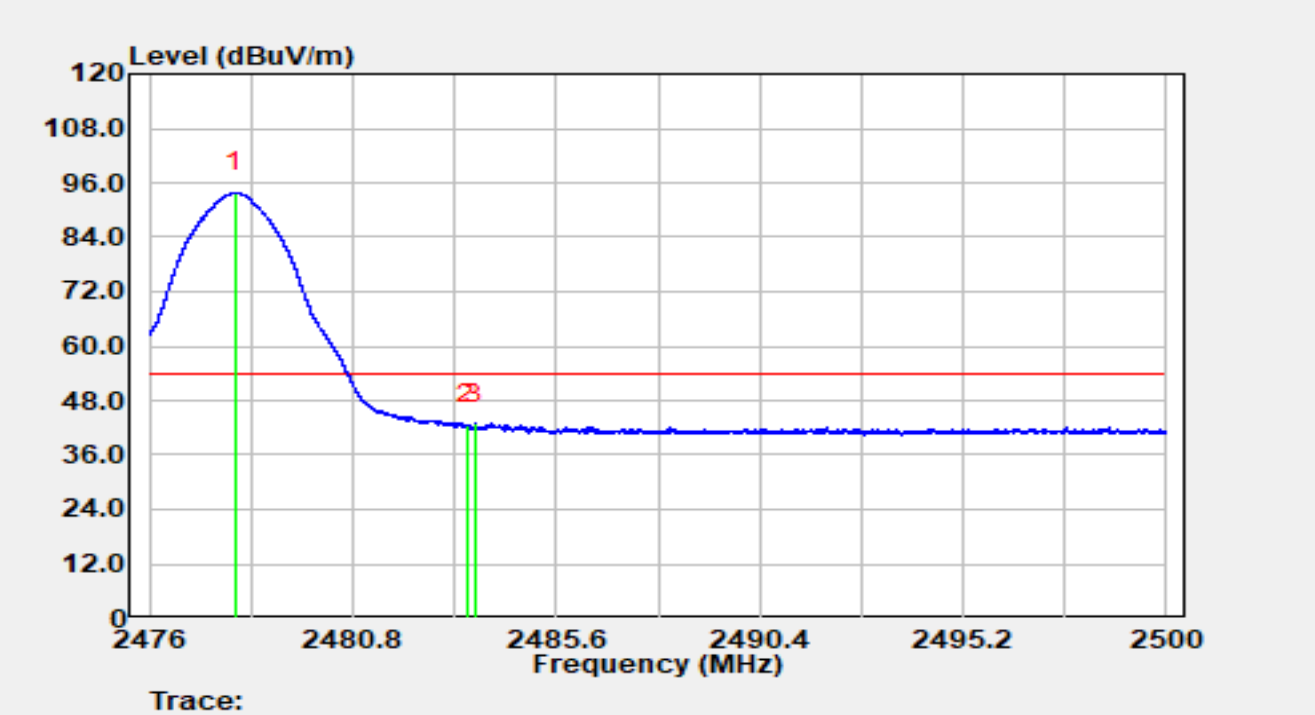


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2478.50	64.94	31.32	96.27	N/A	N/A	Peak
2		2483.50	24.88	31.32	56.20	-17.80	74.00	Peak
3	*	2499.64	26.63	31.31	57.94	-16.06	74.00	Peak

Notes:

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

Site	WZ-AC2	Test Date	2025-06-26
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 2M at 2478MHz		

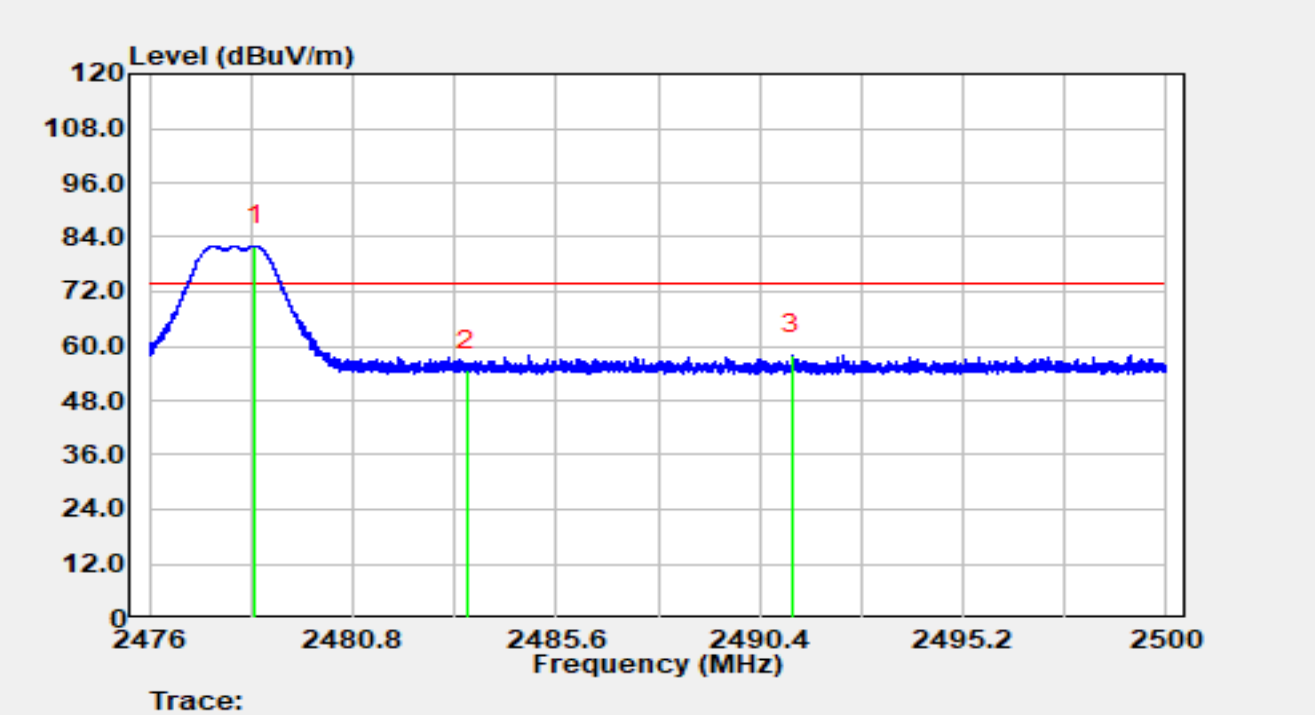


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2478.02	62.44	31.32	93.77	N/A	N/A	Average
2		2483.50	11.26	31.32	42.58	-11.42	54.00	Average
3	*	2483.68	11.70	31.32	43.02	-10.98	54.00	Average

Notes:

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

Site	WZ-AC2	Test Date	2025-06-26
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 2M at 2478MHz		

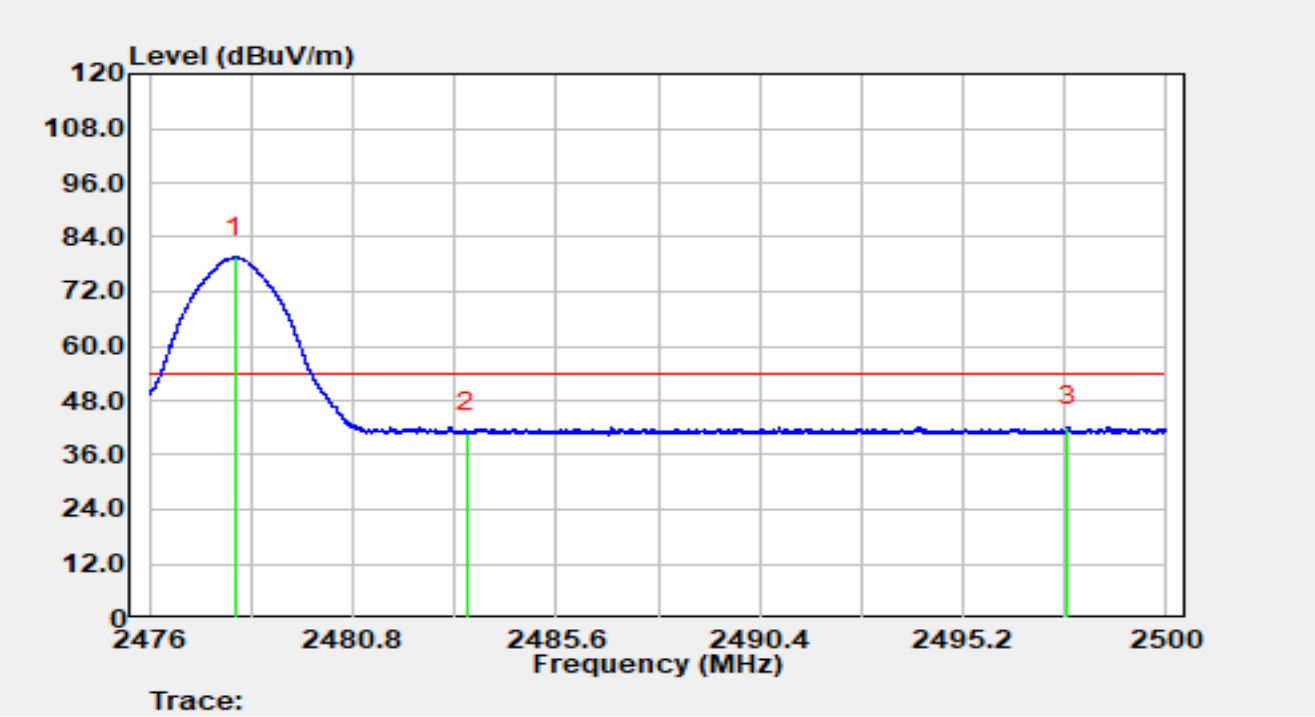


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2478.51	50.83	31.32	82.15	N/A	N/A	Peak
2		2483.50	23.27	31.32	54.59	-19.41	74.00	Peak
3	*	2491.16	26.72	31.31	58.03	-15.97	74.00	Peak

Notes:

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

Site	WZ-AC2	Test Date	2025-06-26
Temperature	25.9 °C	Humidity	40.4 %
Limit	FCC_2.4G_RE (3m)	Test Engineer	Lucas Wang
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	Plug-on Wireless Transmitter	Test Voltage	By Battery
Test Mode	Transmit by BLE 2M at 2478MHz		



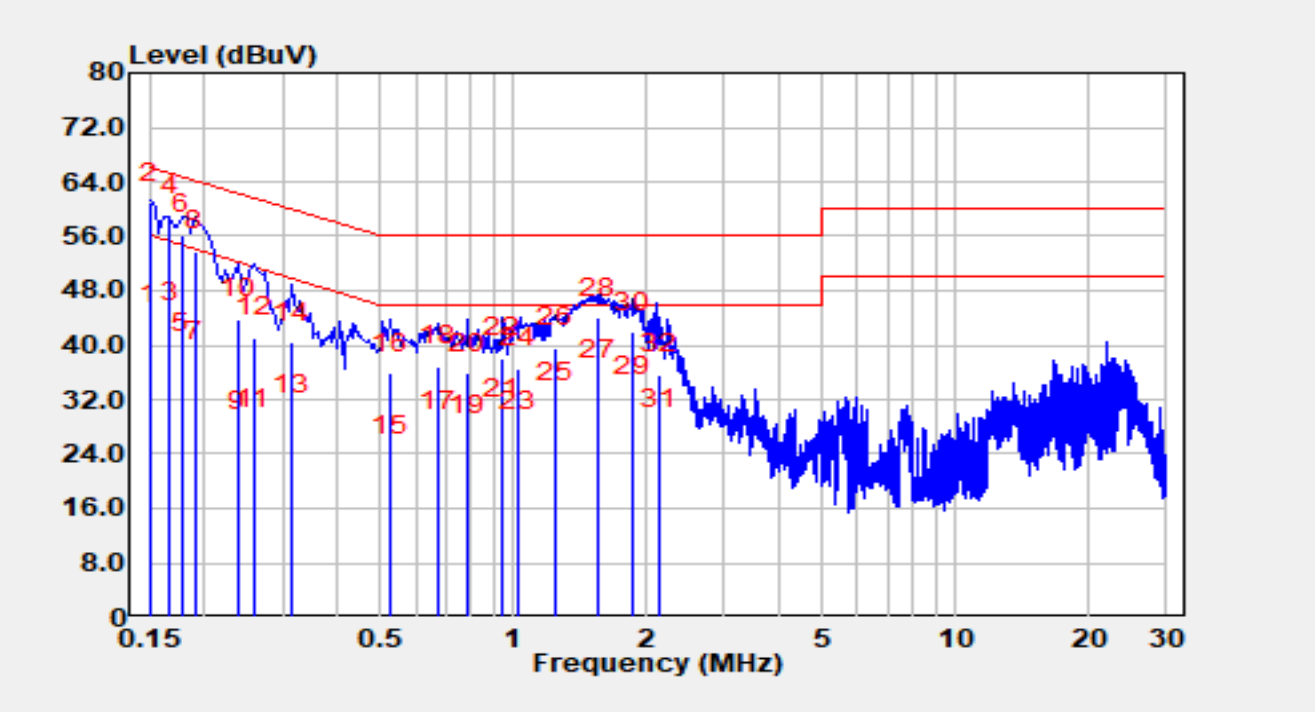
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2478.03	48.23	31.32	79.55	N/A	N/A	Average
2		2483.50	9.63	31.32	40.95	-13.05	54.00	Average
3	*	2497.67	10.81	31.31	42.12	-11.88	54.00	Average

Notes:

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

A.8 AC Conducted Emissions Test Result

Site	WZ-SR2	Test Date	2025-06-25
Temperature	23.1 °C	Humidity	54.6 %
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
Factor	ENV216_101683_L1_Filter Off_C	Polarity	Line
EUT	Plug-on Wireless Transmitter	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE 1M at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.15	33.50	9.67	43.17	-12.83	56.00	Average
2	*	0.15	51.20	9.67	60.87	-5.13	66.00	QP
3		0.17	33.60	9.67	43.27	-11.83	55.11	Average
4		0.17	49.40	9.67	59.07	-6.03	65.11	QP
5		0.18	29.10	9.68	38.78	-15.85	54.63	Average
6		0.18	46.60	9.68	56.28	-8.35	64.63	QP
7		0.19	27.90	9.68	37.58	-16.45	54.04	Average
8		0.19	44.10	9.68	53.78	-10.25	64.04	QP
9		0.24	17.70	9.69	27.39	-24.77	52.17	Average
10		0.24	34.20	9.69	43.89	-18.27	62.17	QP
11		0.26	18.00	9.70	27.70	-23.80	51.50	Average
12		0.26	31.50	9.70	41.20	-20.30	61.50	QP
13		0.32	20.10	9.73	29.83	-19.98	49.81	Average

14		0.32	30.60	9.73	40.33	-19.48	59.81	QP
15		0.53	14.00	9.81	23.81	-22.19	46.00	Average
16		0.53	26.00	9.81	35.81	-20.19	56.00	QP
17		0.67	17.40	9.89	27.29	-18.71	46.00	Average
18		0.67	27.00	9.89	36.89	-19.11	56.00	QP
19		0.79	16.90	9.93	26.83	-19.17	46.00	Average
20		0.79	25.90	9.93	35.83	-20.17	56.00	QP
21		0.95	19.10	10.01	29.11	-16.89	46.00	Average
22		0.95	28.10	10.01	38.11	-17.89	56.00	QP
23		1.03	17.30	10.03	27.33	-18.67	46.00	Average
24		1.03	26.50	10.03	36.53	-19.47	56.00	QP
25		1.24	21.60	10.03	31.63	-14.37	46.00	Average
26		1.24	29.60	10.03	39.63	-16.37	56.00	QP
27		1.56	24.90	10.04	34.94	-11.06	46.00	Average
28		1.56	34.00	10.04	44.04	-11.96	56.00	QP
29		1.85	22.40	10.05	32.45	-13.55	46.00	Average
30		1.85	31.90	10.05	41.95	-14.05	56.00	QP
31		2.13	17.60	10.05	27.65	-18.35	46.00	Average
32		2.13	25.70	10.05	35.75	-20.25	56.00	QP

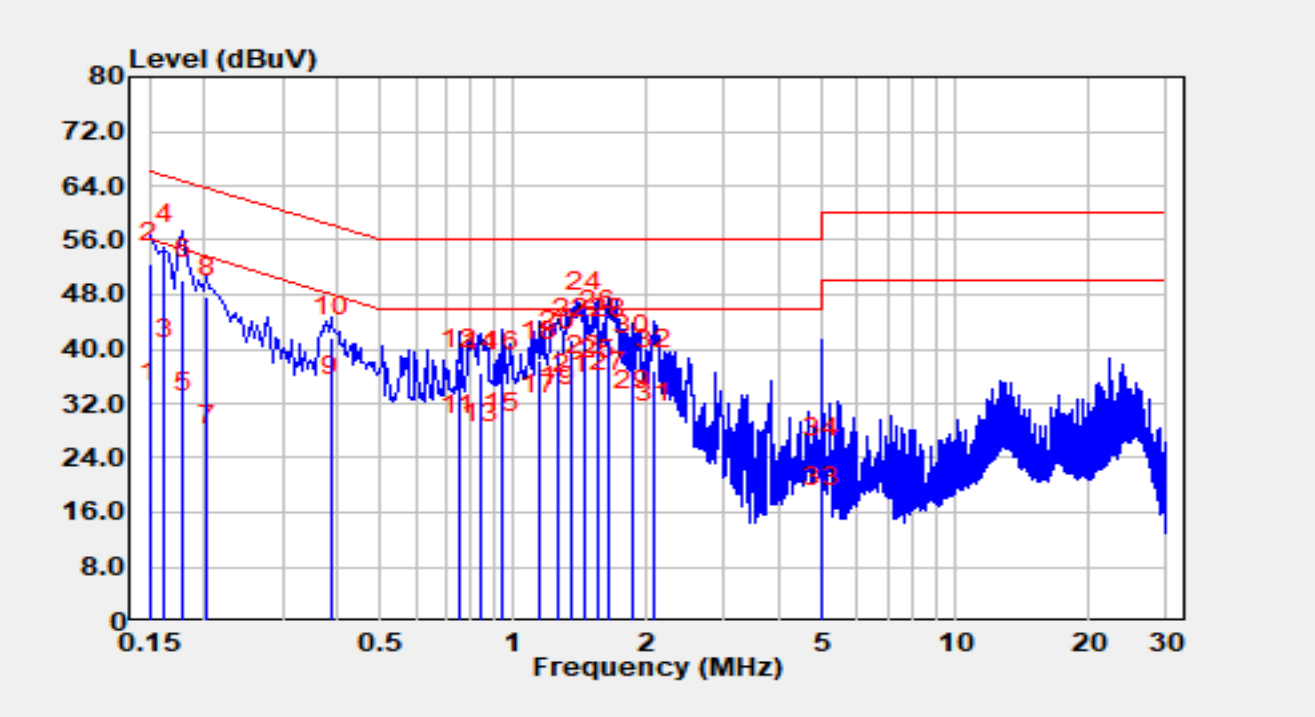
Notes:

1. " * " indicates the worst-case emission level observed during the measurement.

2. C.F (dB) = LISN Factor (dB) + Cable Loss (dB).

3. Measurement (dBμV) = Reading (dBμV) + C.F (dB).

Site	WZ-SR2	Test Date	2025-06-25
Temperature	23.1 °C	Humidity	54.6 %
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
Factor	ENV216_101683_N_Filter Off_C	Polarity	Neutral
EUT	Plug-on Wireless Transmitter	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE 1M at 2402MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.15	22.50	9.79	32.29	-23.71	56.00	Average
2		0.15	42.80	9.79	52.59	-13.41	66.00	QP
3		0.16	28.60	9.79	38.39	-16.97	55.36	Average
4	*	0.16	45.60	9.79	55.39	-9.97	65.36	QP
5		0.18	20.70	9.80	30.50	-24.04	54.53	Average
6		0.18	40.40	9.80	50.20	-14.34	64.53	QP
7		0.20	15.90	9.80	25.70	-27.83	53.53	Average
8		0.20	37.90	9.80	47.70	-15.83	63.53	QP
9		0.39	23.20	9.86	33.06	-15.09	48.15	Average
10		0.39	31.90	9.86	41.76	-16.39	58.15	QP
11		0.75	17.20	10.01	27.21	-18.79	46.00	Average
12		0.75	27.00	10.01	37.01	-18.99	56.00	QP
13		0.85	16.10	10.06	26.16	-19.84	46.00	Average
14		0.85	26.50	10.06	36.56	-19.44	56.00	QP

15		0.95	17.40	10.11	27.51	-18.49	46.00	Average
16		0.95	26.70	10.11	36.81	-19.19	56.00	QP
17		1.14	20.20	10.13	30.33	-15.67	46.00	Average
18		1.14	28.20	10.13	38.33	-17.67	56.00	QP
19		1.26	21.50	10.13	31.63	-14.37	46.00	Average
20		1.26	29.60	10.13	39.73	-16.27	56.00	QP
21		1.36	23.30	10.13	33.43	-12.57	46.00	Average
22		1.36	31.30	10.13	41.43	-14.57	56.00	QP
23		1.44	25.80	10.13	35.93	-10.07	46.00	Average
24		1.44	35.40	10.13	45.53	-10.47	56.00	QP
25		1.55	25.20	10.14	35.34	-10.67	46.00	Average
26		1.55	32.60	10.14	42.74	-13.27	56.00	QP
27		1.65	23.50	10.14	33.64	-12.36	46.00	Average
28		1.65	31.30	10.14	41.44	-14.56	56.00	QP
29		1.85	20.80	10.14	30.94	-15.06	46.00	Average
30		1.85	29.10	10.14	39.24	-16.76	56.00	QP
31		2.09	18.90	10.15	29.05	-16.95	46.00	Average
32		2.09	26.70	10.15	36.85	-19.15	56.00	QP
33		5.01	6.40	10.21	16.61	-33.39	50.00	Average
34		5.01	13.80	10.21	24.01	-35.99	60.00	QP

Notes:

1. " * " indicates the worst-case emission level observed during the measurement.

2. C.F (dB) = LISN Factor (dB) + Cable Loss (dB).

3. Measurement (dBμV) = Reading (dBμV) + C.F (dB).

Appendix B - Test Setup Photograph

Refer to “R25S1001068-UT” file.

Appendix C - EUT Photograph

Refer to “R25S1001068-UE” file.

The End