



RF MEASUREMENT REPORT

FCC ID: 2BMDV-WAW1
Applicant: Shenzhen Aiper Intelligent Co., Ltd.
Product: SMART IRRIGATION
Model No.: WAW1
Brand Name: Aiper
FCC Classification: Digital Transmission System (DTS)
FCC Rule Part(s): Part 15 Subpart C (Section 15.247)
Result: Complies
Received Date: 2025-02-14
Test Date: 2025-03-19 ~ 2025-03-28

Reviewed By:

Denise Zhou

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report 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
R25S1034028-U201	V01	Initial Report	2025-04-09	Valid

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1. General Information

1.1. Applicant

Shenzhen Aiper Intelligent Co., Ltd.

Units 3201, 3203A and 3205, 32nd Floor, Block C, Minle Community, Minzhi Street, Longhua District, Shenzhen China

1.2. Manufacturer

Shenzhen Aiper Intelligent Co., Ltd.

Units 3201, 3203A and 3205, 32nd Floor, Block C, Minle Community, Minzhi Street, Longhua District, Shenzhen China

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian’edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Location (Suzhou - Wujiang) Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People’s Republic of China
	Laboratory Accreditations
	A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001
	VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
☐	Test Site – MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
☐	Test Site – MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	SMART IRRIGATION
Model No.	WAW1
EUT Identification No.	20250220Sample#17 (Conducted) 20250318Sample#02 (Radiated)
Wi-Fi Specification	802.11b/g/n
Bluetooth Specification	BLE only
Antenna Information	Refer to Section 1.5
Operating Temp.	0~40 °C
Power Type	AC Adapter Input
Accessories	
AC Adapter	Model: GC44-210180-1DG Input: 120V ~ 50-60Hz, 1.5A Output: 21.0V, 1.8A, 37.8W
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification under Test

Frequency Range	802.11b/g/n-HT20: 2412 ~ 2462MHz
Channel Number	802.11b/g/n-HT20: 11
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 72.2Mbps
Antenna Type	FPC
Antenna Gain	-1.63 dBi

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	--	--

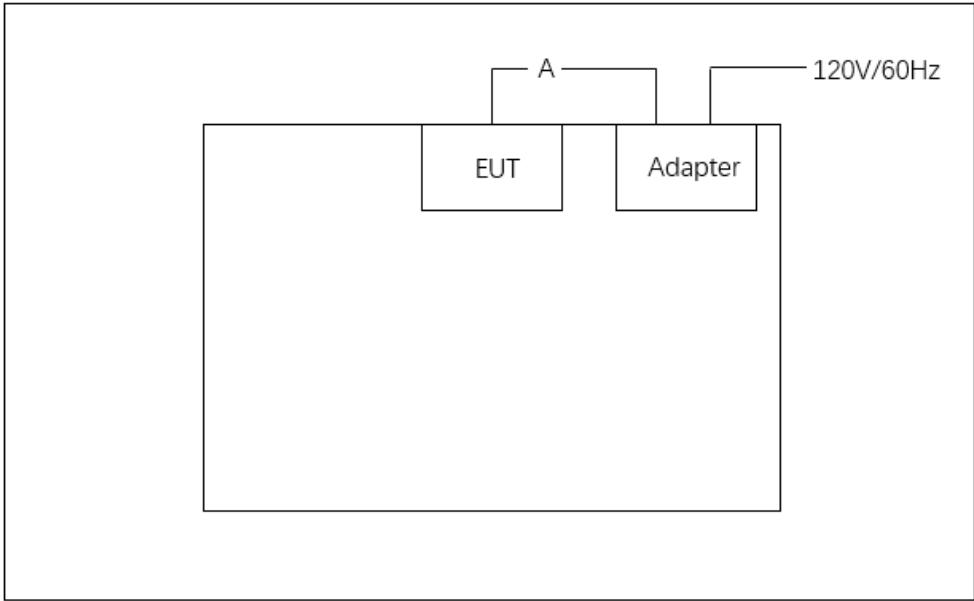
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by 802.11b (1Mbps)
Mode 2: Transmit by 802.11g (6Mbps)
Mode 3: Transmit by 802.11n-HT20 (MCS0)
Note: The modulation and the data rate picked for testing are determined by the Max. RF conducted power.

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			
			
No.	Cable Type	Cable Spec.	Length
A	Power Cable	Non-Shielded	0.23m

2.3. Test Software

The test utility software used during testing was “EspRFTTestTool”, and the version was 3.6.

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	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2025-05-08	WZ-SR5
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2025-05-12	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11092	1 year	2025-06-05	WZ-SR5
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2025-11-19	WJ-AC2
EXA Signal Analyzer	Keysight	N9010B	MRTSUE07147	1 year	2025-04-28	WJ-AC2
TRILOG Broad Band Antenna	Schwarzbeck	VULB 9163	MRTSUE07097	1 year	2025-04-24	WJ-AC2
Preamplifier	EMCI	EMC118A45SE	MRTSUE07102	1 year	2025-04-11	WJ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE07103	1 year	2025-04-14	WJ-AC2
Horn Antenna	RFSPIN	DRH18-E	MRTSUE07105	1 year	2025-05-12	WJ-AC2
Anechoic Chamber	TDK	WJ-AC2	MRTSUE07117	1 year	2025-05-14	WJ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11315	1 year	2025-06-24	WJ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11332	1 year	2025-06-24	WJ-AC2
Broadband Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE07100	1 year	2025-04-24	WJ-AC2
EMI Test Receiver	R&S	ESR3	MRTSUE07111	1 year	2025-04-18	WJ-AC2
EMI Test Receiver	R&S	ESR3	MRTSUE07112	1 year	2025-04-21	WJ-SR5
Shielding Room	TDK	WJ-SR5	MRTSUE07127	N/A	N/A	WJ-SR5
Two-Line V-Network	R&S	ENV216	MRTSUE07201	1 year	2025-05-26	WJ-SR5
Two-Line V-Network	R&S	ENV216	MRTSUE07202	1 year	2025-05-26	WJ-SR5
Thermohygrometer	testo	608-H1	MRTSUE11317	1 year	2025-06-24	WJ-SR5

Software	Version	Function
e3	230711	RE & CE
CONTROLLER CO3000	v 1.03.02	RE Antenna & Turntable
Agilent Power Analyzer/Agilent Power Panel	V R03.09.00	Power

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

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

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

6. Test Result

6.1. Summary

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

Note: 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.

6.2. 6dB Bandwidth Measurement

6.2.1. Test Limit

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

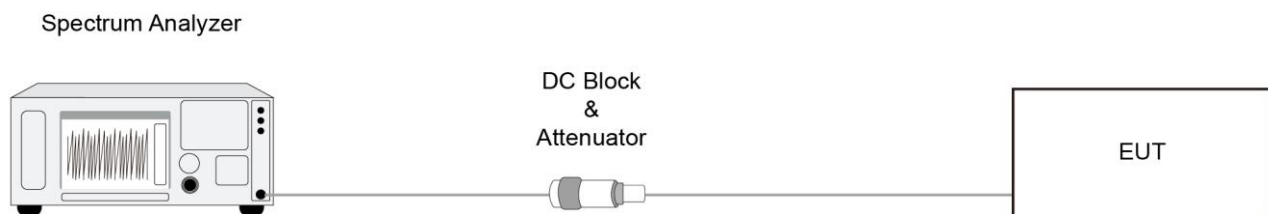
6.2.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.8

6.2.3. Test Setting

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

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. Output Power Measurement

6.3.1. Test Limit

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

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

6.3.2. Test Procedure

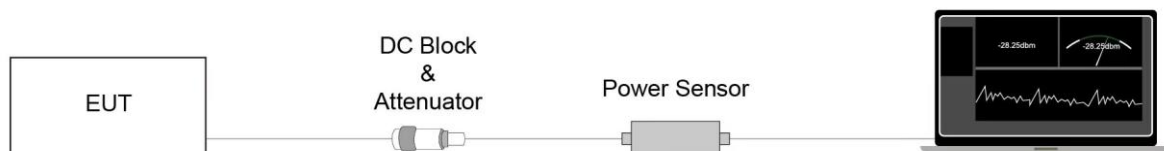
ANSI C63.10 - 2013 - Section 11.9.2.3.2

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 8dBm in any 3 kHz band.

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

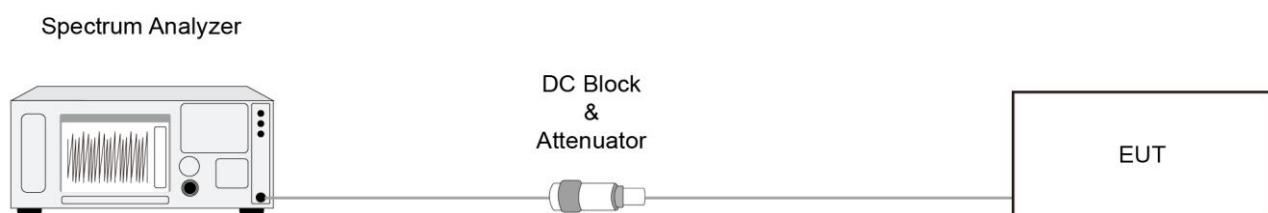
6.4.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.10.5

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. Set span to at least 1.5 times the OBW.
4. RBW = 10 kHz.
5. VBW = 30 kHz.
6. Detector = RMS.
7. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
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. Add $10 \log (1/x)$, where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time. 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



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

6.5.2. Test Procedure

ANSI C63.10-2013 - Section 11.11

6.5.3. Test Setting

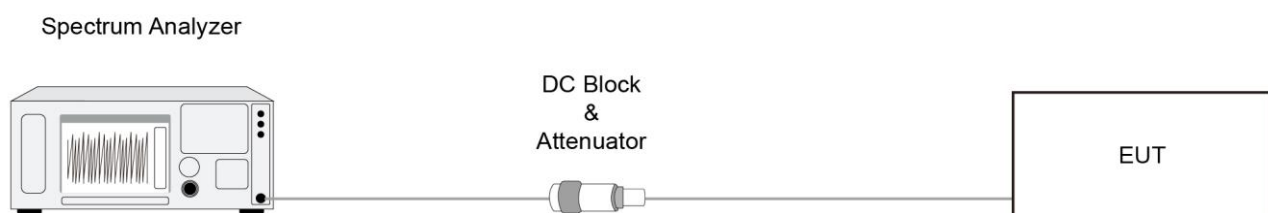
Reference level measurement

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

Emission level measurement

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

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Radiated Spurious Emission Measurement

6.6.1. Test Limit

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

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

6.6.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.11 & 11.12

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

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

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

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

6.6.3. Test Setting

Table 1 - RBW as a function of frequency

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

Quasi-Peak Measurements below 1GHz

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

Peak Measurements above 1GHz

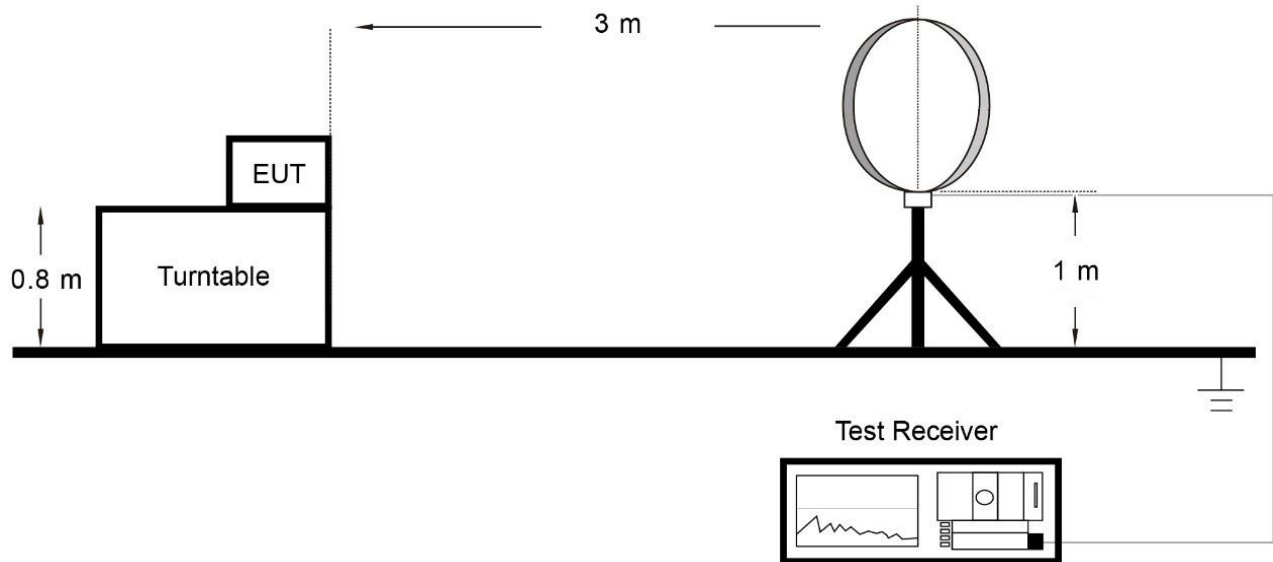
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

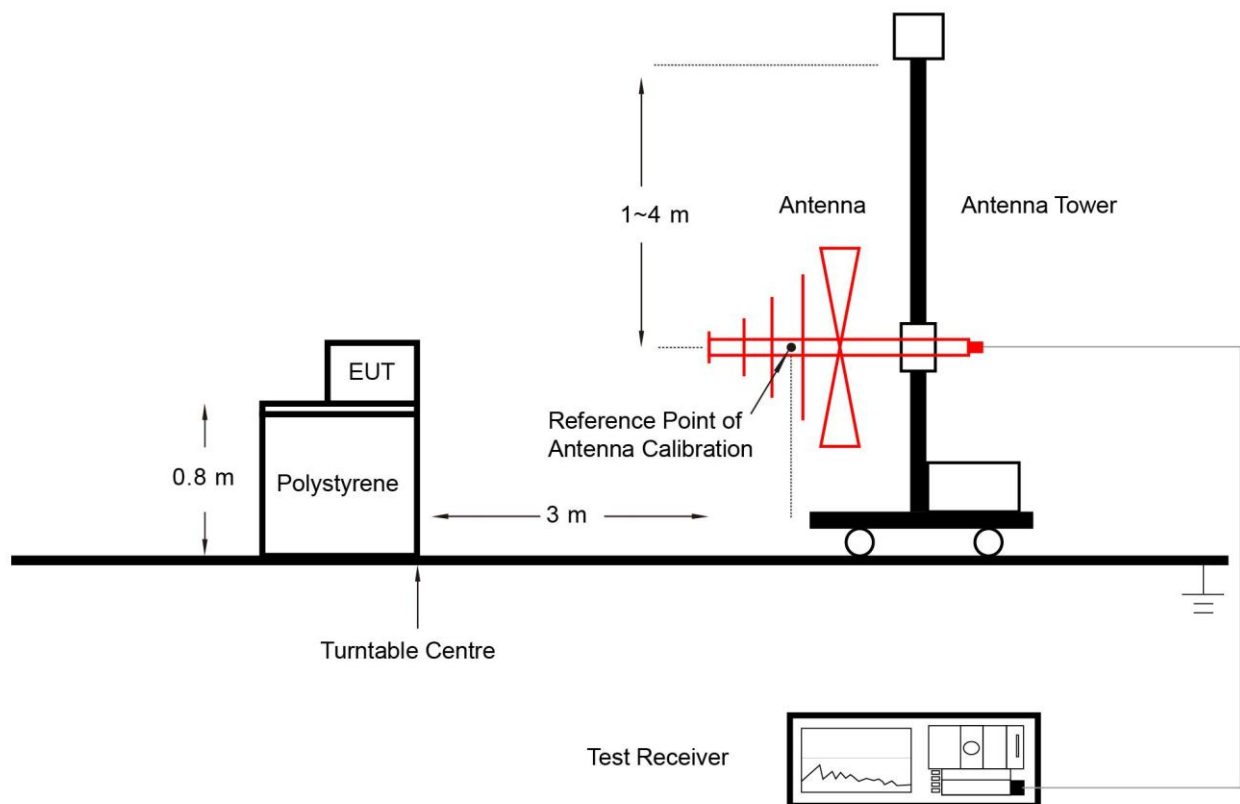
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; if the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10Hz
If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$. T is the minimum transmission duration.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

6.6.4. Test Setup

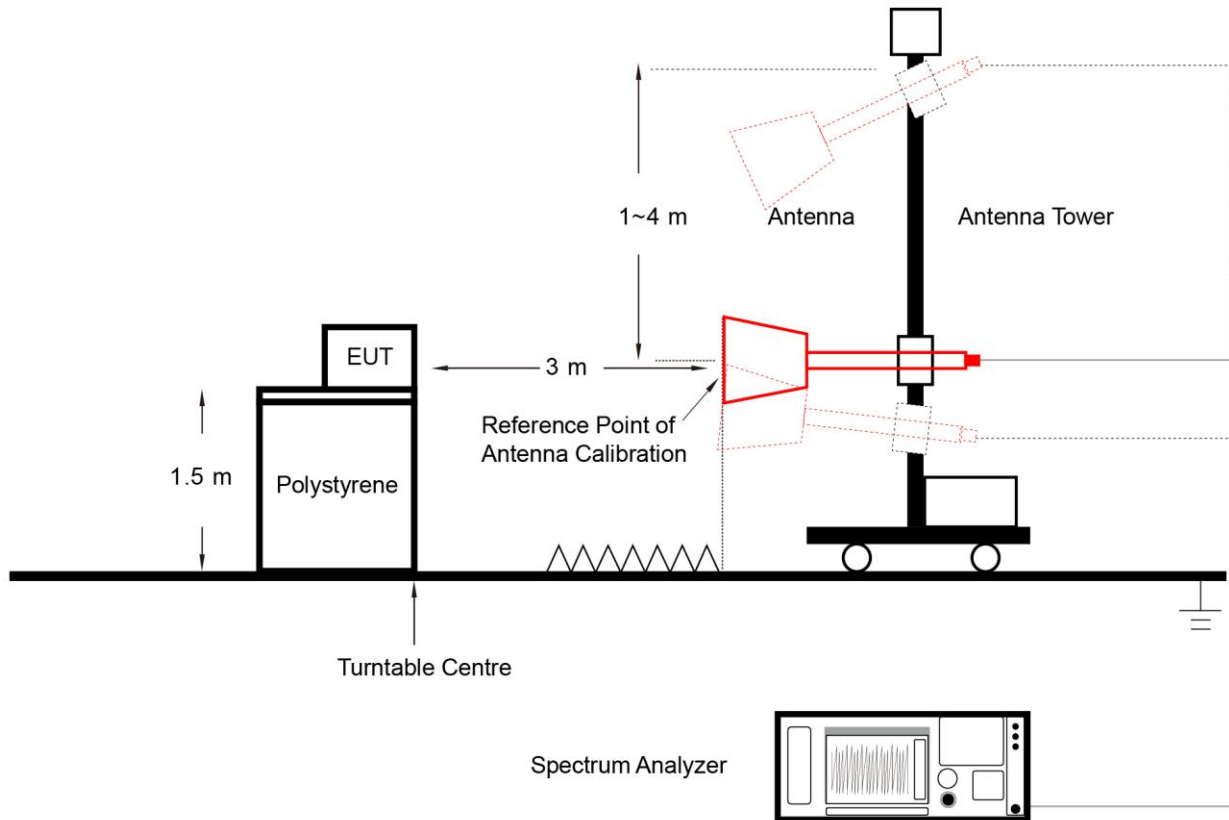
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.6.5. Test Result

Refer to Appendix A.6.

6.7. Radiated Restricted Band Edge Measurement

6.7.1. Test Limit

For 15.205 requirement:

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

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

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

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

6.7.2. Test Procedure

ANSI C63.10-2013 Section 6.3 & 6.6 & 11.13

6.7.3. Test Setting

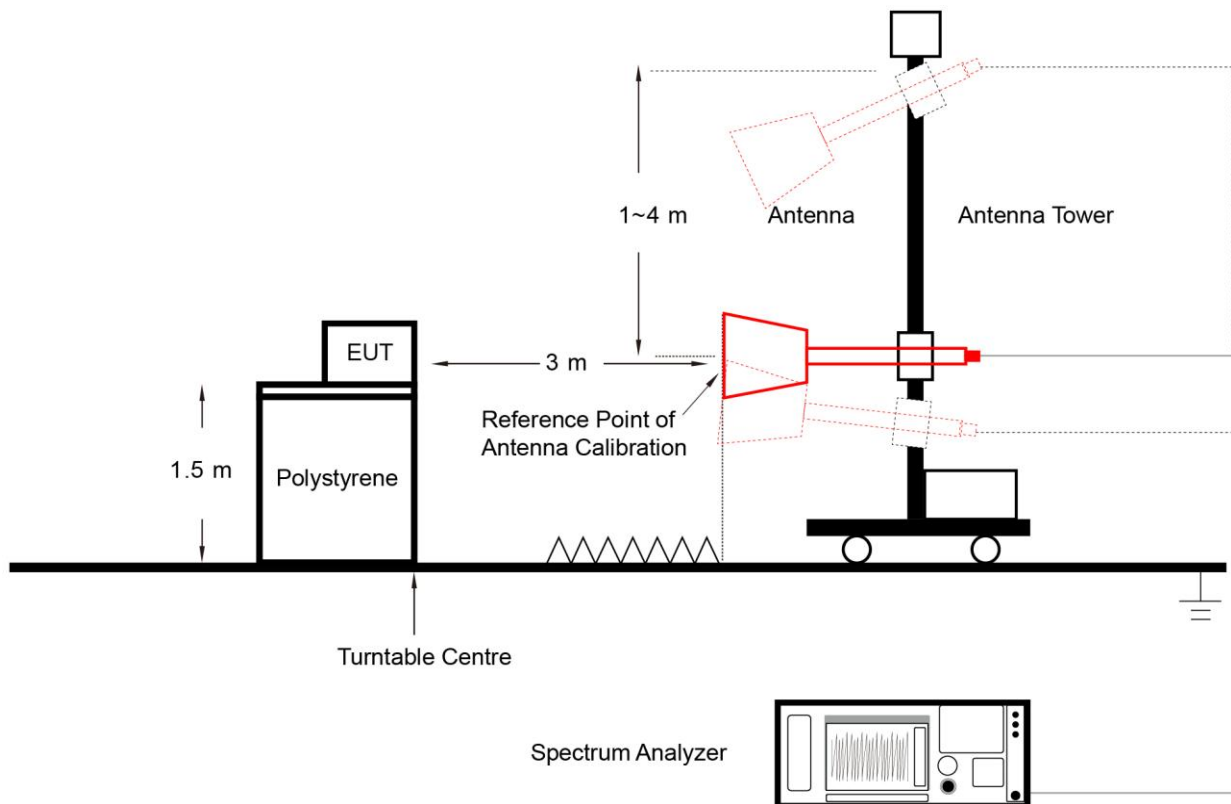
Peak Field Strength Measurements

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

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.7.4. Test Setup



6.7.5. Test Result

Refer to Appendix A.7.

6.8. AC Conducted Emissions Measurement

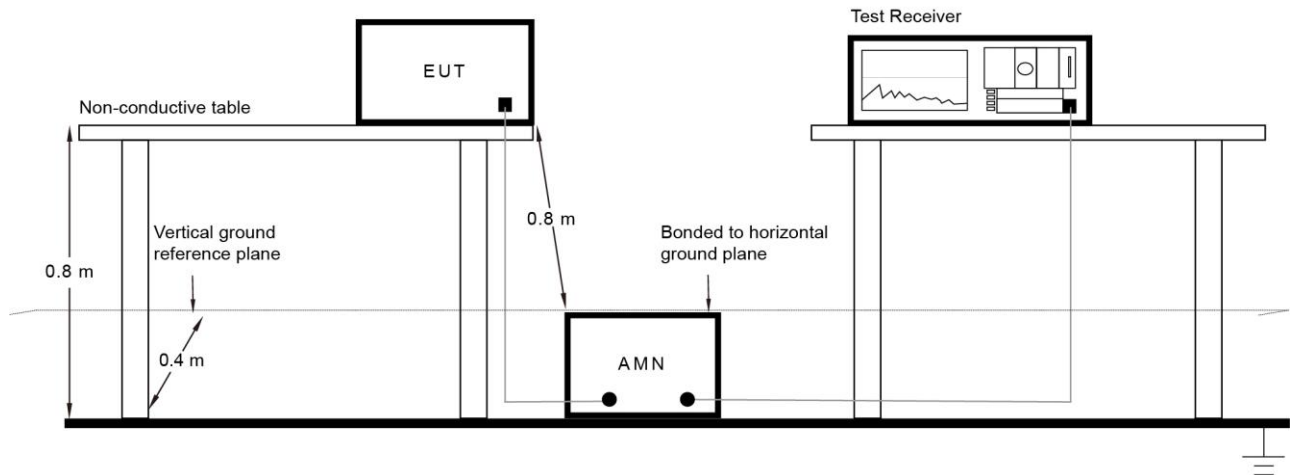
6.8.1. Test Limit

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

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

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

6.8.2. Test Setup



6.8.3. Test Result

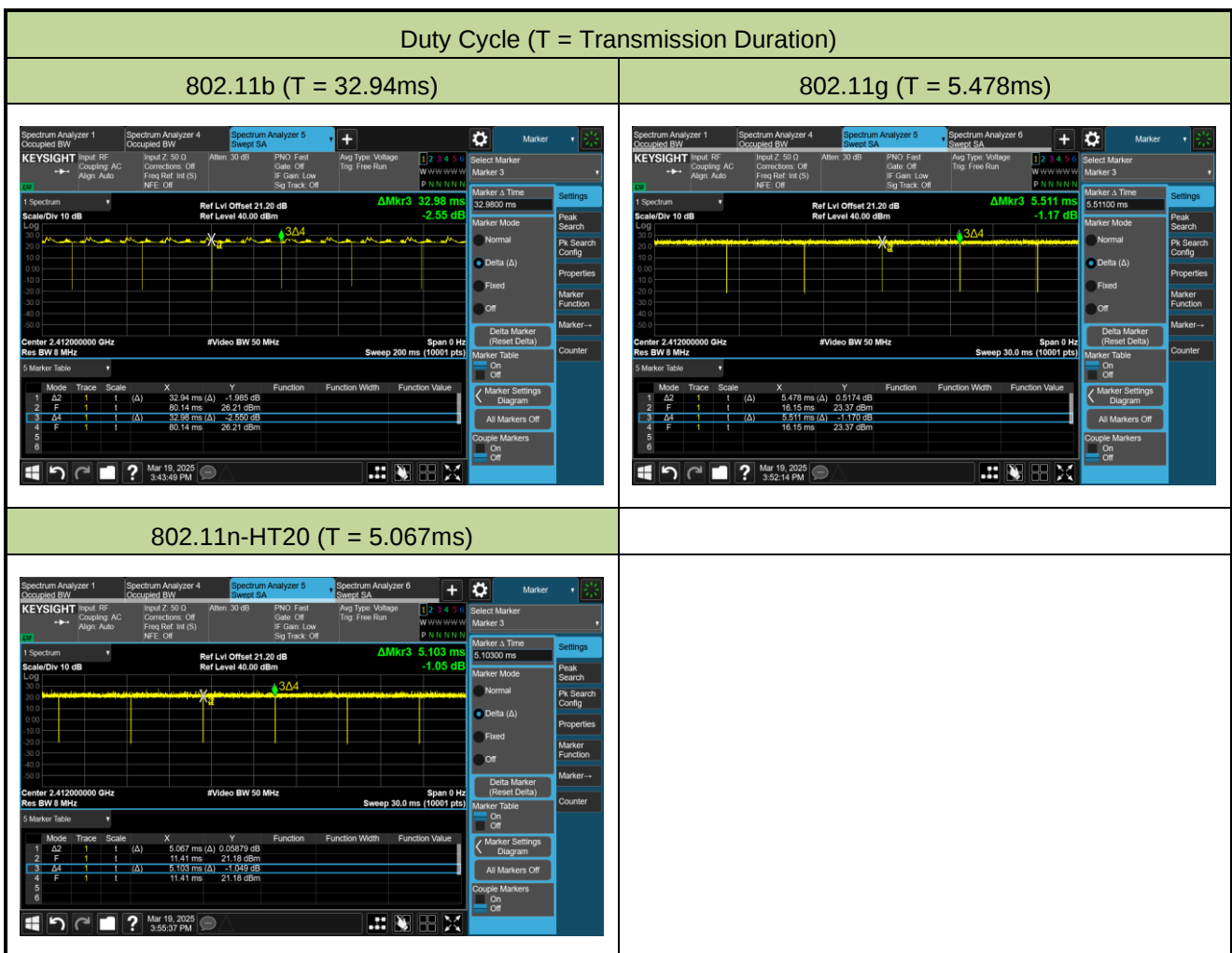
Refer to Appendix A.8.

Appendix A – Test Result

A.1 Duty Cycle Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-03-19		

Test Mode	Duty Cycle
802.11b	99.88%
802.11g	99.40%
802.11n-HT20	99.29%



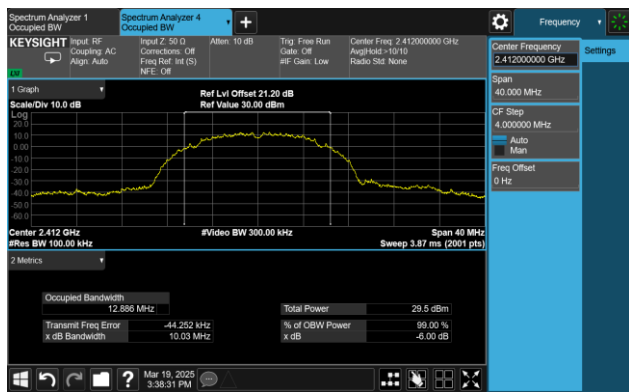
A.2 6dB Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-03-19~2025-03-27		

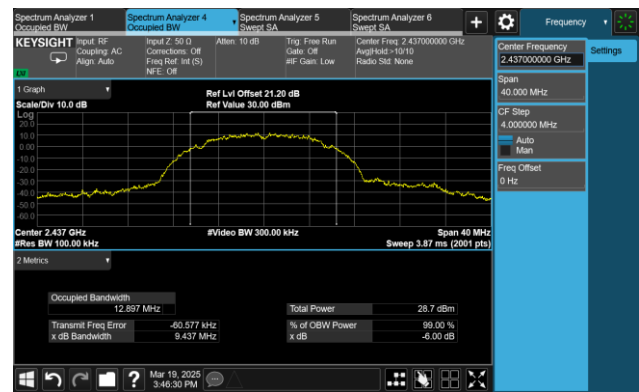
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11b	1Mbps	01	2412	10.030	≥ 0.5
11b	1Mbps	06	2437	9.437	≥ 0.5
11b	1Mbps	11	2462	9.620	≥ 0.5
11g	6Mbps	01	2412	16.34	≥ 0.5
11g	6Mbps	06	2437	16.34	≥ 0.5
11g	6Mbps	11	2462	16.30	≥ 0.5
11n-HT20	MCS0	01	2412	16.79	≥ 0.5
11n-HT20	MCS0	06	2437	16.81	≥ 0.5
11n-HT20	MCS0	11	2462	16.88	≥ 0.5

802.11b 6dB Bandwidth

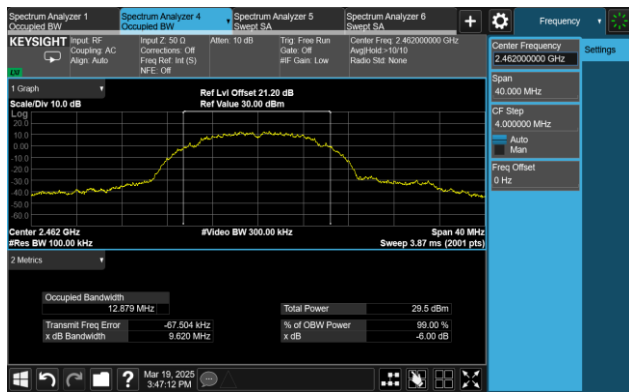
Channel 01 (2412MHz)

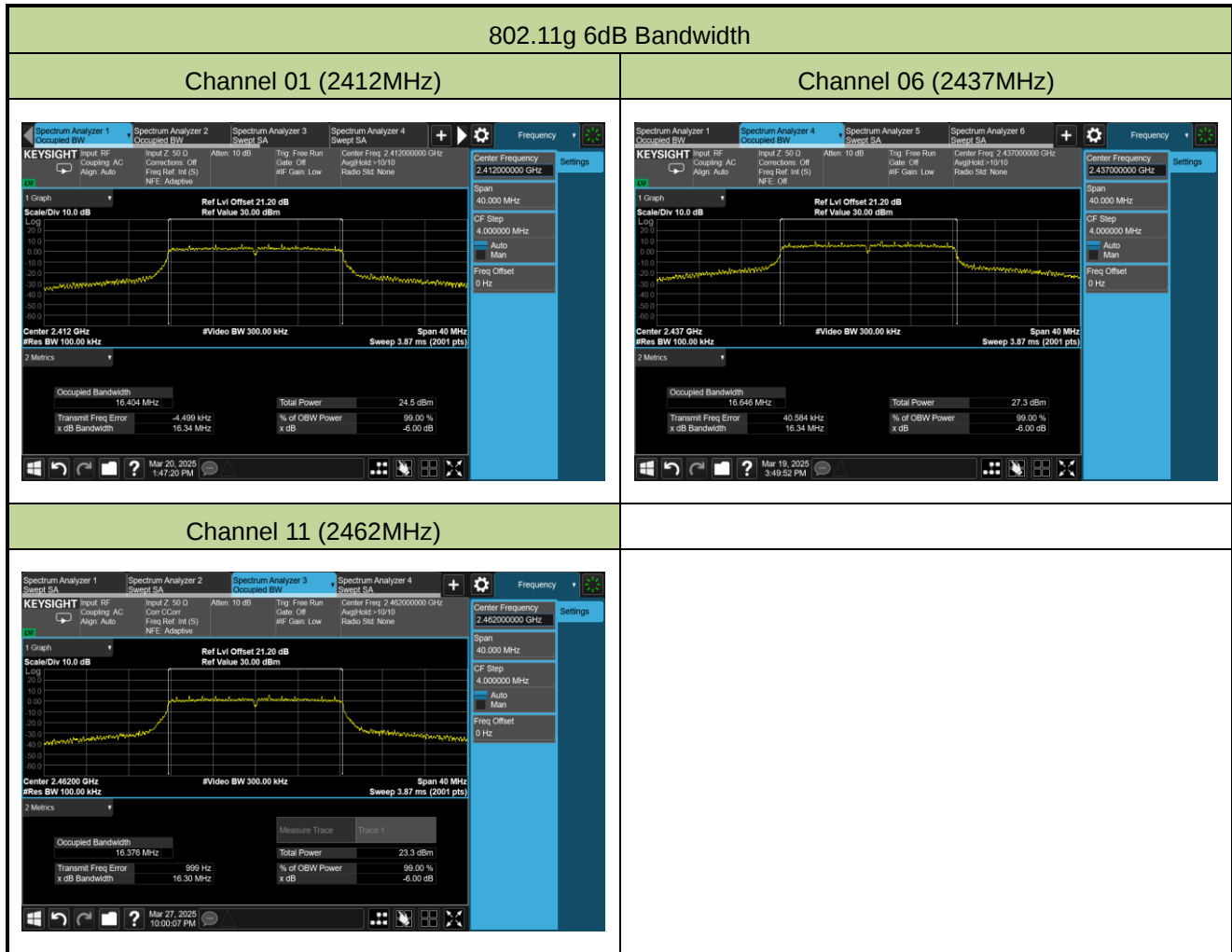


Channel 06 (2437MHz)



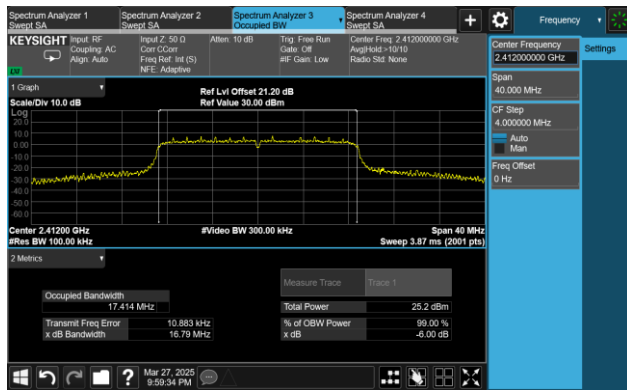
Channel 11 (2462MHz)



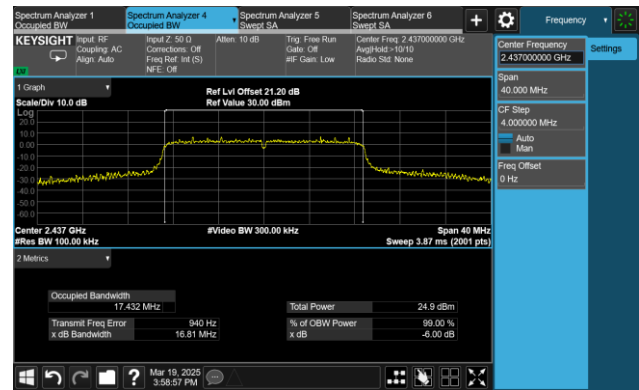


802.11n-HT20 6dB Bandwidth

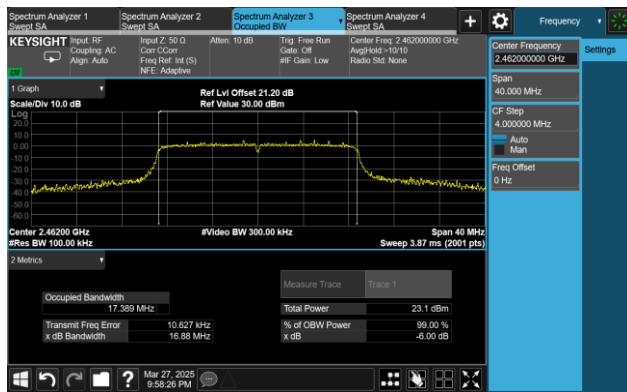
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



A.3 Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-03-19 ~ 2025-03-27		

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)
11b	1Mbps	01	2412	20.32	≤ 30.00
11b	1Mbps	06	2437	20.65	≤ 30.00
11b	1Mbps	11	2462	20.57	≤ 30.00
11g	6Mbps	01	2412	17.94	≤ 30.00
11g	6Mbps	06	2437	20.34	≤ 30.00
11g	6Mbps	10	2457	19.36	≤ 30.00
11g	6Mbps	11	2462	16.76	≤ 30.00
11n-HT20	MCS0	01	2412	17.79	≤ 30.00
11n-HT20	MCS0	06	2437	18.18	≤ 30.00
11n-HT20	MCS0	11	2462	16.43	≤ 30.00

A.4 Power Spectral Density Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-03-19 ~ 2025-03-27		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/ 10kHz)	Duty Cycle (%)	10*log (1/x)	Total PSD (dBm/ 10kHz)	Limit (dBm/3kHz)
11b	1Mbps	01	2412	-6.527	99.88	0.01	-6.527	≤ 8.00
11b	1Mbps	06	2437	-6.388	99.88	0.01	-6.388	≤ 8.00
11b	1Mbps	11	2462	-6.023	99.88	0.01	-6.023	≤ 8.00
11g	6Mbps	01	2412	-10.721	99.40	0.03	-10.721	≤ 8.00
11g	6Mbps	06	2437	-8.100	99.40	0.03	-8.100	≤ 8.00
11g	6Mbps	11	2462	-12.338	99.40	0.03	-12.338	≤ 8.00
11n-HT20	MCS0	01	2412	-10.522	99.29	0.03	-10.522	≤ 8.00
11n-HT20	MCS0	06	2437	-10.654	99.29	0.03	-10.654	≤ 8.00
11n-HT20	MCS0	11	2462	-12.407	99.29	0.03	-12.407	≤ 8.00

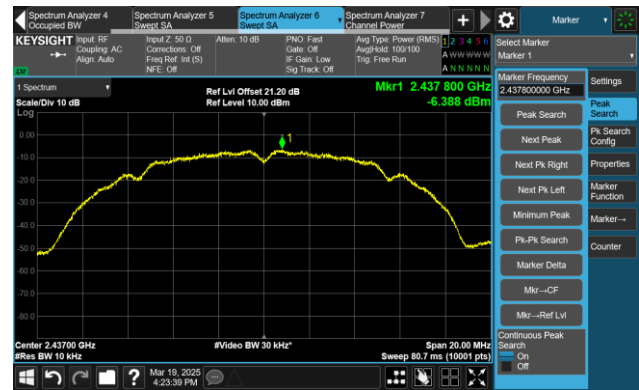
Note: When EUT duty cycle ≥ 98%, Total PSD (dBm / 10kHz) = PSD (dBm / 10kHz).

802.11b - AVGPSD

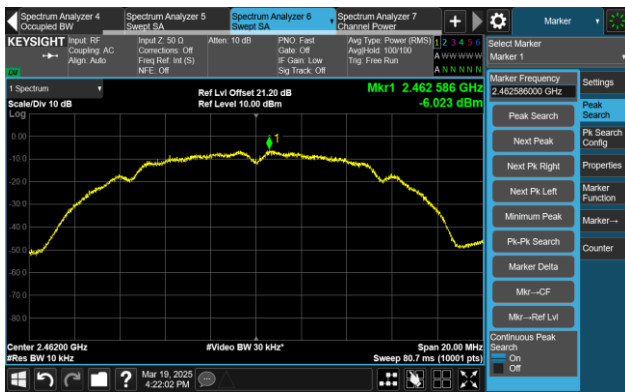
Channel 01 (2412MHz)



Channel 06 (2437MHz)

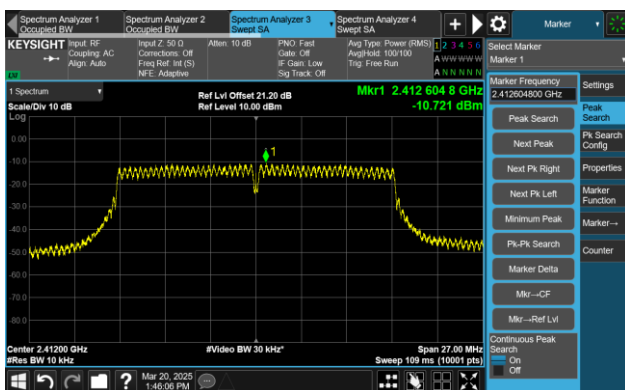


Channel 11 (2462MHz)

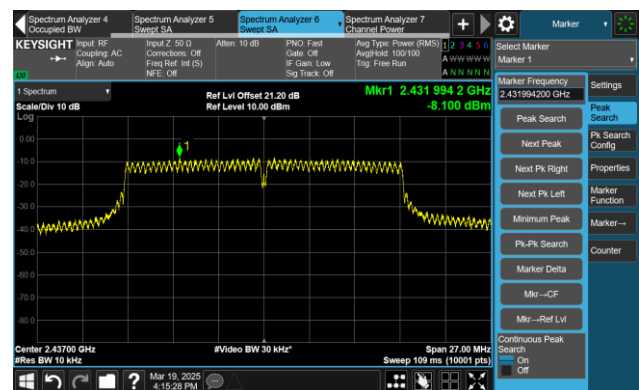


802.11g - AVGPSD

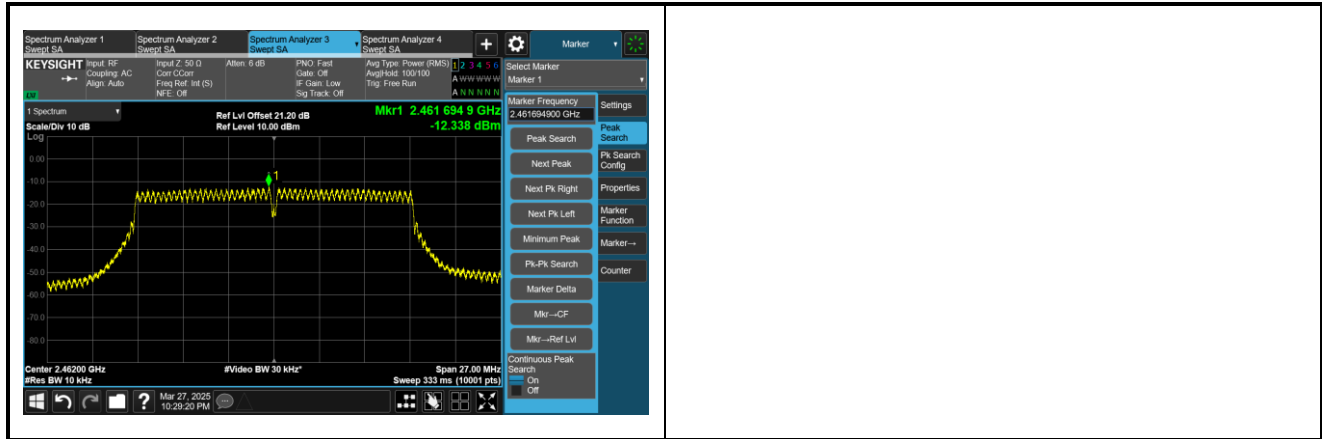
Channel 01 (2412MHz)



Channel 06 (2437MHz)

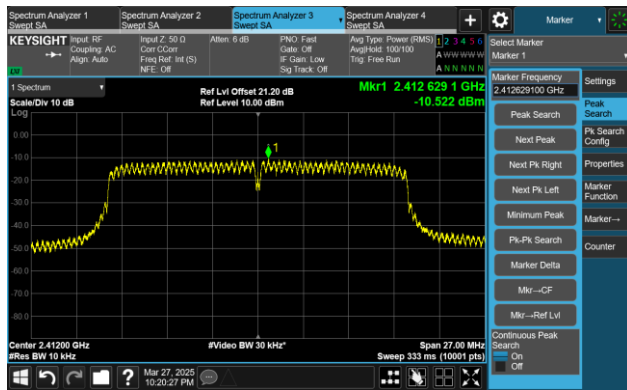


Channel 11 (2462MHz)

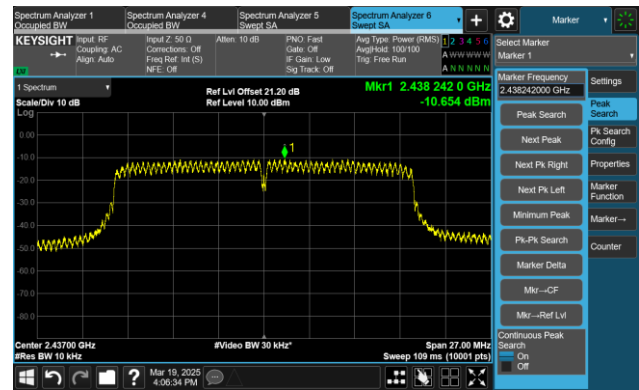


802.11n-HT20 - AVGPSD

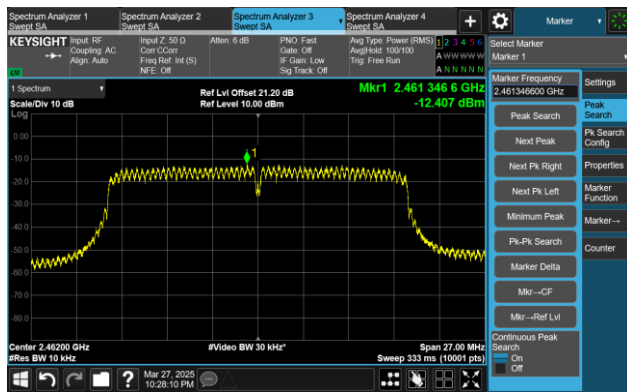
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



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

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-03-19 ~ 2025-03-27		

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

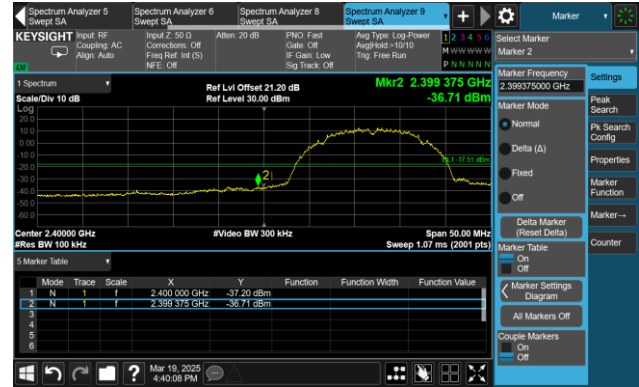
802.11b Out-of-Band Emissions

Channel 01 (2412MHz)

Reference Level



Low Band Edge



Spurious Emission

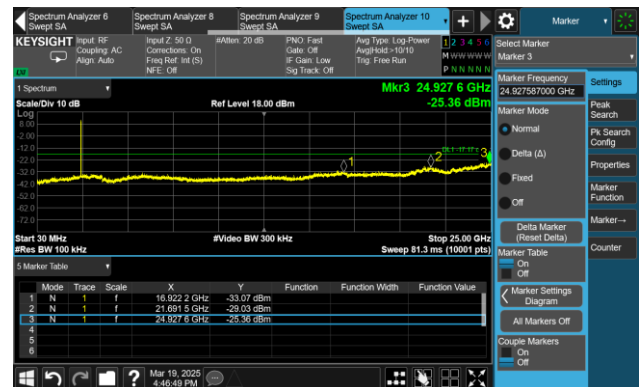


Channel 06 (2437MHz)

Reference Level



Spurious Emission



802.11b Out-of-Band Emissions

Channel 11 (2462MHz)

Reference Level



High Band Edge



Spurious Emission



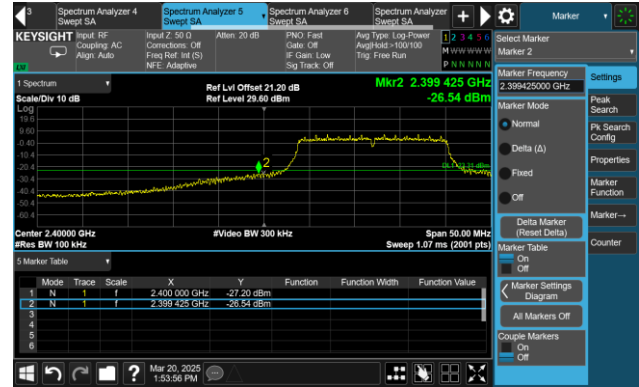
802.11g Out-of-Band Emissions

Channel 01 (2412MHz)

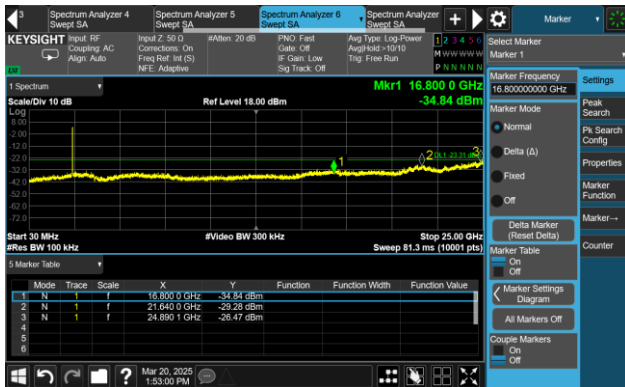
Reference Level



Low Band Edge

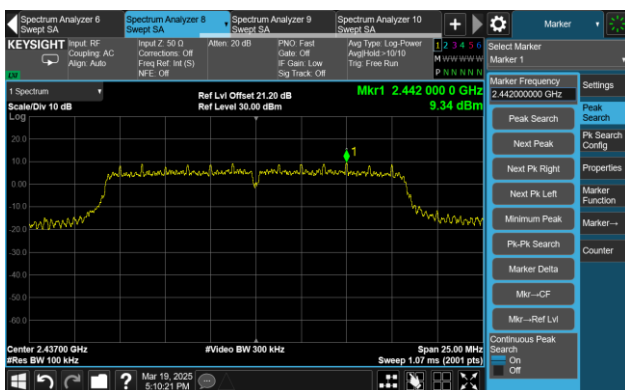


Spurious Emission

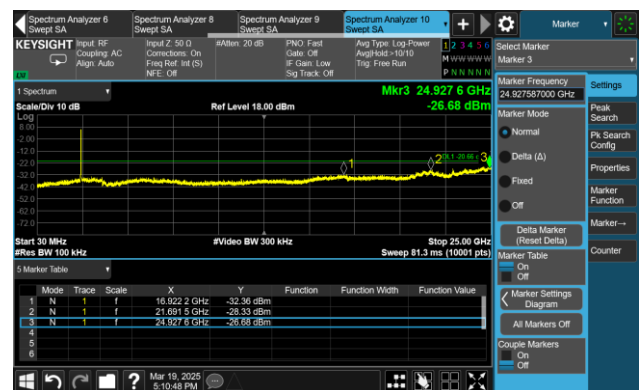


Channel 06 (2437MHz)

Reference Level



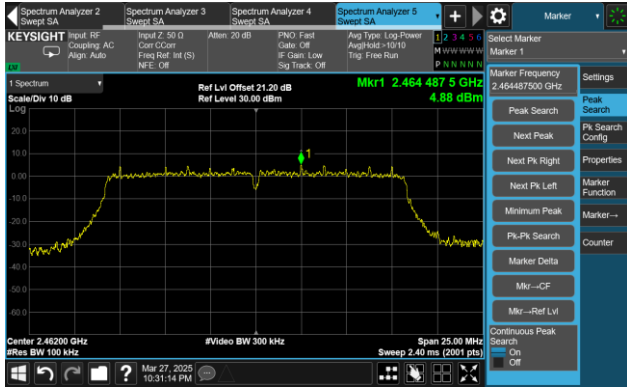
Spurious Emission



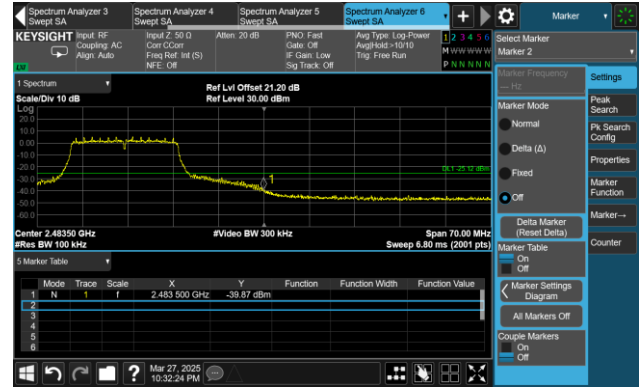
802.11g Out-of-Band Emissions

Channel 11 (2462MHz)

Reference Level



High Band Edge



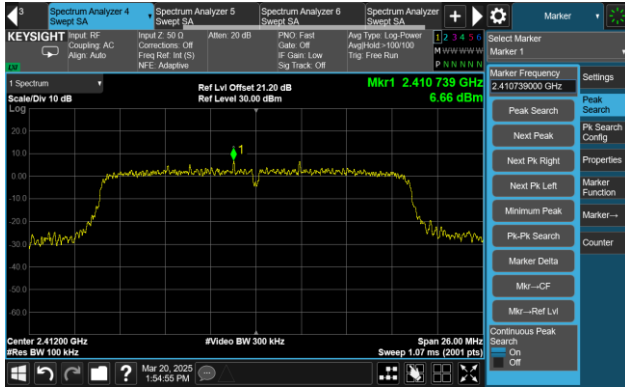
Spurious Emission



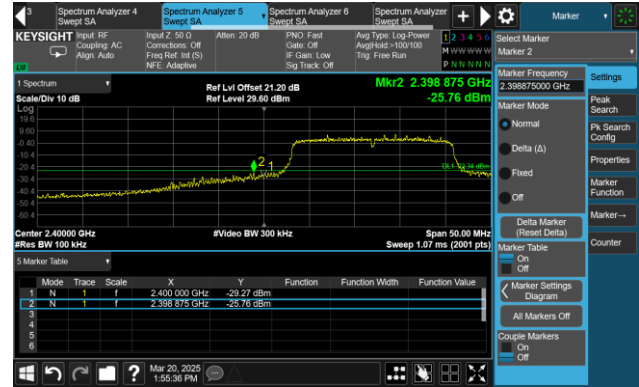
802.11n-HT20 Out-of-Band Emissions

Channel 01 (2412MHz)

Reference Level



Low Band Edge

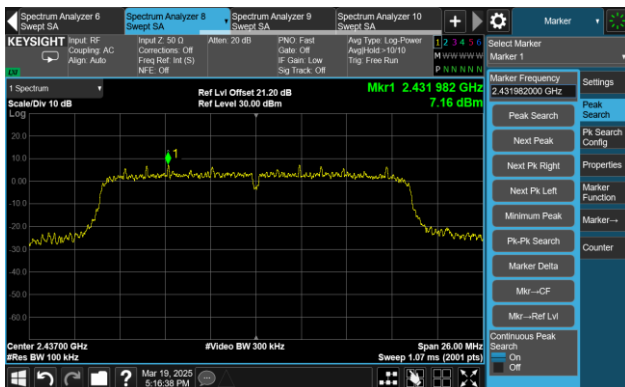


Spurious Emission



Channel 06 (2437MHz)

Reference Level



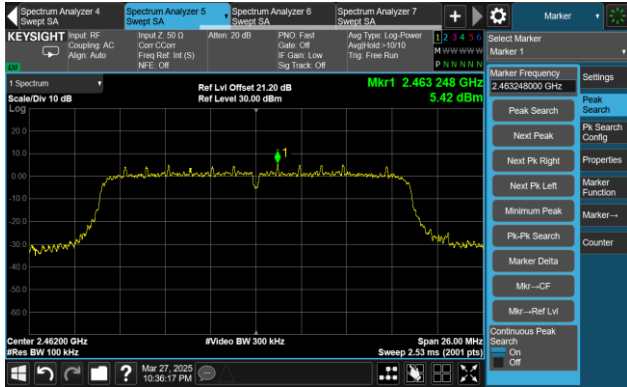
Spurious Emission



802.11n-HT20 Out-of-Band Emissions

Channel 11 (2462MHz)

Reference Level



High Band Edge



Spurious Emission



A.6 Radiated Spurious Emission Test Result

Test Site	WJ-AC2	Test Engineer	Bob Zhang
Test Date	2025-03-28	Test Mode	802.11b
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	3703.00	41.92	-1.89	40.03	74.00	-33.97	Peak	Horizontal
	4823.30	44.80	0.03	44.84	74.00	-29.16	Peak	Horizontal
	11534.90	42.67	5.11	47.79	74.00	-26.21	Peak	Horizontal
	4020.90	43.68	-1.47	42.21	74.00	-31.79	Peak	Vertical
	4825.00	44.33	0.04	44.37	74.00	-29.63	Peak	Vertical
	11696.40	42.52	4.83	47.35	74.00	-26.65	Peak	Vertical
06	3985.20	40.22	-1.42	38.81	74.00	-35.19	Peak	Horizontal
	4874.30	43.05	0.02	43.07	74.00	-30.93	Peak	Horizontal
	11674.30	41.62	4.83	46.45	74.00	-27.55	Peak	Horizontal
	4061.70	44.59	-1.64	42.95	74.00	-31.05	Peak	Vertical
	4874.30	44.60	0.02	44.62	74.00	-29.38	Peak	Vertical
	12216.60	43.11	4.85	47.96	74.00	-26.04	Peak	Vertical
11	4068.50	41.63	-1.58	40.05	74.00	-33.95	Peak	Horizontal
	4923.60	43.28	0.01	43.28	74.00	-30.72	Peak	Horizontal
	11414.20	41.65	5.46	47.11	74.00	-26.89	Peak	Horizontal
	4923.60	45.77	0.01	45.78	74.00	-28.22	Peak	Vertical
	7385.20	42.81	5.13	47.95	74.00	-26.05	Peak	Vertical
	12162.20	43.50	5.07	48.57	74.00	-25.43	Peak	Vertical

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

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

Test Site	WJ-AC2	Test Engineer	Bob Zhang
Test Date	2025-03-28	Test Mode	802.11g
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	3942.70	40.93	-1.45	39.49	74.00	-34.51	Peak	Horizontal
	4862.40	40.40	0.09	40.50	74.00	-33.50	Peak	Horizontal
	11771.20	42.56	4.72	47.28	74.00	-26.72	Peak	Horizontal
	4017.50	42.54	-1.42	41.11	74.00	-32.89	Peak	Vertical
	4864.10	40.60	0.09	40.69	74.00	-33.31	Peak	Vertical
	11562.10	42.45	5.06	47.51	74.00	-26.49	Peak	Vertical
06	4075.30	40.64	-1.53	39.11	74.00	-34.89	Peak	Horizontal
	5029.00	40.52	0.20	40.72	74.00	-33.28	Peak	Horizontal
	11611.40	42.36	4.93	47.29	74.00	-26.71	Peak	Horizontal
	4879.40	41.90	0.02	41.92	74.00	-32.08	Peak	Vertical
	7305.30	42.90	4.99	47.89	74.00	-26.11	Peak	Vertical
	11728.70	42.25	4.75	46.99	74.00	-27.01	Peak	Vertical
11	3857.70	40.28	-1.45	38.83	74.00	-35.17	Peak	Horizontal
	4942.30	40.89	0.12	41.01	74.00	-32.99	Peak	Horizontal
	11670.90	41.99	4.83	46.82	74.00	-27.18	Peak	Horizontal
	4014.10	40.38	-1.35	39.03	74.00	-34.97	Peak	Vertical
	4940.60	40.62	0.11	40.73	74.00	-33.27	Peak	Vertical
	11565.50	43.36	5.11	48.47	74.00	-25.53	Peak	Vertical

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

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

Test Site	WJ-AC2	Test Engineer	Bob Zhang
Test Date	2025-03-28	Test Mode	802.11n-HT20
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.		

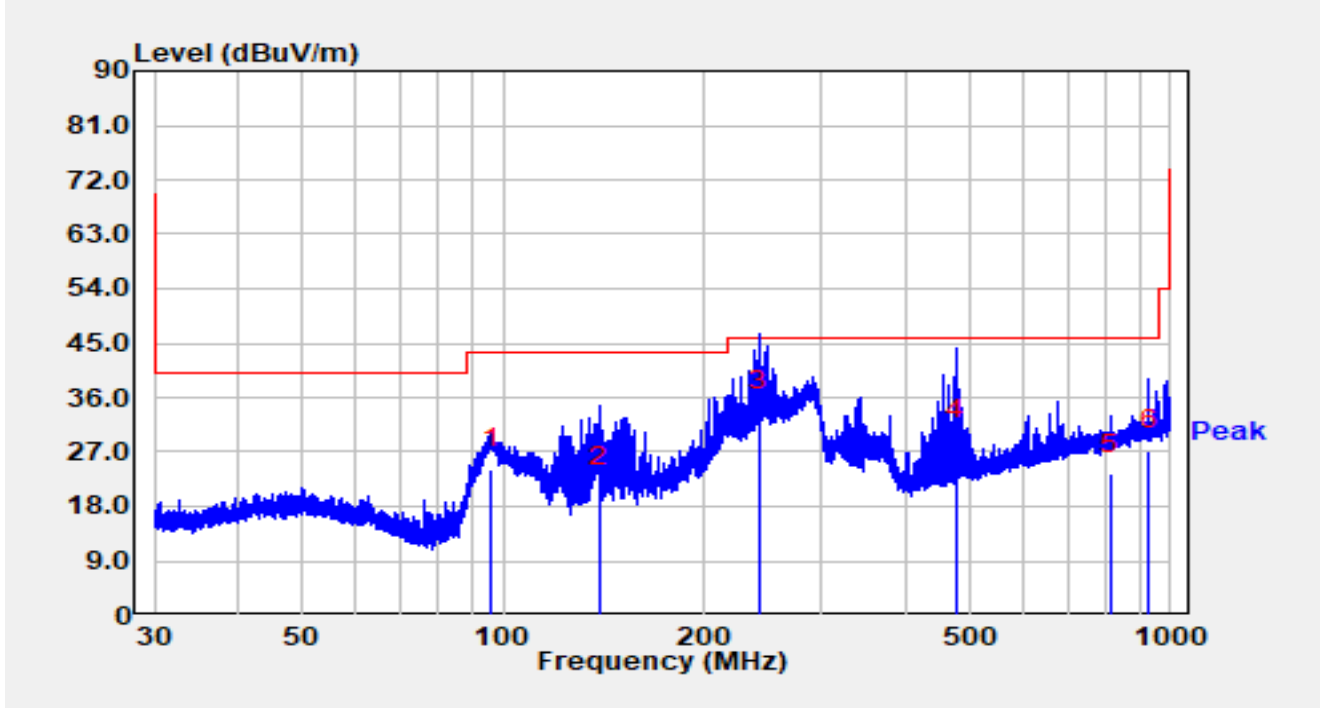
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	3799.90	41.57	-1.58	39.99	74.00	-34.01	Peak	Horizontal
	4869.20	41.03	0.06	41.08	74.00	-32.92	Peak	Horizontal
	11388.70	41.48	5.46	46.93	74.00	-27.07	Peak	Horizontal
	4026.00	41.87	-1.51	40.36	74.00	-33.64	Peak	Vertical
	4821.60	41.06	0.03	41.09	74.00	-32.91	Peak	Vertical
	11132.00	42.23	5.20	47.44	74.00	-26.56	Peak	Vertical
06	4026.00	41.87	-1.51	40.36	74.00	-33.64	Peak	Horizontal
	4821.60	41.06	0.03	41.09	74.00	-32.91	Peak	Horizontal
	11402.30	41.81	5.54	47.36	74.00	-26.64	Peak	Horizontal
	3781.20	40.84	-1.49	39.34	74.00	-34.66	Peak	Vertical
	4821.60	41.06	0.03	41.09	74.00	-32.91	Peak	Vertical
	11475.40	41.89	5.43	47.31	74.00	-26.69	Peak	Vertical
11	3847.50	40.30	-1.38	38.92	74.00	-35.08	Peak	Horizontal
	4869.20	40.42	0.06	40.48	74.00	-33.52	Peak	Horizontal
	11711.70	42.32	4.82	47.14	74.00	-26.86	Peak	Horizontal
	4068.50	41.97	-1.58	40.39	74.00	-33.61	Peak	Vertical
	4923.60	40.49	0.01	40.49	74.00	-33.51	Peak	Vertical
	11597.80	41.20	5.03	46.23	74.00	-27.77	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	WJ-AC2	Test Date	2025-03-23
Temperature	17.9 °C	Humidity	34.3 %
Limit	FCC_Part 15.209_RSE (3m)	Test Engineer	Bob Zhang
Factor	VULB 9163_07097	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11b at 2462MHz		

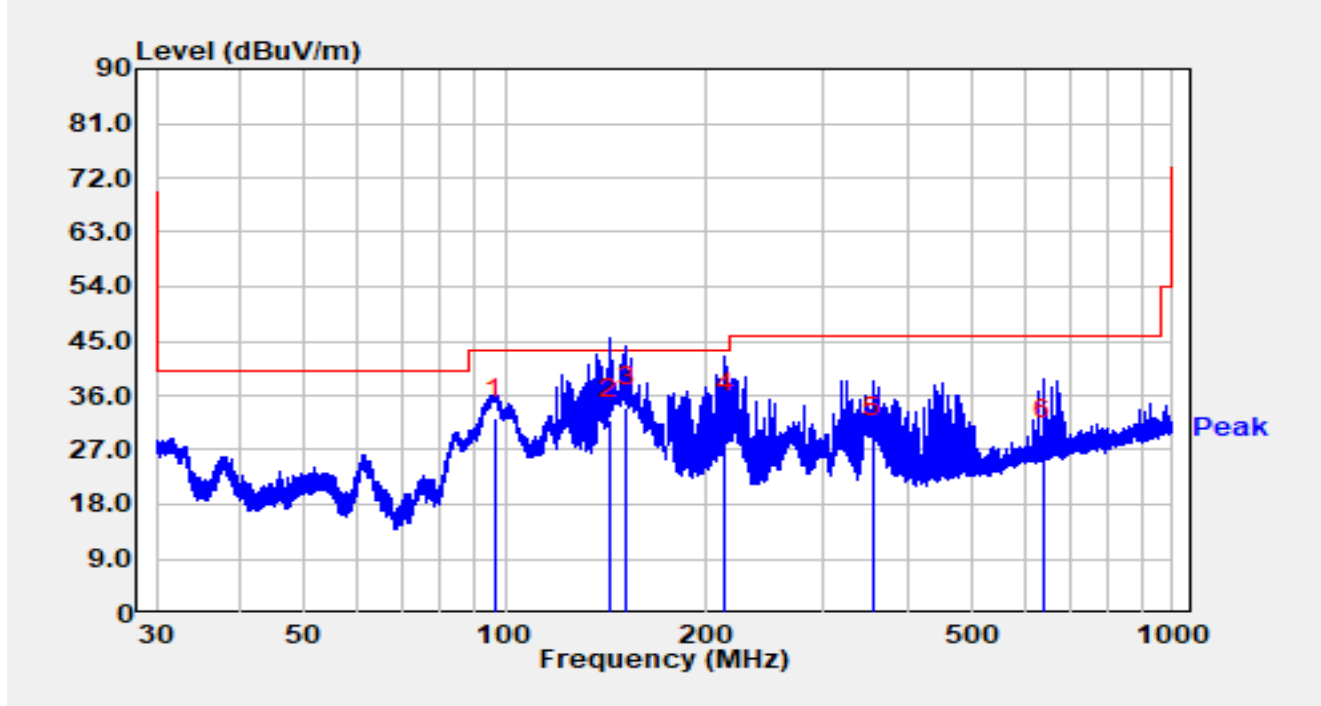


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		95.930	7.40	16.83	24.23	-19.27	43.50	QP
2		139.068	7.50	13.74	21.24	-22.26	43.50	QP
3	*	241.168	15.20	18.69	33.89	-12.11	46.00	QP
4		476.835	5.50	23.69	29.19	-16.81	46.00	QP
5		811.687	-5.20	28.50	23.30	-22.70	46.00	QP
6		929.660	-2.60	29.77	27.17	-18.83	46.00	QP

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9 °C	Humidity	34.3 %
Limit	FCC_Part 15.209_RSE (3m)	Test Engineer	Bob Zhang
Factor	VULB 9163_07097	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11b at 2462MHz		



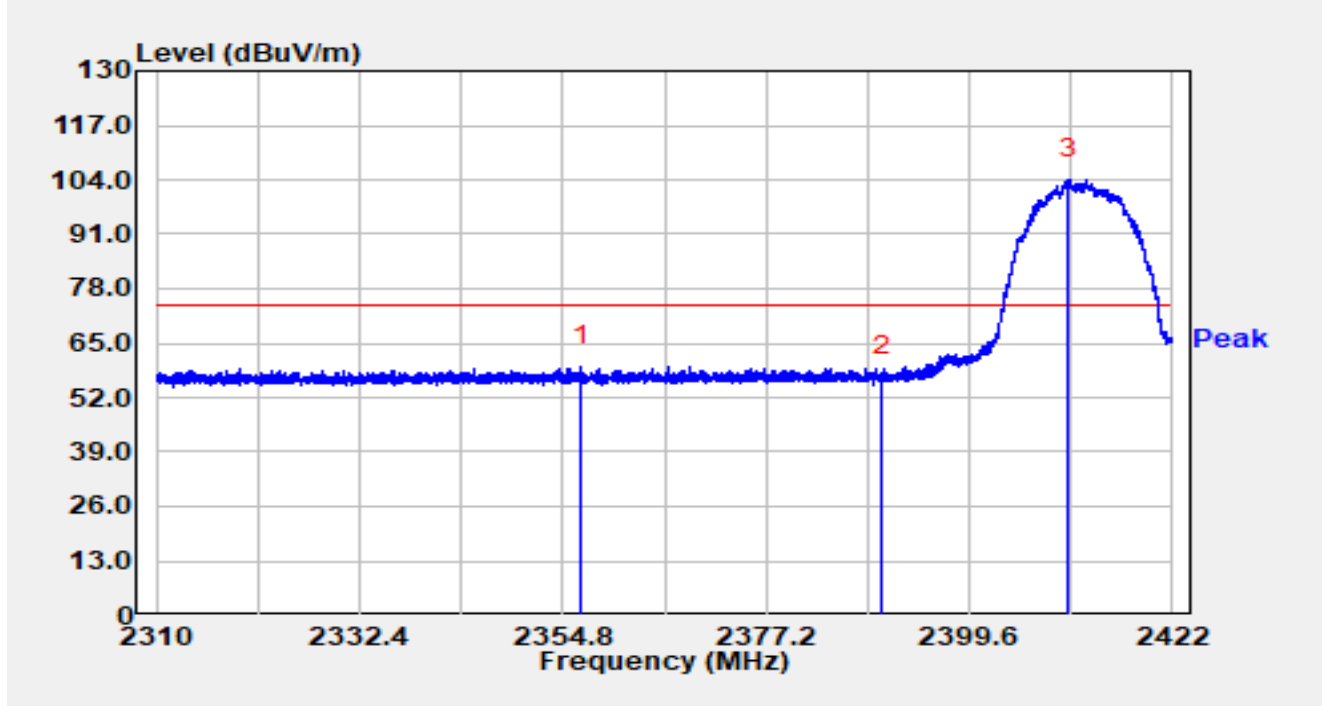
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		96.639	15.20	16.93	32.13	-11.37	43.50	QP
2		143.427	18.26	13.69	31.95	-11.55	43.50	QP
3	*	151.970	20.11	14.00	34.11	-9.39	43.50	QP
4		213.539	15.87	17.35	33.22	-10.28	43.50	QP
5		355.303	7.30	21.68	28.98	-17.02	46.00	QP
6		640.162	2.10	26.58	28.68	-17.32	46.00	QP

Notes:

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

A.7 Radiated Restricted Band Edge Test Result

Site	WJ-AC2	Test Date	2025-03-21
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11b at 2412MHz		

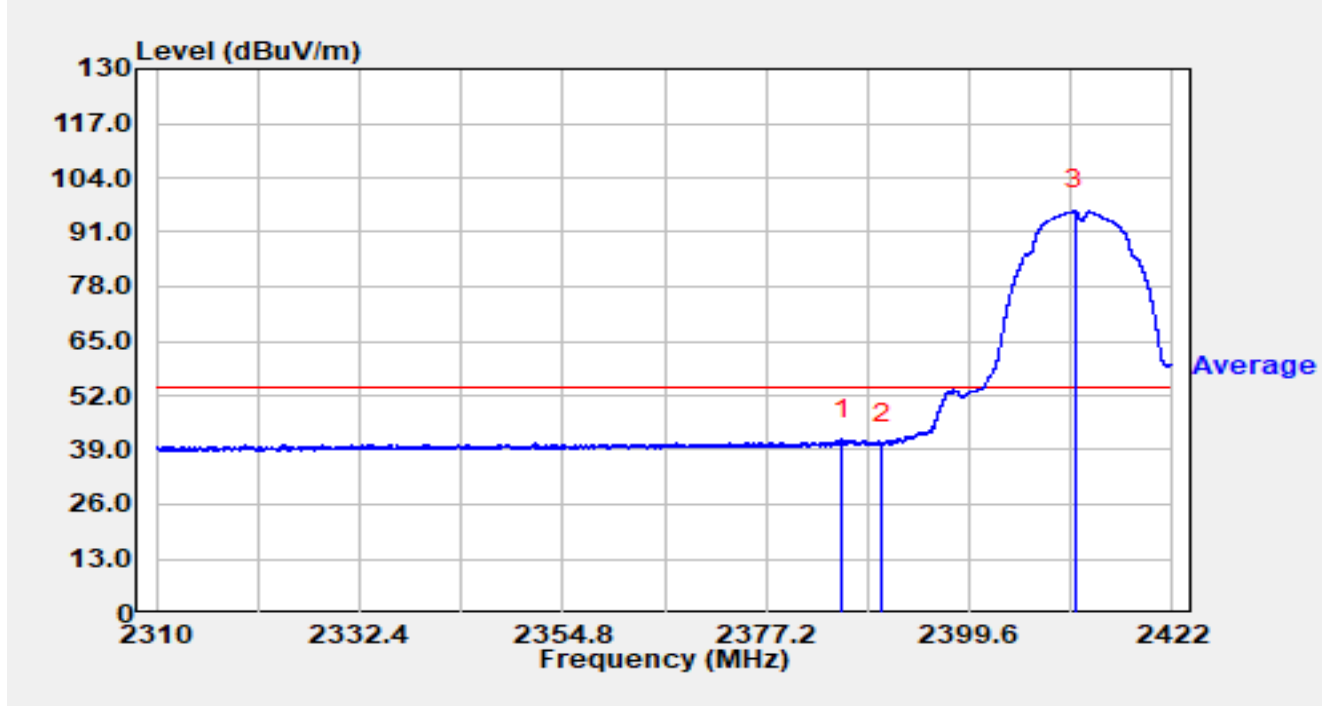


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2356.827	30.03	29.53	59.57	-14.43	74.00	Peak
2		2390.000	27.47	29.59	57.06	-16.94	74.00	Peak
3	*	2410.464	74.57	29.63	104.21	N/A	N/A	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-21
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11b at 2412MHz		

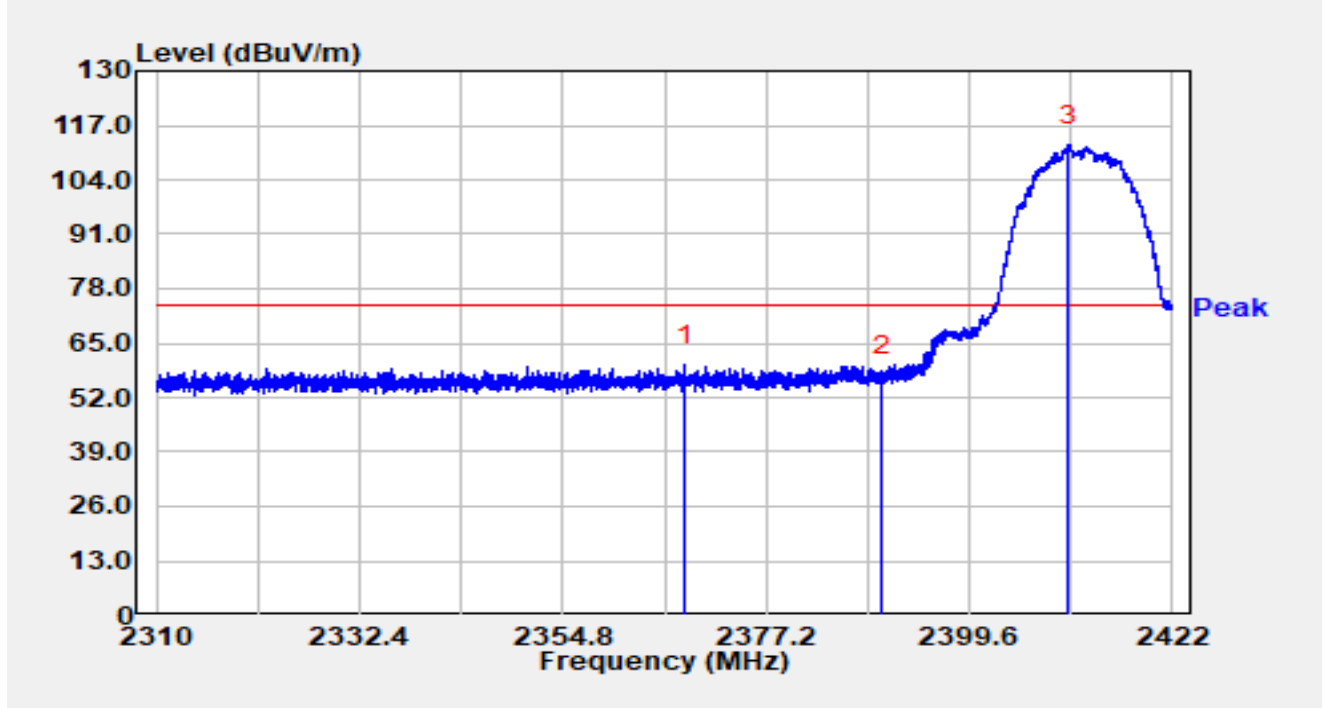


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2385.611	12.11	29.57	41.69	-12.31	54.00	Average
2		2390.000	10.79	29.59	40.38	-13.62	54.00	Average
3	*	2411.237	66.64	29.63	96.27	N/A	N/A	Average

Notes:

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

Site	WJ-AC2	Test Date	2025-03-21
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11b at 2412MHz		

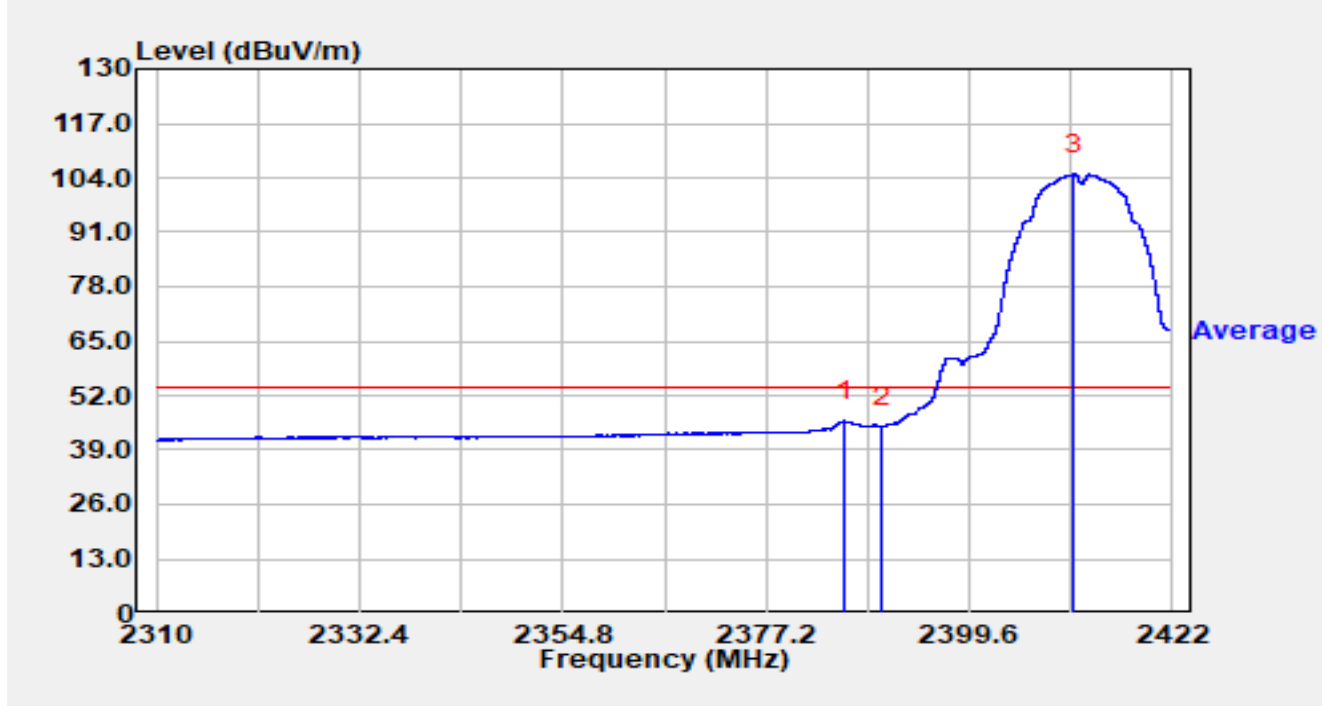


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2368.251	30.12	29.56	59.68	-14.32	74.00	Peak
2		2390.000	27.38	29.59	56.97	-17.03	74.00	Peak
3	*	2410.565	82.63	29.63	112.27	N/A	N/A	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-21
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11b at 2412MHz		

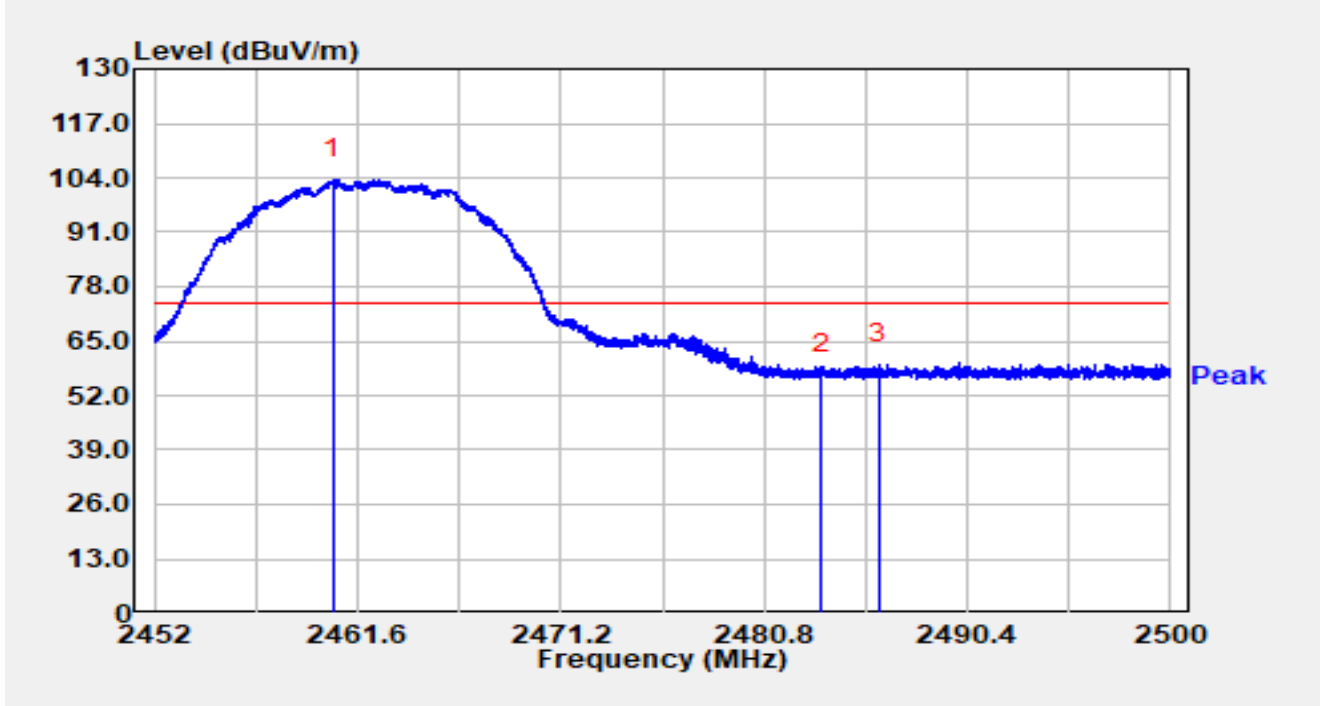


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2385.869	16.33	29.58	45.91	-8.09	54.00	Average
2		2390.002	15.03	29.59	44.62	-9.38	54.00	Average
3	*	2411.158	75.23	29.63	104.86	N/A	N/A	Average

Notes:

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

Site	WJ-AC2	Test Date	2025-03-21
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11b at 2462MHz		

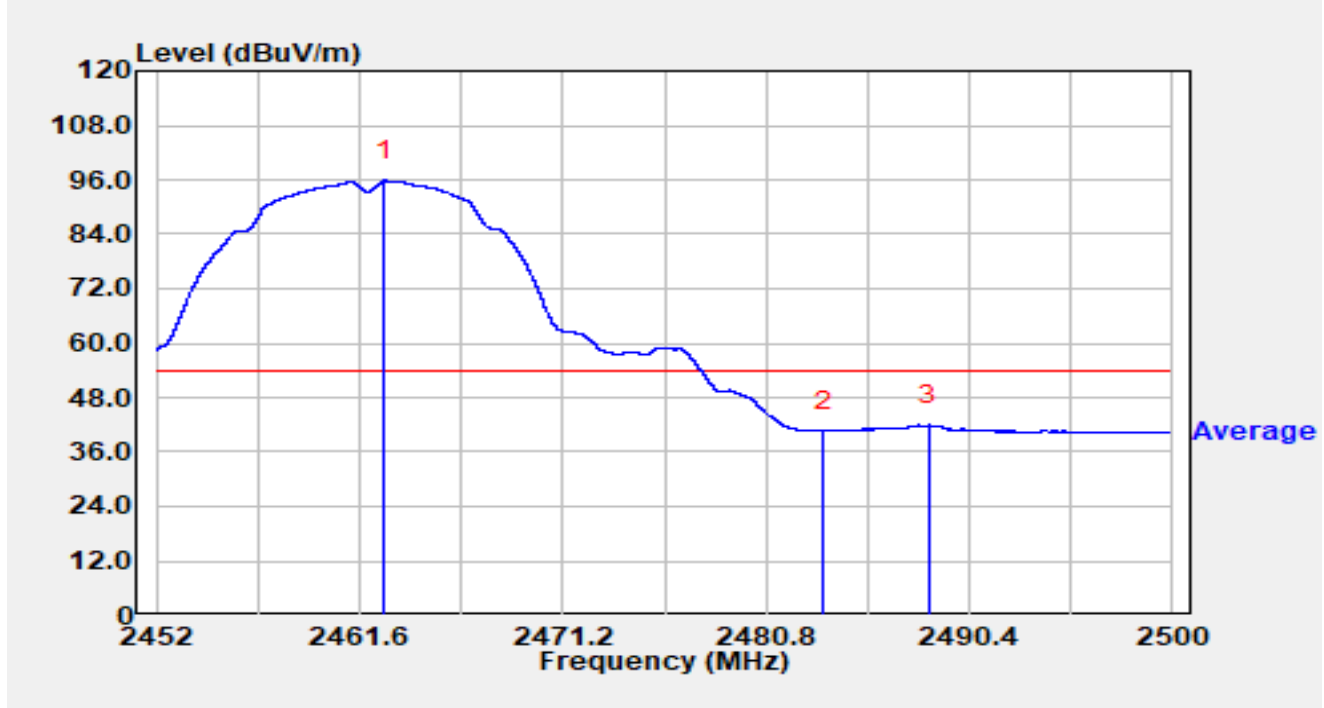


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2460.467	74.03	29.71	103.74	N/A	N/A	Peak
2		2483.500	27.37	29.76	57.14	-16.86	74.00	Peak
3		2486.214	29.61	29.77	59.38	-14.62	74.00	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-21
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11b at 2462MHz		

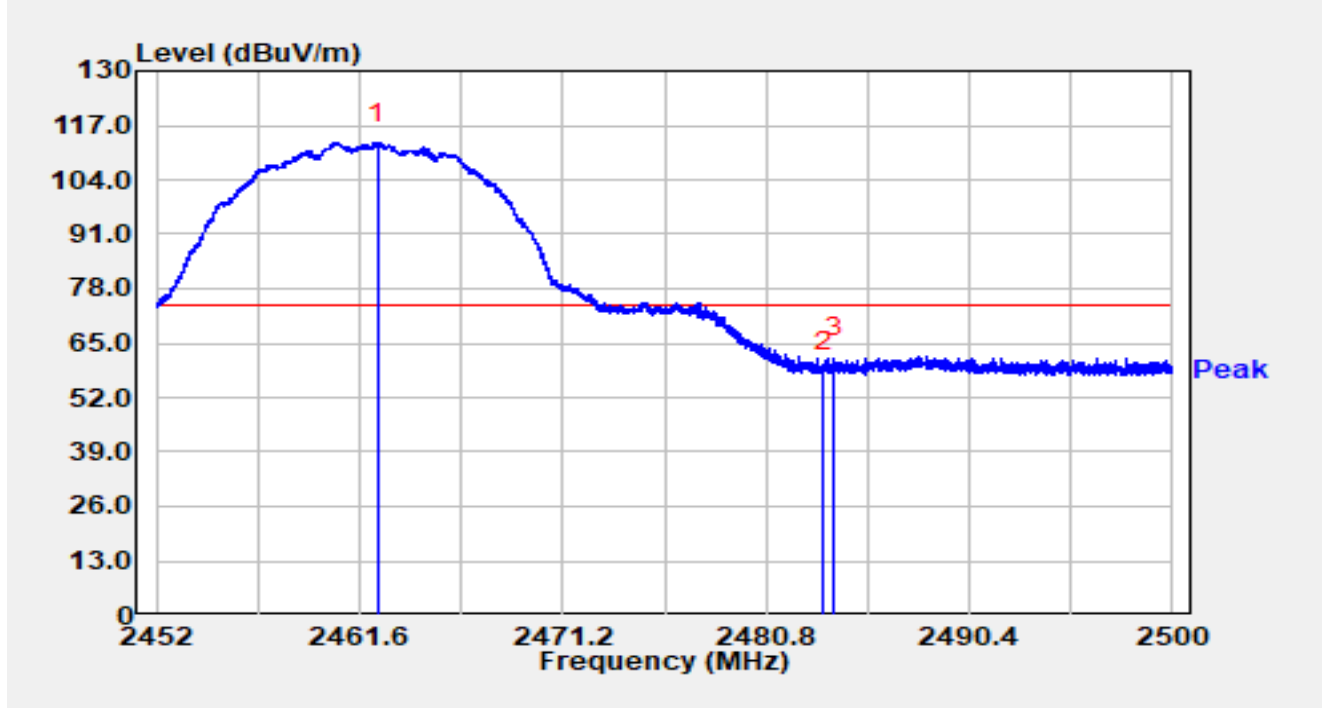


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2462.781	66.07	29.71	95.78	N/A	N/A	Average
2		2483.502	10.83	29.76	40.60	-13.40	54.00	Average
3		2488.504	12.13	29.78	41.91	-12.09	54.00	Average

Notes:

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

Site	WJ-AC2	Test Date	2025-03-21
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11b at 2462MHz		

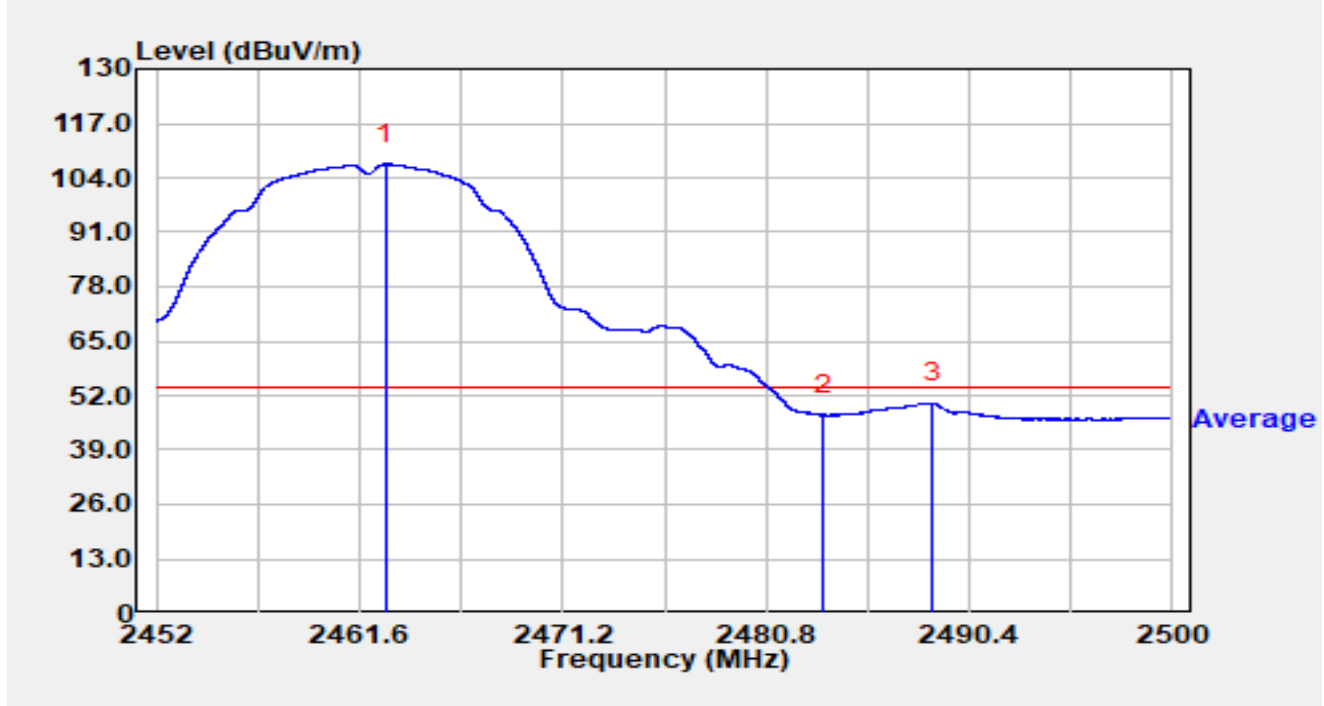


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2462.421	83.10	29.71	112.81	N/A	N/A	Peak
2		2483.500	28.59	29.76	58.35	-15.65	74.00	Peak
3		2484.016	31.73	29.77	61.49	-12.51	74.00	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-21
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Carl Jiang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11b at 2462MHz		

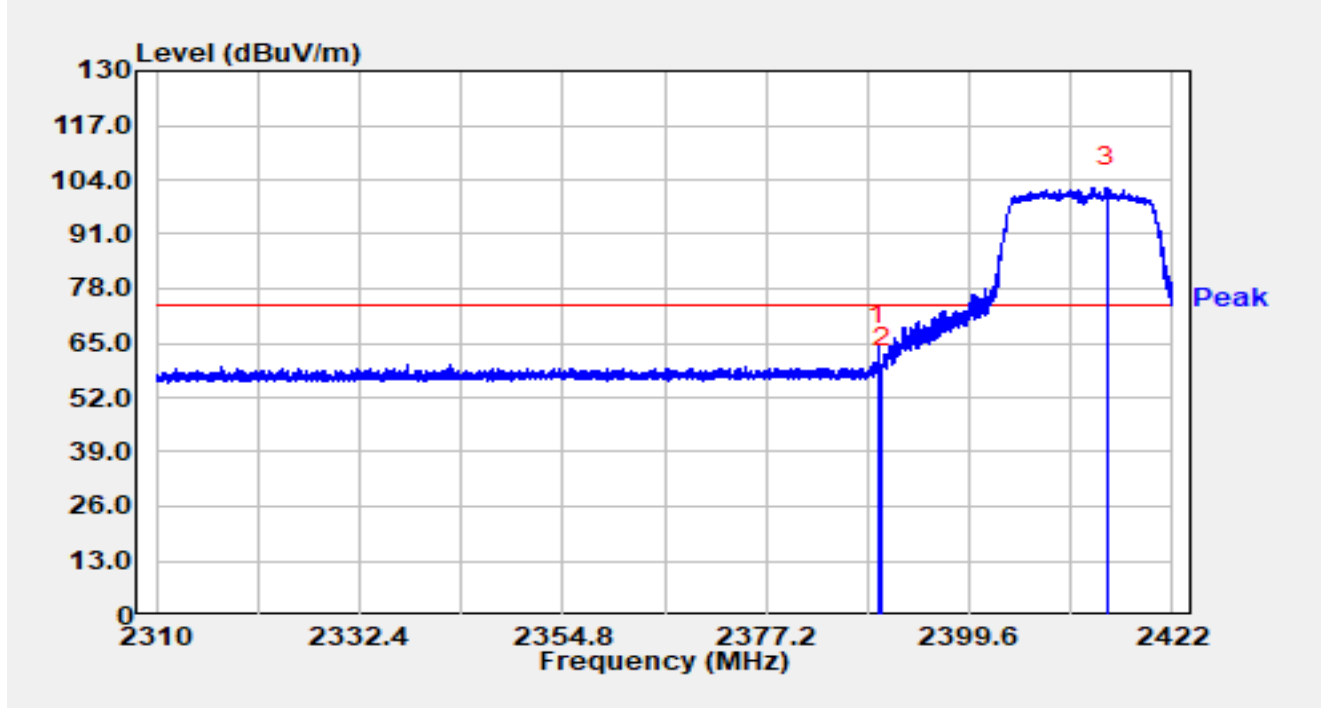


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2462.800	77.58	29.71	107.29	N/A	N/A	Average
2		2483.500	17.63	29.76	47.39	-6.61	54.00	Average
3		2488.638	20.29	29.78	50.07	-3.93	54.00	Average

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11g at 2412MHz		

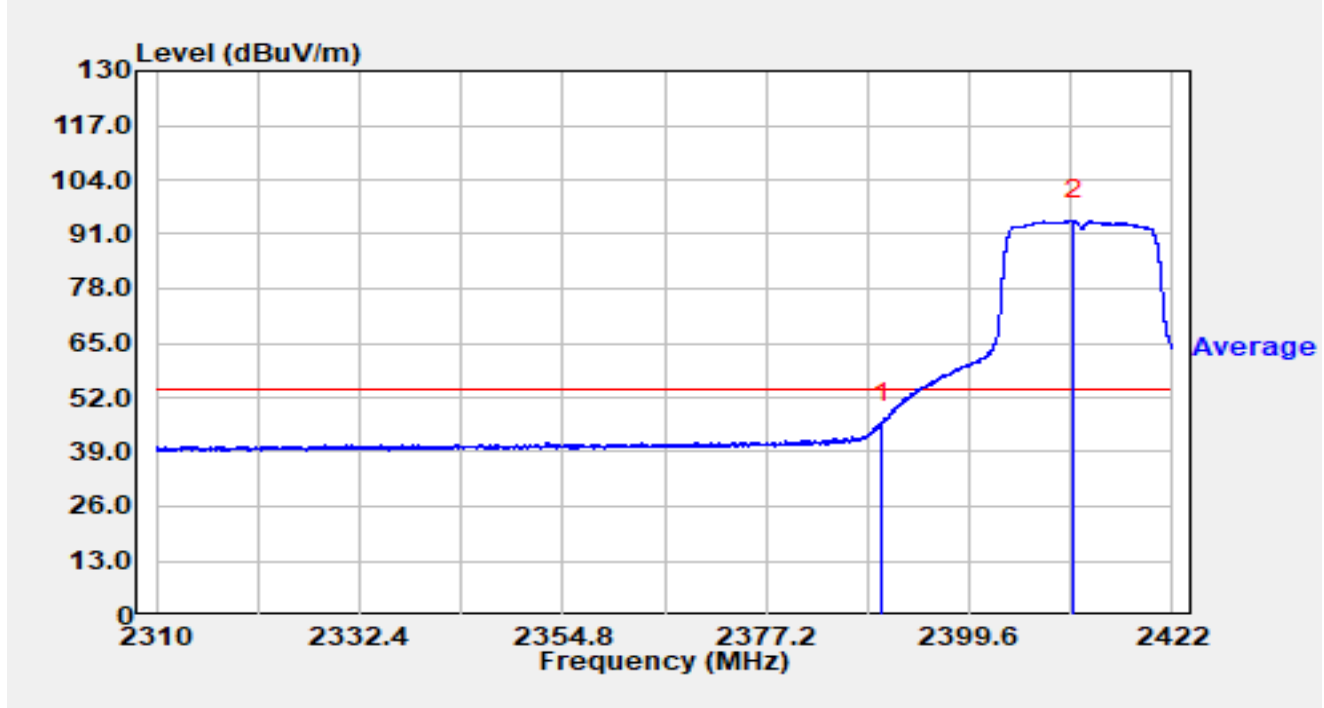


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2389.565	34.74	29.59	64.33	-9.67	74.00	Peak
2		2390.000	29.51	29.59	59.10	-14.90	74.00	Peak
3	*	2414.776	72.44	29.63	102.07	N/A	N/A	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11g at 2412MHz		

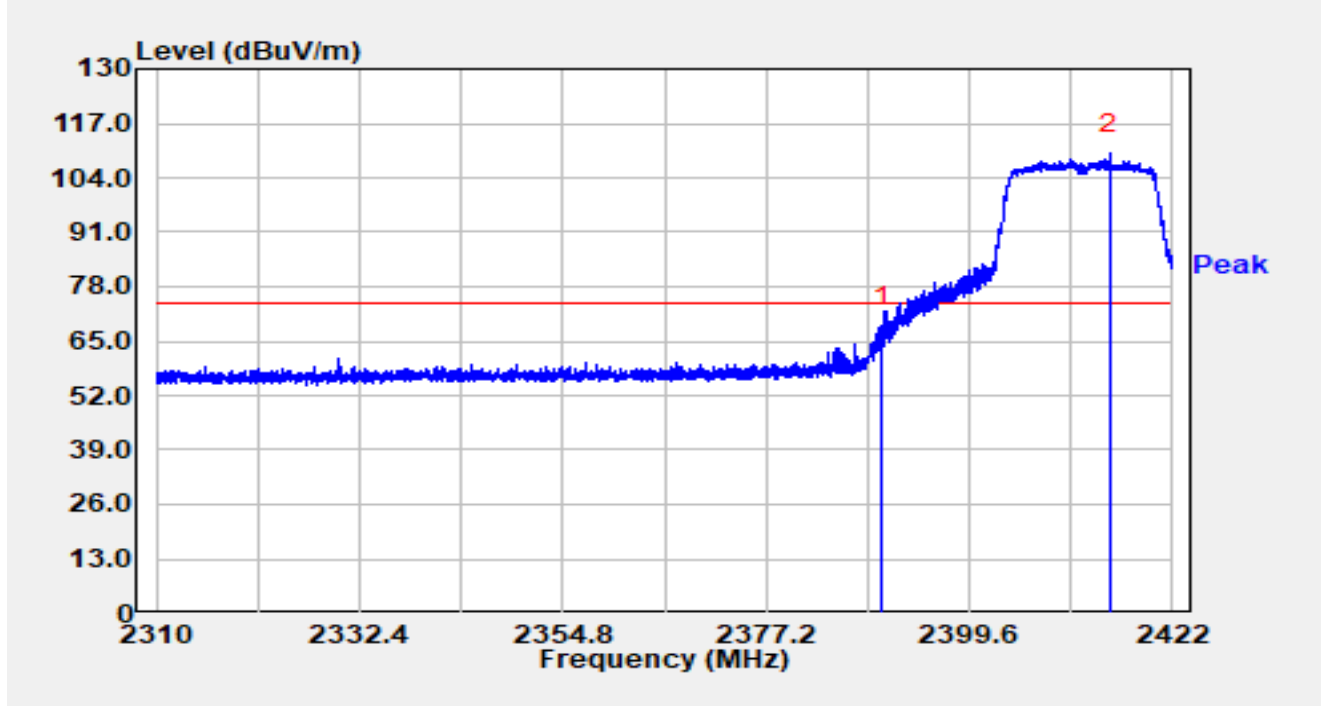


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2390.000	16.21	29.59	45.80	-8.20	54.00	Average
2	*	2411.058	64.59	29.63	94.23	N/A	N/A	Average

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11g at 2412MHz		

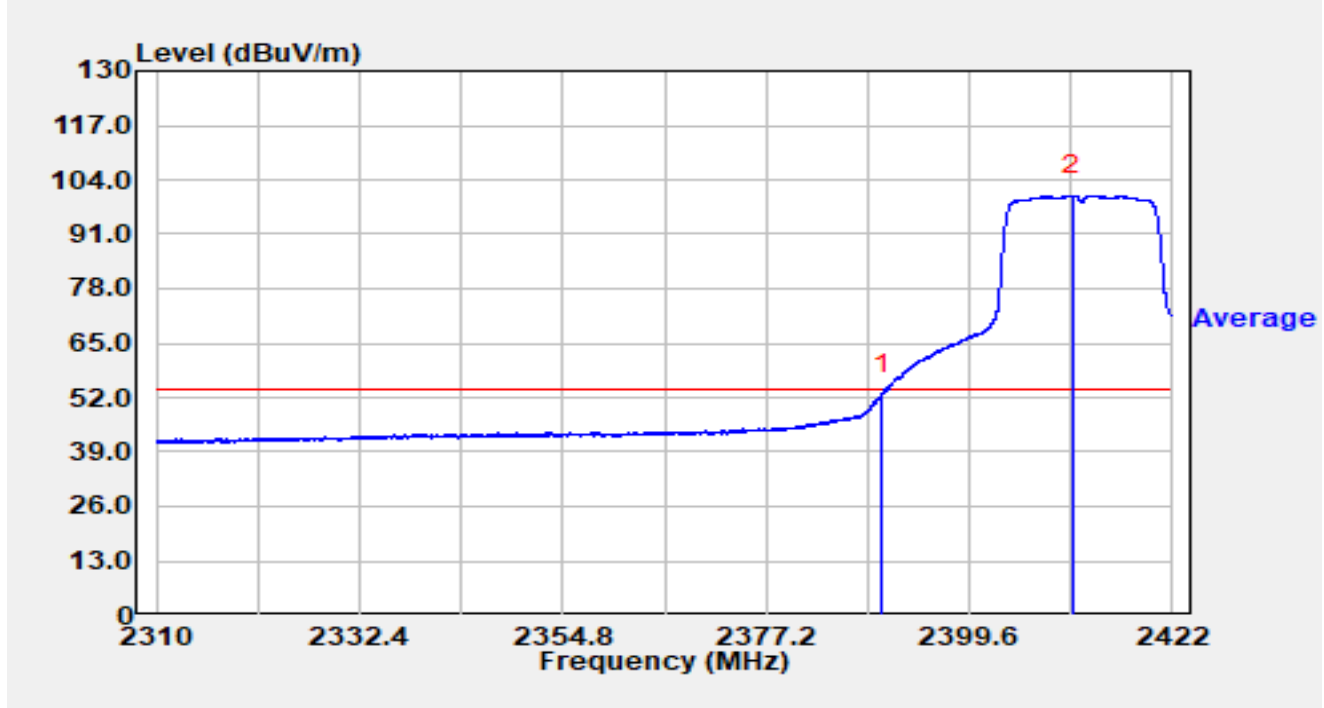


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2390.000	38.79	29.59	68.38	-5.62	74.00	Peak
2	*	2415.045	80.05	29.63	109.68	N/A	N/A	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11g at 2412MHz		

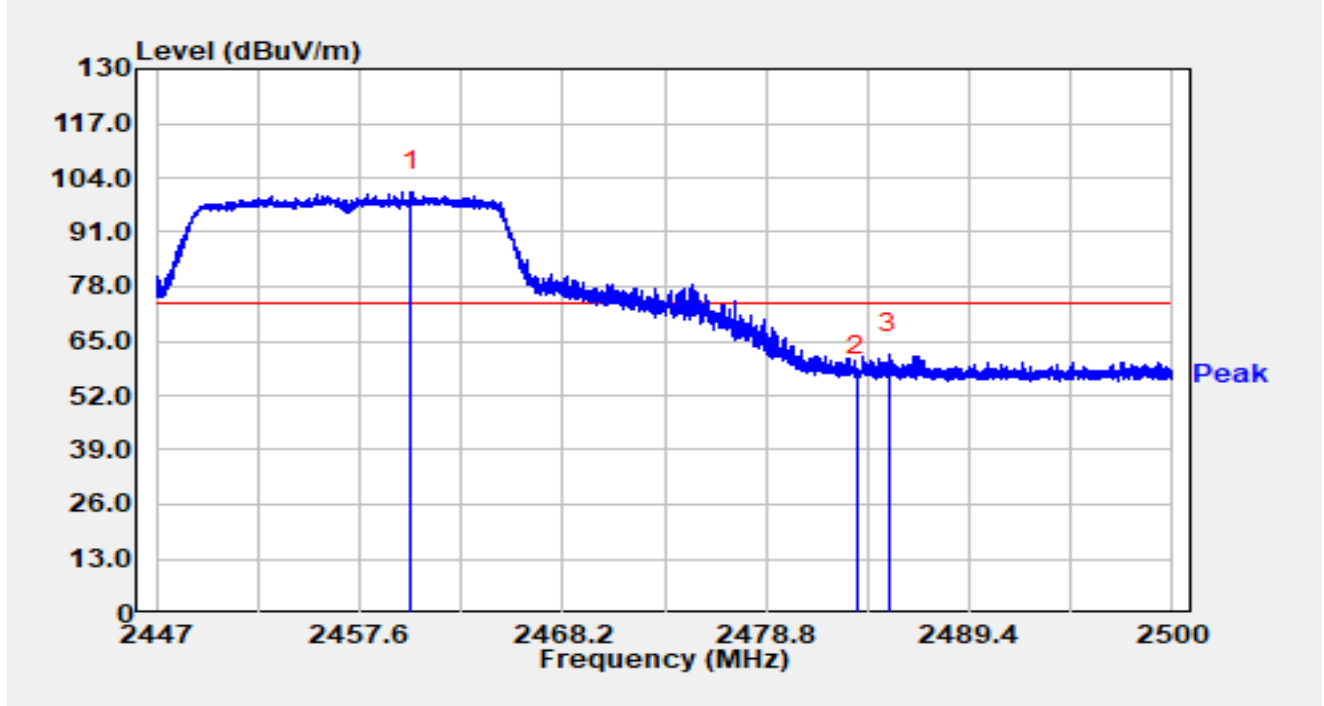


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2390.002	23.32	29.59	52.92	-1.08	54.00	Average
2	*	2410.957	70.65	29.63	100.29	N/A	N/A	Average

Notes:

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

Site	WJ-AC2	Test Date	2025-03-28
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11g at 2457MHz		

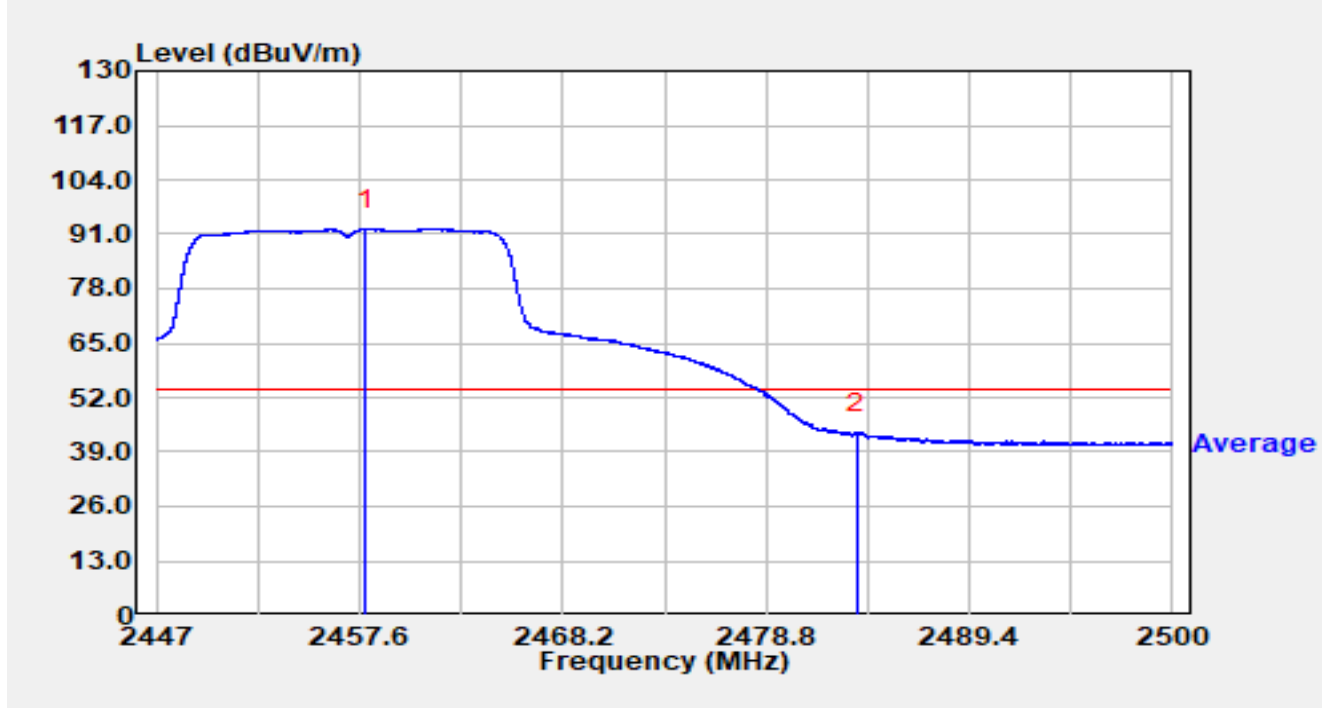


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2460.292	71.09	29.71	100.80	N/A	N/A	Peak
2		2483.501	26.83	29.76	56.60	-17.40	74.00	Peak
3		2485.202	32.28	29.77	62.05	-11.95	74.00	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-28
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11g at 2457MHz		

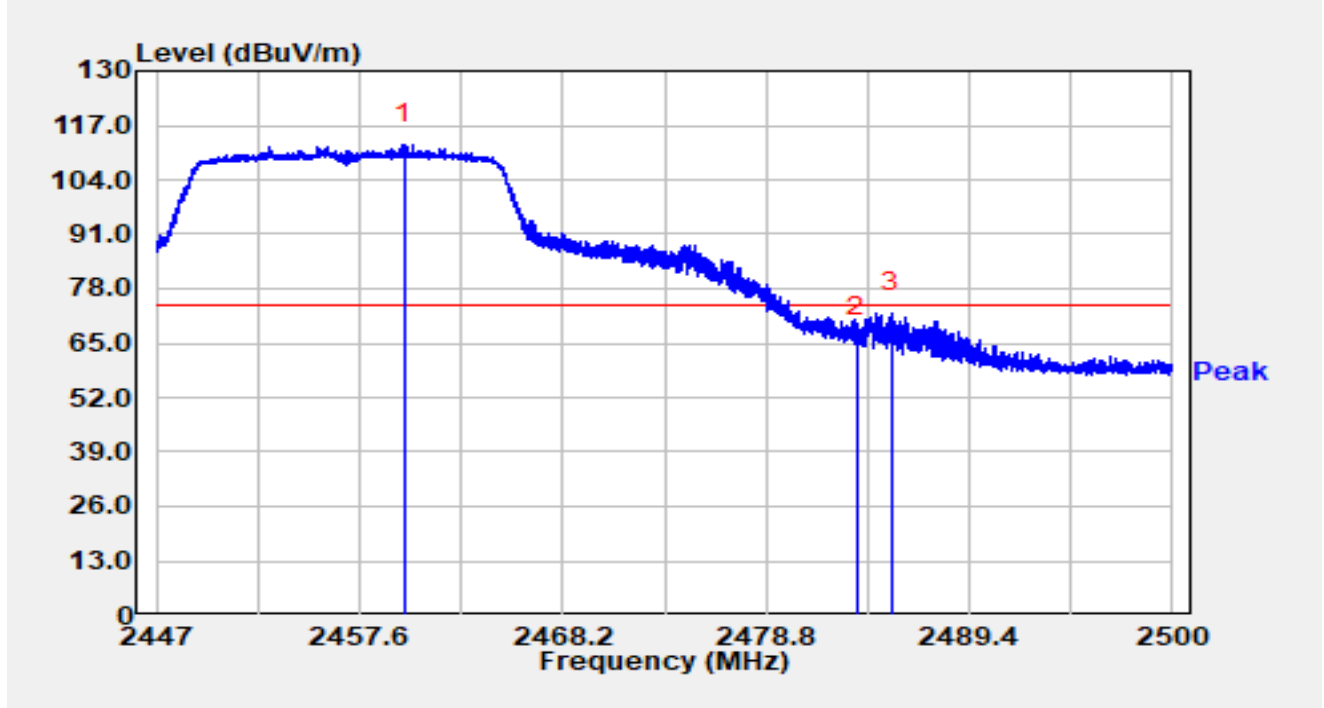


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2457.886	62.51	29.70	92.22	N/A	N/A	Average
2		2483.500	13.46	29.76	43.23	-10.77	54.00	Average

Notes:

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

Site	WJ-AC2	Test Date	2025-03-28
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11g at 2457MHz		

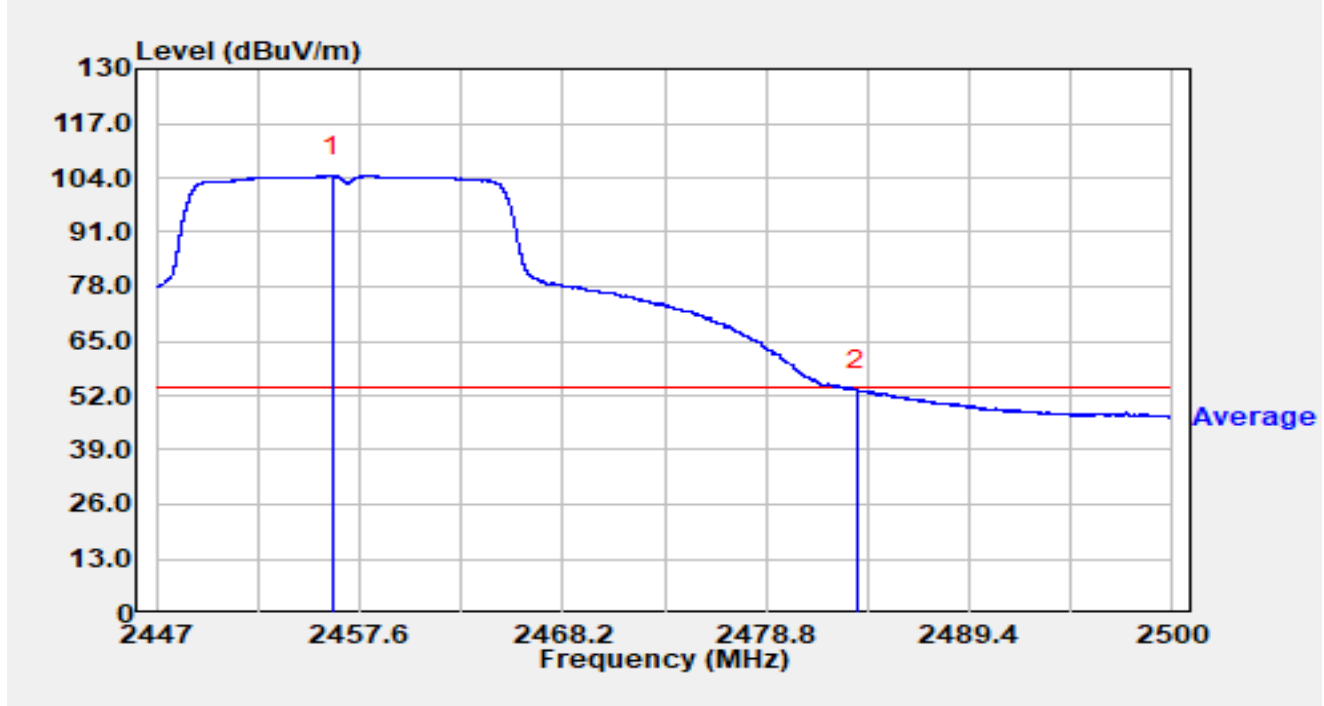


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2459.895	82.82	29.71	112.53	N/A	N/A	Peak
2		2483.501	36.89	29.76	66.65	-7.35	74.00	Peak
3		2485.351	42.41	29.77	72.18	-1.82	74.00	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-28
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11g at 2457MHz		

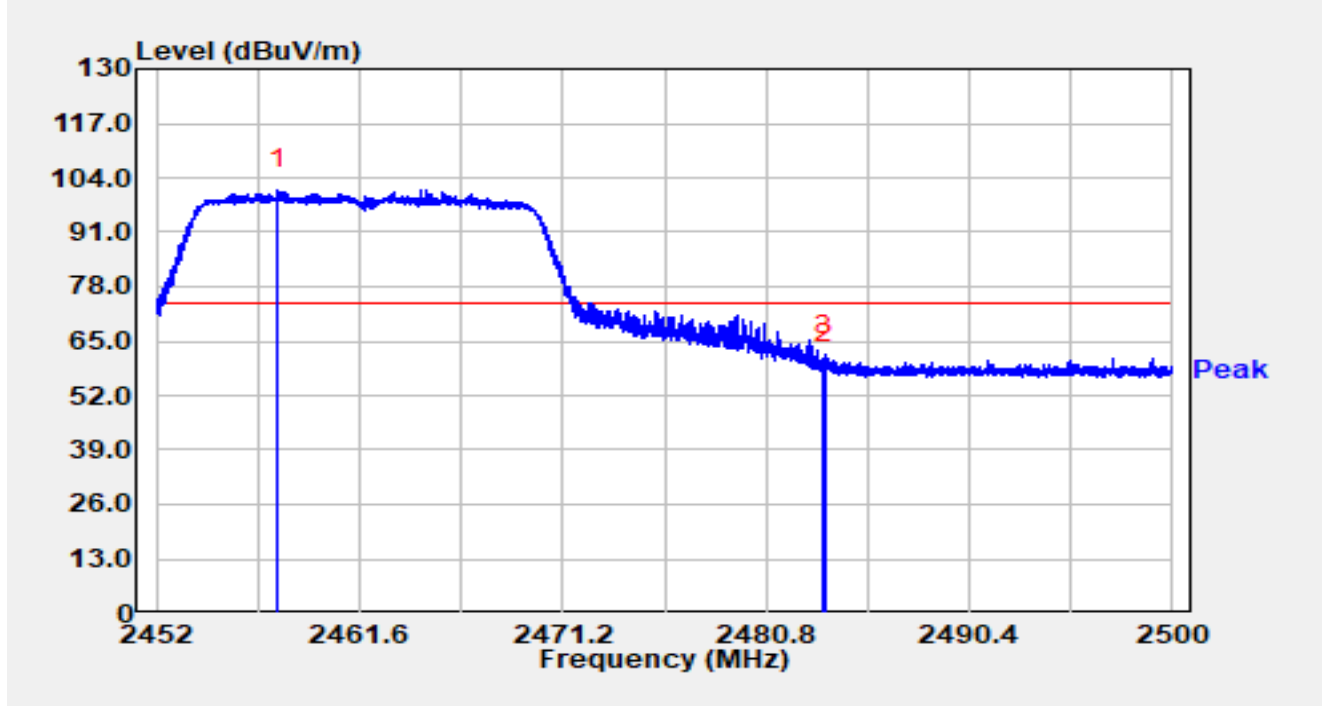


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2456.190	74.78	29.70	104.49	N/A	N/A	Average
2		2483.500	23.51	29.76	53.27	-0.73	54.00	Average

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11g at 2462MHz		

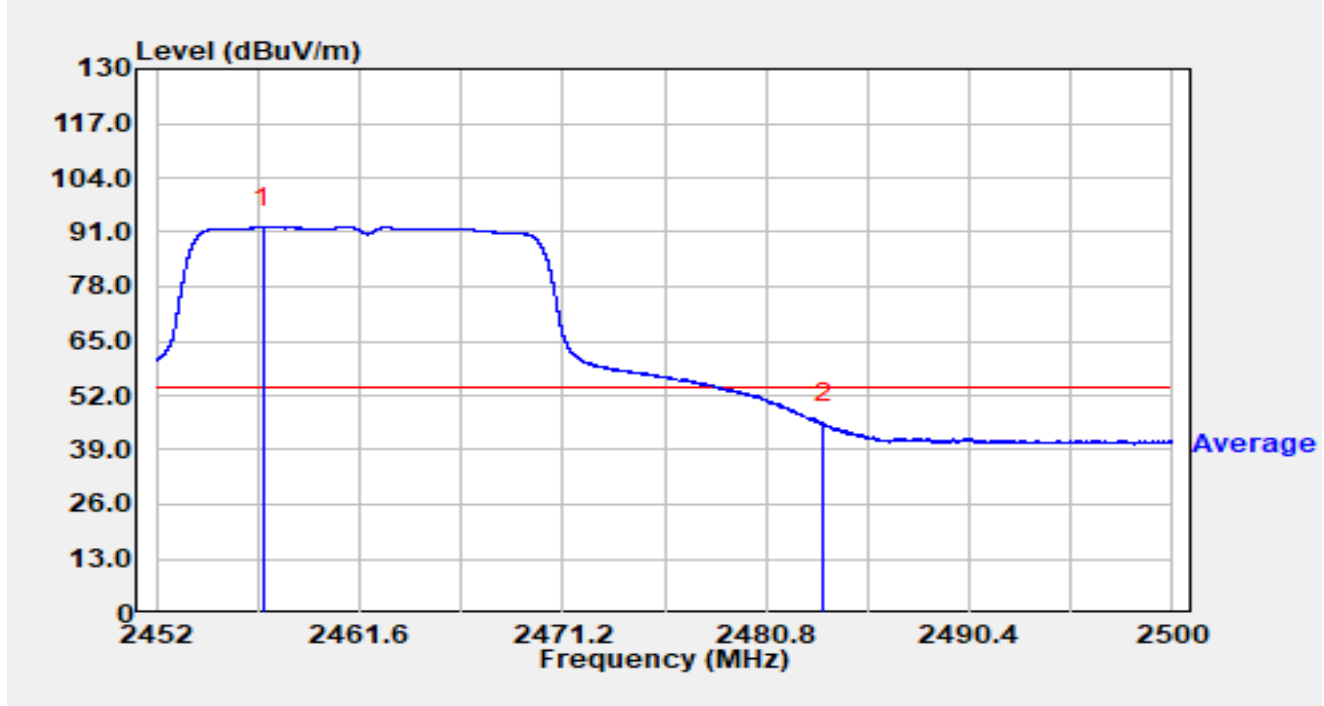


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2457.717	71.52	29.70	101.23	N/A	N/A	Peak
2		2483.500	30.04	29.76	59.81	-14.19	74.00	Peak
3		2483.579	31.87	29.76	61.64	-12.36	74.00	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11g at 2462MHz		

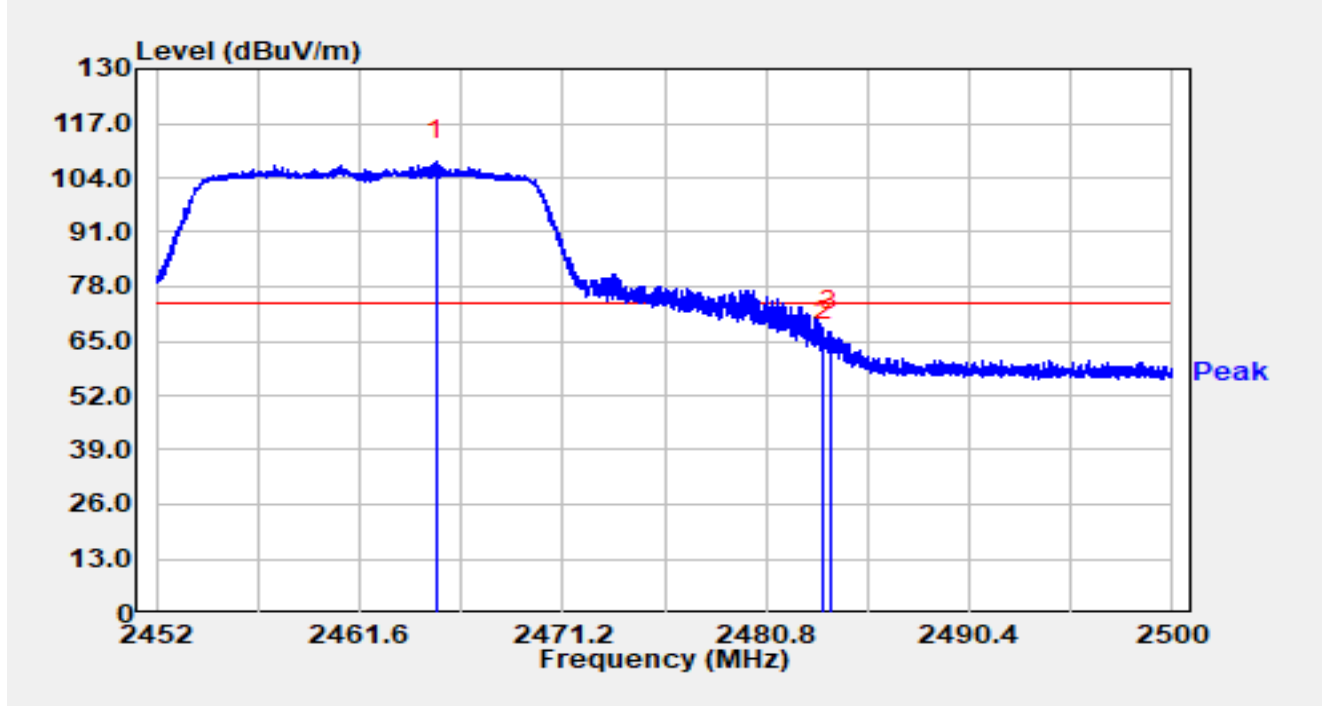


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2457.040	62.50	29.70	92.20	N/A	N/A	Average
2		2483.502	15.40	29.76	45.16	-8.84	54.00	Average

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11g at 2462MHz		

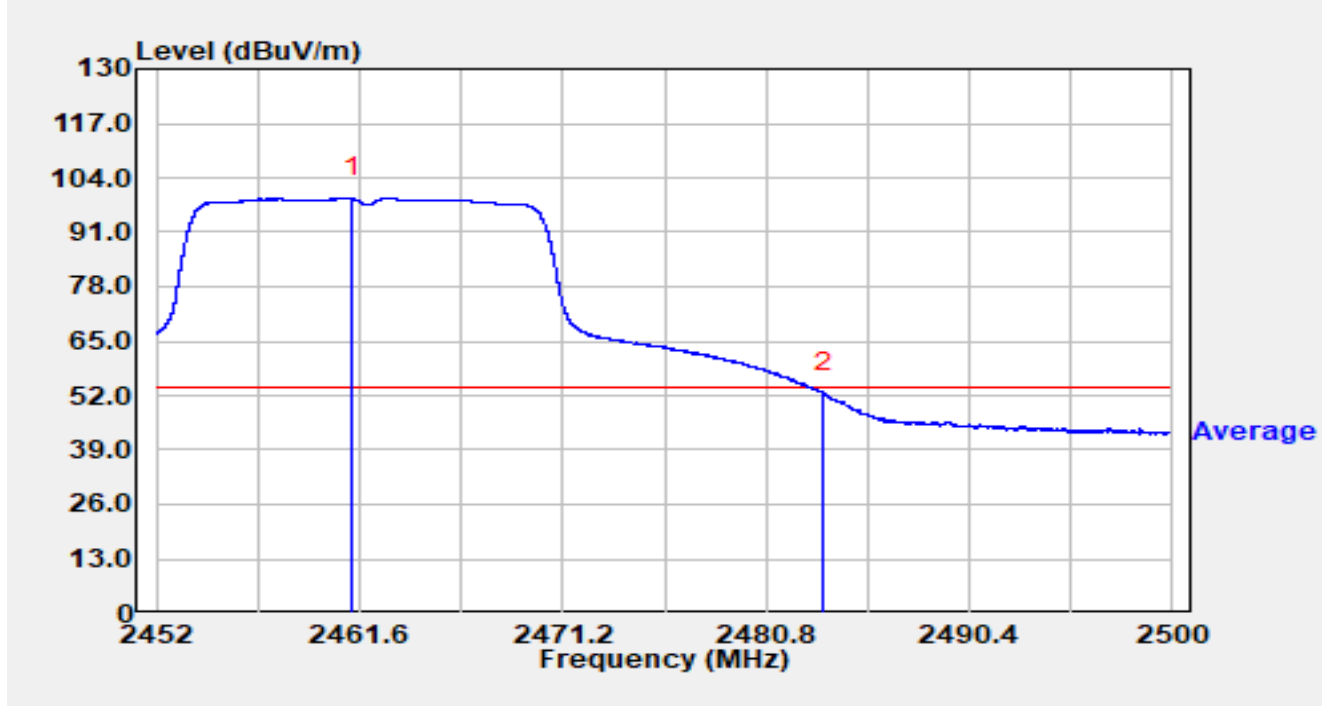


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2465.243	78.30	29.72	108.02	N/A	N/A	Peak
2		2483.502	35.14	29.76	64.91	-9.09	74.00	Peak
3		2483.800	37.56	29.77	67.32	-6.68	74.00	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11g at 2462MHz		

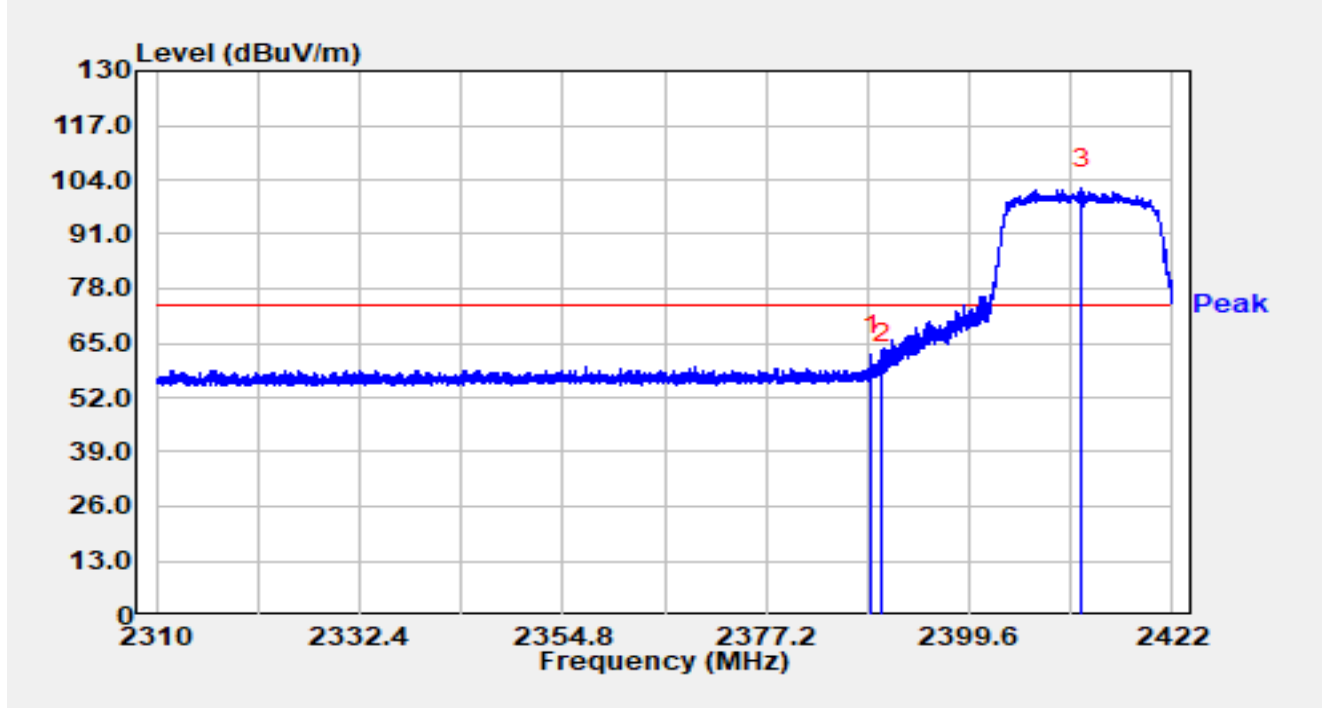


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2461.250	69.40	29.71	99.11	N/A	N/A	Average
2		2483.500	22.84	29.76	52.60	-1.40	54.00	Average

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11n-HT20 at 2412MHz		

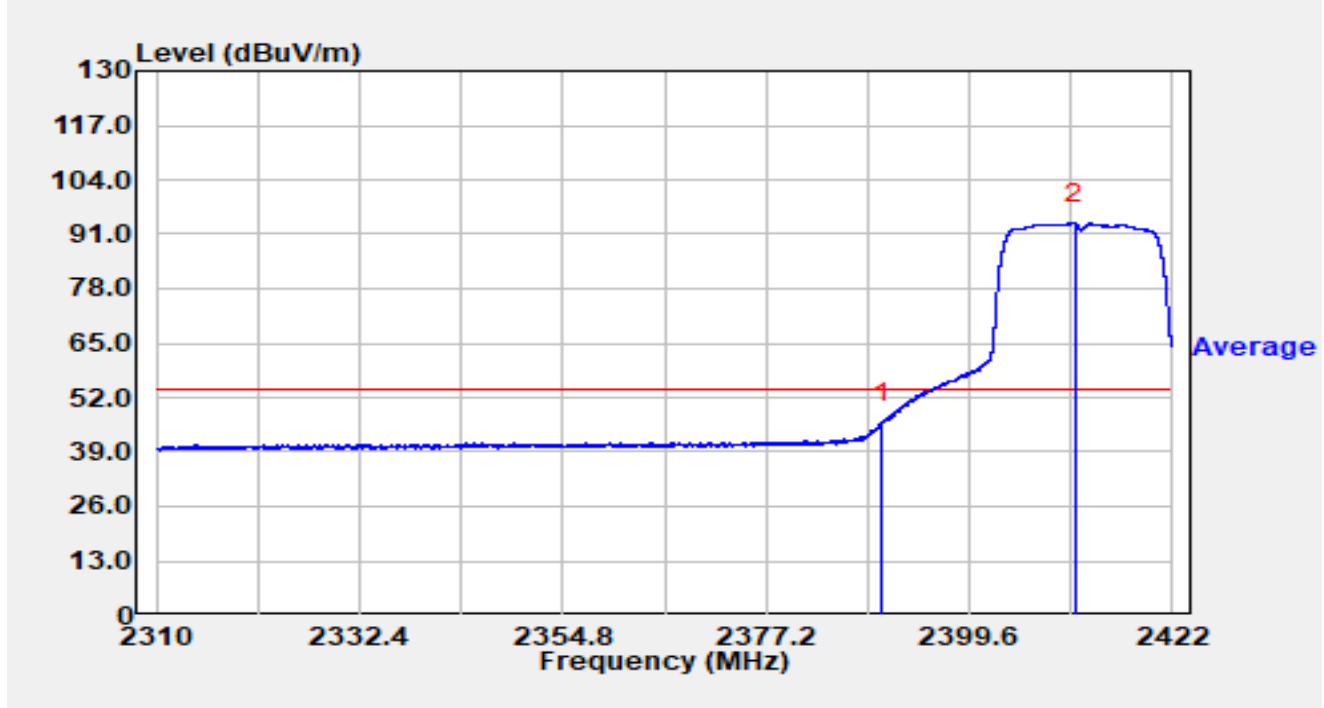


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2388.770	32.49	29.59	62.07	-11.93	74.00	Peak
2		2390.002	30.74	29.59	60.33	-13.67	74.00	Peak
3	*	2411.976	72.27	29.63	101.90	N/A	N/A	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11n-HT20 at 2412MHz		

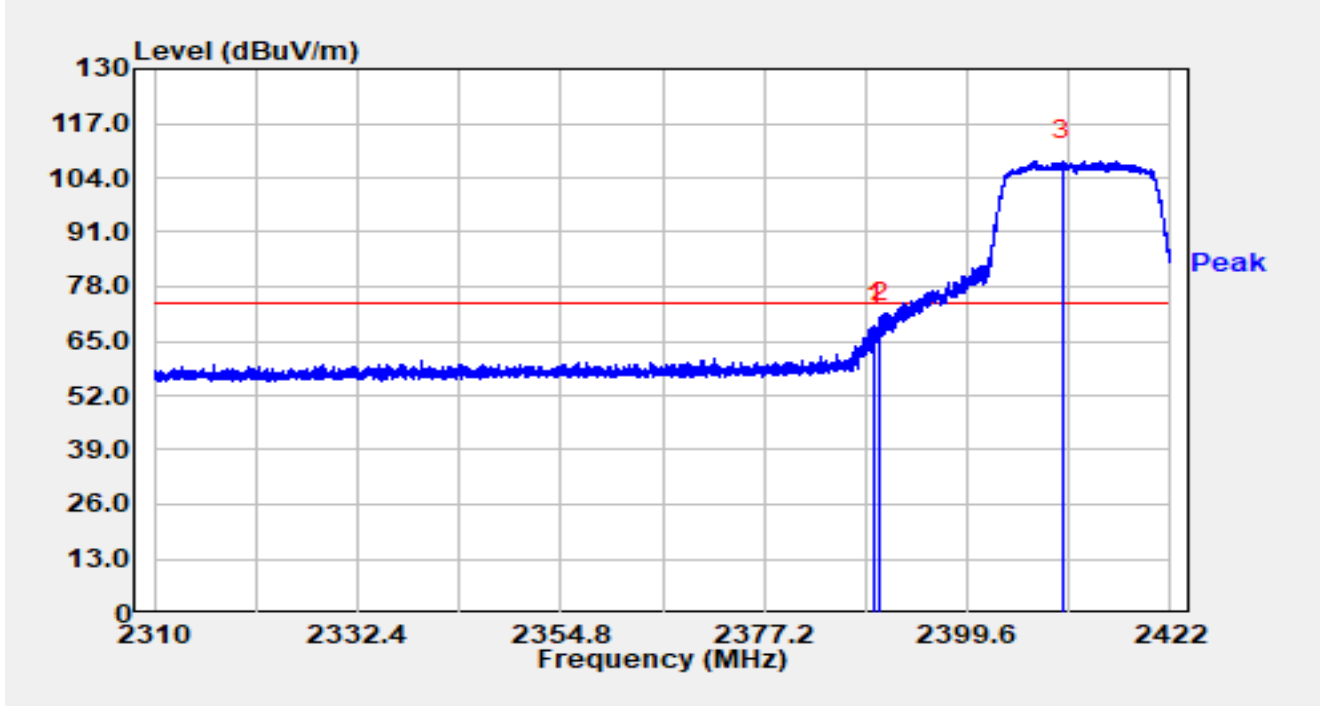


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2390.002	16.35	29.59	45.94	-8.06	54.00	Average
2	*	2411.192	64.05	29.63	93.68	N/A	N/A	Average

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11n-HT20 at 2412MHz		

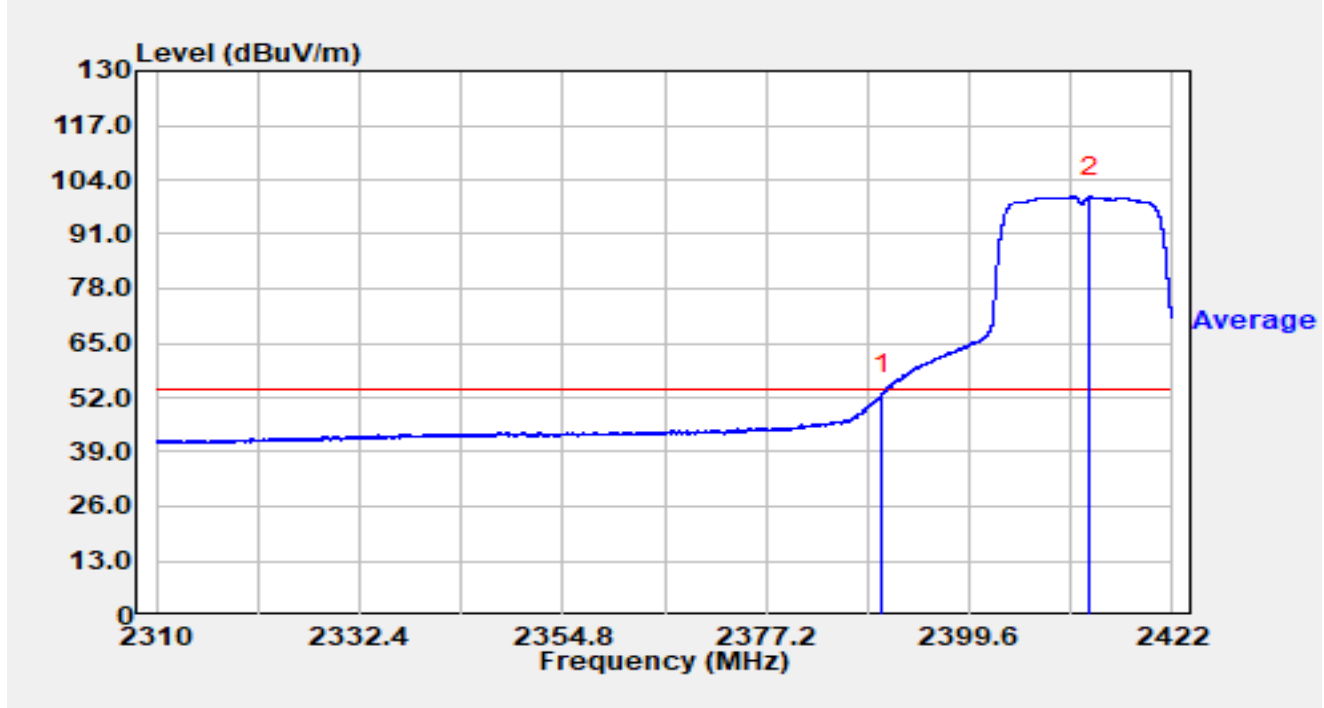


No	Mark	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Detector
1		2389.385	39.26	29.59	68.85	-5.15	74.00	Peak
2		2390.002	39.88	29.59	69.47	-4.53	74.00	Peak
3	*	2410.038	78.46	29.63	108.09	N/A	N/A	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11n-HT20 at 2412MHz		

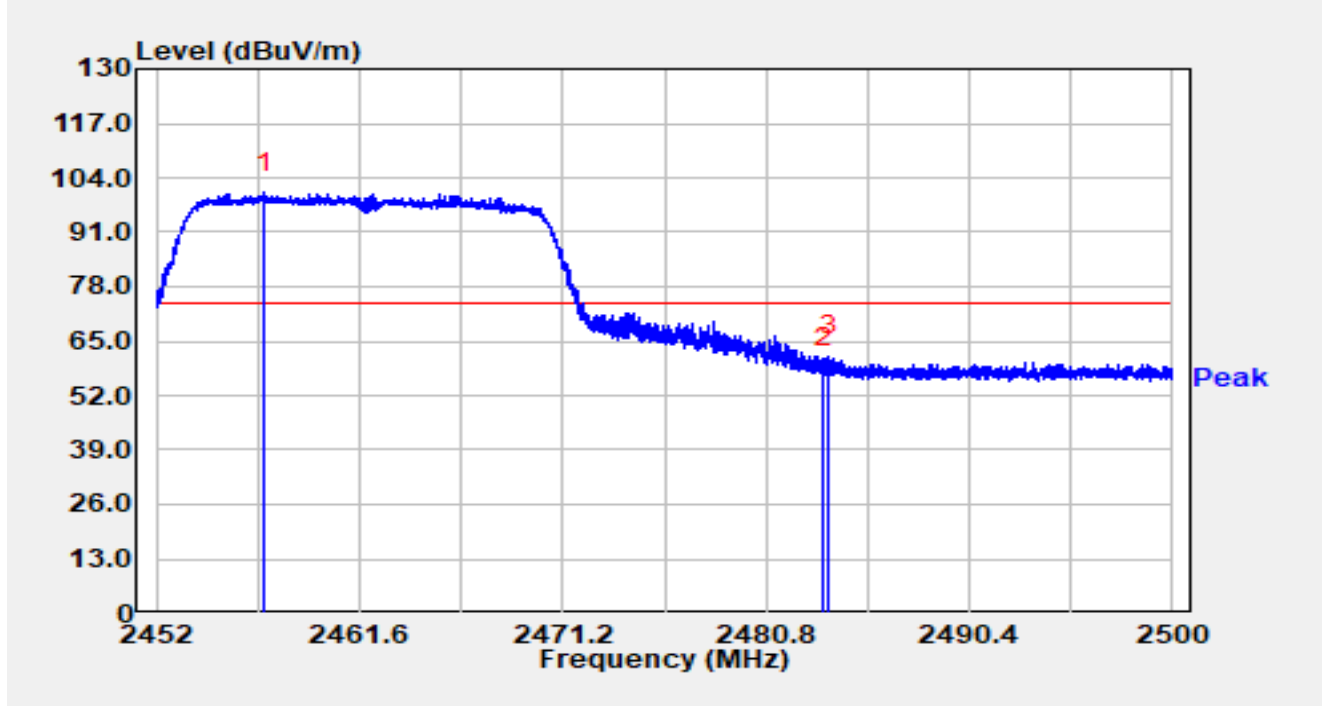


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2390.000	23.17	29.59	52.76	-1.24	54.00	Average
2	*	2412.883	70.26	29.63	99.89	N/A	N/A	Average

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11n-HT20 at 2462MHz		

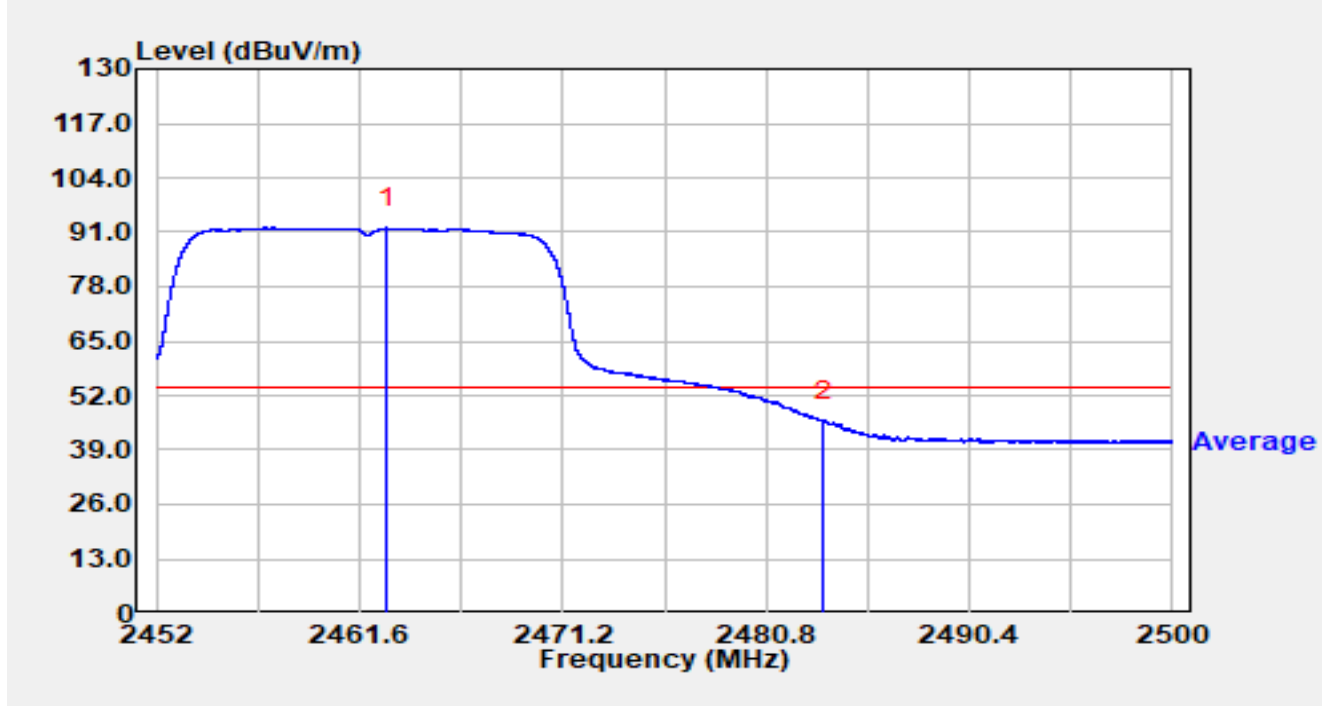


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2457.117	70.64	29.70	100.34	N/A	N/A	Peak
2		2483.502	28.68	29.76	58.44	-15.56	74.00	Peak
3		2483.781	31.73	29.76	61.49	-12.51	74.00	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Horizontal
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11n-HT20 at 2462MHz		

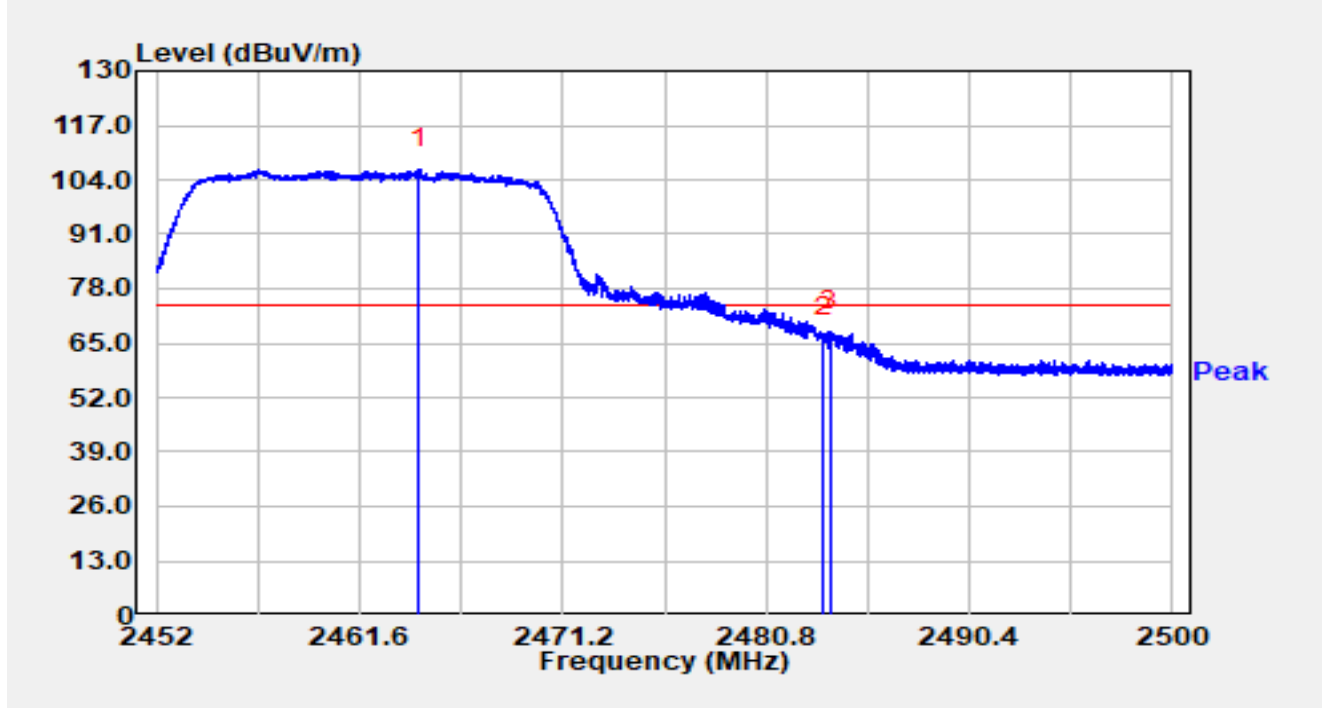


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2462.862	62.31	29.71	92.02	N/A	N/A	Average
2		2483.502	16.30	29.76	46.07	-7.93	54.00	Average

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11n-HT20 at 2462MHz		

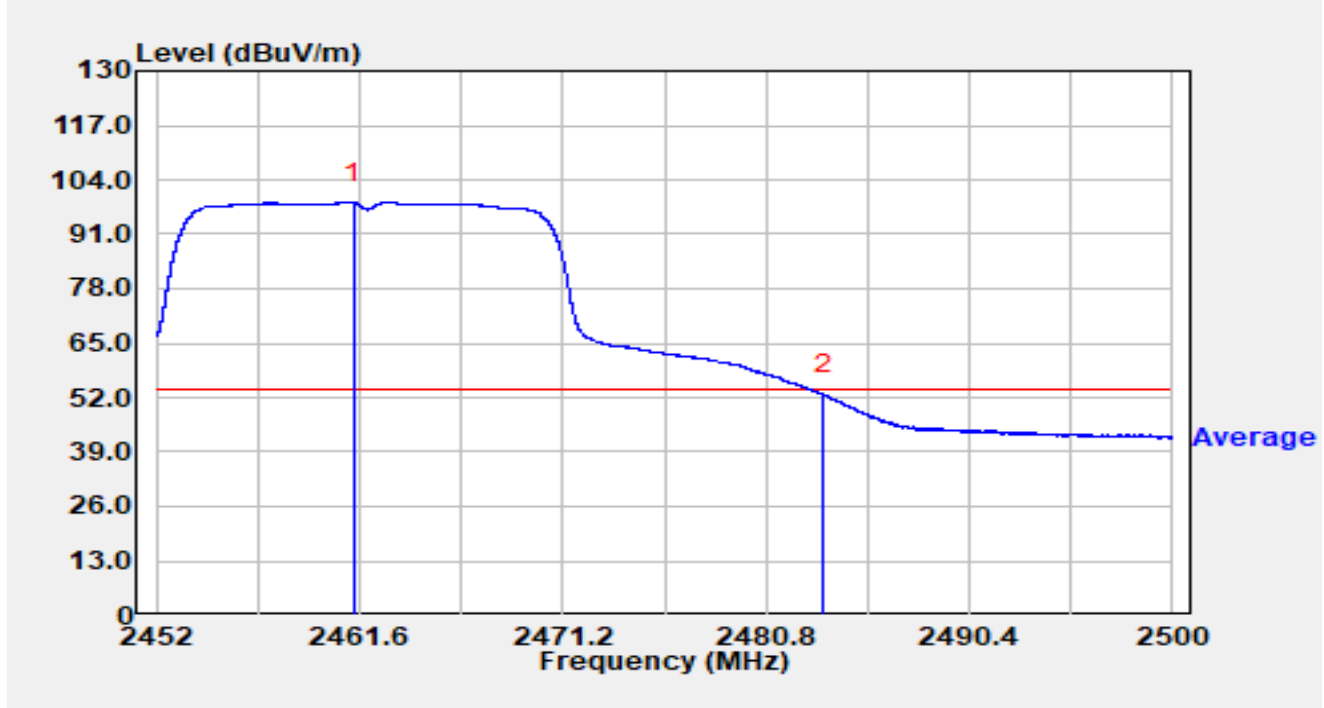


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2464.375	76.85	29.72	106.57	N/A	N/A	Peak
2		2483.502	36.69	29.76	66.45	-7.55	74.00	Peak
3		2483.805	38.05	29.77	67.82	-6.18	74.00	Peak

Notes:

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

Site	WJ-AC2	Test Date	2025-03-23
Temperature	17.9°C	Humidity	34.3%
Limit	FCC_Part 15_Band Edge (3m)	Test Engineer	Bob Zhang
Factor	DRH18-E_07105	Polarity	Vertical
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11n-HT20 at 2462MHz		



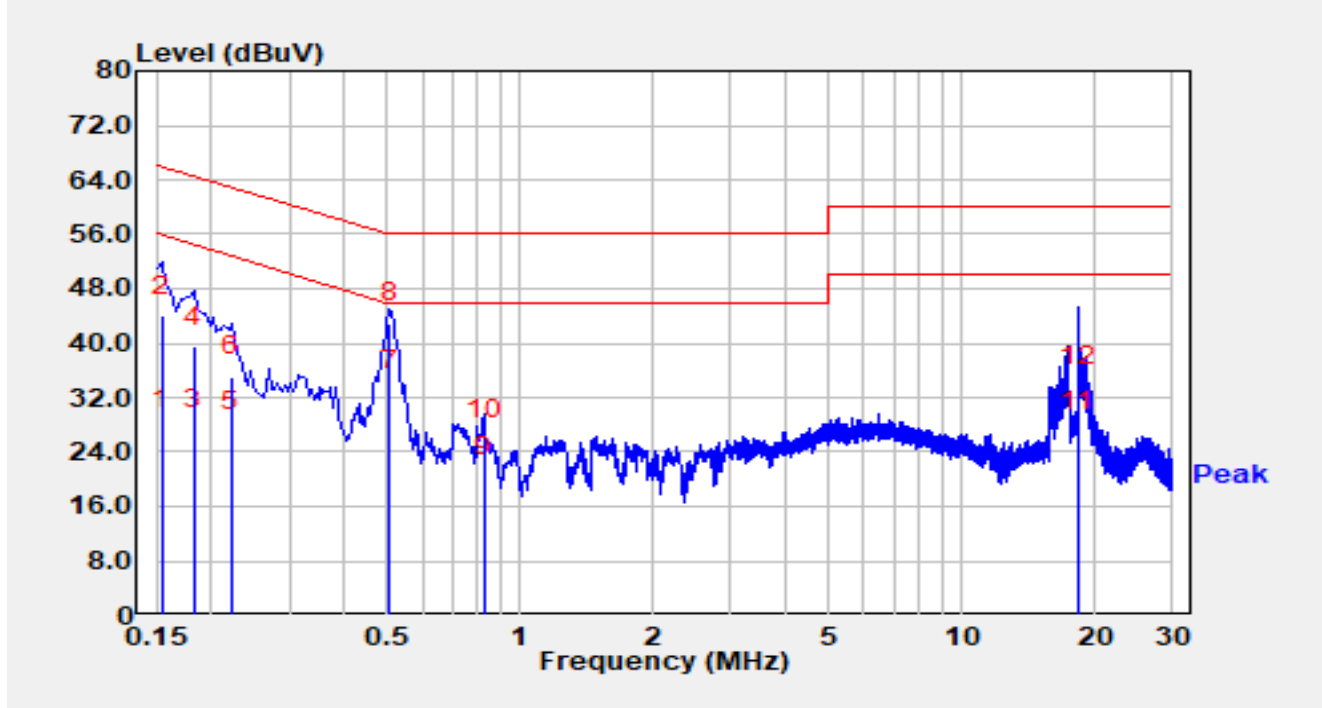
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2461.298	68.82	29.71	98.53	N/A	N/A	Average
2		2483.502	22.88	29.76	52.65	-1.35	54.00	Average

Notes:

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

A.8 AC Conducted Emissions Test Result

Site	WJ-SR5	Test Date	2025-03-28
Temperature	21.4 °C	Humidity	48.3 %
Limit	FCC Part 15.207_CE	Test Engineer	Carl Jiang
Factor	ENV216-07202_L1_Filter Off_C	Polarity	Line
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11b at 2462MHz		

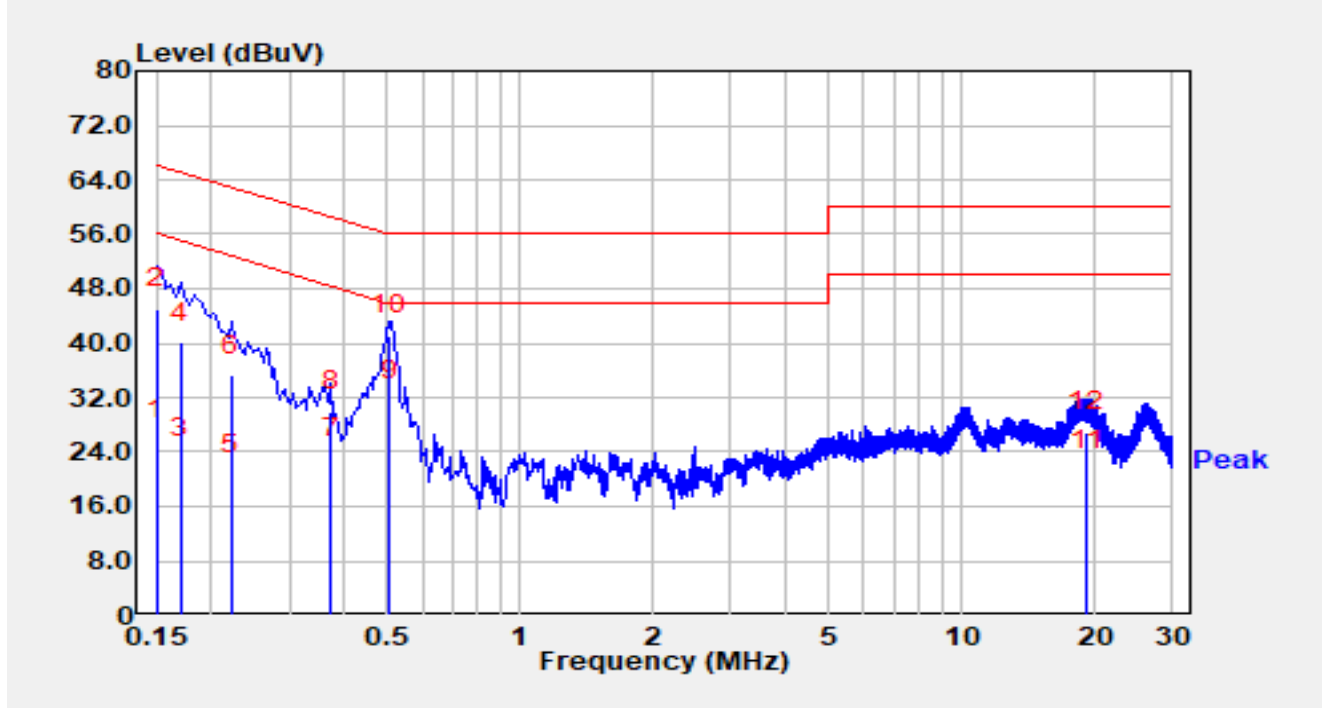


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.154	17.58	9.87	27.45	-28.33	55.78	Average
2		0.154	34.10	9.87	43.97	-21.81	65.78	QP
3		0.182	17.58	9.85	27.43	-26.96	54.39	Average
4		0.182	29.58	9.85	39.43	-24.96	64.39	QP
5		0.222	17.27	9.85	27.12	-25.63	52.74	Average
6		0.222	25.26	9.85	35.11	-27.64	62.74	QP
7	*	0.506	23.25	9.91	33.16	-12.84	46.00	Average
8		0.506	33.01	9.91	42.92	-13.08	56.00	QP
9		0.826	10.37	10.04	20.41	-25.59	46.00	Average
10		0.826	15.88	10.04	25.92	-30.08	56.00	QP
11		18.249	16.40	10.57	26.97	-23.03	50.00	Average
12		18.249	23.15	10.57	33.72	-26.28	60.00	QP

Notes:

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

Site	WJ-SR5	Test Date	2025-03-28
Temperature	21.4 °C	Humidity	48.3 %
Limit	FCC Part 15.207_CE	Test Engineer	Carl Jiang
Factor	ENV216-07202_N_Filter Off_C	Polarity	Neutral
EUT	SMART IRRIGATION	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11b at 2462MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.150	16.20	9.76	25.96	-30.04	56.00	Average
2		0.150	35.30	9.76	45.06	-20.94	66.00	QP
3		0.170	13.35	9.75	23.10	-31.86	54.96	Average
4		0.170	30.38	9.75	40.13	-24.83	64.96	QP
5		0.222	11.08	9.75	20.83	-31.91	52.74	Average
6		0.222	25.45	9.75	35.20	-27.54	62.74	QP
7		0.374	13.36	9.79	23.15	-25.26	48.41	Average
8		0.374	20.17	9.79	29.96	-28.45	58.41	QP
9	*	0.506	21.84	9.83	31.67	-14.33	46.00	Average
10		0.506	31.36	9.83	41.19	-14.81	56.00	QP
11		19.165	10.56	10.60	21.16	-28.84	50.00	Average
12		19.165	16.30	10.60	26.90	-33.10	60.00	QP

Notes:

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

Appendix B – Test Setup Photograph

Refer to “R25S1034028-UT” file.

Appendix C – EUT Photograph

Refer to “R25S1034028-UE” file.

The End
