



RF MEASUREMENT REPORT

FCC ID: 2AXJ4RE650V2
Applicant: TP-Link Corporation Limited
Product: AC2600 MU-MIMO Wi-Fi Range Extender
Model No.: RE650
Brand Name: tp-link
FCC Classification: Digital Transmission System (DTS)
FCC Rule Part(s): Part 15 Subpart C (Section 15.247)
Result: Complies
Received Date: 2025-09-17
Test Date: 2025-09-22

Reviewed By:

Kevin Guo

Kevin Guo

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.

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Revision History

Report No.	Version	Description	Issue Date	Note
R25S1048098-U201	V01	Initial Report	2025-11-20	Valid

Note: This report is a FCC Class II Permissive Change report based on the original report “2109RSU016-U1.”

The 2.4 GHz FEM has been changed, while all other components remain unchanged.

For this modification, the “Output Power” test was fully re-performed, and “Radiated Spurious Emissions” as well as “Radiated Restricted Band Edge” tests were spot-checked on the new sample.

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1. General Information

1.1. Applicant

TP-Link Corporation Limited

Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong

1.2. Manufacturer

TP-Link Corporation Limited

Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong

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	AC2600 MU-MIMO Wi-Fi Range Extender
Model No.	RE650
Brand Name	tp-link
EUT Identification No.	250917S#15 (Conducted) 250917S#14 (Radiated)
Wi-Fi Specification	802.11a/b/g/n/ac & VHT
Antenna Information	Refer to section 1.7
Power Supply	AC 100 ~ 240 V/50 ~ 60 Hz
Note: The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer.	

1.5. Radio Specification under Test

Frequency Range	2400 ~ 2483.5 MHz
Channel Number	802.11b/g/n-HT20 & VHT20: 11 802.11n-HT40 & VHT40: 7
Type of Modulation	802.11b: DSSS 802.11g/n & VHT: 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 600 Mbps VHT: up to 800 Mbps

1.6. Working Frequencies

802.11b/g/n-HT20 & VHT20

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	--	--

802.11n-HT40 & VH40

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	--	--	--	--

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	T _x Paths	Max Antenna Gain (dBi)	Beamforming Directional Gain (dBi)	CDD Directional Gain (dBi)	
					For Power	For PSD
Dipole Antenna	2412 ~ 2462	4	1.0	7.02	1.0	7.02
	5150 ~ 5850	4	2.0	8.02	2.0	8.02

Remark:

- The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.
If all antennas have the same gain, G_{ANT} , Directional gain = $G_{ANT} + \text{Array Gain}$, where Array Gain is as follows.
 - For power spectral density (PSD) measurements on all devices,
Array Gain = $10 \log (N_{ANT} / N_{SS})$ dB;
 - For power measurements on IEEE 802.11 devices,
Array Gain = 0 dB for $N_{ANT} \leq 4$;
- The EUT also supports Beam Forming mode, and the Beam Forming support 802.11n/ac & VHT, not include 802.11a/b/g. BF Directional gain = $G_{ANT} + 10 \log (N_{ANT})$.

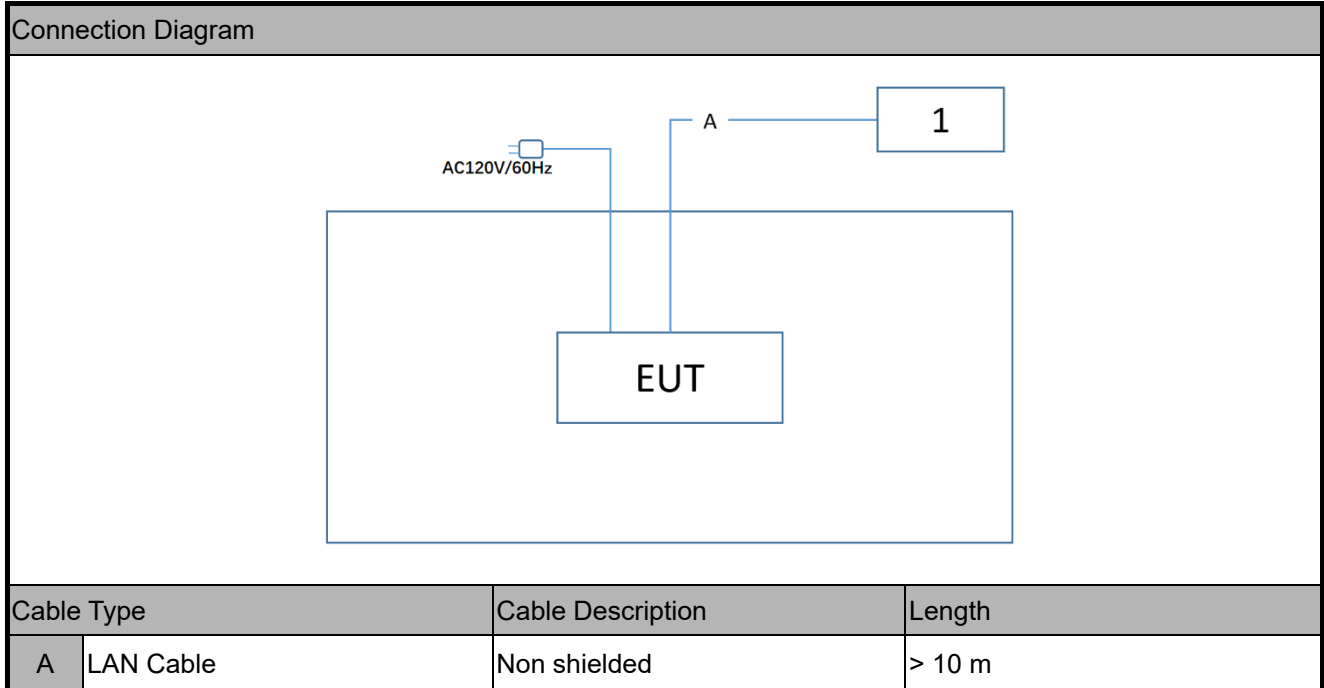
2. Test Configuration

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)
Mode 4: Transmit by 802.11n-HT40 (MCS0)
Mode 5: Transmit by VHT20 (MCS0)
Mode 6: Transmit by VHT40 (MCS0)

2.2. Test System Connection Diagram

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



2.3. Test Software

The test utility software used during testing was “QATool_Dbg.exe”, and the version was 0.0.0.70.

Note: Detail power setting 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
- KDB 662911 D01 v02r01
- 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
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
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2026-05-11	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2026-04-17	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2025-10-13	WZ-AC1/WZ-AC2
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2026-01-04	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2025-10-16	WZ-AC1
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2026-04-17	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2025-11-03	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2026-01-09	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2026-04-24	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06447	1 year	2026-06-17	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2026-04-26	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11094	1 year	2026-06-02	WZ-SR5
RF Cable	UCwave	UCE500	MRTSUE07371	1 year	2026-07-20	WZ-SR5

Software	Version	Function
e3	230711	RE & CE
Controller_MF 7802	2.03 C	RE Antenna & Turntable
Controller_MF 7802	1.02	RE Antenna & Turntable
BenchVue Power Meter	2018.1	Power

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

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

5.2. Measurement Uncertainty

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

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
Output Power	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 1.5 dB	

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(b)(3)	Output Power	Conducted	Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emissions)	Radiated	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. Output Power Measurement

6.2.1. 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.

6.2.2. Test Procedure

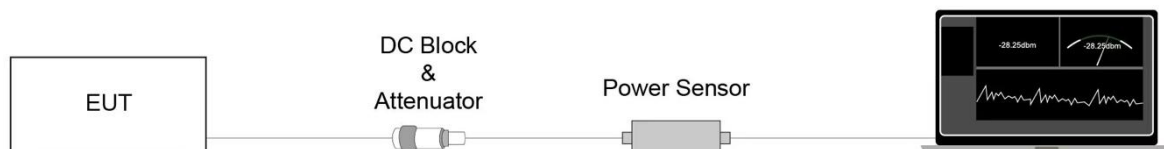
ANSI C63.10-2020 - Section 11.9.2.3.2

6.2.3. 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.

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.1.

6.3. Radiated Spurious Emissions Measurement

6.3.1. 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

6.3.2. 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)

6.3.3. 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

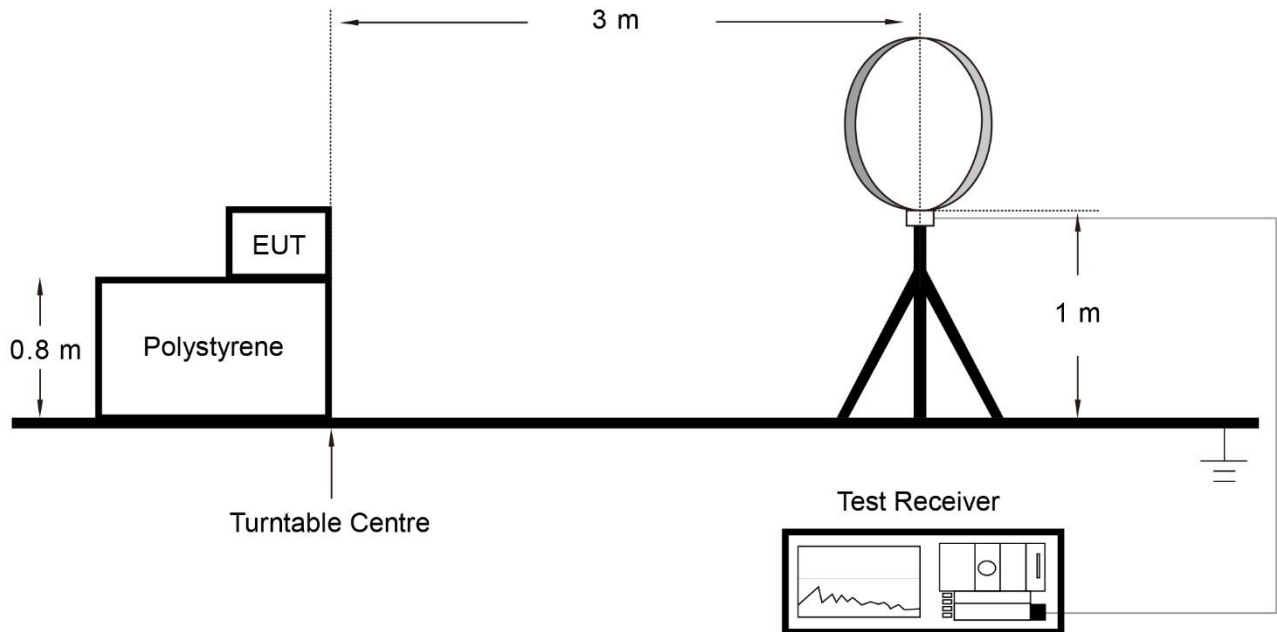
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1 GHz (Method VB)

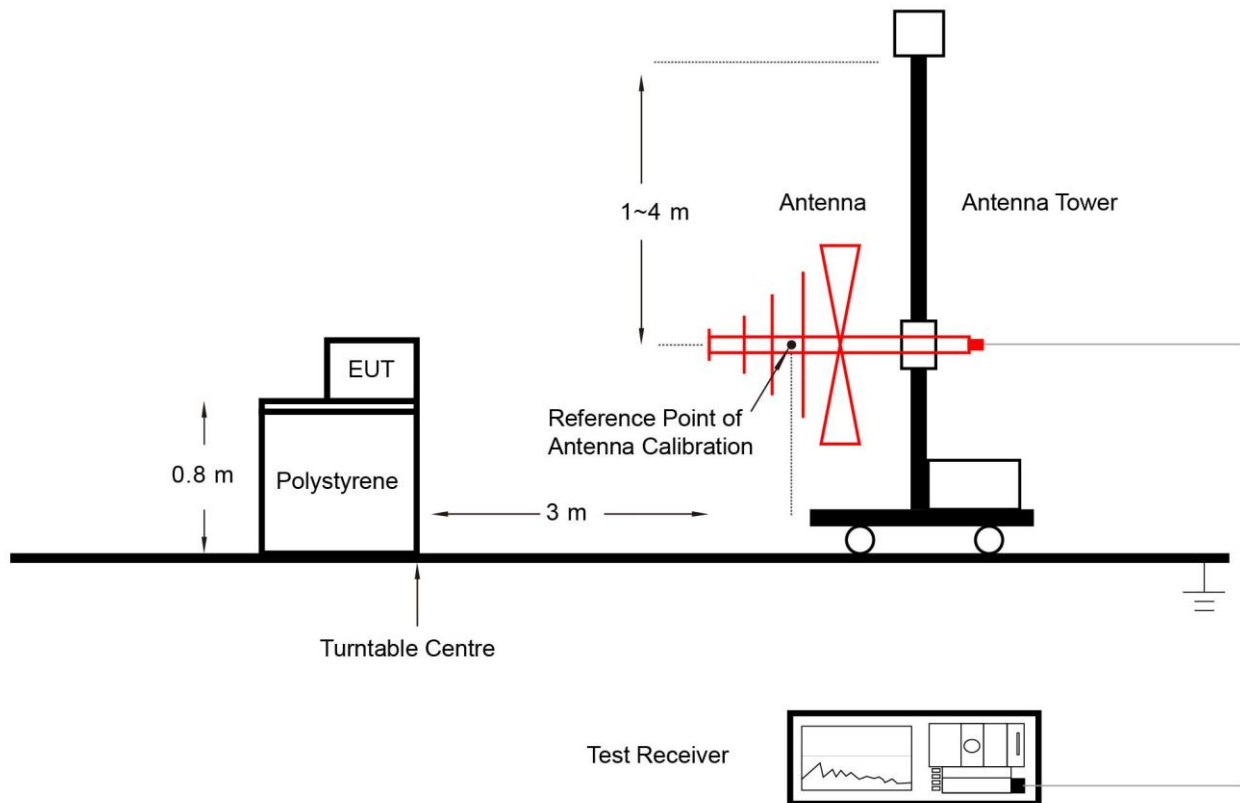
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW; if the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz
If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.
4. 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

6.3.4. Test Setup

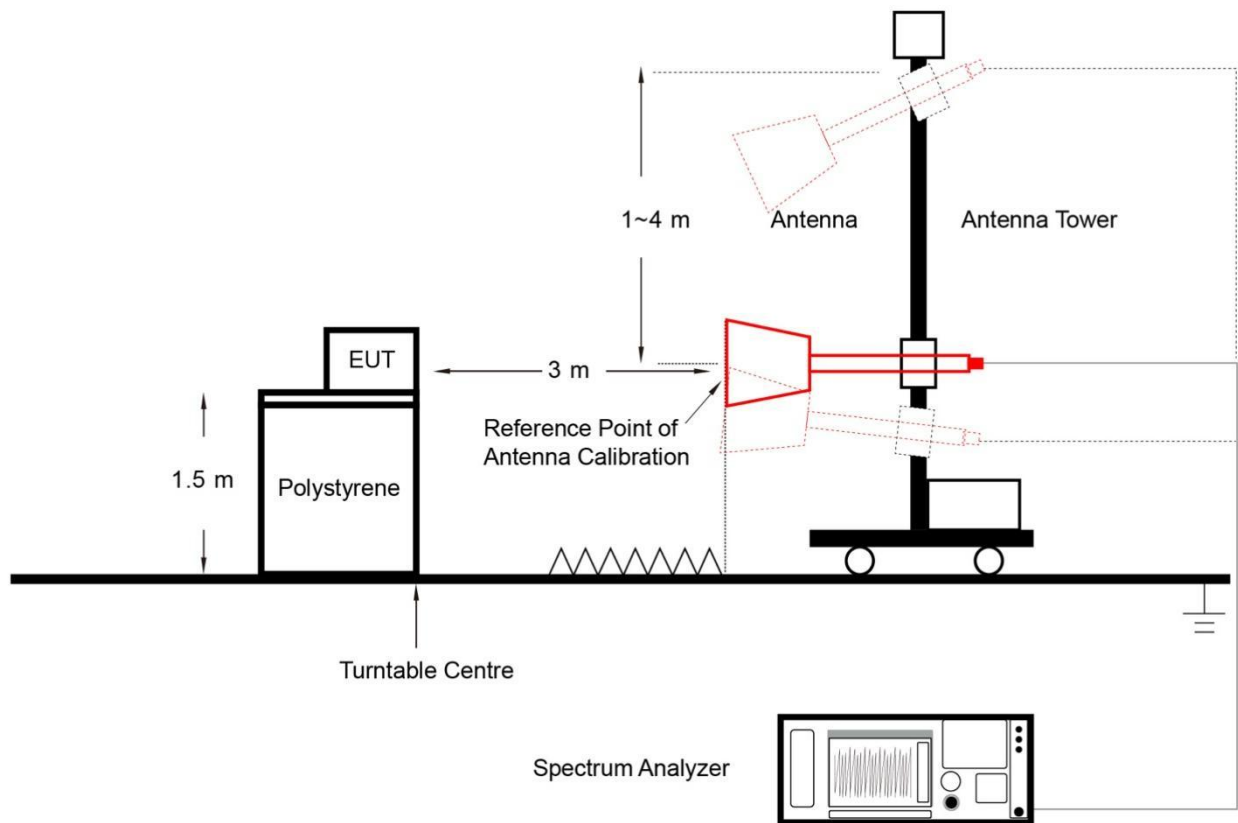
Below 30 MHz Test Setup:



Below 1 GHz Test Setup:



Above 1 GHz Test Setup:



6.3.5. Test Result

Refer to Appendix A.2.

6.4. Radiated Restricted Band Edge Measurement

6.4.1. 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

6.4.2. Test Procedure

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

6.4.3. 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

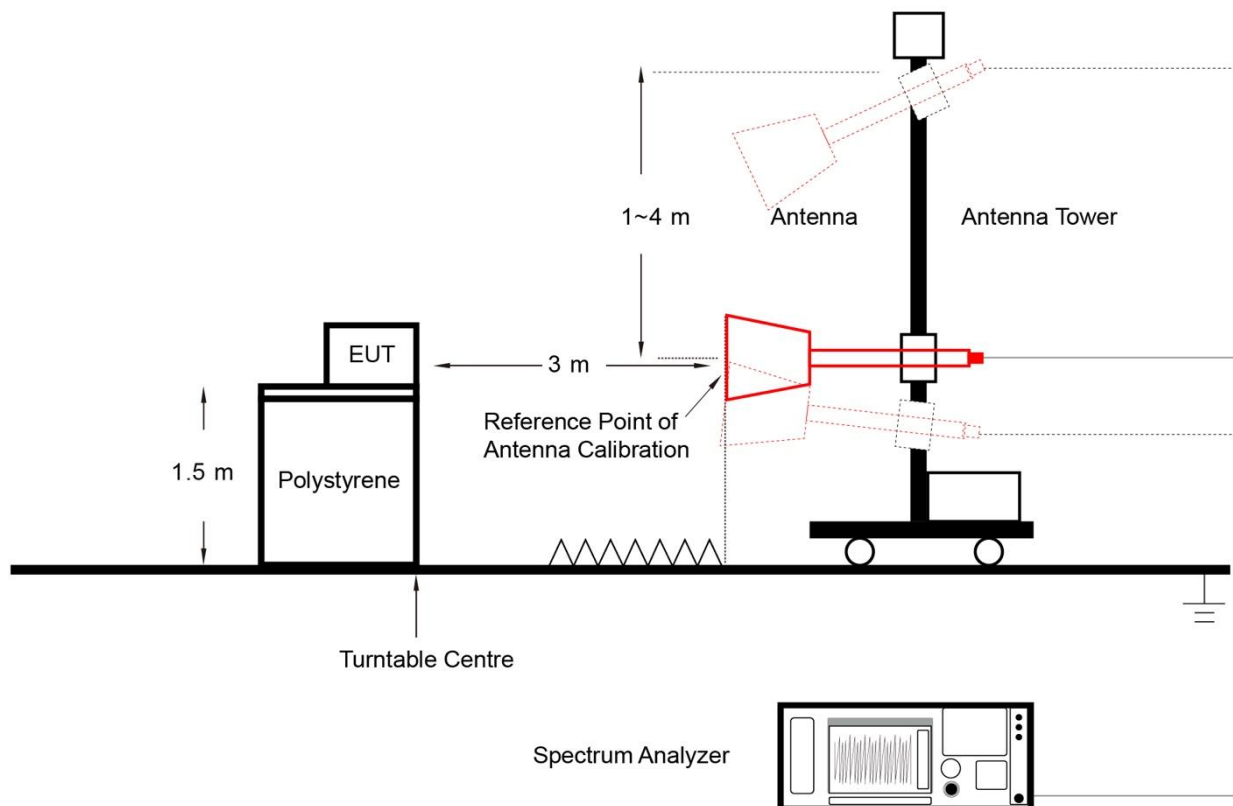
Average Field Strength Measurements

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

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.3.

Appendix A - Test Result

A.1 Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2025-09-22	Test Mode	CDD Mode

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3		
11b	1 Mbps	01	2412	18.07	18.38	17.87	17.74	24.04	≤ 30.00
11b	1 Mbps	02	2417	19.02	19.25	18.37	18.98	24.94	≤ 30.00
11b	1 Mbps	06	2437	21.33	21.39	20.83	21.35	27.25	≤ 30.00
11b	1 Mbps	09	2452	19.07	19.25	18.76	18.99	25.04	≤ 30.00
11b	1 Mbps	10	2457	18.26	18.16	18.02	17.97	24.12	≤ 30.00
11b	1 Mbps	11	2462	18.05	18.45	17.95	18.07	24.15	≤ 30.00
11g	6 Mbps	01	2412	13.93	14.21	13.60	14.23	20.02	≤ 30.00
11g	6 Mbps	02	2417	16.37	16.55	16.08	16.73	22.46	≤ 30.00
11g	6 Mbps	03	2422	18.22	18.42	17.95	18.49	24.30	≤ 30.00
11g	6 Mbps	06	2437	19.95	20.17	19.42	20.32	26.00	≤ 30.00
11g	6 Mbps	08	2447	19.89	20.09	19.79	20.11	25.99	≤ 30.00
11g	6 Mbps	09	2452	16.35	16.56	16.44	16.68	22.53	≤ 30.00
11g	6 Mbps	10	2457	16.63	16.93	16.82	17.16	22.91	≤ 30.00
11g	6 Mbps	11	2462	14.12	14.14	13.99	14.23	20.14	≤ 30.00
11n-HT20	MCS0	01	2412	12.68	13.29	12.60	13.33	19.01	≤ 30.00
11n-HT20	MCS0	02	2417	16.53	16.93	16.44	16.95	22.74	≤ 30.00
11n-HT20	MCS0	06	2437	19.25	19.63	18.92	19.70	25.41	≤ 30.00
11n-HT20	MCS0	08	2447	17.10	17.31	17.18	17.41	23.27	≤ 30.00
11n-HT20	MCS0	09	2452	16.11	16.46	16.35	16.56	22.39	≤ 30.00
11n-HT20	MCS0	10	2457	15.22	15.68	15.35	15.75	21.53	≤ 30.00
11n-HT20	MCS0	11	2462	13.33	13.57	13.54	13.78	19.58	≤ 30.00
11n-HT40	MCS0	03	2422	9.41	9.68	9.22	10.29	15.69	≤ 30.00
11n-HT40	MCS0	04	2427	10.98	11.24	10.60	11.70	17.17	≤ 30.00
11n-HT40	MCS0	06	2437	13.85	14.10	13.57	14.75	20.11	≤ 30.00
11n-HT40	MCS0	09	2452	12.06	12.17	12.07	12.66	18.27	≤ 30.00

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3		
VHT20	MCS0	01	2412	13.23	13.64	13.14	13.70	19.46	≤ 30.00
VHT20	MCS0	02	2417	16.45	17.02	16.52	17.13	22.81	≤ 30.00
VHT20	MCS0	06	2437	19.17	19.69	18.87	19.62	25.37	≤ 30.00
VHT20	MCS0	08	2447	17.03	17.33	17.24	17.49	23.30	≤ 30.00
VHT20	MCS0	09	2452	16.70	16.86	16.72	16.48	22.71	≤ 30.00
VHT20	MCS0	10	2457	15.43	15.45	15.53	15.64	21.53	≤ 30.00
VHT20	MCS0	11	2462	13.36	13.72	13.57	13.98	19.68	≤ 30.00
VHT40	MCS0	03	2422	9.88	10.22	9.55	10.80	16.16	≤ 30.00
VHT40	MCS0	04	2427	11.04	11.35	10.68	11.57	17.19	≤ 30.00
VHT40	MCS0	06	2437	14.51	14.73	14.08	15.08	20.64	≤ 30.00
VHT40	MCS0	09	2452	10.57	10.84	10.58	11.26	16.84	≤ 30.00

Note: Total Average Power (dBm) = $10 \times \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$ (dBm).

A.2 Radiated Spurious Emissions Test Result

Test Site	WZ-AC1	Test Engineer	Jerry Lu
Test Date	2025-09-22	Test Mode	VHT40
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.		

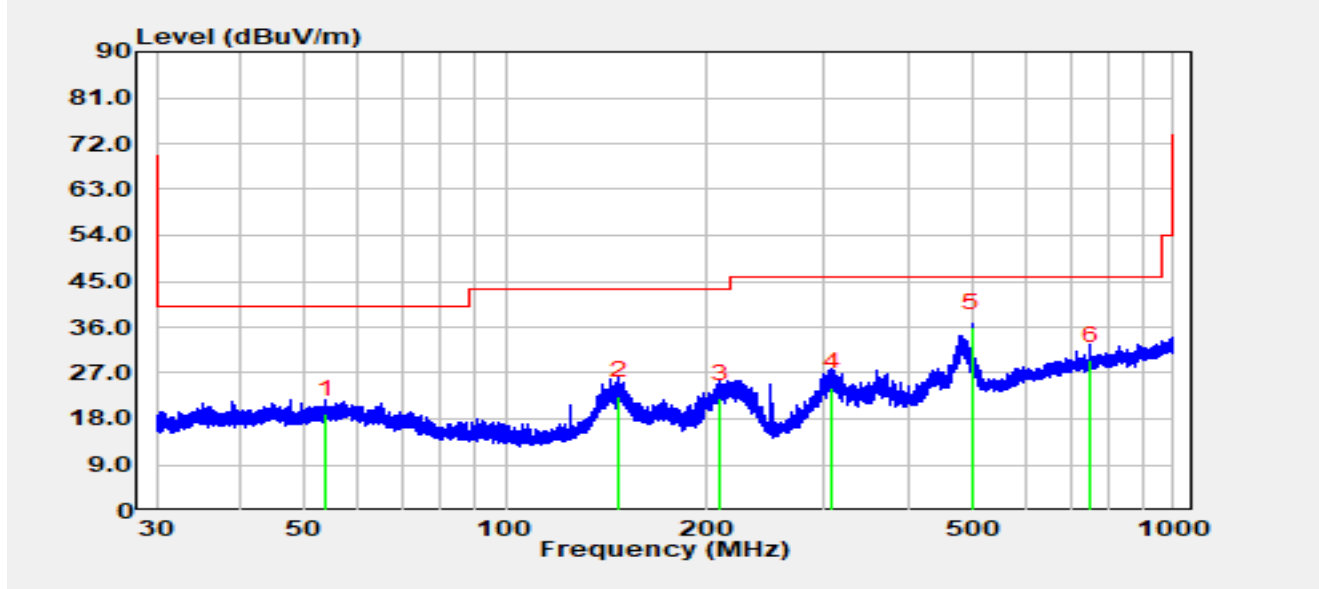
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
06	9309.60	36.30	13.79	50.09	74.00	-23.91	Peak	Horizontal
	10788.60	24.51	14.98	39.49	54.00	-14.51	Average	Horizontal
	10788.60	36.15	14.98	51.13	74.00	-22.87	Peak	Horizontal
	17988.10	20.33	24.05	44.38	54.00	-9.62	Average	Horizontal
	17988.10	35.66	24.05	59.71	74.00	-14.29	Peak	Horizontal
	9450.70	35.73	13.51	49.24	74.00	-24.76	Peak	Vertical
	10610.10	23.56	14.98	38.54	54.00	-15.46	Average	Vertical
	10610.10	36.51	14.98	51.49	74.00	-22.51	Peak	Vertical
	17957.50	20.14	23.33	43.47	54.00	-10.53	Average	Vertical
	17957.50	36.61	23.33	59.94	74.00	-14.06	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	2025-09-22
Temperature	25.2 °C	Humidity	57.4%
Limit	FCC_Part 15.209_RSE (3m)	Test Engineer	Lucas Wang
Test Voltage	AC 120 V/60 Hz	Polarity	Horizontal
Test Mode	Transmit by VHT40 at 2437 MHz		

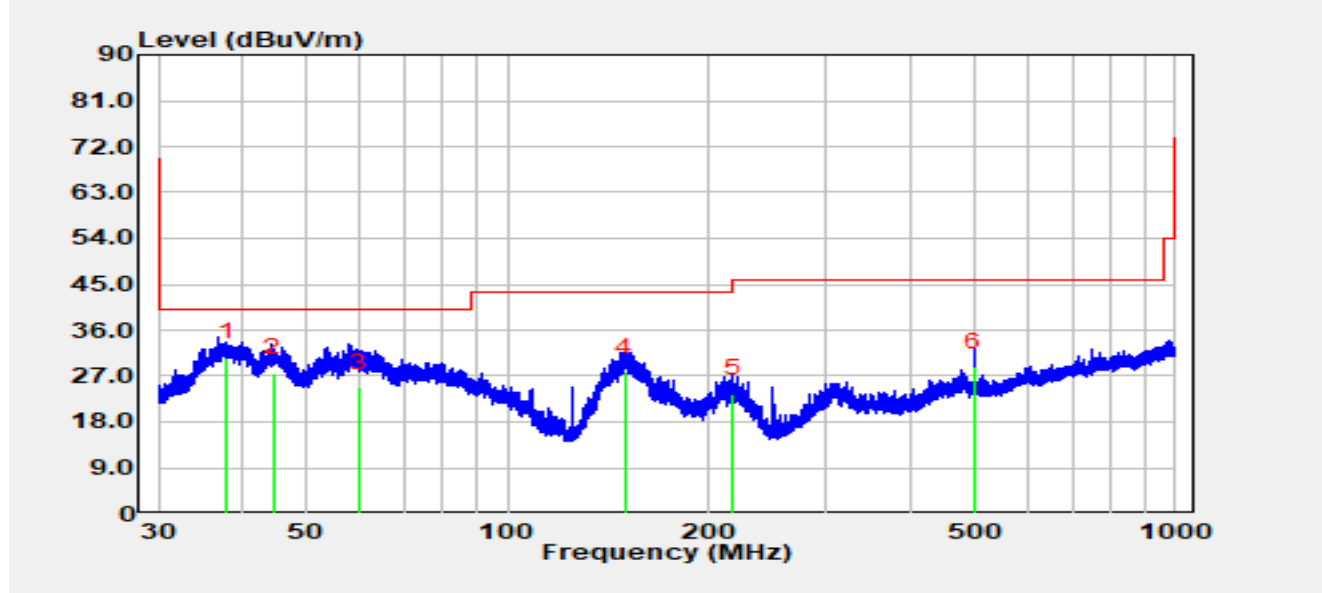


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		53.88	0.68	18.22	18.90	-21.10	40.00	QP
2		148.03	4.34	18.10	22.44	-21.06	43.50	QP
3		209.24	6.97	14.97	21.94	-21.56	43.50	QP
4		308.05	5.23	18.97	24.20	-21.80	46.00	QP
5	*	500.01	12.50	23.39	35.89	-10.11	46.00	QP
6		750.11	1.33	28.06	29.39	-16.61	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	2025-09-22
Temperature	25.2 °C	Humidity	57.4%
Limit	FCC_Part 15.209_RSE (3m)	Test Engineer	Lucas Wang
Test Voltage	AC 120 V/60 Hz	Polarity	Vertical
Test Mode	Transmit by VHT40 at 2437 MHz		



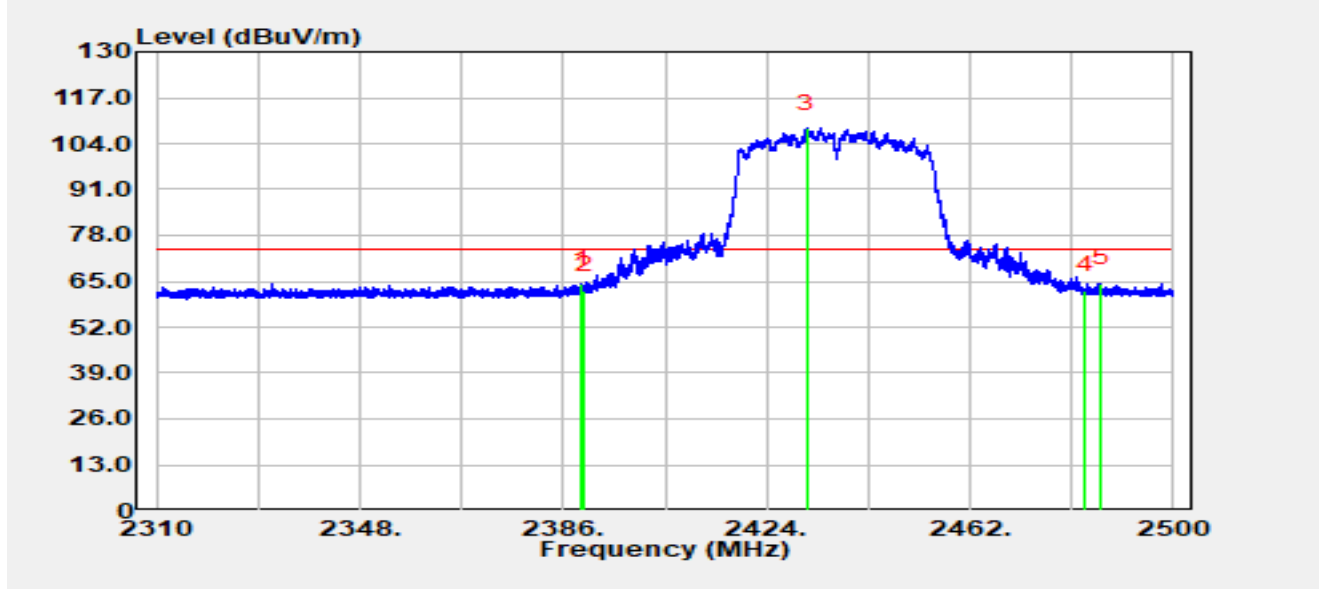
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	37.89	13.10	17.60	30.70	-9.30	40.00	QP
2		44.48	9.40	18.21	27.61	-12.39	40.00	QP
3		59.69	7.00	17.68	24.68	-15.32	40.00	QP
4		150.06	9.51	18.27	27.78	-15.72	43.50	QP
5		217.85	8.32	15.16	23.48	-22.52	46.00	QP
6		500.13	5.33	23.40	28.72	-17.28	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.3 Radiated Restricted Band Edge Test Result

Site	WZ-AC1	Test Date	2025-09-22
Temperature	25.8 °C	Humidity	46.7%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	AC 120 V/60 Hz	Polarity	Horizontal
Test Mode	Transmit by VHT40 at 2437 MHz		

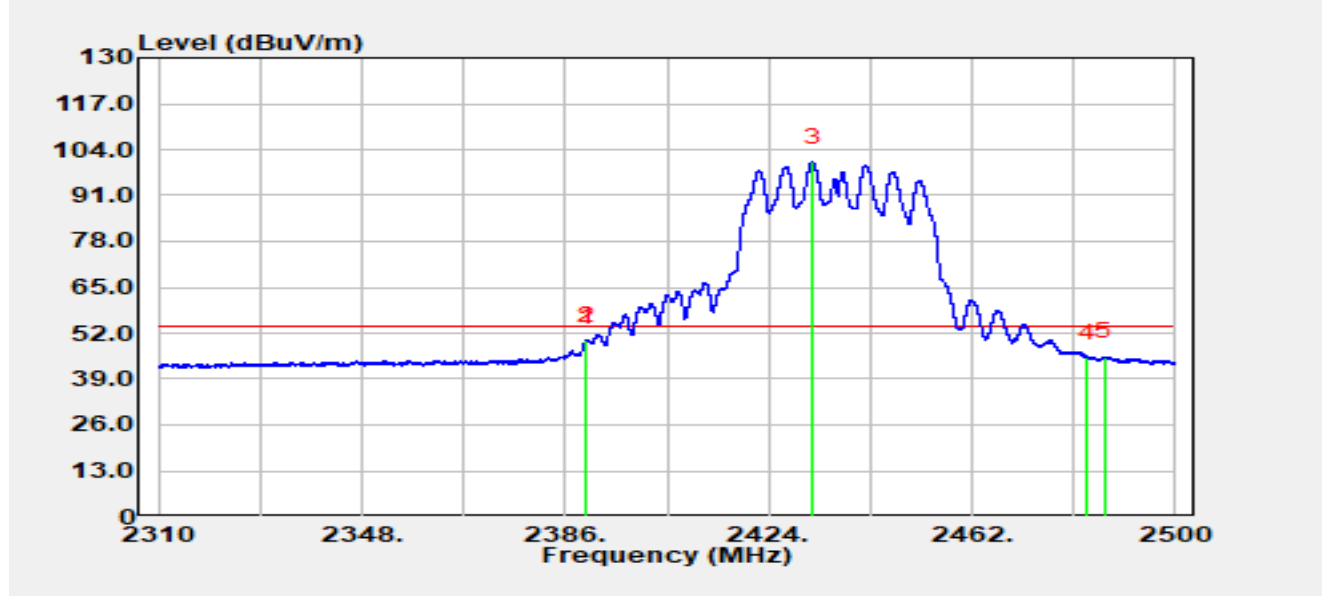


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2389.38	32.23	31.95	64.17	-9.83	74.00	Peak
2		2390.00	30.45	31.95	62.39	-11.61	74.00	Peak
3		2431.49	76.34	31.89	108.23	N/A	N/A	Peak
4		2483.50	30.53	31.81	62.34	-11.66	74.00	Peak
5	*	2486.49	32.64	31.82	64.46	-9.54	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	2025-09-22
Temperature	25.8 °C	Humidity	46.7%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	AC 120 V/60 Hz	Polarity	Horizontal
Test Mode	Transmit by VHT40 at 2437 MHz		

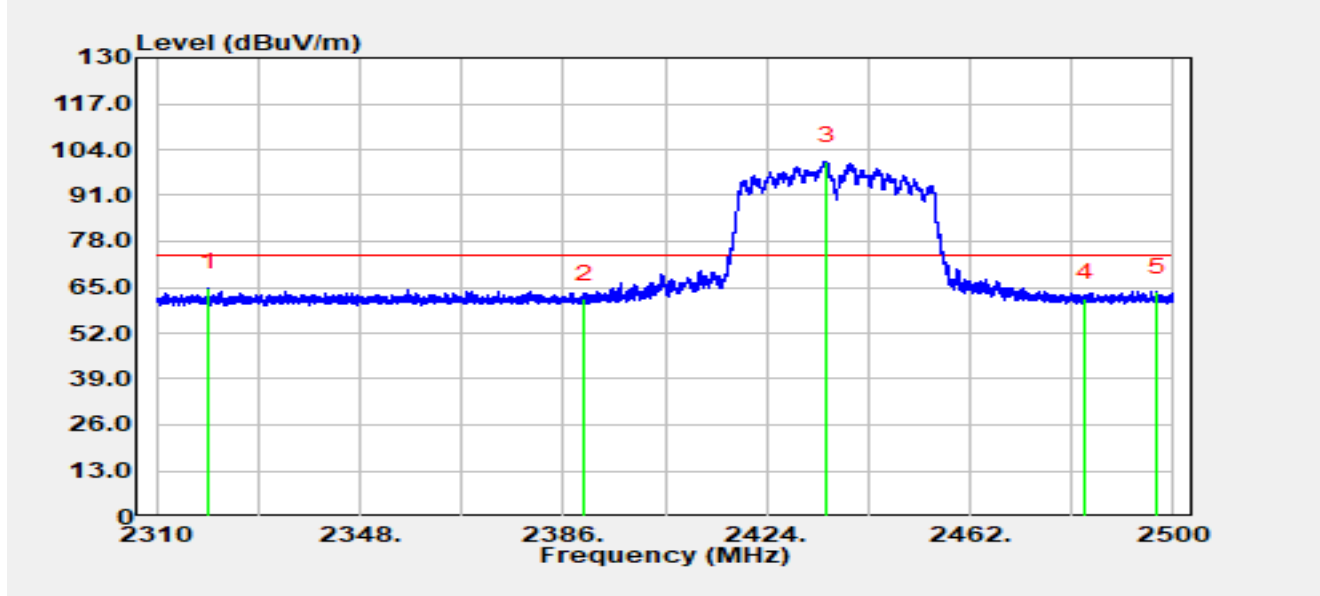


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2389.84	17.50	31.95	49.45	-4.55	54.00	Average
2	*	2390.00	17.95	31.95	49.90	-4.10	54.00	Average
3		2432.17	68.63	31.89	100.53	N/A	N/A	Average
4		2483.50	13.08	31.81	44.89	-9.11	54.00	Average
5		2486.66	13.40	31.82	45.22	-8.78	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	2025-09-22
Temperature	25.8 °C	Humidity	46.7%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	AC 120 V/60 Hz	Polarity	Vertical
Test Mode	Transmit by VHT40 at 2437 MHz		

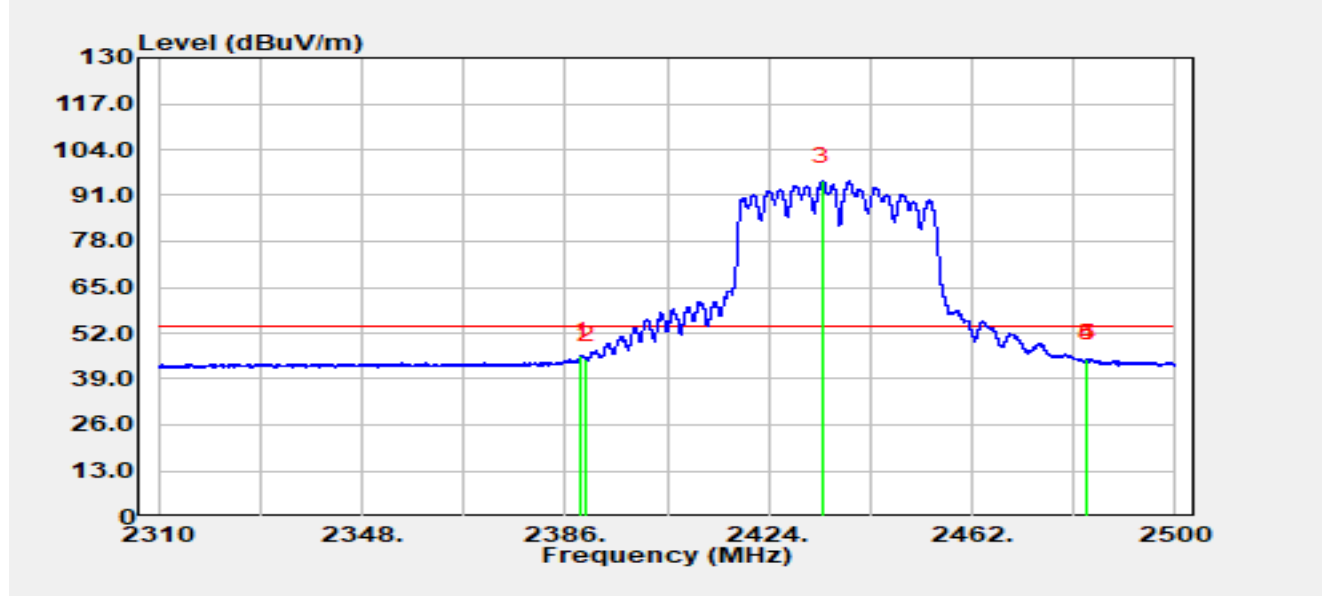


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2319.75	32.70	32.12	64.82	-9.18	74.00	Peak
2		2390.00	29.69	31.95	61.64	-12.36	74.00	Peak
3		2435.13	68.89	31.90	100.79	N/A	N/A	Peak
4		2483.50	30.03	31.81	61.84	-12.16	74.00	Peak
5		2497.00	31.84	31.83	63.67	-10.33	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	2025-09-22
Temperature	25.8 °C	Humidity	46.7%
Limit	FCC_2.4G_RE (3m)	Test Engineer	Jerry Lu
Test Voltage	AC 120 V/60 Hz	Polarity	Vertical
Test Mode	Transmit by VHT40 at 2437 MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2389.00	13.66	31.95	45.61	-8.39	54.00	Average
2		2390.00	12.48	31.95	44.42	-9.58	54.00	Average
3		2433.98	63.11	31.90	95.01	N/A	N/A	Average
4		2483.50	13.00	31.81	44.81	-9.19	54.00	Average
5		2483.51	13.00	31.81	44.81	-9.19	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).

Appendix B - Test Setup Photograph

Refer to "R25S1048098-UT" file.

Appendix C - EUT Photograph

Refer to "R25S1048098-UE" file.

_____ The End _____