



RF MEASUREMENT REPORT

FCC ID: 2A398-M63S

Applicant: Suzhou MobyData Smart System Co., Ltd.

Product: Mobile Computer

Model No.: M63S

Serial Model No.: M63, M63 Scorpio, M63S Scorpio, OA66, OA68, OA86, OA88, MB68, MB86, MB88, MB66, SA68, SA86, SA66, SA88

Brand Name: MOBYDATA

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15 Subpart C (Section 15.247)

Result: Complies

Received Date: 2025-08-25

Test Date: 2025-09-05 ~ 2025-09-18

Reviewed By:

Jame Yuan

Jame Yuan

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. Testing was performed in accordance with the applicable measurement procedures. The test results reported herein apply only to the specific item(s) tested.

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



Revision History

Report No.	Version	Description	Issue Date	Note
R25S1049088-U203	V01	Initial Report	2025-10-27	Valid

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1. General Information

1.1. Applicant

Suzhou MobyData Smart System Co., Ltd.

3f, Building E, Yida Science Park, No.11 Jinpu Road, SIP, Suzhou, Jiangsu Province, China.

1.2. Manufacturer

Suzhou MobyData Smart System Co., Ltd.

3f, Building E, Yida Science Park, No.11 Jinpu Road, SIP, Suzhou, Jiangsu Province, 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
☐	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	Mobile Computer
Model No.	M63S
Serial Model No.	M63, M63 Scorpio, M63S Scorpio, OA66, OA68, OA86, OA88, MB68, MB86, MB88, MB66, SA68, SA86, SA66, SA88
Serial No.	25C21I00010 (Conducted) 25C21I00001 (Radiated)
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Specification	Dual mode
NFC Specification	13.56 MHz
Antenna Specification	Refer to clause 1.7
Operating Temperature	-20 ~ 50 °C
Power Type	By Rechargeable Li-ion Battery or AC/DC Adapter
Accessory(ies)	
Rechargeable Li-ion Battery	Model: M63 Typical Capacity: 5000 mAh Rated Capacity: 4850 mAh Rated Energy: 18.68 Wh Nominal Voltage: 3.85 V Limited Charge Voltage: 4.4 V
AC/DC Adapter	Model: HA1010SA-050 Input: 100-240 V ~, 0.5 A 50/60 Hz Output: 54.0 V = 2.4 A
Notes:	
- 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. - Differences between models: The RF specifications of the family models are identical. The difference is the sales area and the naming methods of customer needs, which also do not affect the RF and safety performance of the product.	

1.5. Radio Specification under Test

Frequency Range	2400 ~ 2483.5 MHz
Channel Number	802.11b/g/n-HT20: 11
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 72.2 Mbps

1.6. Working Frequencies

802.11b/g/n-HT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	Antenna Gain (dBi)
Wi-Fi Antennas		
PIFA	2400 ~ 2483.5	1.46
	5150 ~ 5250	2.94
	5250 ~ 5350	2.90
	5470 ~ 5600	2.38
	5725 ~ 5850	2.03
Note: All antenna information is provided by the manufacturer.		

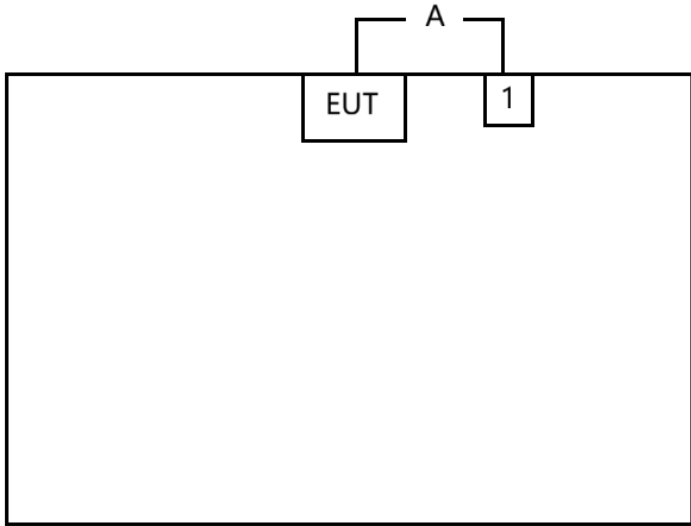
2. Test Configuration

2.1. Test Mode

CDD Mode
Mode 1: Transmit by 802.11b (1 Mbps)
Mode 2: Transmit by 802.11g (6 Mbps)
Mode 3: Transmit by 802.11n-HT20 (MCS0)
Note: All RF test requirements shall be executed at the worst data rate which declared by manufacturer.

2.2. Test System Connection Diagram

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

Connection Diagram - Radiated Emission testing & AC Conducted Emissions			
			
Cable Type	Cable Description		Length
A	Power Cable	Non shielded	1.0 m
Product	Manufacturer		Model No.
1	Adapter	Haiyingte Power Technology Co., Ltd.	HA1010SA-050

2.3. Test Software

The test utility software used during testing was “adb”.

Final power setting please refer to operational description.

2.4. Applied Standards

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

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

2.5. Test Environment Condition

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

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

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

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

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2025-10-16	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2026-04-17	WZ-AC1
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2026-01-04	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2026-05-11	WZ-AC1
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2025-12-05	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2026-07-19	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2025-11-08	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2025-10-13	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2025-11-03	WZ-AC1
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2026-01-09	WZ-AC1
Shielding Room	HUAMING	WZ-SR6	MRTSUE06443	N/A	N/A	WZ-SR6
Thermohygrometer	testo	608-H1	MRTSUE06362	1 year	2026-01-23	WZ-SR6
Signal Analyzer	Keysight	N9010B	MRTSUE06558	1 year	2026-05-17	WZ-SR6
USB Power Sensor	Keysight	U2021XA	MRTSUE06447	1 year	2026-06-17	WZ-SR6
Attenuator	MVE	MVE2213	MRTSUE11085	1 year	2026-06-02	WZ-SR6
Attenuator	MVE	MVE2213	MRTSUE11075	1 year	2026-06-02	WZ-SR6
RF Cable	UCwave	UCE500	MRTSUE07373	1 year	2026-07-20	WZ-SR6
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
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2026-08-31	WZ-SR2

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

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

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

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

5.2. Measurement Uncertainty

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

AC Conducted Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
9 kHz ~ 150 kHz:	3.58 dB
150 kHz ~ 30 MHz:	3.20 dB
Radiated Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
Coaxial:	9 kHz ~ 30 MHz: 2.35 dB
Coplanar:	9 kHz ~ 30 MHz: 2.37 dB
Horizontal:	30 MHz ~ 200 MHz: 3.47 dB
	200 MHz ~ 1 GHz: 4.17 dB
	1 GHz ~ 40 GHz: 4.97 dB
Vertical:	30 MHz ~ 200 MHz: 4.07 dB
	200 MHz ~ 1 GHz: 5.28 dB
	1 GHz ~ 40 GHz: 4.84 dB
Spurious Emissions, Conducted	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 2.5 dB	
Output Power	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 1.5 dB	
Power Spectrum Density	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 2.5 dB	
Occupied Bandwidth	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 3.2%	

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(a)(2)	6 dB Bandwidth	Conducted	Pass
15.247(b)(3)	Output Power		Pass
15.247(e)	Power Spectral Density		Pass
15.247(d)	Band Edge / Out-of-Band Emissions		Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emissions)	Radiated	Pass
15.207	AC Conducted Emissions 150 kHz - 30 MHz	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 tests, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

6.2. 6 dB Bandwidth Measurement

6.2.1. Test Limit

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

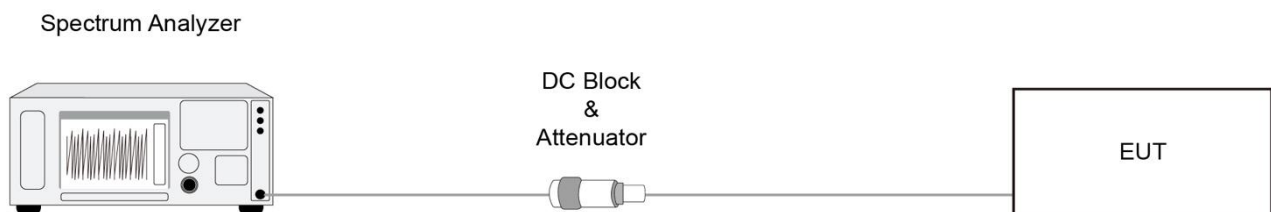
6.2.2. Test Procedure

ANSI C63.10-2020 - Section 11.8

6.2.3. Test Setting

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

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. Output Power Measurement

6.3.1. Test Limit

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

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

6.3.2. Test Procedure

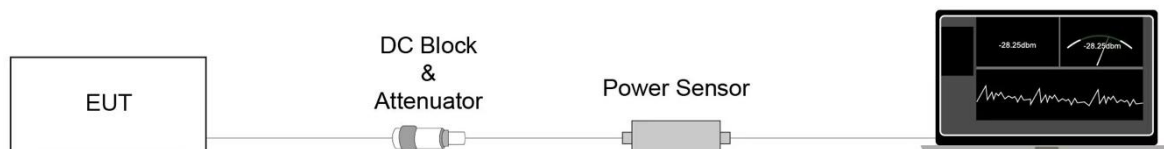
ANSI C63.10-2020 - Section 11.9.2.3.2

6.3.3. Test Setting

Average Power Measurement

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

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Power Spectral Density Measurement

6.4.1. Test Limit

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

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

6.4.2. Test Procedure

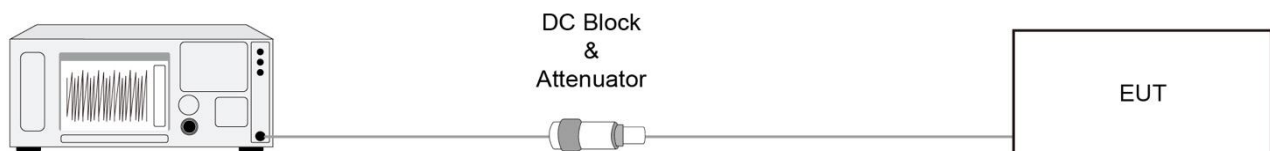
ANSI C63.10-2020 - Section 11.10.5

6.4.3. Test Setting

1. Measure the duty cycle (x) of the transmitter output signal
2. Set instrument center frequency to DTS channel center frequency
3. Span > 1.5 times the OBW
4. RBW = 10 kHz
5. VBW $\geq 3 \times$ RBW
6. Detector = RMS
7. Ensure that the number of measurement points in the sweep $\geq 2 \times$ Span/RBW
8. Sweep time = Auto couple
9. Don't use sweep triggering; Allow sweep to "free run".
10. Employ trace averaging (RMS) mode over a minimum of 100 traces
11. Use the peak marker function to determine the maximum amplitude level
12. If duty cycle < 98%, add $10\log(1/x)$, where x is the duty cycle measured in step 1, to the measured PSD to compute the average PSD during the actual transmission time. If duty cycle $\geq 98\%$, no need to add $10\log(1/x)$.
13. If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

6.4.4. Test Setup

Spectrum Analyzer



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 30 dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

6.5.2. Test Procedure

ANSI C63.10-2020 - Section 11.11

6.5.3. Test Setting

Reference level measurement

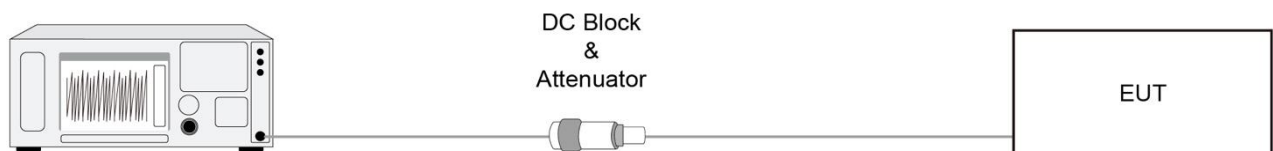
1. Set instrument center frequency to DTS channel center frequency
2. Span ≥ 1.5 times the DTS bandwidth
3. RBW = 100 kHz
4. VBW $\geq 3 \times$ RBW
5. Detector = Peak
6. Sweep time = Auto couple
7. Trace mode = Max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100 kHz
3. VBW $\geq 3 \times$ RBW
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

Spectrum Analyzer



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Radiated Spurious Emissions Measurement

6.6.1. Test Limit

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

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

6.6.2. Test Procedure

ANSI C63.10-2020 - Section 11.11 & 11.12

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

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

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

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

6.6.3. Test Setting

Table 1 - RBW as a function of frequency

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

Quasi-Peak Measurements below 1 GHz

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

Peak Measurements above 1 GHz

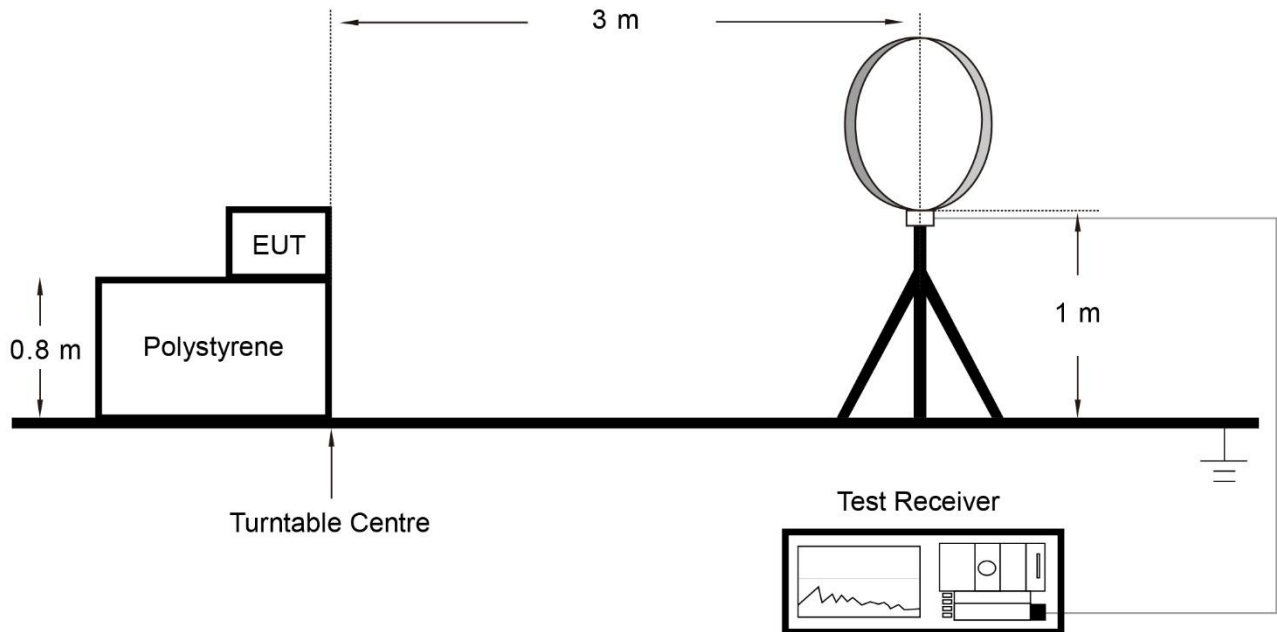
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1 GHz (Method VB)

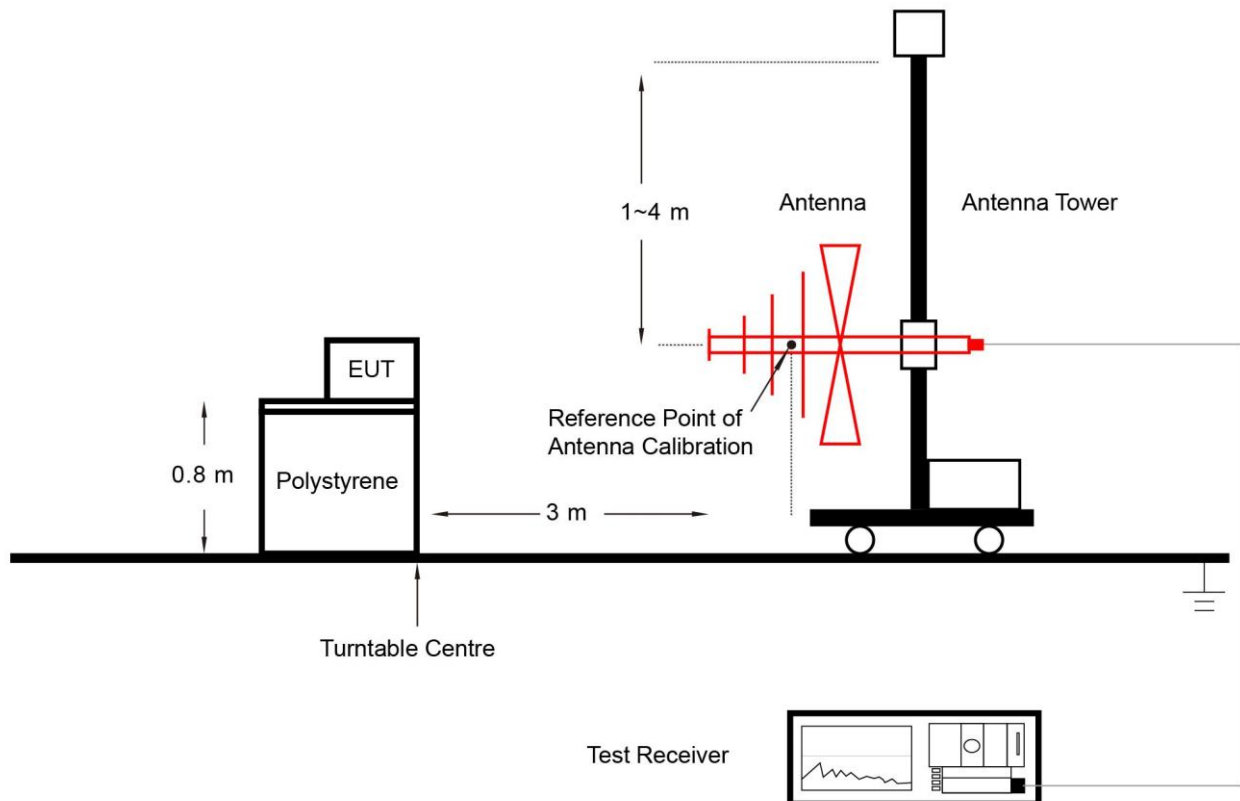
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW; if the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz
If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.6.4. Test Setup

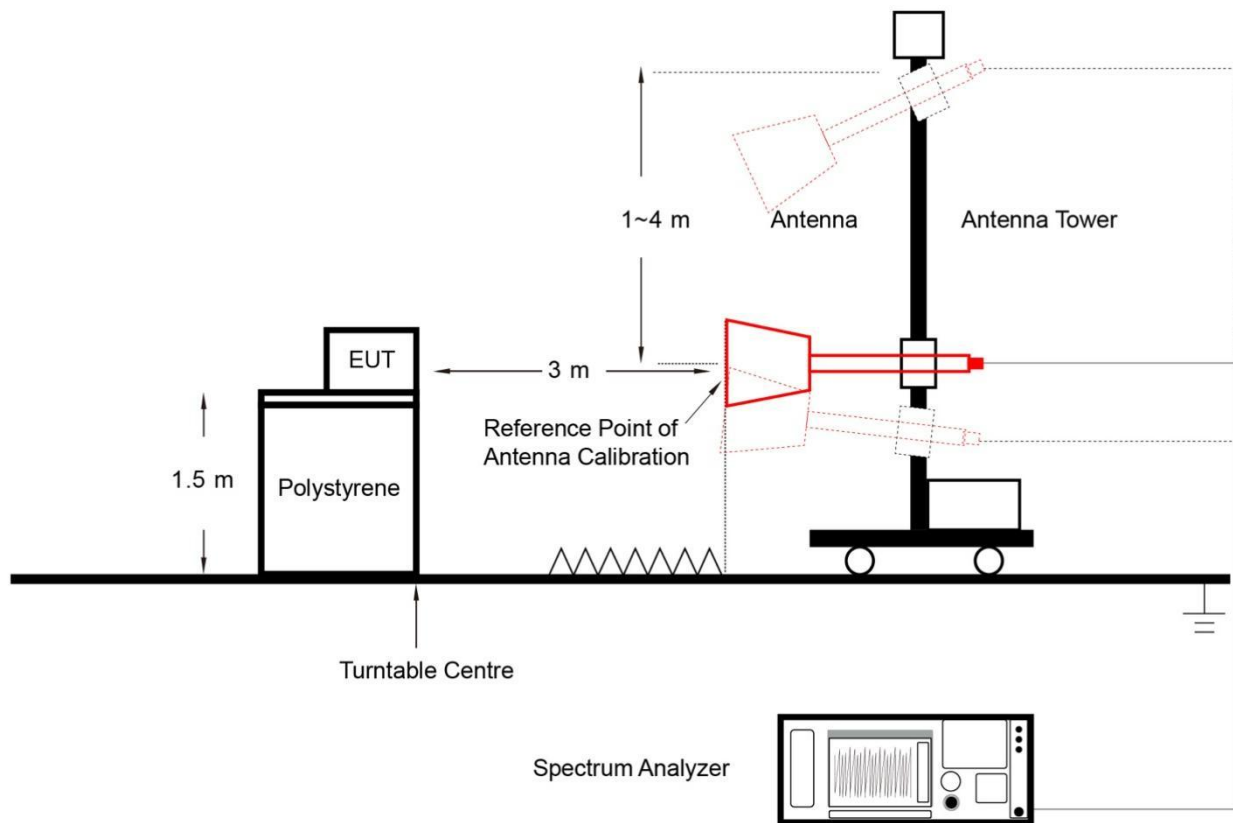
Below 30 MHz Test Setup:



Below 1 GHz Test Setup:



Above 1 GHz Test Setup:



6.6.5. Test Result

Refer to Appendix A.6.

6.7. Radiated Restricted Band Edge Measurement

6.7.1. Test Limit

For 15.205 requirement:

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

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
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 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

6.7.2. Test Procedure

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

6.7.3. Test Setting

Peak Field Strength Measurements

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

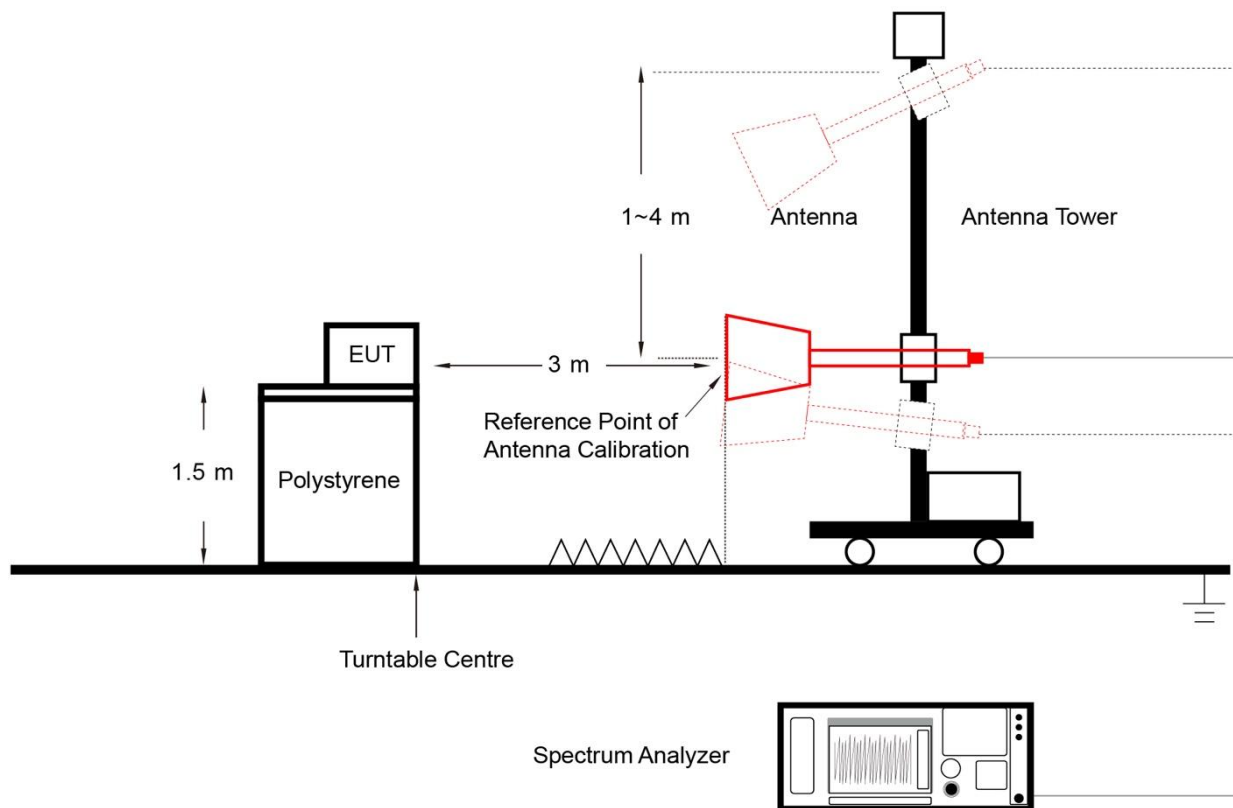
Average Field Strength Measurements

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

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

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

6.7.4. Test Setup



6.7.5. Test Result

Refer to Appendix A.7.

6.8. AC Conducted Emissions Measurement

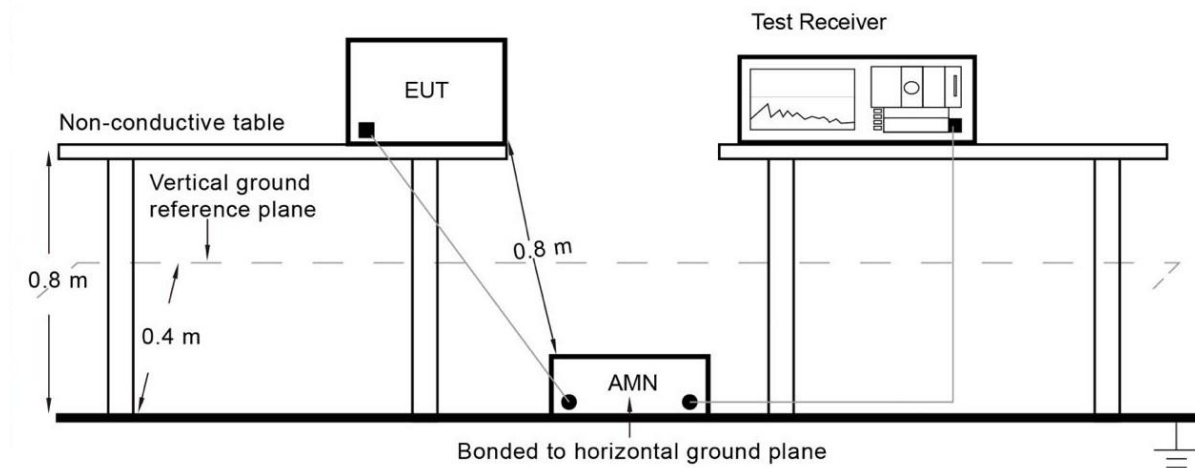
6.8.1. Test Limit

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

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

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

6.8.2. Test Setup



6.8.3. Test Result

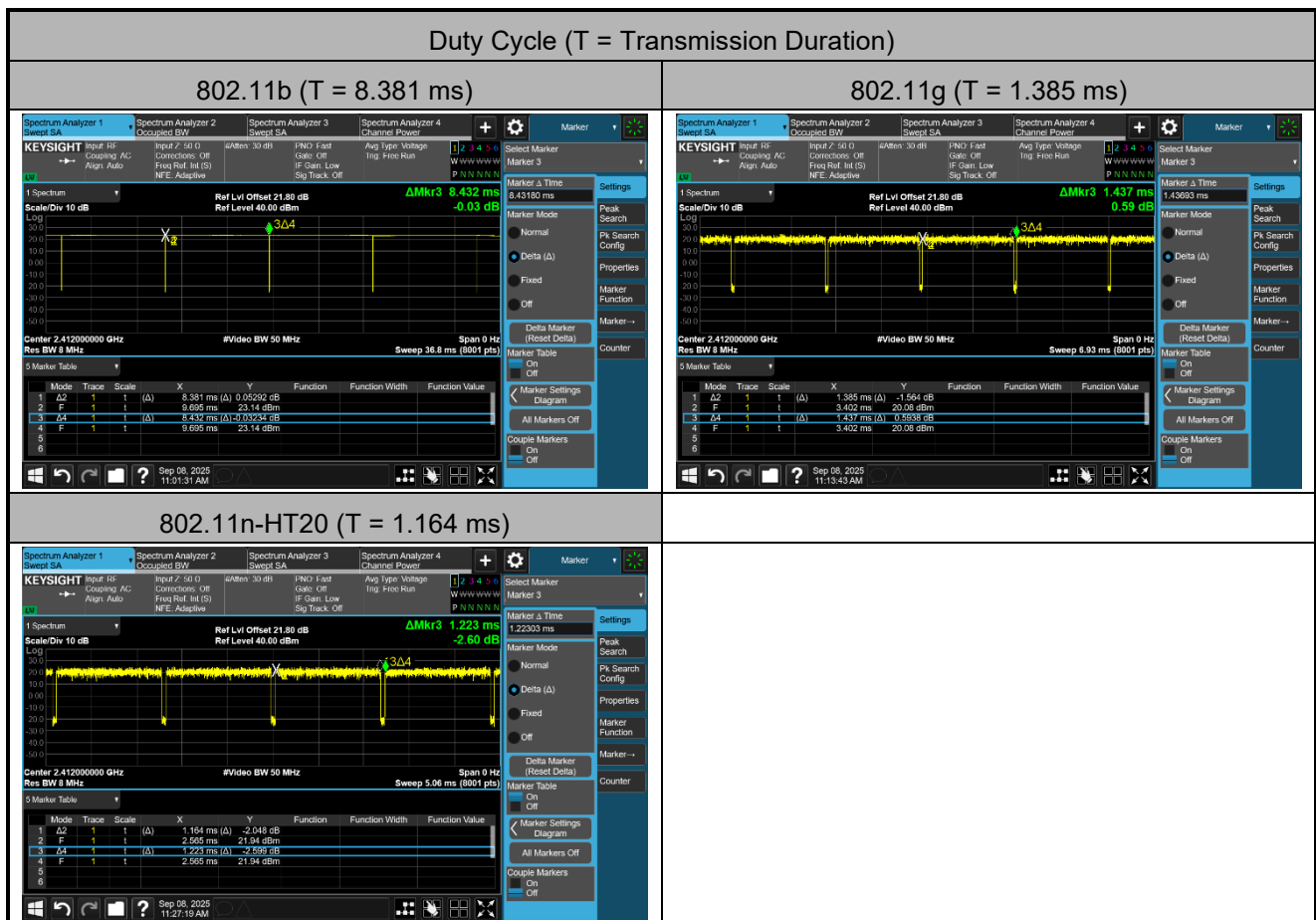
Refer to Appendix A.8.

Appendix A - Test Result

A.1 Duty Cycle Test Result

Test Site	WZ-SR6	Test Engineer	Molly Wu
Test Date	2025-09-08		

Test Mode	Duty Cycle
802.11b	99.40%
802.11g	96.38%
802.11n-HT20	95.18%



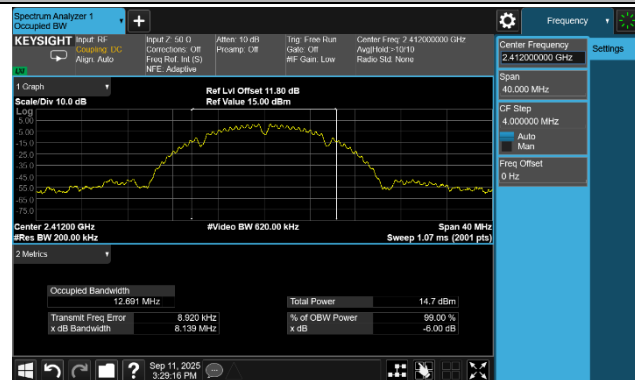
A.2 6 dB Bandwidth Test Result

Test Site	WZ-SR6	Test Engineer	Molly Wu
Test Date	2025-09-11		

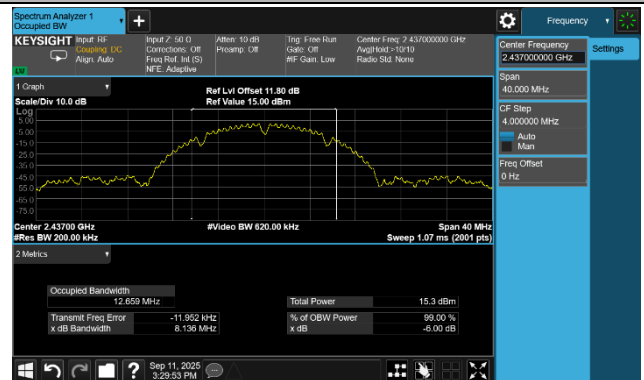
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
11b	1 Mbps	01	2412	8.139	≥ 0.5
11b	1 Mbps	06	2437	8.136	≥ 0.5
11b	1 Mbps	11	2462	8.135	≥ 0.5
11g	6 Mbps	01	2412	16.020	≥ 0.5
11g	6 Mbps	06	2437	15.970	≥ 0.5
11g	6 Mbps	11	2462	15.970	≥ 0.5
11n-HT20	MCS0	01	2412	17.280	≥ 0.5
11n-HT20	MCS0	06	2437	17.250	≥ 0.5
11n-HT20	MCS0	11	2462	17.320	≥ 0.5

802.11b 6 dB Bandwidth

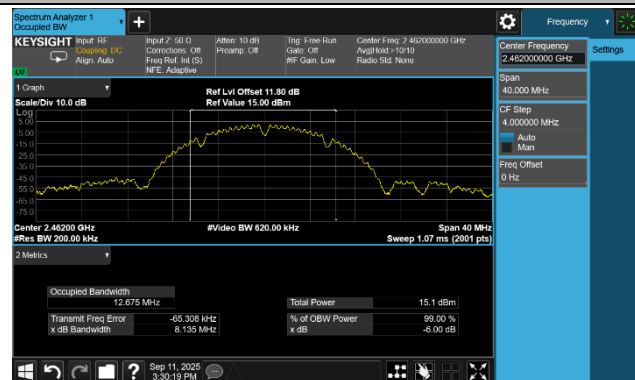
Channel 01 (2412 MHz)



Channel 06 (2437 MHz)



Channel 11 (2462 MHz)



802.11g 6 dB Bandwidth

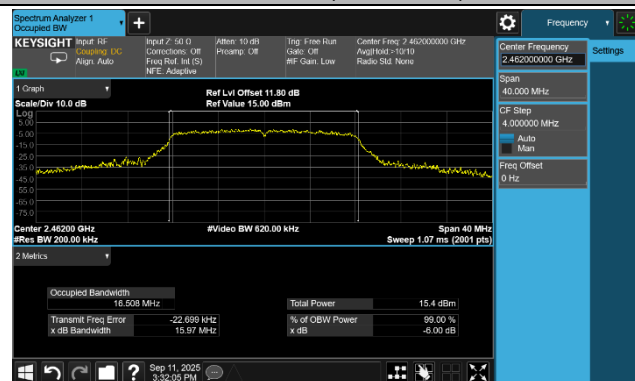
Channel 01 (2412 MHz)

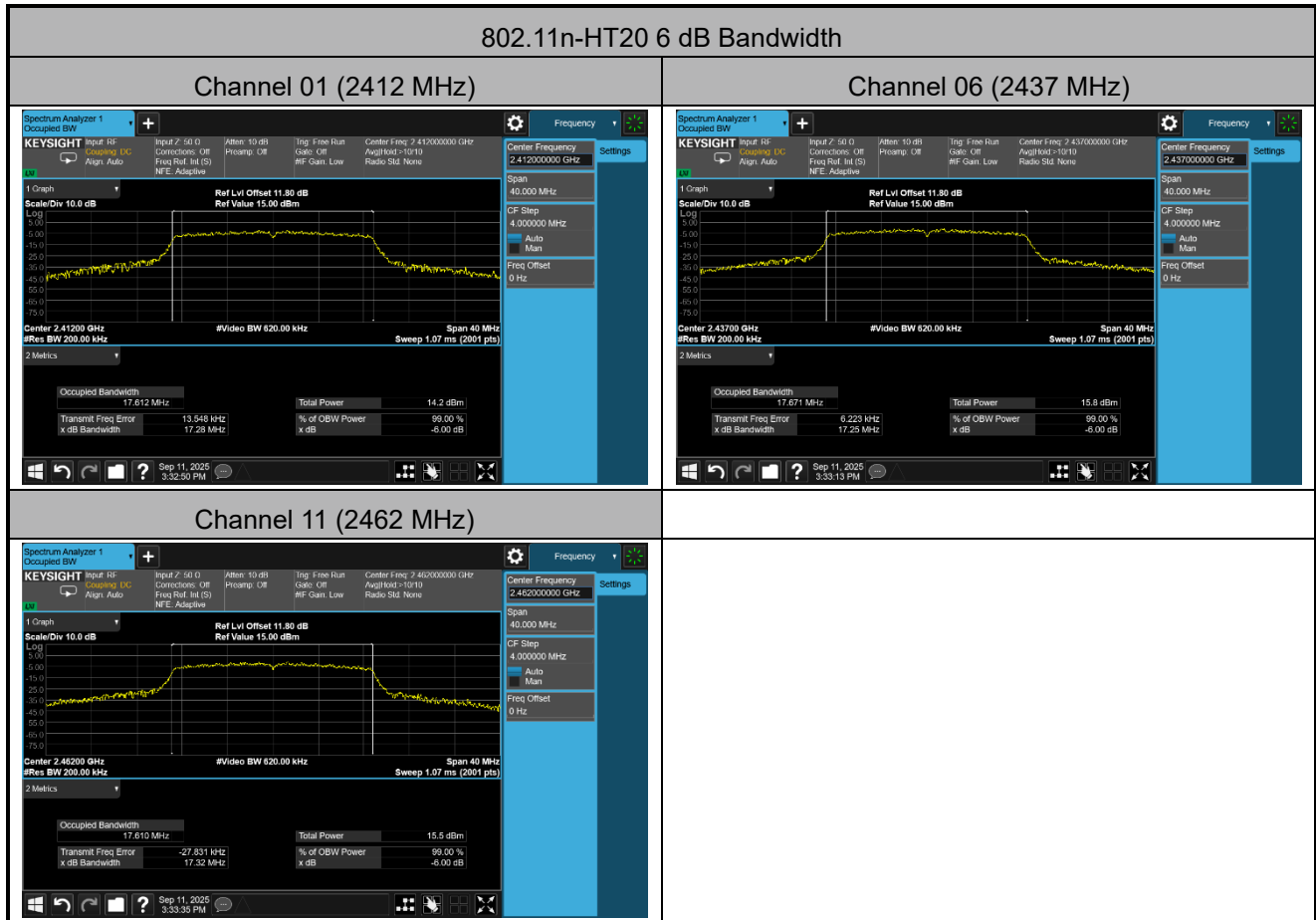


Channel 06 (2437 MHz)



Channel 11 (2462 MHz)





A.3 Output Power Test Result

Test Site	WZ-SR6	Test Engineer	Molly Wu
Test Date	2025-09-10	Test Mode	CDD Mode

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
11b	1 Mbps	01	2412	19.66	≤ 30.00	Pass
11b	1 Mbps	06	2437	19.72	≤ 30.00	Pass
11b	1 Mbps	11	2462	19.60	≤ 30.00	Pass
11g	6 Mbps	01	2412	18.85	≤ 30.00	Pass
11g	6 Mbps	06	2437	18.86	≤ 30.00	Pass
11g	6 Mbps	11	2462	18.76	≤ 30.00	Pass
11n-HT20	MCS0	01	2412	16.88	≤ 30.00	Pass
11n-HT20	MCS0	06	2437	18.45	≤ 30.00	Pass
11n-HT20	MCS0	11	2462	18.38	≤ 30.00	Pass

A.4 Power Spectral Density Test Result

Test Site	WZ-SR6	Test Engineer	Molly Wu
Test Date	2025-09-08 ~ 2025-09-18		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	Ant0 PSD (dBm/10 kHz)	Duty Cycle (%)	10×log (1/x)	Total PSD (dBm/10 kHz)	Limit (dBm/3 kHz)
11b	1 Mbps	01	2412	-6.040	99.40	0.03	-6.040	≤ 8.00
11b	1 Mbps	06	2437	-6.322	99.40	0.03	-6.322	≤ 8.00
11b	1 Mbps	11	2462	-6.022	99.40	0.03	-6.022	≤ 8.00
11g	6 Mbps	01	2412	-9.453	96.38	0.16	-9.293	≤ 8.00
11g	6 Mbps	06	2437	-10.108	96.38	0.16	-9.948	≤ 8.00
11g	6 Mbps	11	2462	-9.699	96.38	0.16	-9.539	≤ 8.00
11n-HT20	MCS0	01	2412	-11.933	95.18	0.21	-11.718	≤ 8.00
11n-HT20	MCS0	06	2437	-10.207	95.18	0.21	-9.992	≤ 8.00
11n-HT20	MCS0	11	2462	-9.903	95.18	0.21	-9.688	≤ 8.00

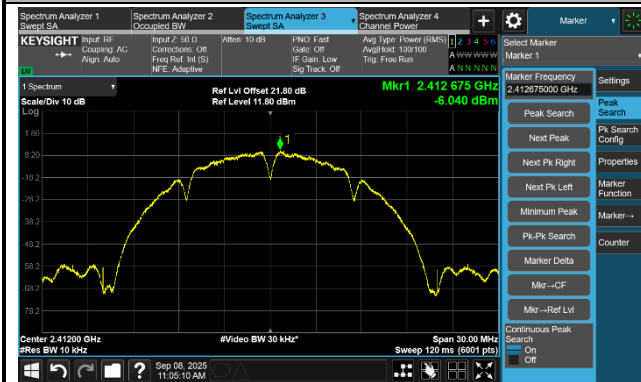
Note:

Duty Cycle ≥ 98%, Total PSD (dBm/10 kHz) = Ant0 PSD (dBm/10 kHz).

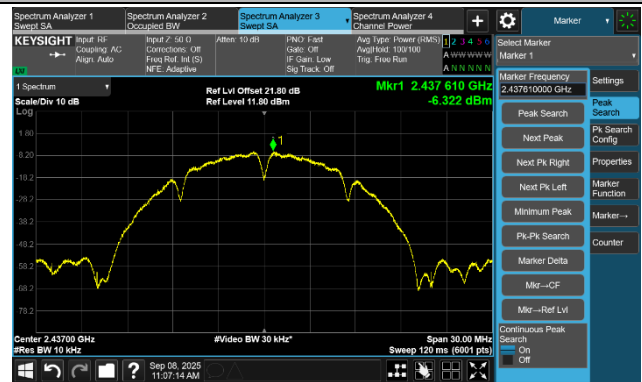
Duty Cycle < 98%, Total PSD (dBm/10 kHz) = Ant0 PSD (dBm/10 kHz) + 10 × log (1/Duty Cycle).

802.11b - AVGPSD - Ant 0

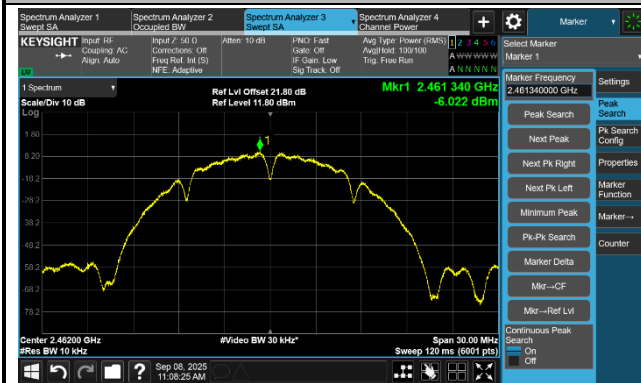
Channel 01 (2412 MHz)



Channel 06 (2437 MHz)

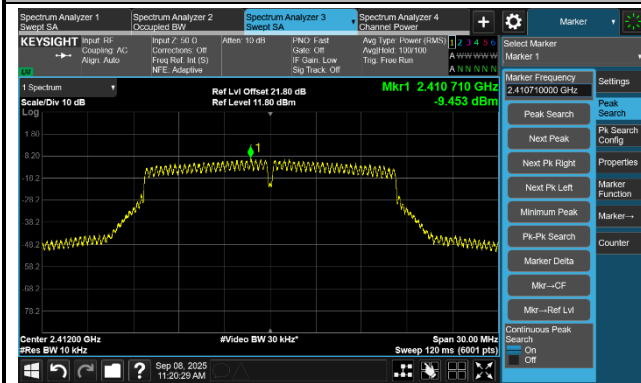


Channel 11 (2462 MHz)

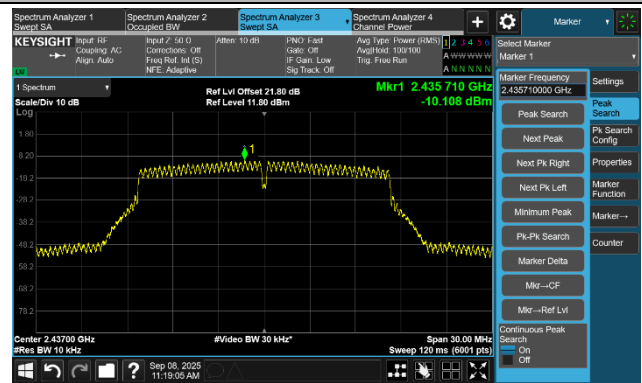


802.11g - AVGPSD - Ant 0

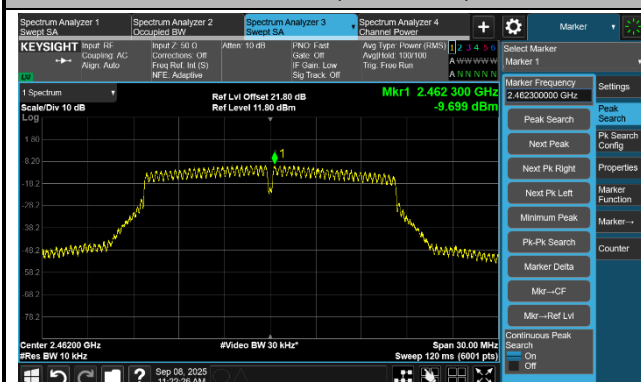
Channel 01 (2412 MHz)



Channel 06 (2437 MHz)

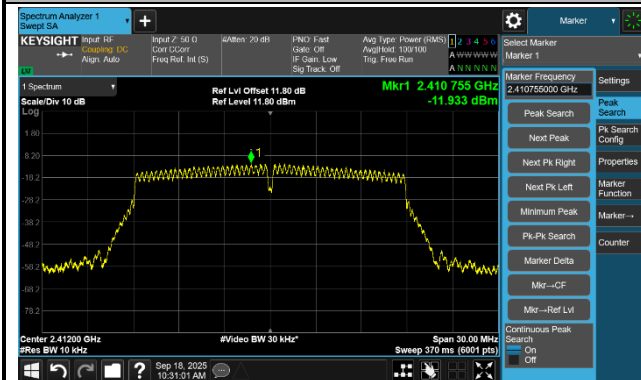


Channel 11 (2462 MHz)

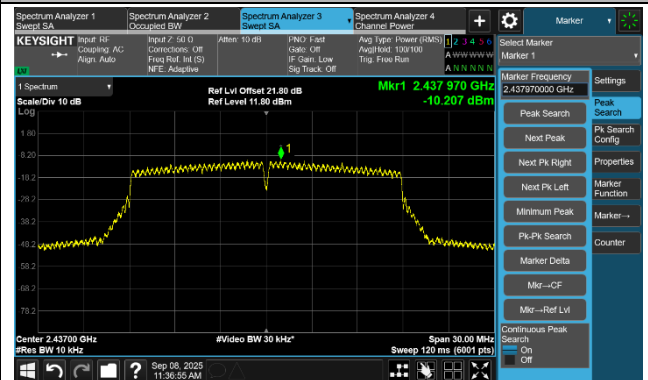


802.11n-HT20 - AVGPSD - Ant 0

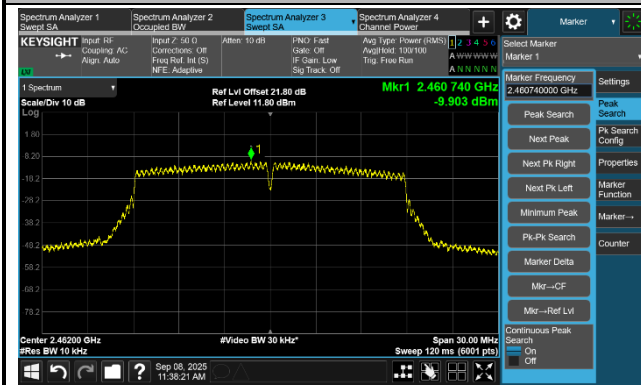
Channel 01 (2412 MHz)



Channel 06 (2437 MHz)



Channel 11 (2462 MHz)



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

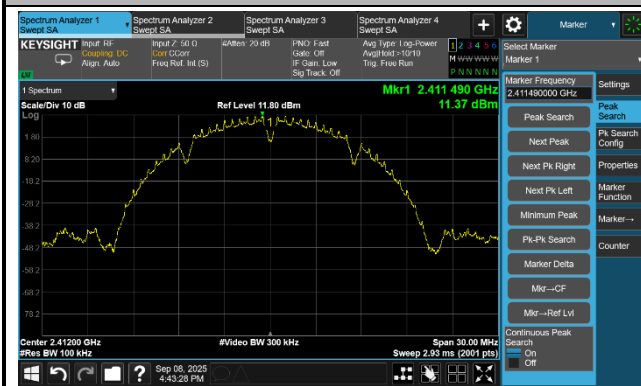
Test Site	WZ-SR6	Test Engineer	Molly Wu
Test Date	2025-09-08		

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit
11b	1 Mbps	01	2412	30 dBc
11b	1 Mbps	06	2437	30 dBc
11b	1 Mbps	11	2462	30 dBc
11g	6 Mbps	01	2412	30 dBc
11g	6 Mbps	06	2437	30 dBc
11g	6 Mbps	11	2462	30 dBc
11n-HT20	MCS0	01	2412	30 dBc
11n-HT20	MCS0	06	2437	30 dBc
11n-HT20	MCS0	11	2462	30 dBc

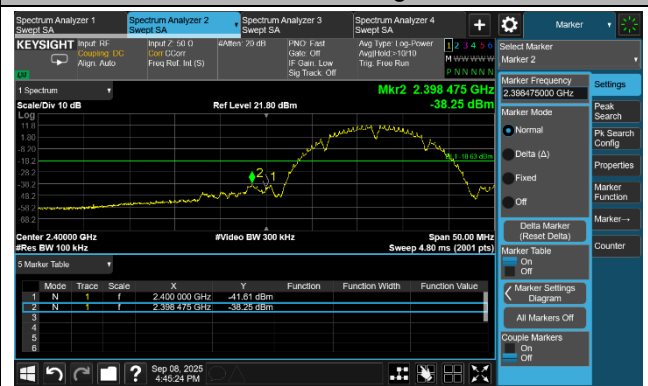
802.11b Out-of-Band Emissions

Channel 01 (2412 MHz)

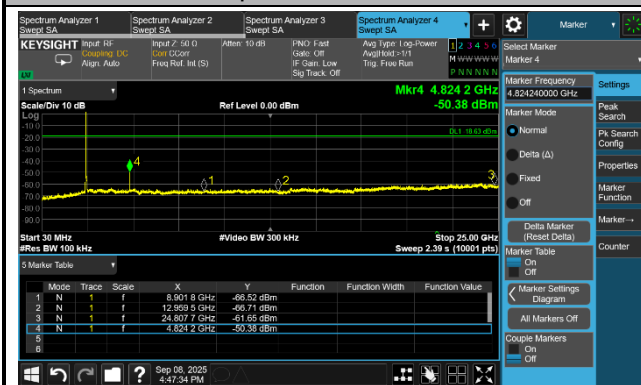
Reference Level



Low Band Edge



Spurious Emission

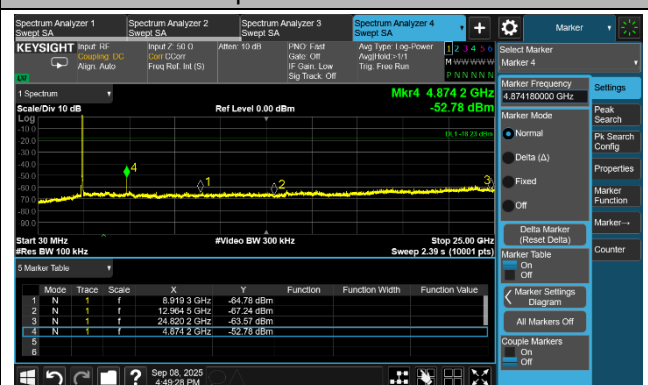


Channel 06 (2437 MHz)

Reference Level



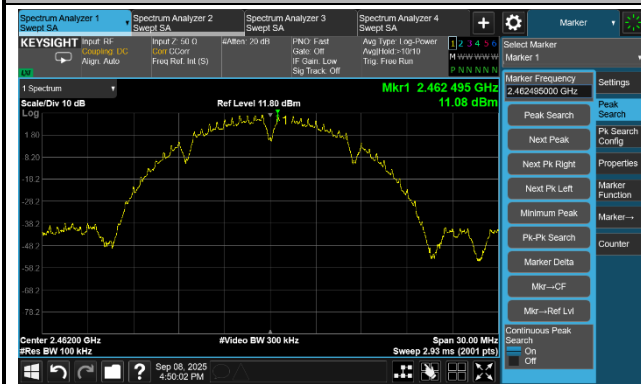
Spurious Emission



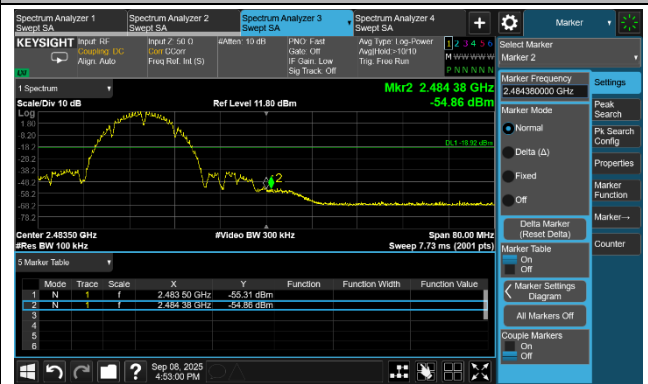
802.11b Out-of-Band Emissions

Channel 11 (2462 MHz)

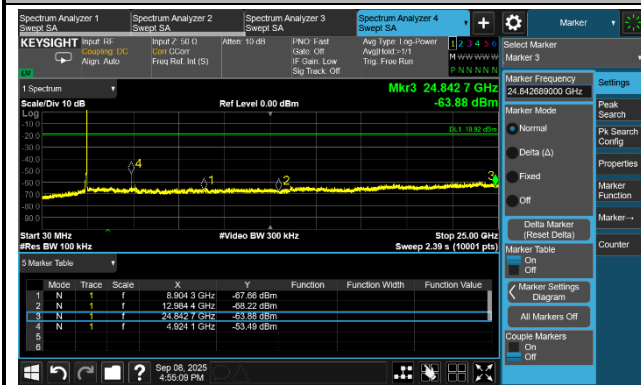
Reference Level



High Band Edge



Spurious Emission



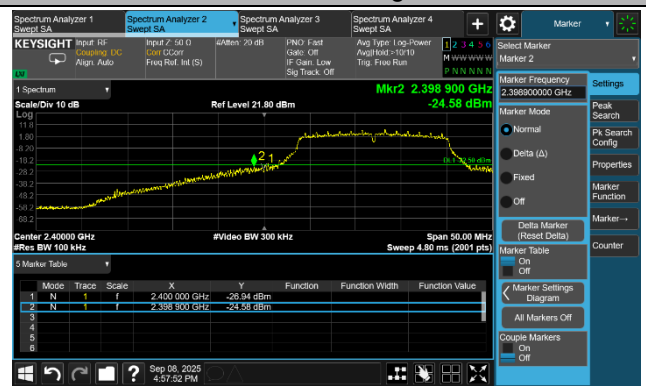
802.11g Out-of-Band Emissions

Channel 01 (2412 MHz)

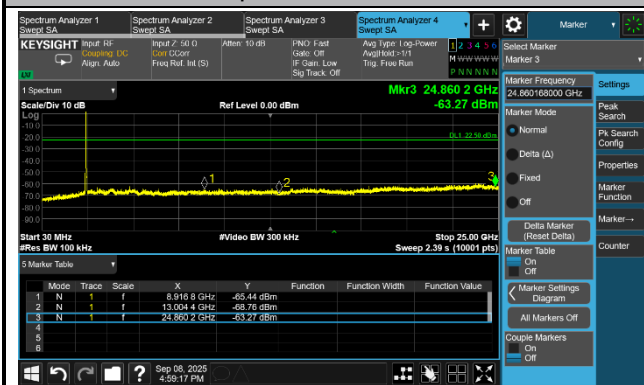
Reference Level



Low Band Edge



Spurious Emission

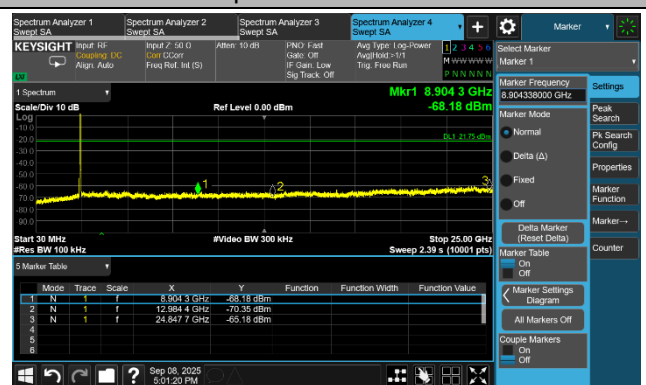


Channel 06 (2437 MHz)

Reference Level



Spurious Emission



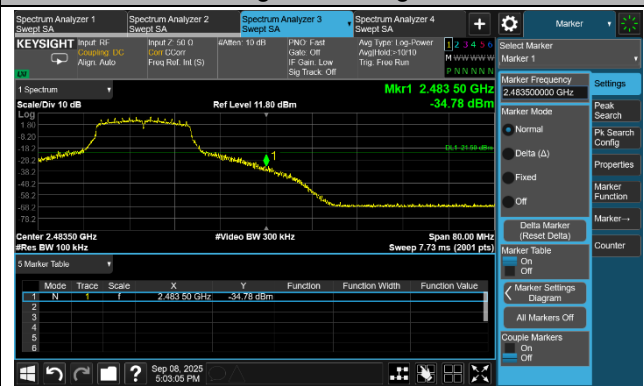
802.11g Out-of-Band Emissions

Channel 11 (2462 MHz)

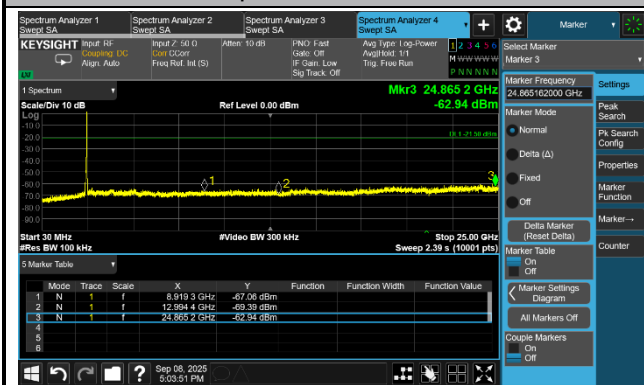
Reference Level



High Band Edge



Spurious Emission



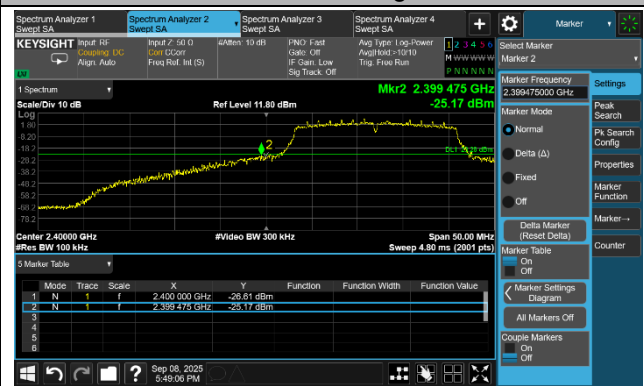
802.11n-HT20 Out-of-Band Emissions

Channel 01 (2412 MHz)

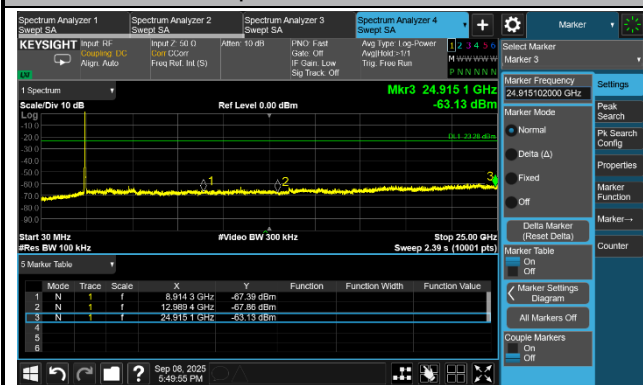
Reference Level



Low Band Edge



Spurious Emission

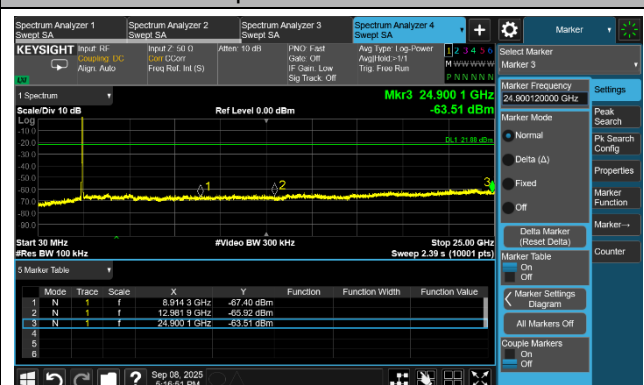


Channel 06 (2437 MHz)

Reference Level



Spurious Emission



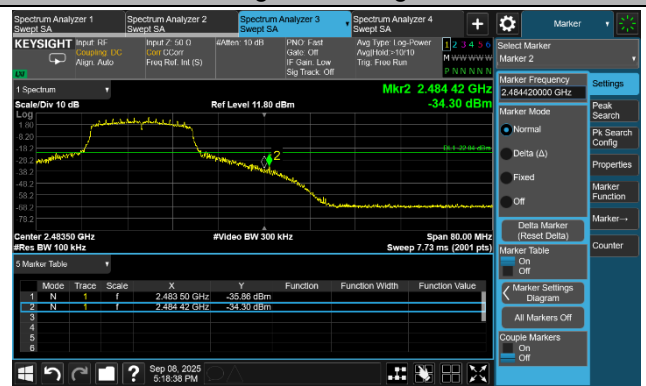
802.11n-HT20 Out-of-Band Emissions

Channel 11 (2462 MHz)

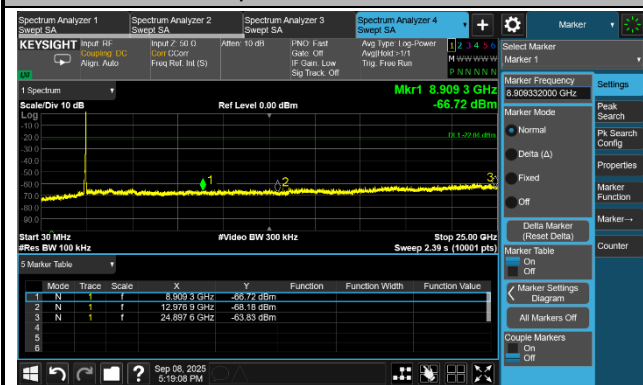
Reference Level



High Band Edge



Spurious Emission



A.6 Radiated Spurious Emissions Test Result

Test Site	WZ-AC1	Test Engineer	Jerry Lu
Test Date	2025-09-09	Test Mode	802.11b
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20 dB below limit line within 1-18 GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	9309.60	36.41	13.79	50.20	74.00	-23.80	Peak	Horizontal
	11091.20	36.72	14.44	51.16	74.00	-22.84	Peak	Horizontal
	17955.80	20.14	23.31	43.45	54.00	-10.55	Average	Horizontal
	17955.80	36.68	23.31	59.99	74.00	-14.01	Peak	Horizontal
	9464.30	35.90	13.76	49.66	74.00	-24.34	Peak	Vertical
	10849.80	27.19	15.02	42.21	54.00	-11.79	Average	Vertical
	10849.80	36.02	15.02	51.04	74.00	-22.96	Peak	Vertical
	17986.40	19.26	24.03	43.29	54.00	-10.71	Average	Vertical
	17986.40	36.96	24.03	60.99	74.00	-13.01	Peak	Vertical
06	9449.00	36.03	13.48	49.51	74.00	-24.49	Peak	Horizontal
	11067.40	36.19	14.51	50.70	74.00	-23.30	Peak	Horizontal
	17921.80	19.52	22.95	42.47	54.00	-11.53	Average	Horizontal
	17921.80	37.19	22.95	60.14	74.00	-13.86	Peak	Horizontal
	9350.40	36.78	13.61	50.39	74.00	-23.61	Peak	Vertical
	11725.30	36.96	13.39	50.35	74.00	-23.65	Peak	Vertical
	17894.60	20.31	22.94	43.25	54.00	-10.75	Average	Vertical
	17894.60	36.19	22.94	59.13	74.00	-14.87	Peak	Vertical
11	9360.60	36.38	13.71	50.09	74.00	-23.91	Peak	Horizontal
	11443.10	35.83	14.28	50.11	74.00	-23.89	Peak	Horizontal
	17983.00	20.18	24.00	44.18	54.00	-9.82	Average	Horizontal
	17983.00	34.86	24.00	58.86	74.00	-15.14	Peak	Horizontal
	9462.60	35.37	13.73	49.10	74.00	-24.90	Peak	Vertical
	11072.50	35.77	14.50	50.27	74.00	-23.73	Peak	Vertical
	17966.00	19.62	23.42	43.04	54.00	-10.96	Average	Vertical
	17966.00	35.88	23.42	59.30	74.00	-14.70	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	Jerry Lu
Test Date	2025-09-09	Test Mode	802.11g
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20 dB below limit line within 1-18 GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	9382.70	35.95	13.76	49.71	74.00	-24.29	Peak	Horizontal
	10953.50	35.53	14.95	50.48	74.00	-23.52	Peak	Horizontal
	17979.60	19.22	23.88	43.10	54.00	-10.90	Average	Horizontal
	17979.60	35.30	23.88	59.18	74.00	-14.82	Peak	Horizontal
	9122.60	37.75	12.91	50.66	74.00	-23.34	Peak	Vertical
	11223.80	35.77	14.24	50.01	74.00	-23.99	Peak	Vertical
	17983.00	19.48	24.00	43.48	54.00	-10.52	Average	Vertical
	17983.00	35.62	24.00	59.62	74.00	-14.38	Peak	Vertical
06	9343.60	35.41	13.53	48.94	74.00	-25.06	Peak	Horizontal
	10878.70	35.99	14.99	50.98	74.00	-23.02	Peak	Horizontal
	18000.00	19.53	24.16	43.69	54.00	-10.31	Average	Horizontal
	18000.00	35.41	24.16	59.57	74.00	-14.43	Peak	Horizontal
	9398.00	35.03	13.72	48.75	74.00	-25.25	Peak	Vertical
	11062.30	36.25	14.53	50.78	74.00	-23.22	Peak	Vertical
	17930.30	19.52	23.04	42.56	54.00	-11.44	Average	Vertical
	17930.30	36.05	23.04	59.09	74.00	-14.91	Peak	Vertical
11	9323.20	35.57	13.72	49.29	74.00	-24.71	Peak	Horizontal
	11065.70	36.14	14.51	50.65	74.00	-23.35	Peak	Horizontal
	17915.00	20.17	22.87	43.04	54.00	-10.96	Average	Horizontal
	17915.00	35.24	22.87	58.11	74.00	-15.89	Peak	Horizontal
	9472.80	35.09	13.66	48.75	74.00	-25.25	Peak	Vertical
	10953.50	35.34	14.95	50.29	74.00	-23.71	Peak	Vertical
	17991.50	19.68	24.08	43.76	54.00	-10.24	Average	Vertical
	17991.50	35.11	24.08	59.19	74.00	-14.81	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	Jerry Lu
Test Date	2025-09-09	Test Mode	802.11n-HT20
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20 dB below limit line within 1-18 GHz, there is not show in the report.		

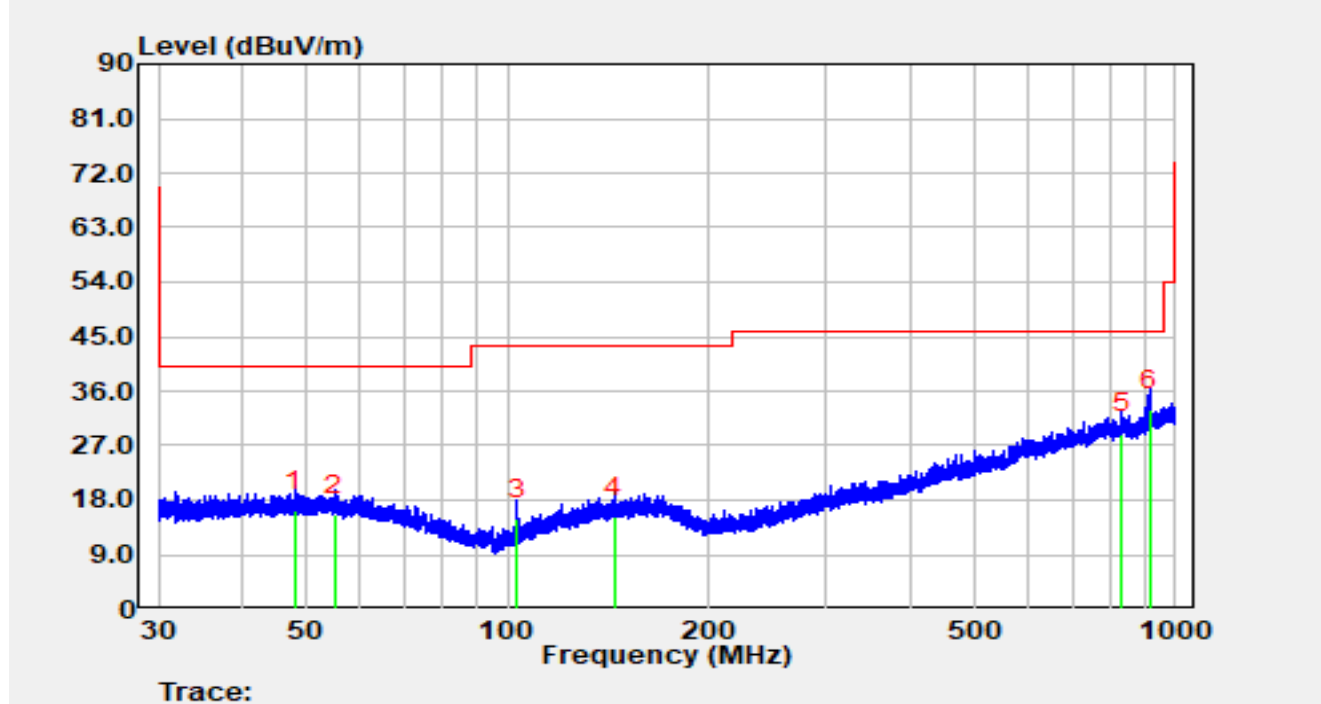
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	9075.00	36.34	12.66	49.00	74.00	-25.00	Peak	Horizontal
	11018.10	34.72	14.77	49.49	74.00	-24.51	Peak	Horizontal
	17959.20	20.34	23.34	43.68	54.00	-10.32	Average	Horizontal
	17959.20	36.07	23.34	59.41	74.00	-14.59	Peak	Horizontal
	9408.20	35.75	13.82	49.57	74.00	-24.43	Peak	Vertical
	10837.90	35.59	14.95	50.54	74.00	-23.46	Peak	Vertical
	17993.20	19.53	24.10	43.63	54.00	-10.37	Average	Vertical
	17993.20	34.51	24.10	58.61	74.00	-15.39	Peak	Vertical
06	9360.60	36.33	13.71	50.04	74.00	-23.96	Peak	Horizontal
	11574.00	35.65	13.91	49.56	74.00	-24.44	Peak	Horizontal
	17972.80	19.46	23.65	43.11	54.00	-10.89	Average	Horizontal
	17972.80	35.27	23.65	58.92	74.00	-15.08	Peak	Horizontal
	9338.50	34.58	13.48	48.06	74.00	-25.94	Peak	Vertical
	10865.10	35.20	15.02	50.22	74.00	-23.78	Peak	Vertical
	17988.10	20.16	24.05	44.21	54.00	-9.79	Average	Vertical
	17988.10	34.67	24.05	58.72	74.00	-15.28	Peak	Vertical
11	9398.00	35.70	13.72	49.42	74.00	-24.58	Peak	Horizontal
	11407.40	35.65	14.26	49.91	74.00	-24.09	Peak	Horizontal
	17993.20	19.82	24.10	43.92	54.00	-10.08	Average	Horizontal
	17993.20	35.51	24.10	59.61	74.00	-14.39	Peak	Horizontal
	9433.70	35.83	13.68	49.51	74.00	-24.49	Peak	Vertical
	11082.70	36.00	14.48	50.48	74.00	-23.52	Peak	Vertical
	17942.20	20.45	23.17	43.62	54.00	-10.38	Average	Vertical
	17942.20	35.93	23.17	59.10	74.00	-14.90	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 1 GHz:

Site	WZ-AC1	Test Date	2025-09-08
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_Part 15.209_RSE (3m)	Test Engineer	Lucas Wang
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11b at 2437 MHz		

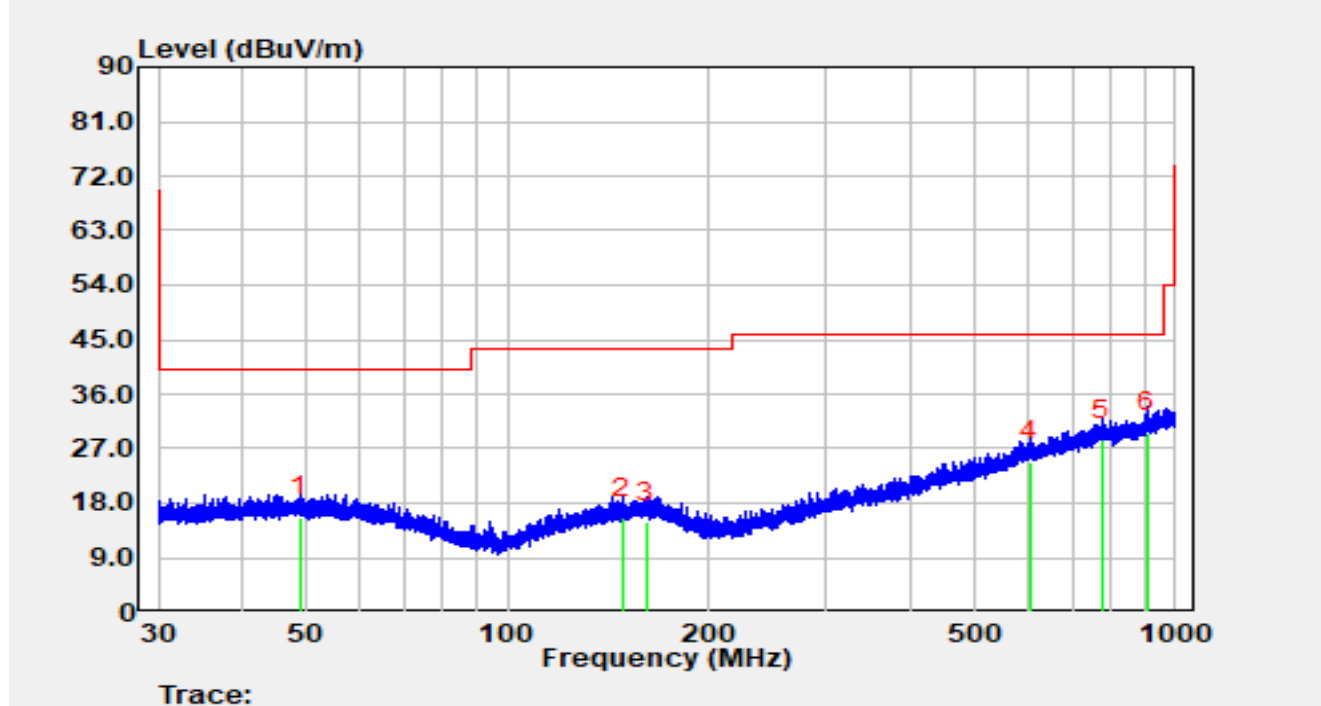


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		48.08	-2.20	18.38	16.18	-23.82	40.00	QP
2		55.07	-2.62	18.16	15.54	-24.46	40.00	QP
3		103.41	0.97	13.93	14.90	-28.60	43.50	QP
4		144.33	-2.77	17.97	15.19	-28.31	43.50	QP
5		831.57	-0.56	29.43	28.87	-17.13	46.00	QP
6	*	914.14	2.74	30.15	32.89	-13.11	46.00	QP

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- The amplitude of the radiated emissions in the frequency range from 9 kHz to 30 MHz and 18 GHz to 25 GHz 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-AC1	Test Date	2025-09-08
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_Part 15.209_RSE (3m)	Test Engineer	Lucas Wang
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11b at 2437 MHz		



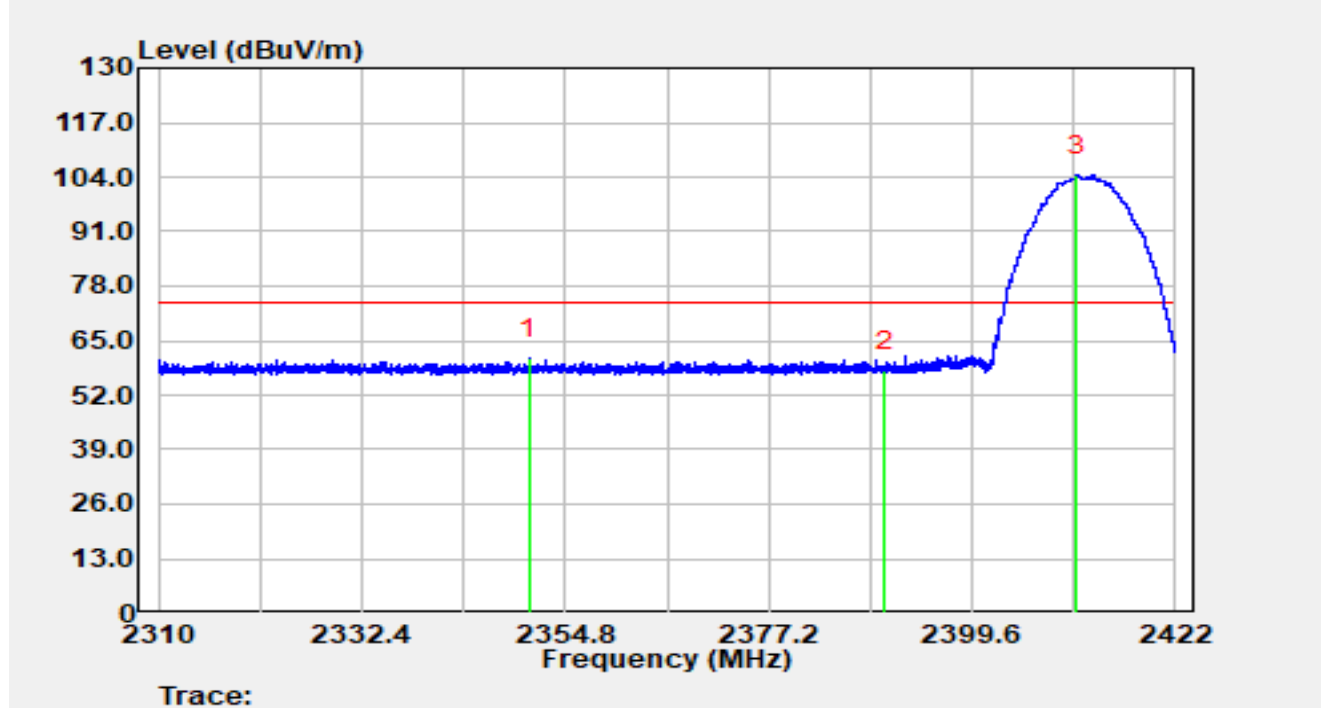
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		48.76	-2.78	18.46	15.68	-24.32	40.00	QP
2		148.39	-2.61	18.14	15.52	-27.98	43.50	QP
3		161.36	-3.41	18.31	14.90	-28.60	43.50	QP
4		605.02	-1.26	26.06	24.80	-21.20	46.00	QP
5		774.43	-0.21	28.64	28.43	-17.57	46.00	QP
6	*	905.21	-0.24	29.93	29.69	-16.31	46.00	QP

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- The amplitude of the radiated emissions in the frequency range from 9 kHz to 30 MHz and 18 GHz to 25 GHz 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-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11b at 2412 MHz		

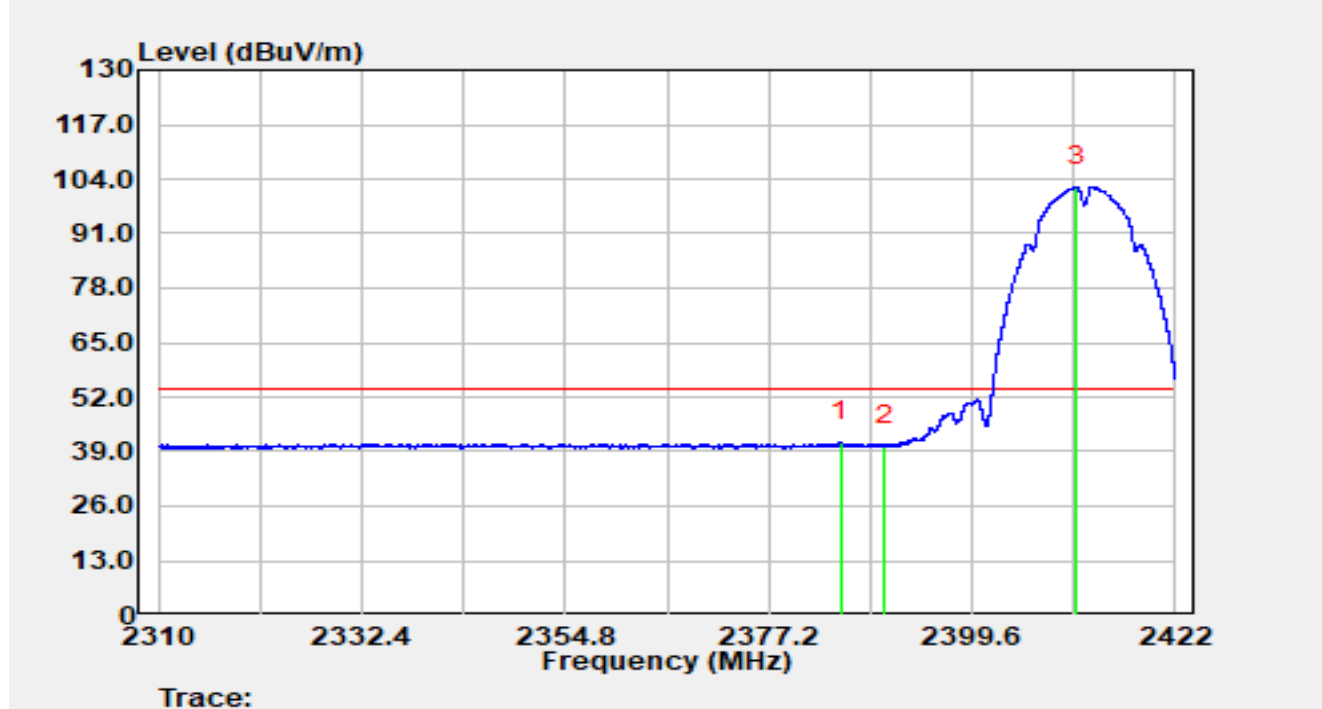


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2350.82	28.64	32.03	60.67	-13.33	74.00	Peak
2		2390.00	25.74	31.95	57.68	-16.32	74.00	Peak
3		2411.14	72.57	31.88	104.45	N/A	N/A	Peak

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11b at 2412 MHz		

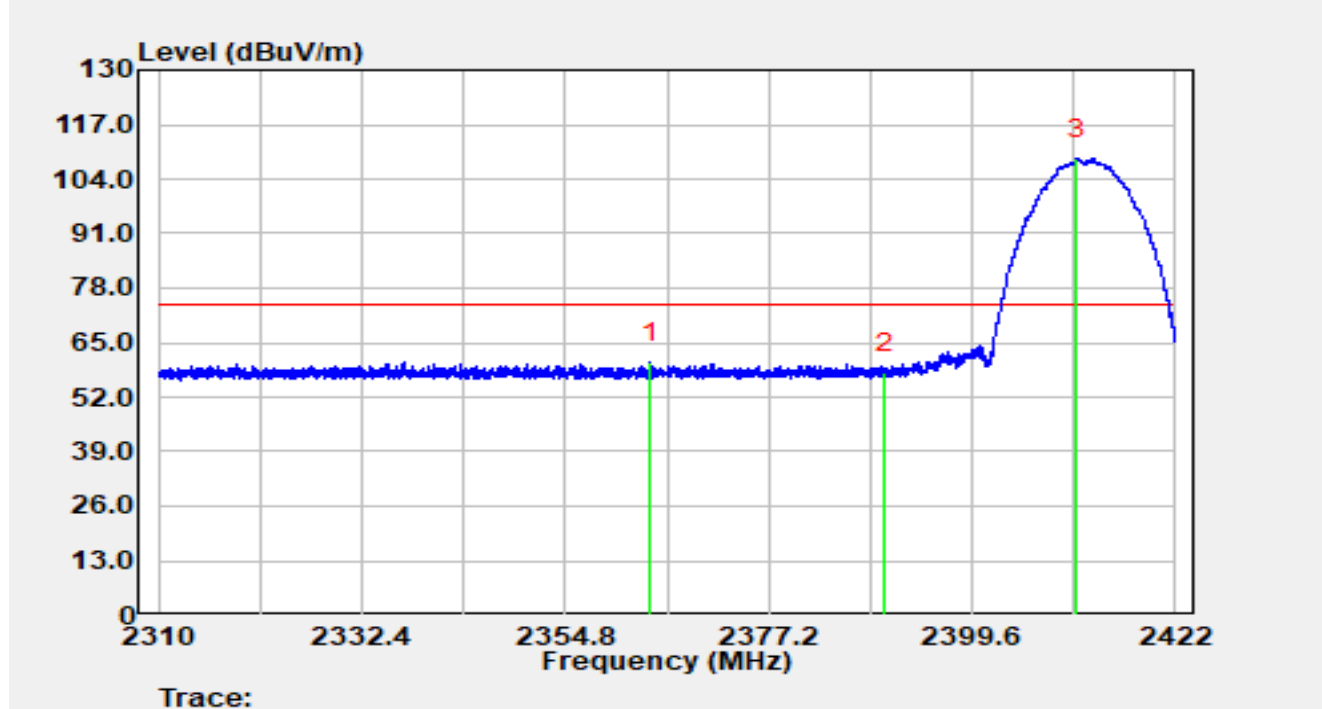


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2385.09	9.24	31.97	41.21	-12.79	54.00	Average
2		2390.00	8.32	31.95	40.26	-13.74	54.00	Average
3		2411.18	70.39	31.88	102.27	N/A	N/A	Average

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11b at 2412 MHz		

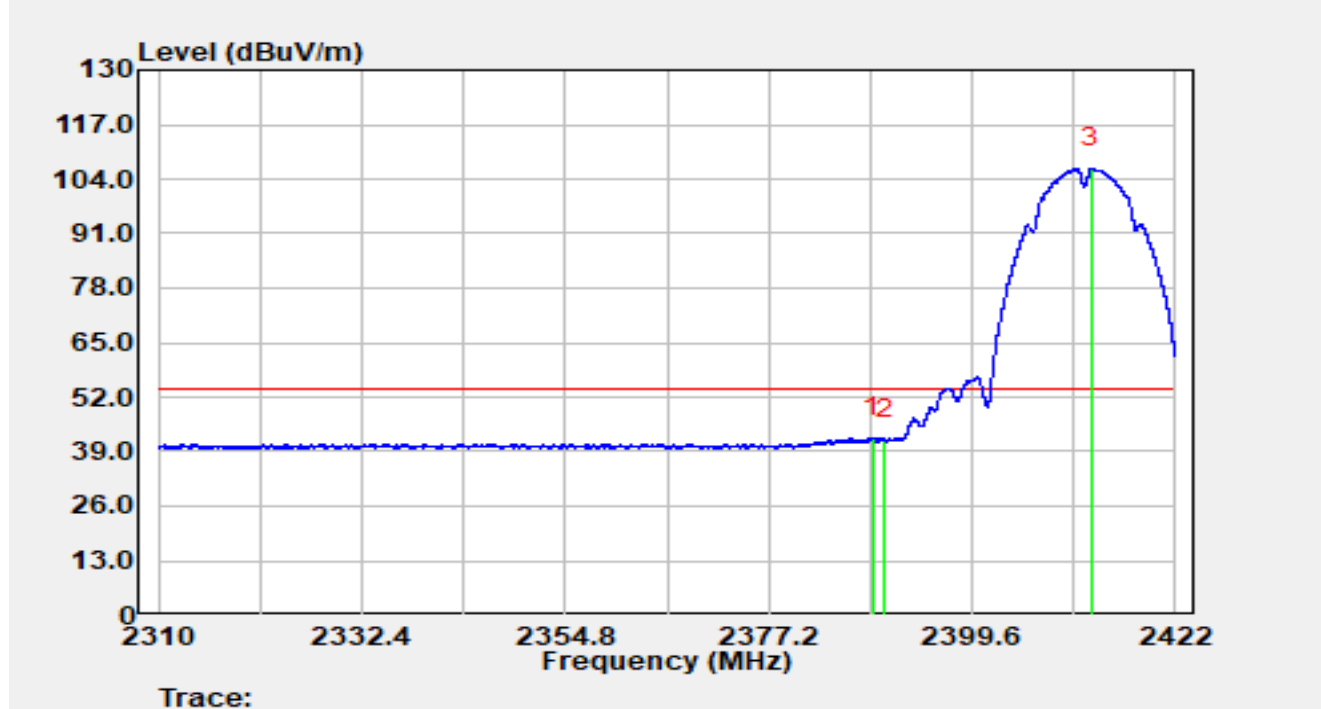


No	Mark	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Detector
1	*	2364.22	28.28	31.98	60.27	-13.73	74.00	Peak
2		2390.00	25.88	31.95	57.82	-16.18	74.00	Peak
3		2411.16	76.90	31.88	108.78	N/A	N/A	Peak

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11b at 2412 MHz		

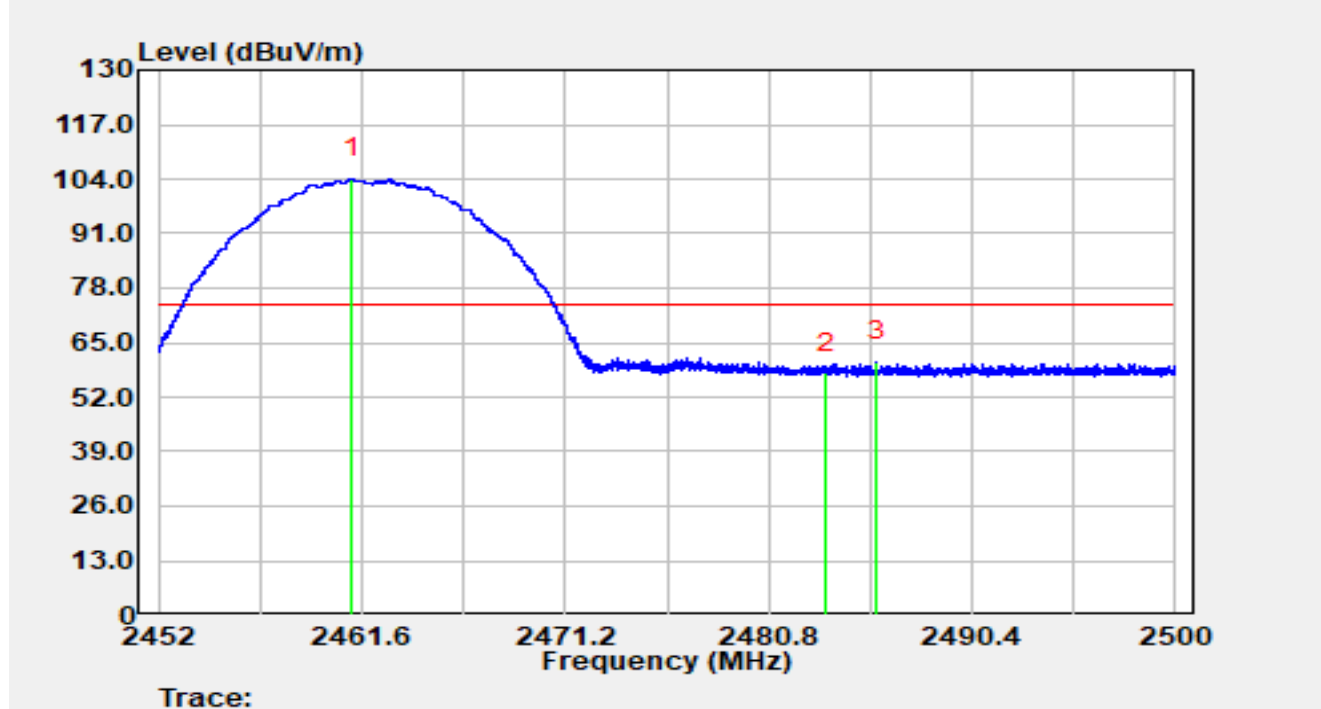


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2388.66	10.27	31.95	42.22	-11.78	54.00	Average
2		2390.00	9.79	31.95	41.74	-12.26	54.00	Average
3		2412.78	74.67	31.87	106.54	N/A	N/A	Average

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11b at 2462 MHz		

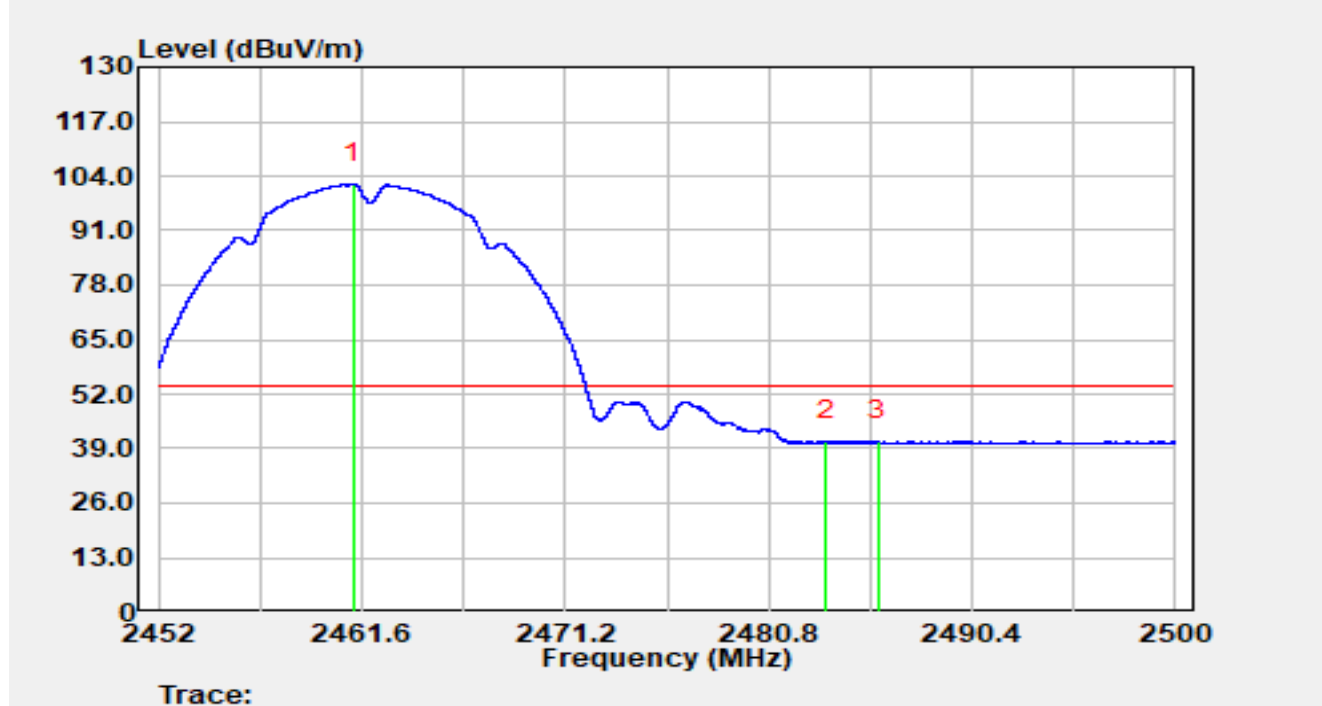


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2461.10	72.24	31.83	104.07	N/A	N/A	Peak
2		2483.50	25.83	31.81	57.64	-16.36	74.00	Peak
3	*	2485.91	28.61	31.81	60.43	-13.57	74.00	Peak

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11b at 2462 MHz		

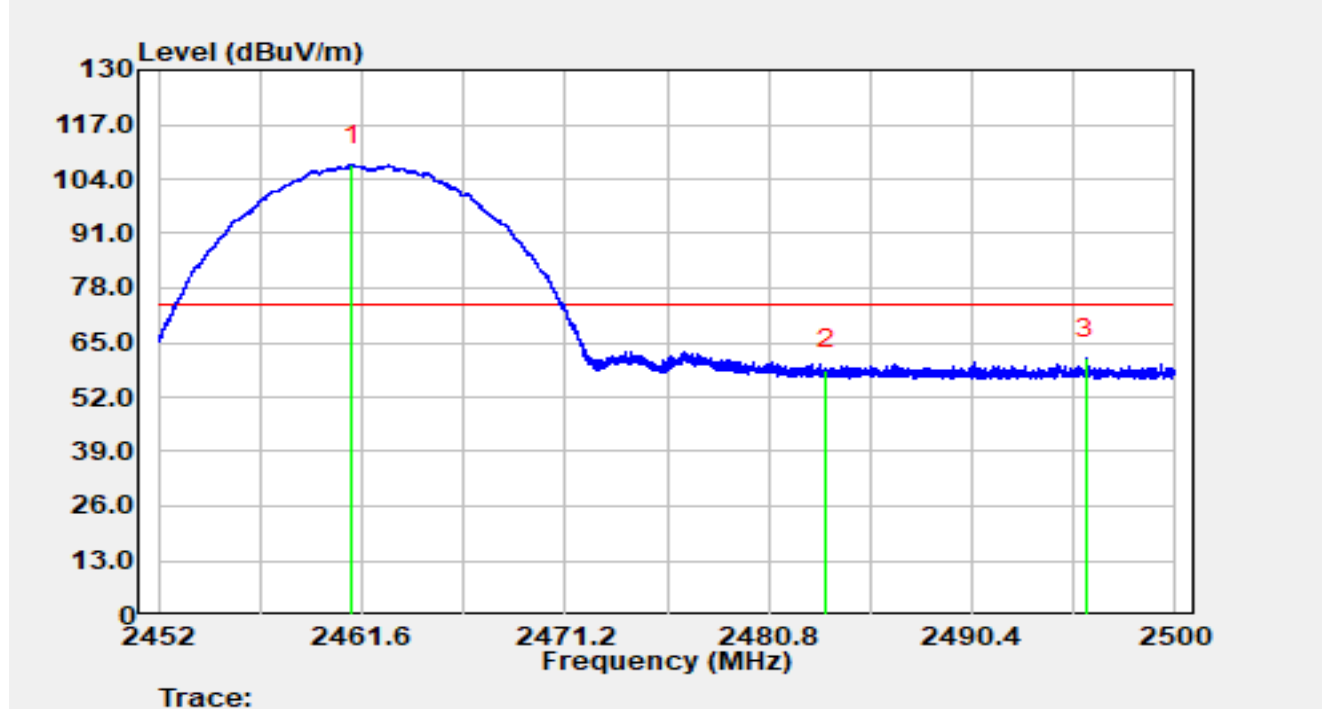


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2461.20	70.34	31.83	102.18	N/A	N/A	Average
2		2483.50	8.91	31.81	40.72	-13.28	54.00	Average
3	*	2485.99	8.99	31.82	40.81	-13.19	54.00	Average

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11b at 2462 MHz		

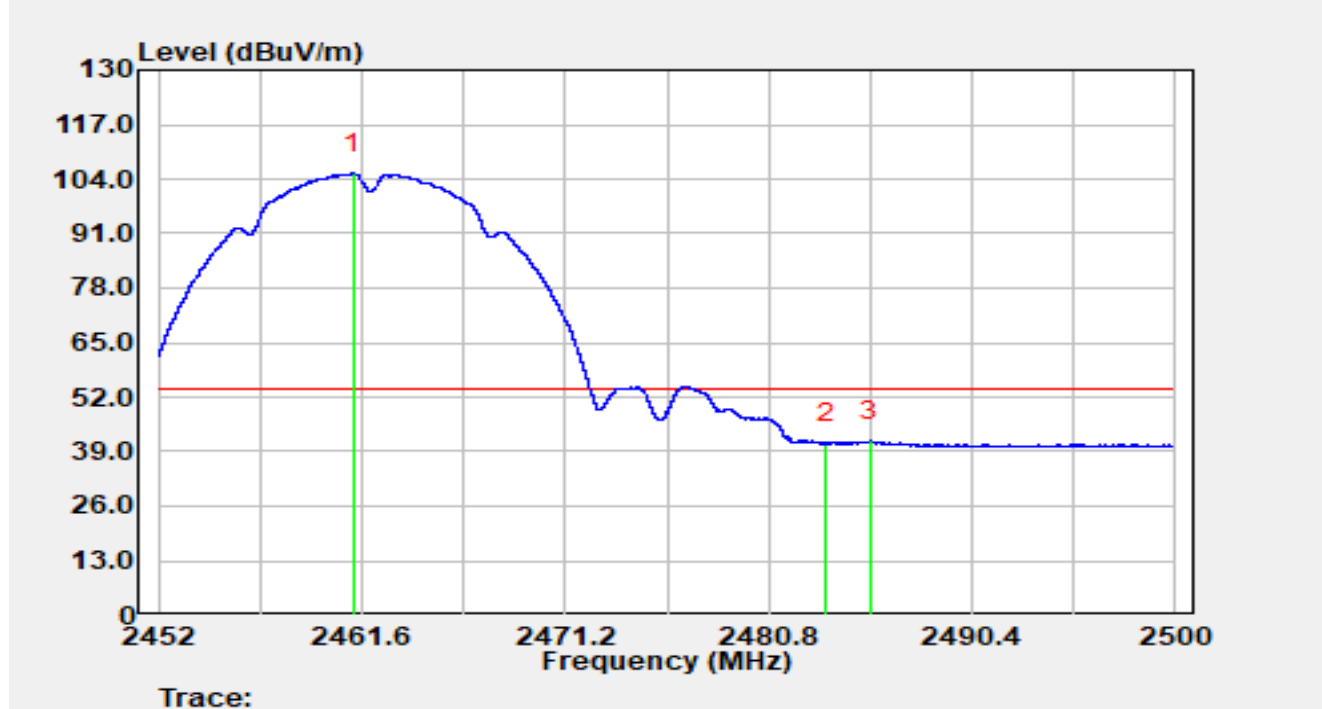


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2461.10	75.58	31.83	107.41	N/A	N/A	Peak
2		2483.50	26.70	31.81	58.51	-15.49	74.00	Peak
3	*	2495.80	29.38	31.83	61.21	-12.79	74.00	Peak

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11b at 2462 MHz		

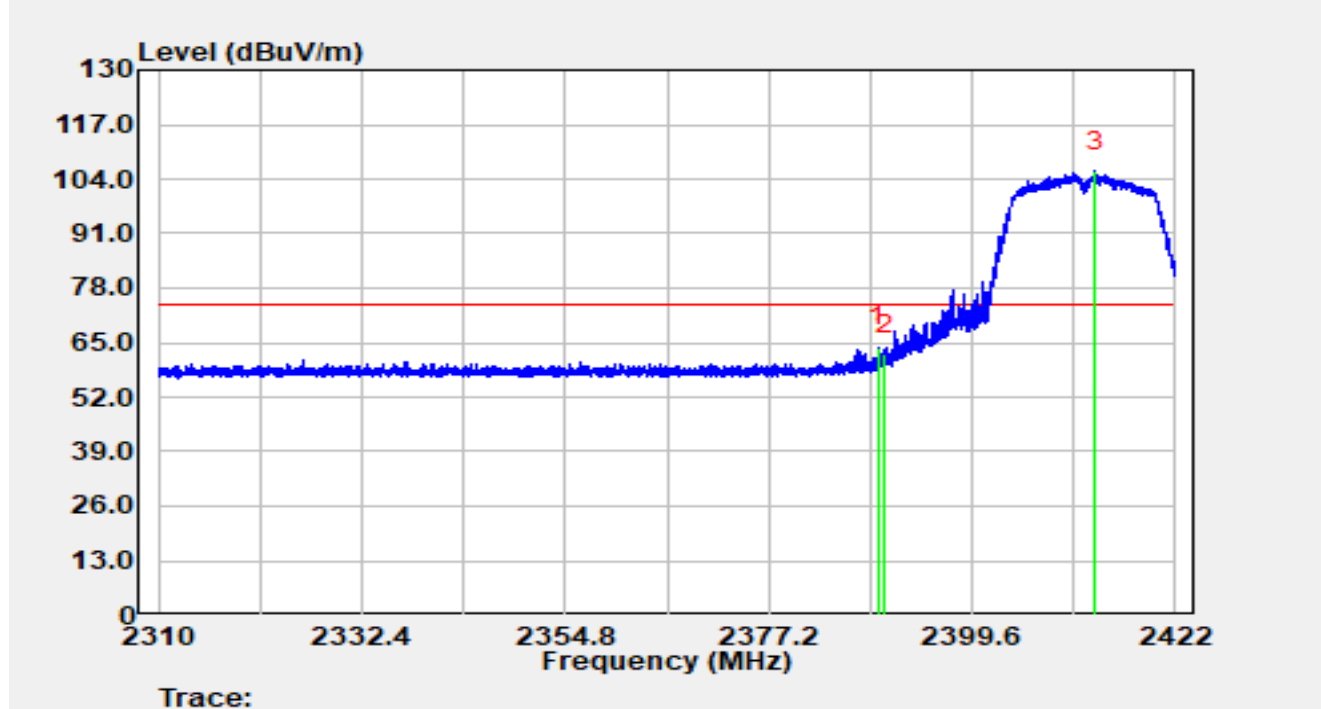


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2461.22	73.53	31.83	105.36	N/A	N/A	Average
2		2483.50	9.10	31.81	40.91	-13.09	54.00	Average
3	*	2485.57	9.76	31.81	41.58	-12.42	54.00	Average

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11g at 2412 MHz		

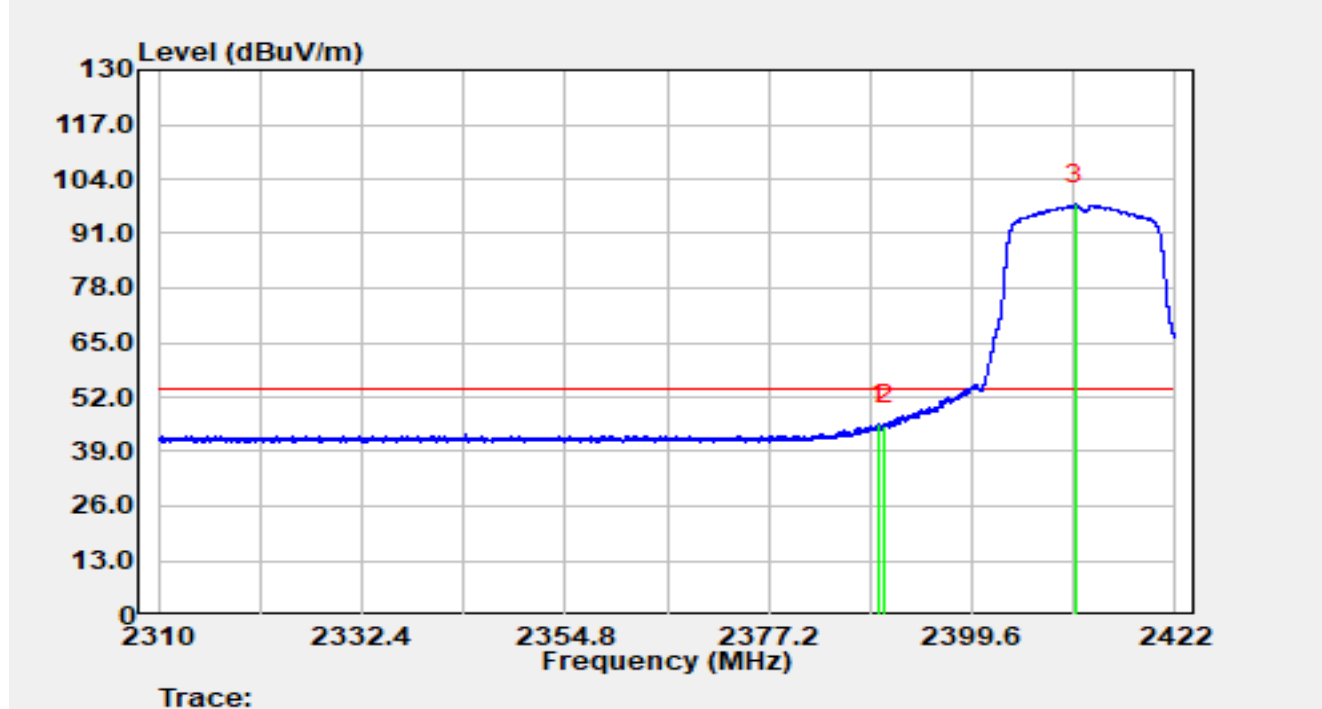


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2389.29	31.89	31.95	63.84	-10.16	74.00	Peak
2		2390.00	30.28	31.95	62.23	-11.77	74.00	Peak
3		2413.22	73.90	31.87	105.77	N/A	N/A	Peak

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11g at 2412 MHz		

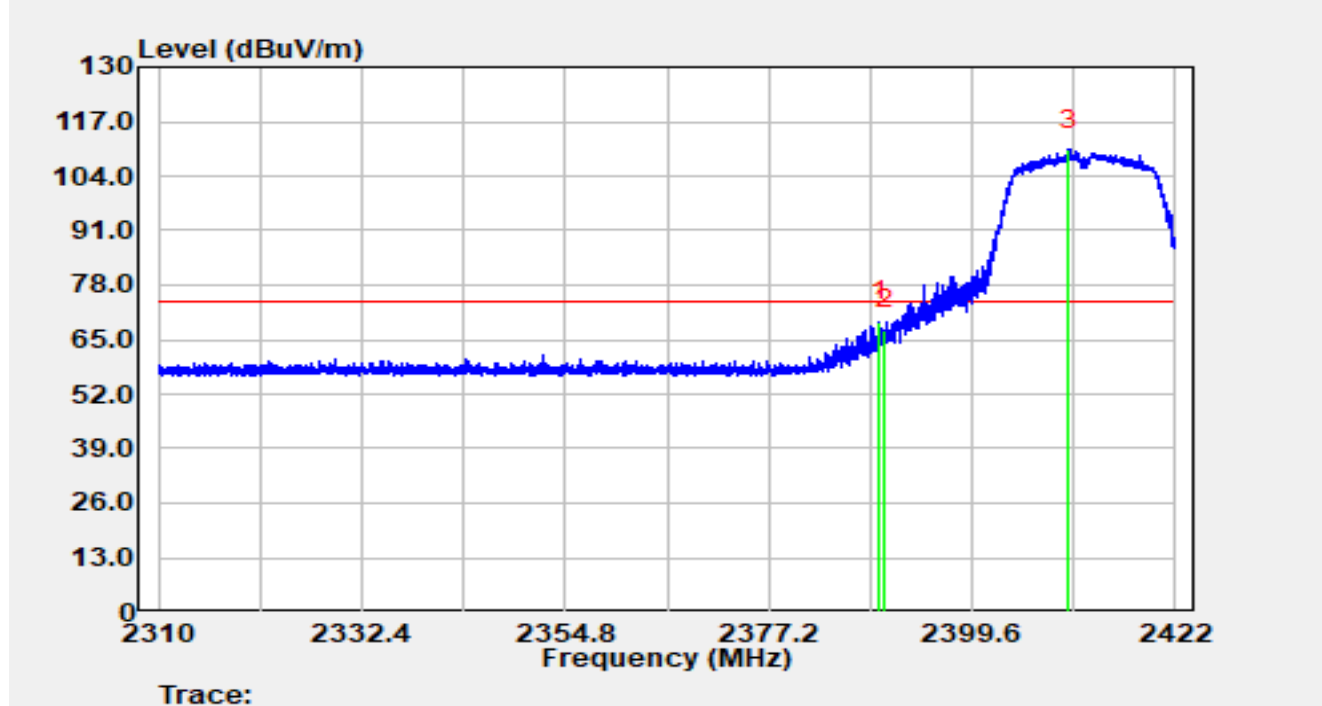


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2389.29	13.65	31.95	45.60	-8.40	54.00	Average
2		2390.00	13.20	31.95	45.14	-8.86	54.00	Average
3		2410.98	66.00	31.88	97.88	N/A	N/A	Average

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11g at 2412 MHz		

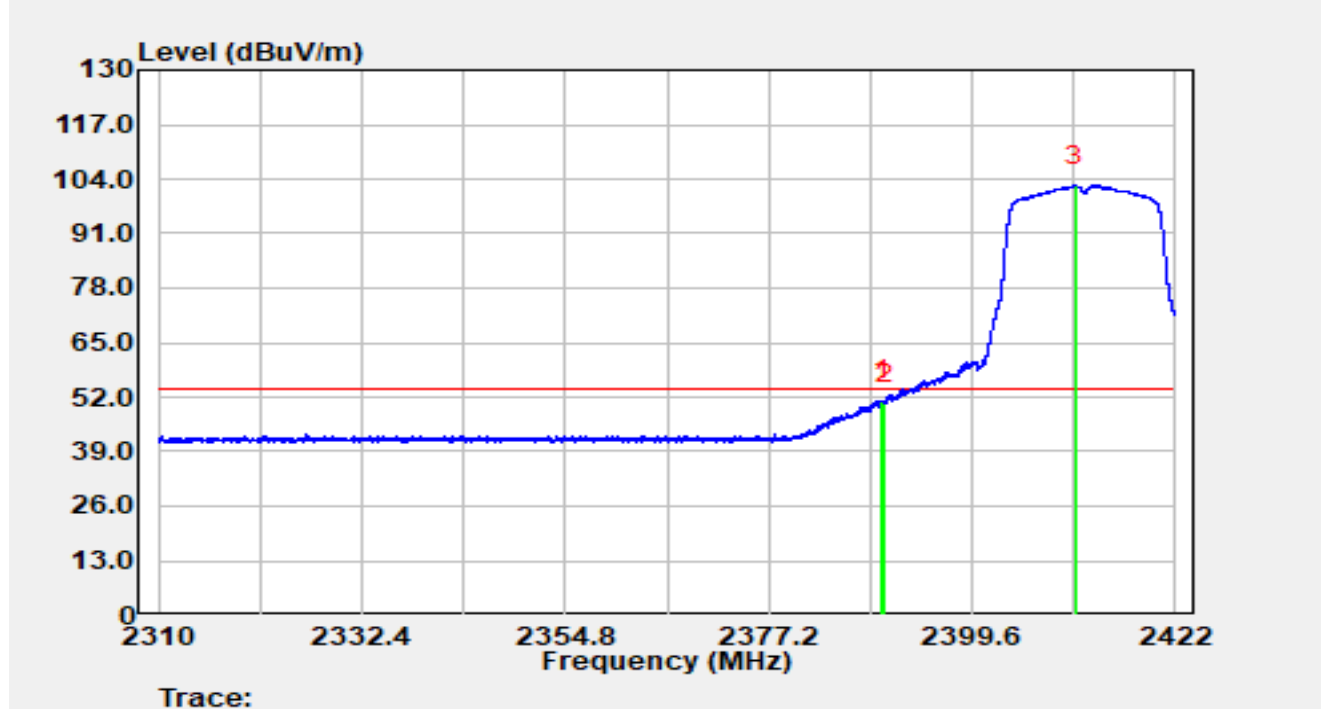


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2389.44	37.41	31.95	69.36	-4.64	74.00	Peak
2		2390.00	35.40	31.95	67.34	-6.66	74.00	Peak
3		2410.25	78.34	31.88	110.22	N/A	N/A	Peak

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11g at 2412 MHz		

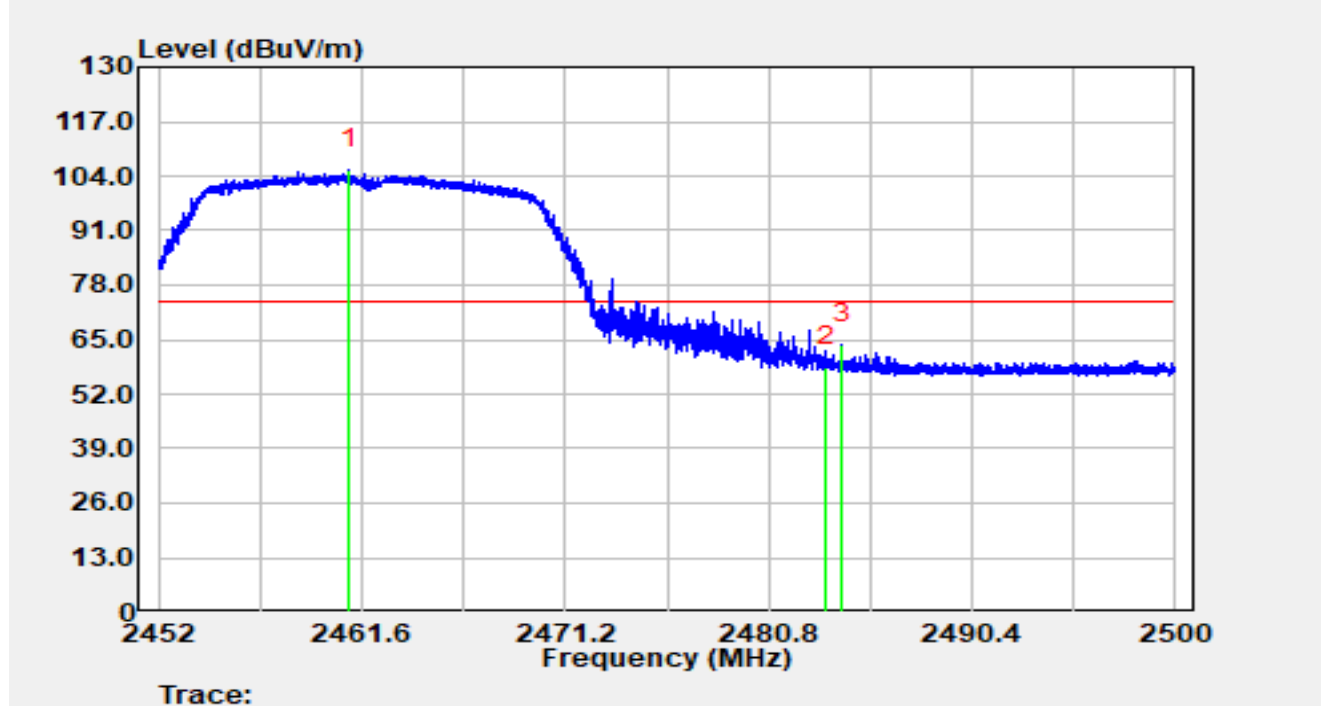


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2389.72	19.23	31.95	51.18	-2.82	54.00	Average
2		2390.00	18.58	31.95	50.53	-3.47	54.00	Average
3		2410.92	70.60	31.88	102.47	N/A	N/A	Average

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11g at 2462 MHz		

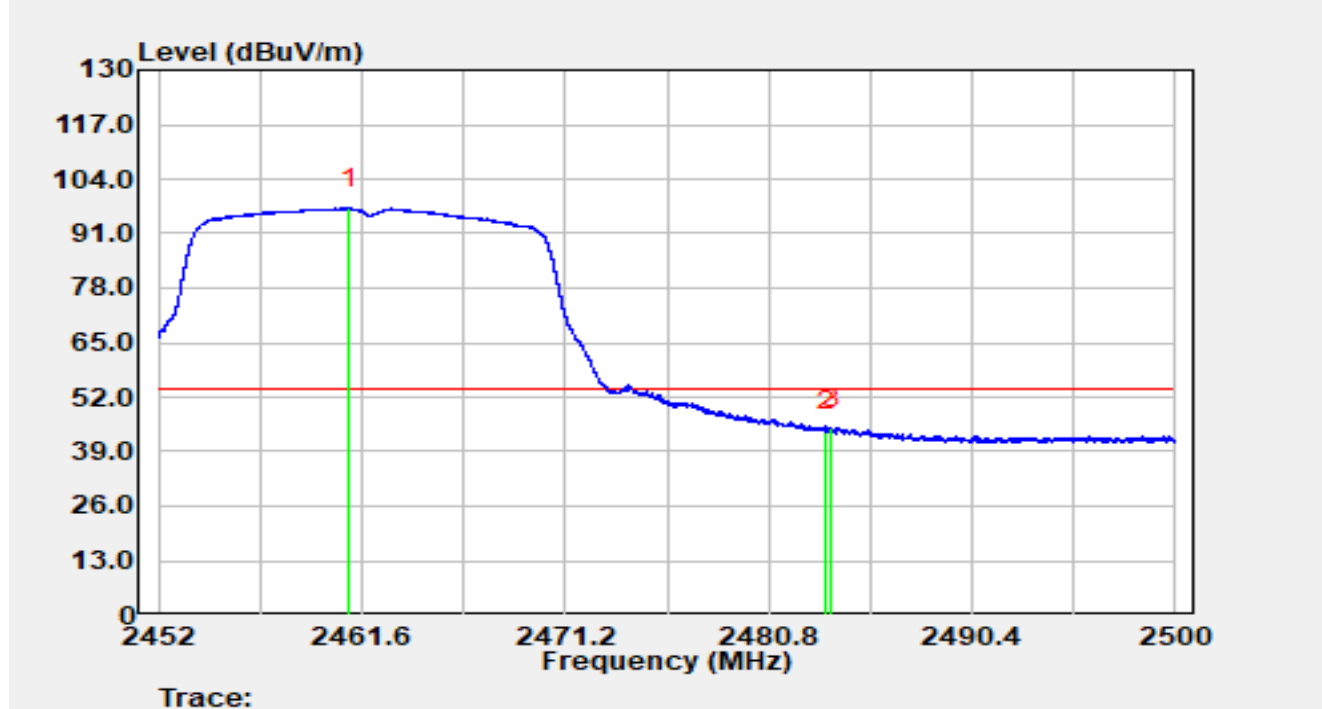


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2461.01	73.83	31.83	105.66	N/A	N/A	Peak
2		2483.50	26.60	31.81	58.41	-15.59	74.00	Peak
3	*	2484.28	32.00	31.81	63.81	-10.19	74.00	Peak

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11g at 2462 MHz		

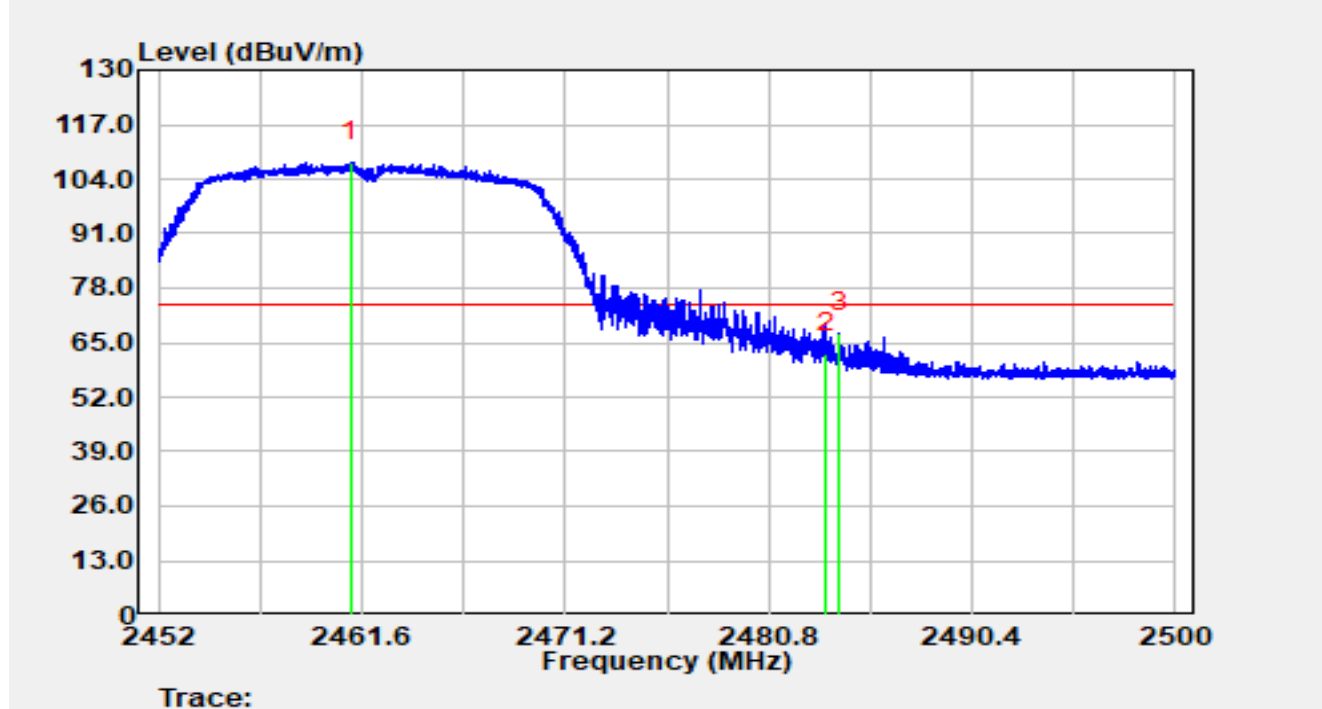


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2461.00	65.21	31.83	97.04	N/A	N/A	Average
2		2483.50	12.05	31.81	43.86	-10.14	54.00	Average
3	*	2483.76	12.81	31.81	44.62	-9.38	54.00	Average

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11g at 2462 MHz		

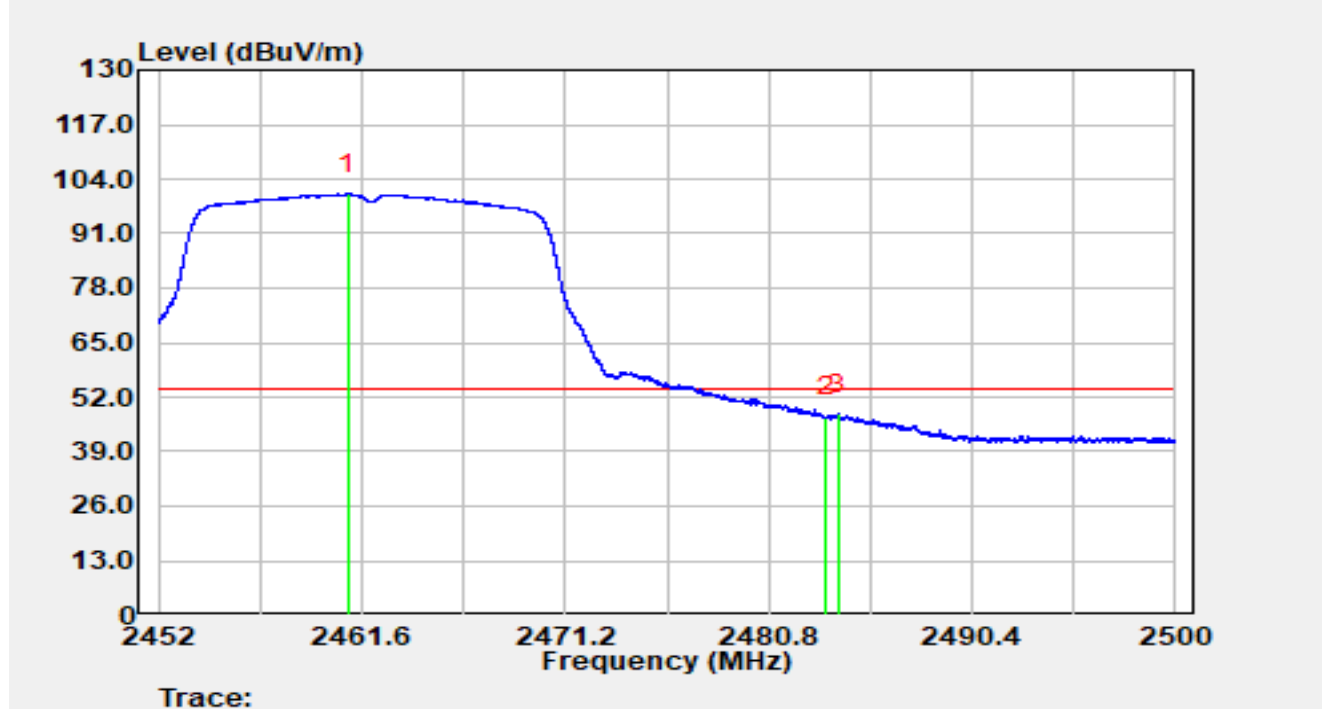


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2461.05	76.30	31.83	108.13	N/A	N/A	Peak
2		2483.50	30.69	31.81	62.50	-11.50	74.00	Peak
3	*	2484.13	35.50	31.81	67.31	-6.69	74.00	Peak

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11g at 2462 MHz		

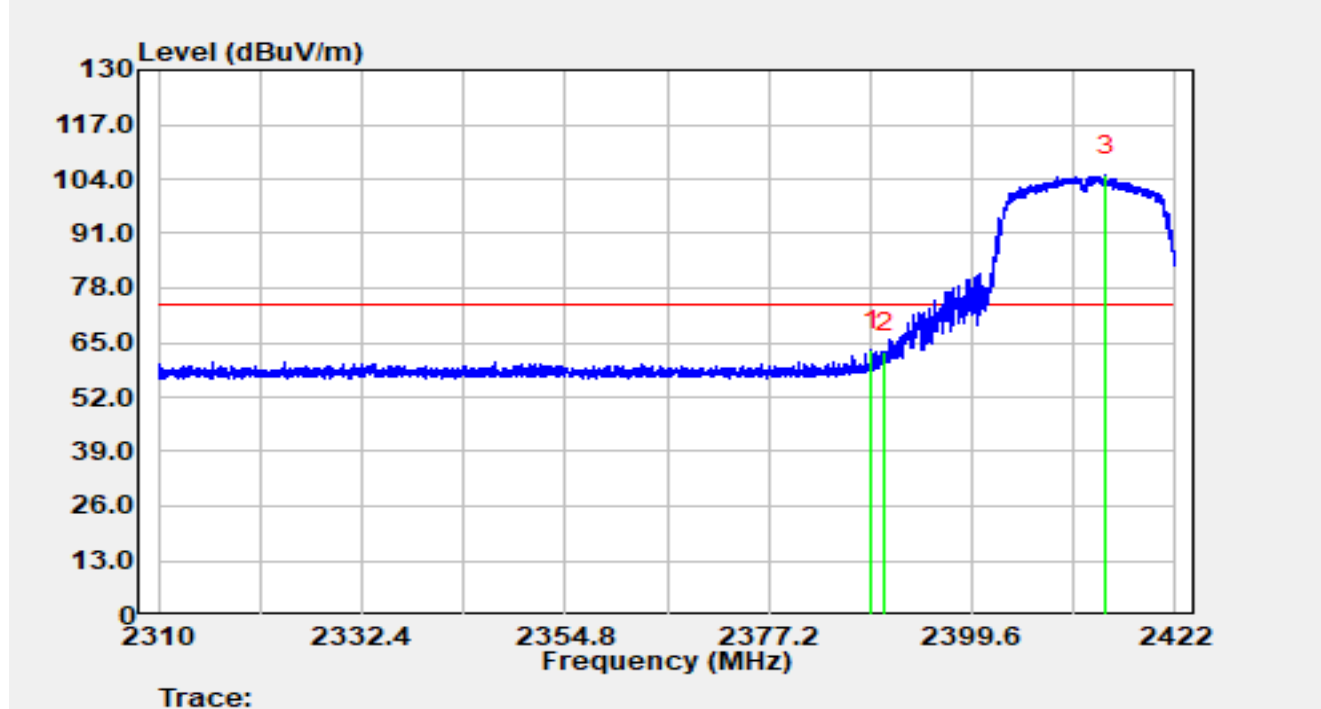


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2460.92	68.58	31.83	100.41	N/A	N/A	Average
2		2483.50	15.28	31.81	47.10	-6.90	54.00	Average
3	*	2484.08	16.11	31.81	47.92	-6.08	54.00	Average

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11n-HT20 at 2412 MHz		

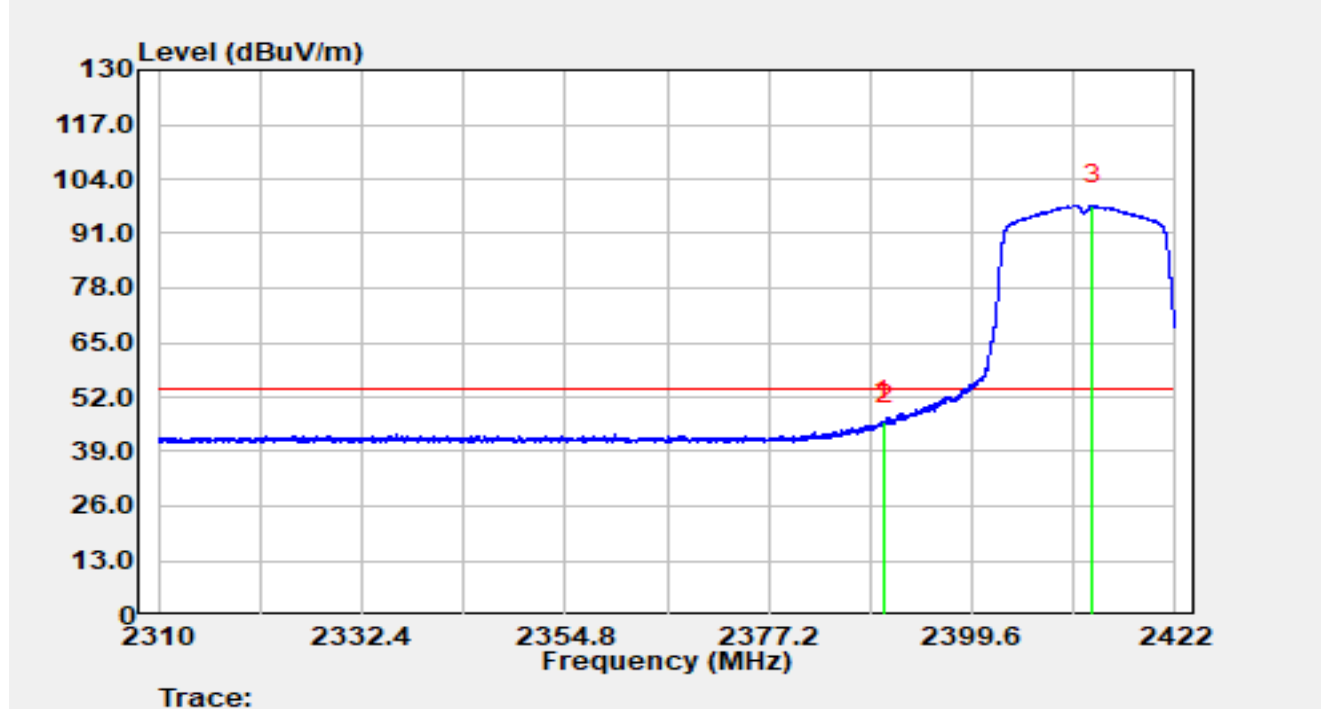


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2388.47	31.12	31.95	63.07	-10.93	74.00	Peak
2		2390.00	30.76	31.95	62.70	-11.30	74.00	Peak
3		2414.32	73.07	31.87	104.94	N/A	N/A	Peak

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11n-HT20 at 2412 MHz		

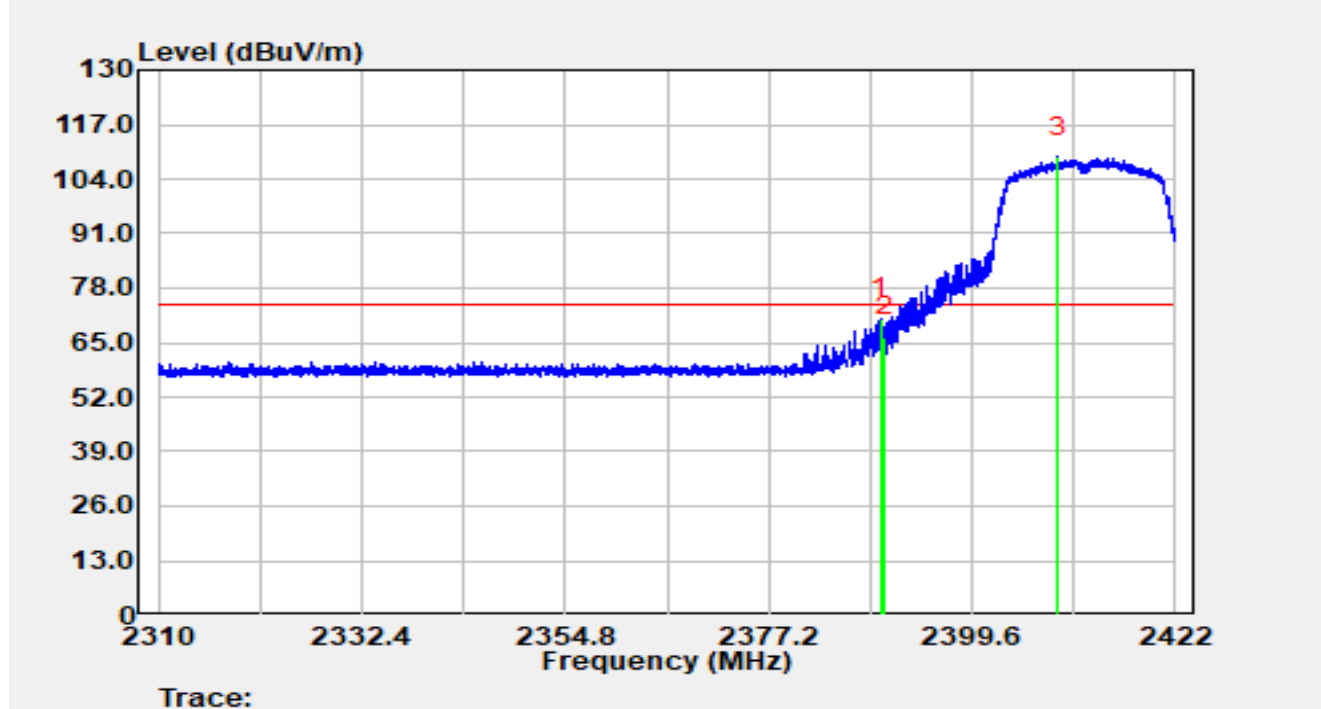


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2389.82	14.40	31.95	46.34	-7.66	54.00	Average
2		2390.00	13.49	31.95	45.43	-8.57	54.00	Average
3		2412.85	65.86	31.87	97.74	N/A	N/A	Average

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11n-HT20 at 2412 MHz		

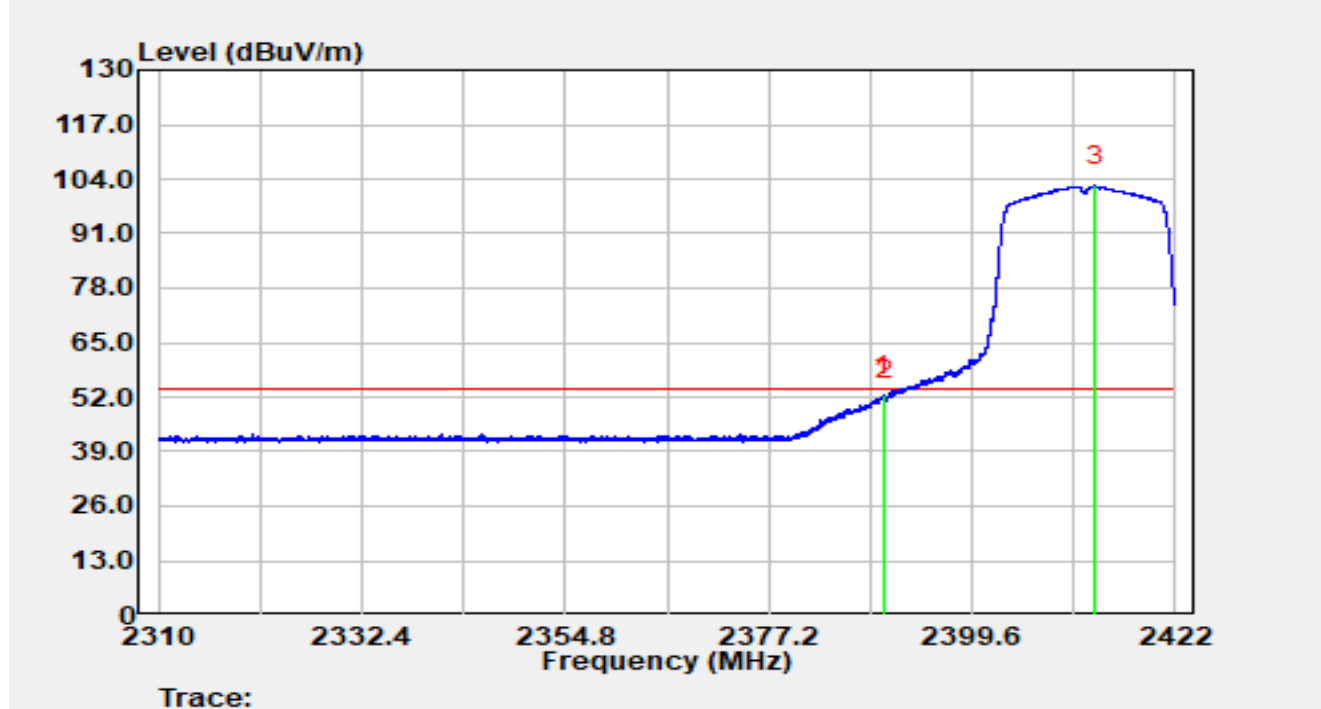


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2389.53	38.71	31.95	70.66	-3.34	74.00	Peak
2		2390.00	34.46	31.95	66.40	-7.60	74.00	Peak
3		2409.09	77.47	31.88	109.35	N/A	N/A	Peak

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11n-HT20 at 2412 MHz		

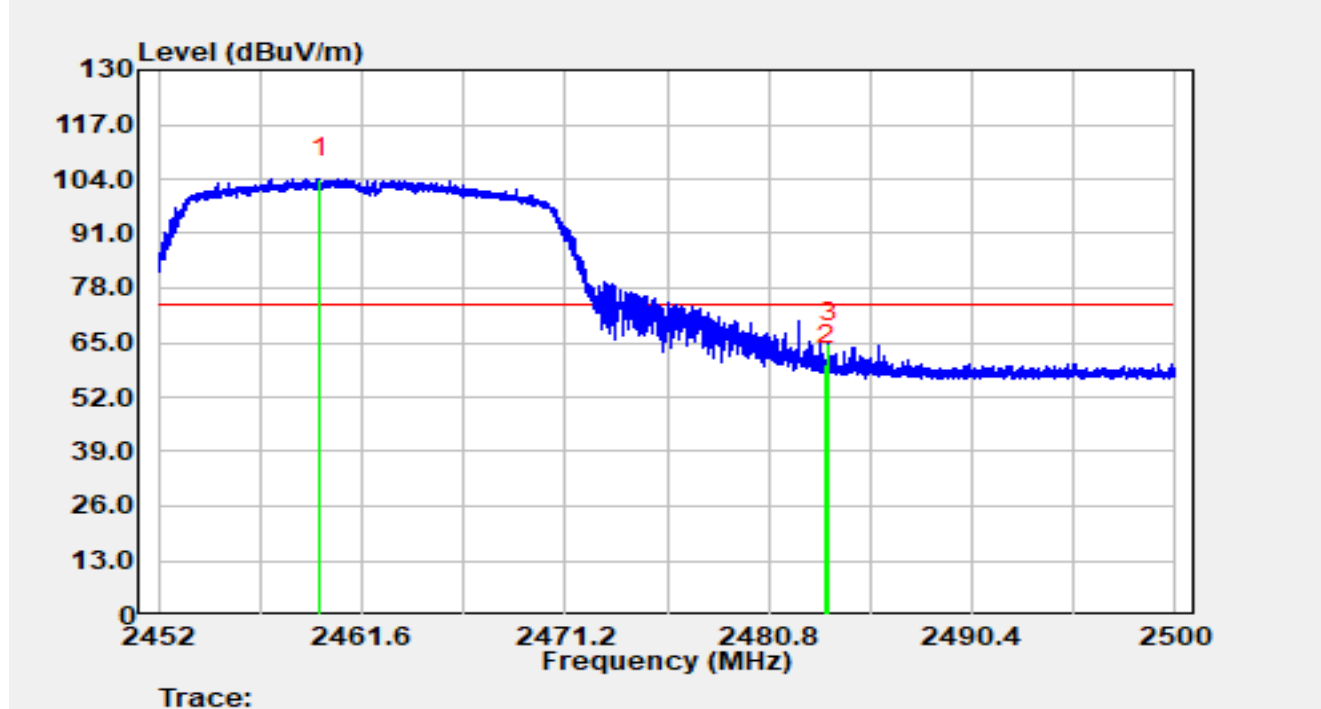


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2389.81	20.33	31.95	52.28	-1.72	54.00	Average
2		2390.00	19.35	31.95	51.29	-2.71	54.00	Average
3		2413.10	70.42	31.87	102.29	N/A	N/A	Average

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11n-HT20 at 2462 MHz		

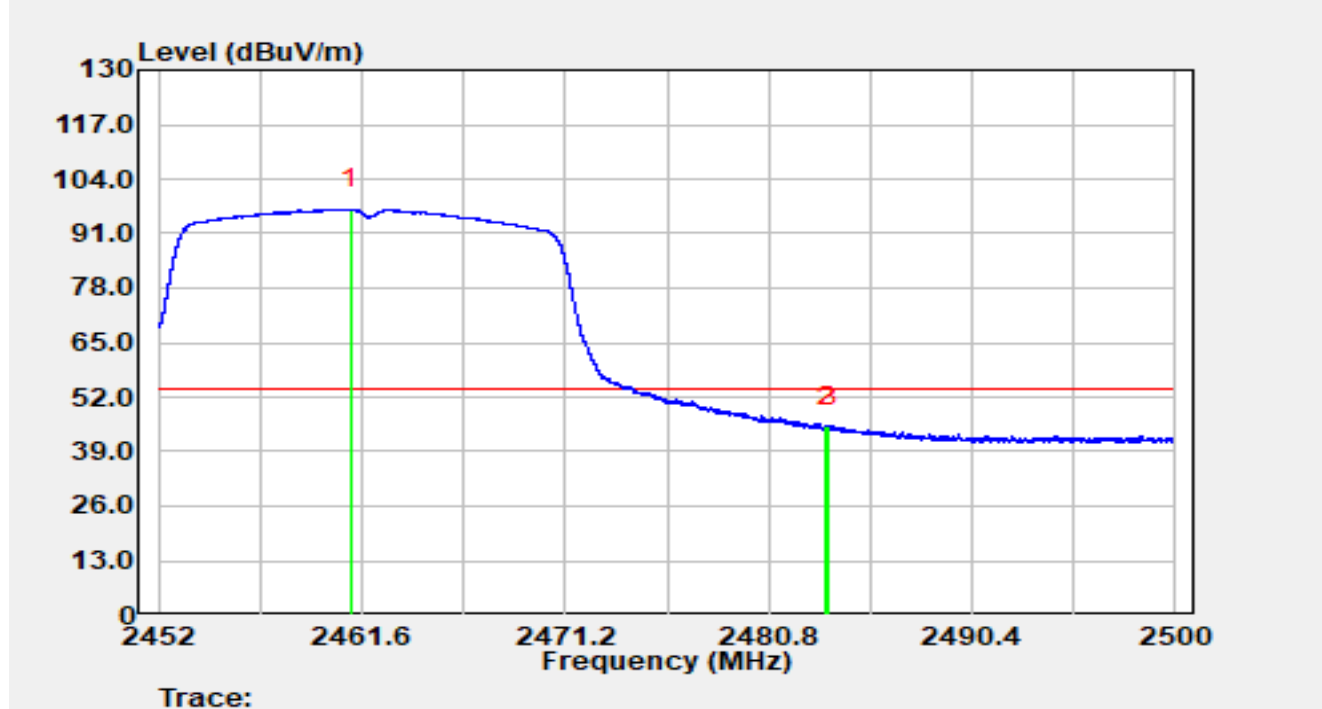


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2459.62	72.21	31.83	104.05	N/A	N/A	Peak
2		2483.50	28.00	31.81	59.81	-14.19	74.00	Peak
3	*	2483.66	33.06	31.81	64.87	-9.13	74.00	Peak

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11n-HT20 at 2462 MHz		

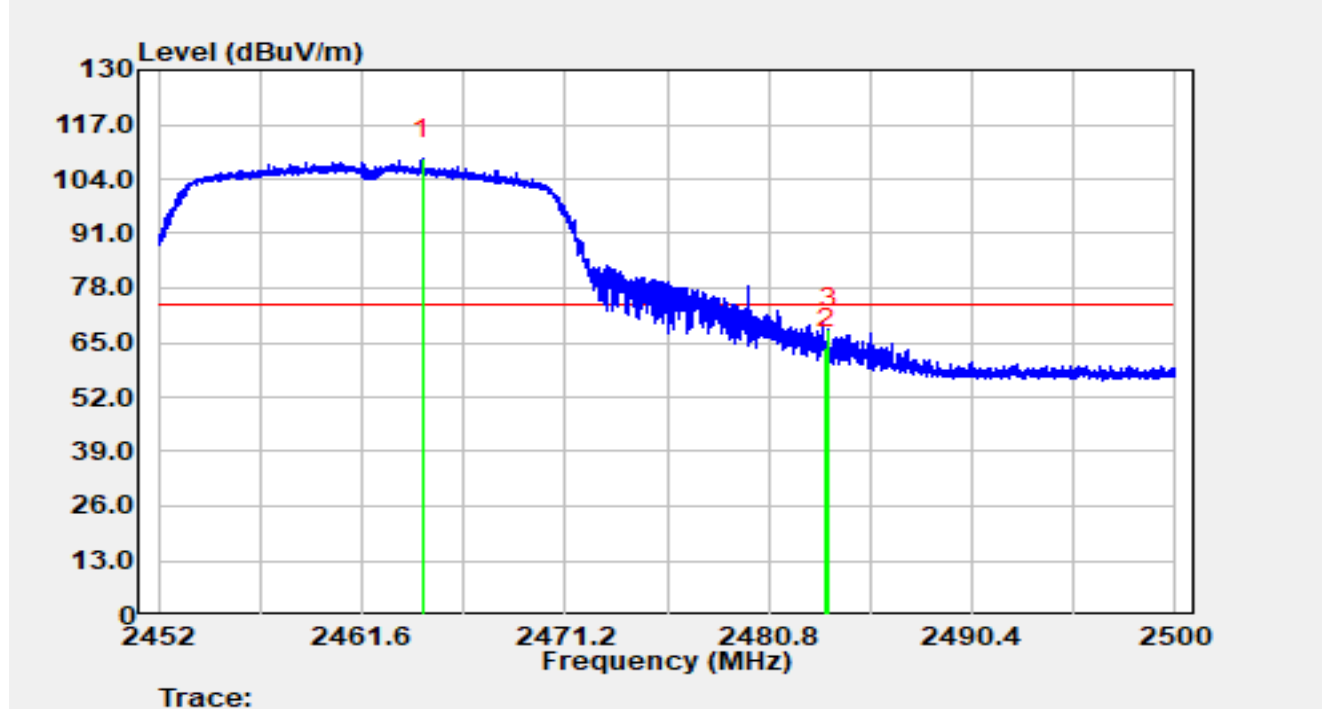


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2461.05	65.00	31.83	96.83	N/A	N/A	Average
2		2483.50	13.09	31.81	44.90	-9.10	54.00	Average
3	*	2483.67	13.18	31.81	44.99	-9.01	54.00	Average

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11n-HT20 at 2462 MHz		

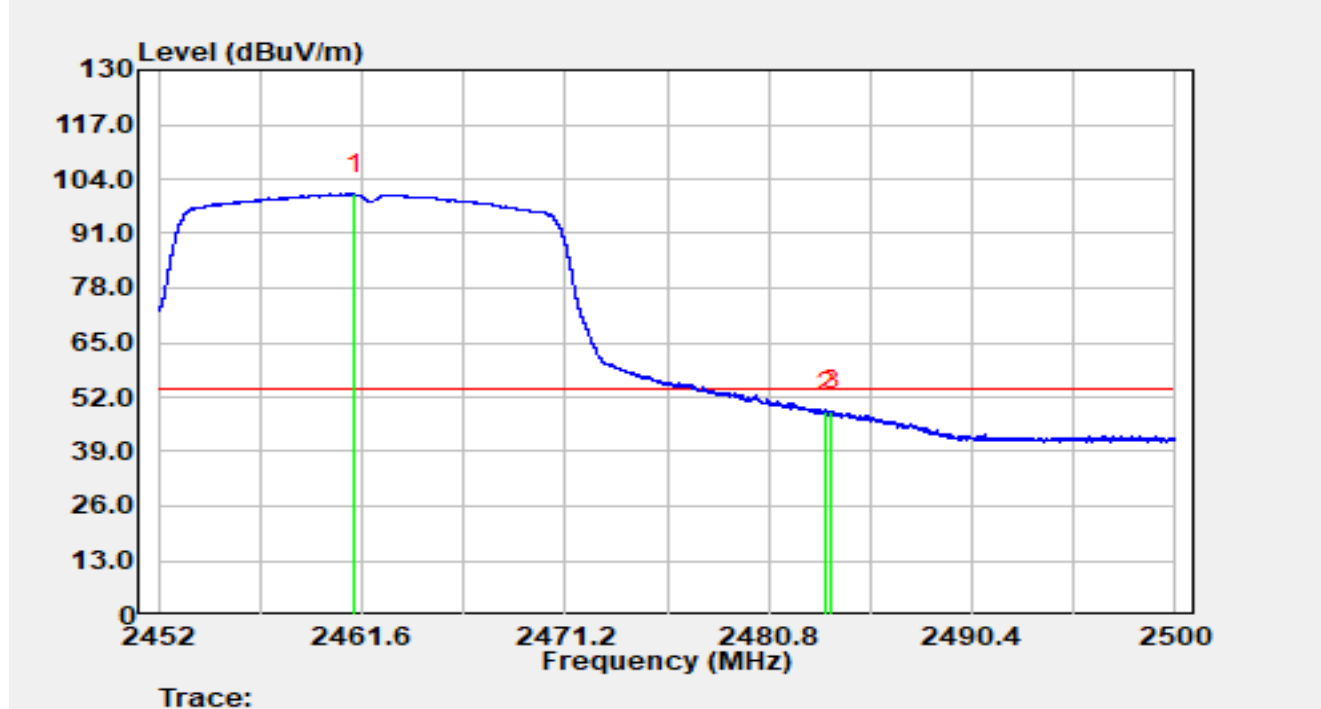


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2464.43	76.89	31.82	108.71	N/A	N/A	Peak
2		2483.50	31.87	31.81	63.68	-10.32	74.00	Peak
3	*	2483.62	36.56	31.81	68.37	-5.63	74.00	Peak

Notes:

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

Site	WZ-AC1	Test Date	2025-09-05
Temperature	24.2 °C	Humidity	47.1%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11n-HT20 at 2462 MHz		



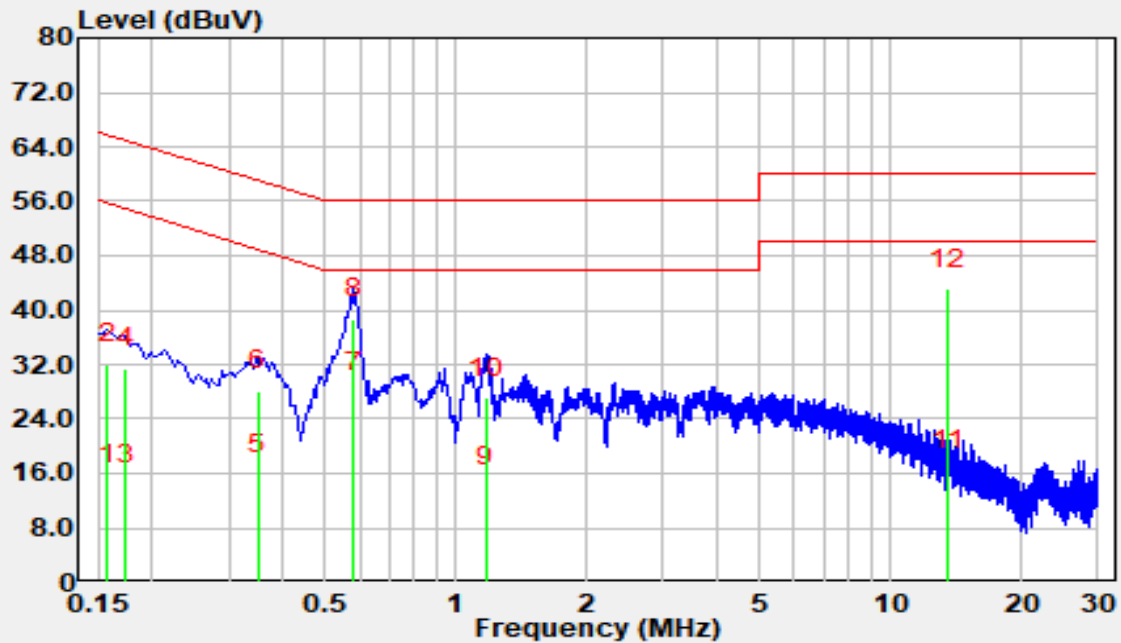
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2461.23	68.64	31.83	100.47	N/A	N/A	Average
2		2483.50	16.60	31.81	48.41	-5.59	54.00	Average
3	*	2483.76	16.94	31.81	48.75	-5.25	54.00	Average

Notes:

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

A.8 AC Conducted Emissions Test Result

Site	WZ-SR2	Test Date	2025-09-15
Temperature	26.4 °C	Humidity	57.9%
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
Test Voltage	AC 120 V/60 Hz	Polarity	Line1
Test Mode	Transmit by 802.11b at 2437 MHz		



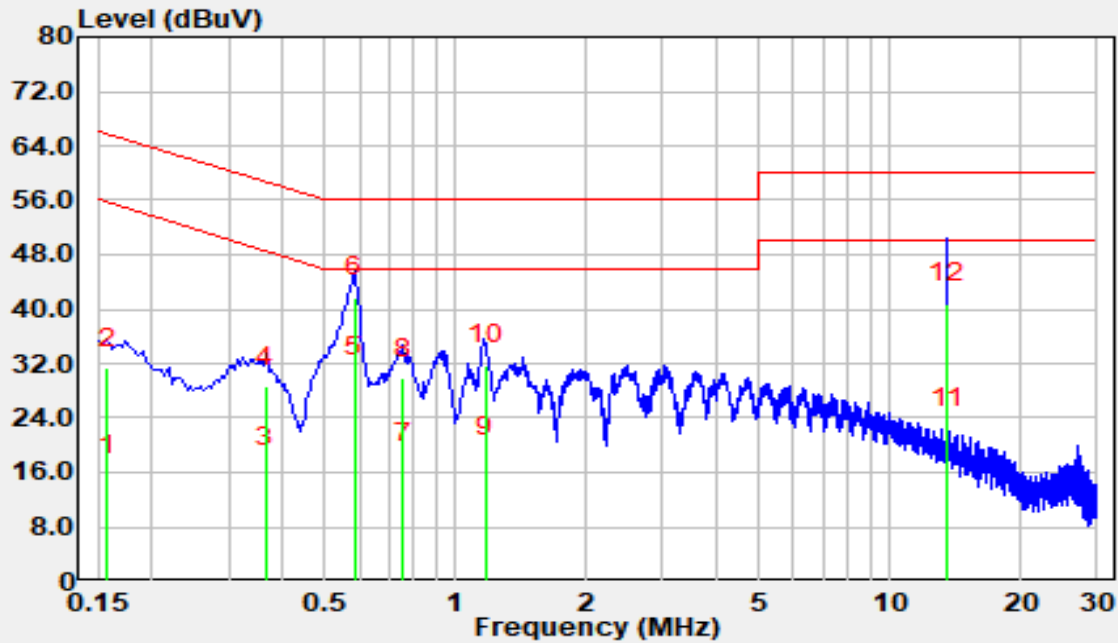
Trace:

No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.16	4.40	9.92	14.32	-41.25	55.57	Average
2		0.16	22.10	9.92	32.02	-33.55	65.57	QP
3		0.17	4.30	9.93	14.23	-40.54	54.77	Average
4		0.17	21.50	9.93	31.43	-33.34	64.77	QP
5		0.35	5.80	10.02	15.82	-33.14	48.96	Average
6		0.35	18.20	10.02	28.22	-30.74	58.96	QP
7		0.58	17.90	10.15	28.05	-17.95	46.00	Average
8		0.58	28.60	10.15	38.75	-17.25	56.00	QP
9		1.17	3.60	10.44	14.04	-31.96	46.00	Average
10		1.17	16.70	10.44	27.14	-28.86	56.00	QP
11		13.56	4.90	11.52	16.42	-33.58	50.00	Average
12	*	13.56	31.60	11.52	43.12	-16.88	60.00	QP

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB) = LISN Factor (dB) + Cable Loss (dB).
- Measurement (dBμV) = Reading (dBμV) + C.F (dB).

Site	WZ-SR2	Test Date	2025-09-15
Temperature	26.4 °C	Humidity	57.9%
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
Test Voltage	AC 120 V/60 Hz	Polarity	Neutral
Test Mode	Transmit by 802.11b at 2437 MHz		



Trace:

No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.16	5.50	9.96	15.46	-40.10	55.57	Average
2		0.16	21.30	9.96	31.26	-34.30	65.57	QP
3		0.37	6.80	10.04	16.84	-31.75	48.59	Average
4		0.37	18.60	10.04	28.64	-29.95	58.59	QP
5		0.59	19.80	10.19	29.99	-16.01	46.00	Average
6	*	0.59	31.60	10.19	41.79	-14.21	56.00	QP
7		0.76	7.20	10.27	17.47	-28.53	46.00	Average
8		0.76	19.60	10.27	29.87	-26.13	56.00	QP
9		1.17	7.80	10.47	18.27	-27.73	46.00	Average
10		1.17	21.30	10.47	31.77	-24.23	56.00	QP
11		13.56	11.10	11.48	22.58	-27.42	50.00	Average
12		13.56	29.30	11.48	40.78	-19.22	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 "R25S1049088-UT" file.

Appendix C - EUT Photograph

Refer to "R25S1049088-UE" file.

_____ The End _____