



RF MEASUREMENT REPORT

FCC ID: Q9DAPIN0655A

Applicant: Hewlett Packard Enterprise Company

Product: ACCESS POINT

Model No.: APIN0655A

Trademark: 

FCC Classification: Unlicensed National Information Infrastructure (NII)

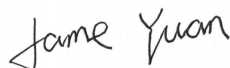
FCC Rule Part(s): Part 15 Subpart E (Section 15.407)

Result: Complies

Received Date: 2024-12-24

Test Date: 2025-01-14 ~ 2025-02-21

Reviewed By:



Jame Yuan

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 KDB789033 and KDB 291074. 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
2412RSU040-U6	V01	Initial Report	2025-04-01	Valid

Note 1: The APIN0655A is a variation on the existing APIN0655. The APIN0655 is currently FCC certified under FCC ID: Q9DAPIN0655.

The APIN0655A differs from the APIN0655 in the following ways:

Part substitution for 5G and 6G passive filter

Note 2: Some spot check was done and all other test data were referenced from the original report.

Test Description	Remark
26dB Bandwidth	Spot Check
6dB Bandwidth	Spot Check
Maximum Conducted Output Power	Full Test
Frequency Stability	Spot Check
Peak Power Spectral Density	Spot Check
Undesirable Emissions	Spot Check
General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Spot Check
AC Conducted Emissions 150kHz - 30MHz	Full Test

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1. General Information

1.1. Applicant

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

1.2. Manufacturer

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

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	ACCESS POINT
Model No.	APIN0655A
Serial No.	CNT0ML1024
Software Version	Spf11.4cs
Wi-Fi Specification	802.11a/b/g/n/ac/ax
Bluetooth Specification	v5.0 single mode, BLE only
Zigbee Specification	802.15.4
GNSS Specification	GPS, GLONASS, Galileo
Operating Temperature	0 ~ 50 °C
Antenna Information	Refer to Section 1.7
Power Type	AC Adapter or PoE input
Operating Environment	Indoor Use
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	For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5845MHz, 5865MHz, 5885MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5835MHz, 5875MHz For 802.11ac-VHT80/ax-HE80: 5855MHz For 802.11ac-VHT80+80/ax-HE80+80: 5775 + 5855MHz
Type of Modulation	802.11a/n/ac: OFDM 802.11ax: OFDMA
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 600Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 2402Mbps

Note: For other features of this EUT, test report will be issued separately.

1.6. Working Frequencies

802.11a/n-HT20/ac-VHT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
169	5845 MHz	173	5865 MHz	177	5885 MHz

802.11n-HT40/ac-VHT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
167	5835 MHz	175	5875 MHz	--	--

802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
171	5855 MHz	--	--	--	--

802.11ac-VHT80+80/ax-HE80+80

Channel	Frequency	Channel	Frequency	Channel	Frequency
155 + 171	5775 + 5855 MHz	--	--	--	--

1.7. Antenna Details

Antenna Type	Frequency Band (GHz)	Max Peak Gain (dBi)	CDD Directional Gain (dBi)		BF Directional Gain (dBi)
			For Power	For PSD	
Wi-Fi Internal Antenna (4*4 MIMO)					
PIFA	2.4 ~ 2.5	3.26	3.26	6.23	6.23
	5.15 ~ 5.9	2.88	2.88	5.60	5.60
	5.9 ~ 7.2	3.97	3.97	6.97	6.97
Bluetooth / ZigBee Internal Antenna					
PIFA	2.4 ~ 2.5	3.60			

Note:

1. The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.
2. The EUT also supports Beam Forming mode, and the Beam Forming support 802.11n/ac/ax, not include 802.11a/b/g.
3. For beamforming operation, Aruba OS automatically backs power down based on a $10\log(N)$ factor based on CDD power.
4. All Wi-Fi antennas have cross polarized design, the detail information and calculation method refer to

2. Test Configuration

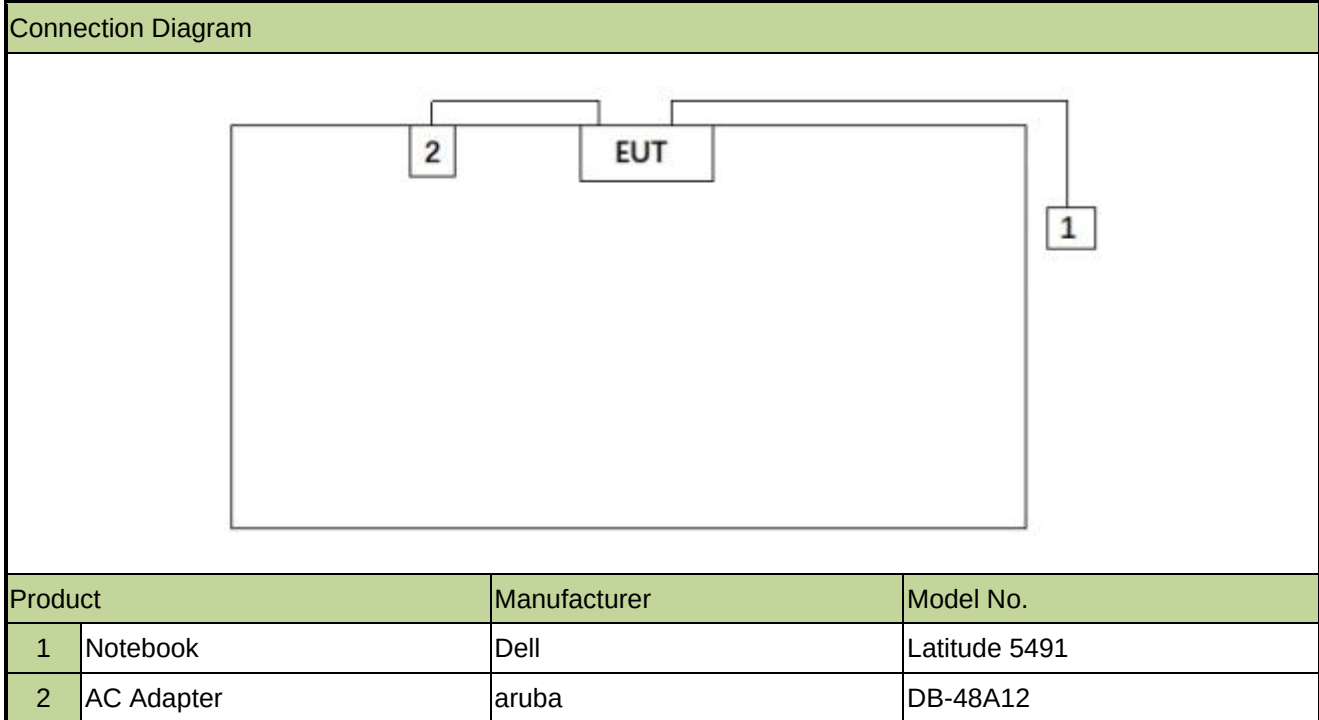
2.1. Test Mode

Mode 1: Transmit by 802.11a (6Mbps)
Mode 2: Transmit by 802.11ac-VHT20 (MCS0)
Mode 3: Transmit by 802.11ac-VHT40 (MCS0)
Mode 4: Transmit by 802.11ac-VHT80 (MCS0)
Mode 5: Transmit by 802.11ac-VHT80+80 (MCS0)
Mode 6: Transmit by 802.11ax-HE20 (MCS0)
Mode 7: Transmit by 802.11ax-HE40 (MCS0)
Mode 8: Transmit by 802.11ax-HE80 (MCS0)
Mode 9: Transmit by 802.11ax-HE80+80 (MCS0)

Note: 802.11n and 802.11ac have same modulation type and same power parameter, so we only show 802.11ac test data in report.

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.



2.3. Test Software

The test utility software used during testing was “QRCT”, and the version was “4.0”.

Note: Detail power setting refers to operation 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 15.407
- KDB 789033 D02v02r01
- KDB 291074 D02v01
- KDB 662911 D01v02r01
- ANSI C63.10-2013

2.5. Test Environment Condition

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

3. Antenna Requirements

KDB 291074 DR01: An Indoor Access point in the U-NII-4 band (5.850-5.895 GHz) and U-NII -3 & -4 span channels must use an integrated antenna

- The antenna of the device is built in and locked inside the enclosure.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
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
Signal Analyzer	Keysight	N9010B	MRTSUE06558	1 year	2025-05-20	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11090	1 year	2025-06-05	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2025-05-08	WZ-SR5
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2025-04-17	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2025-05-08	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2025-09-23	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2025-05-06	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2025-04-18	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2025-11-03	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2026-01-09	WZ-AC2
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2025-05-08	WZ-SR2
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	5 years	2026-12-20	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2025-05-12	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2025-09-05	WZ-SR2
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2025-09-02	WZ-TR3
Signal Analyzer	Keysight	N9010B	MRTSUE07027	1 year	2025-10-13	WZ-TR3
Thermohygrometer	testo	608-H1	MRTSUE11268	1 year	2025-12-10	WZ-TR3

Software	Version	Function
e3	230711	EMI Test Software
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 $k = 2$.

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: 2.61dB Coplanar: 9kHz~30MHz: 2.62dB Horizontal: 30MHz~200MHz: 3.79dB 200MHz~1GHz: 3.91dB 1GHz~40GHz: 4.99dB Vertical: 30MHz~200MHz: 4.06dB 200MHz~1GHz: 5.21dB 1GHz~40GHz: 4.90dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.2dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 1.4dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.2dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.7%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.407(a)	26dB Bandwidth	Conducted	Pass
15.407(e)	6dB Bandwidth		Pass
15.407(a)(3)(ii)	Maximum Conducted Output Power		Pass
15.407(a)(3)(ii)	Peak Power Spectral Density		Pass
15.407(b)(5)	Undesirable Emissions	Radiated	Pass
15.205, 15.209 15.407 (b)(8), (9), (10)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)		Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Notes:

- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer.
The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
- Output Power” was retest and the power is lower than original model APIN0655, so spot check for other items were performed and the test data were referenced from the original report.

6.2. 26dB & 99% Bandwidth Measurement

6.2.1. Test Limit

N/A

6.2.2. Test Procedure

KDB 789033 D02v02r01- Section C.1 (26dB Bandwidth)

KDB 789033 D02v02r01- Section D (99% Bandwidth)

6.2.3. Test Setting

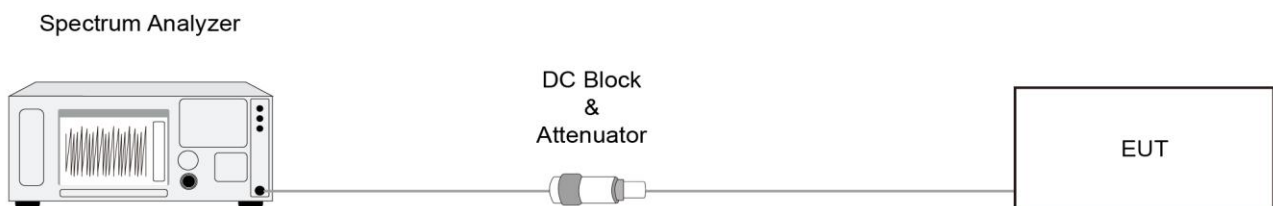
26dB Bandwidth

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth.
3. VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold.

99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1% to 5% of the OBW
4. Set VBW $\geq 3 \times$ RBW
5. Detector = Peak.
6. Use the 99% power bandwidth function of the instrument.

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. 6dB Bandwidth Measurement

6.3.1. Test Limit

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

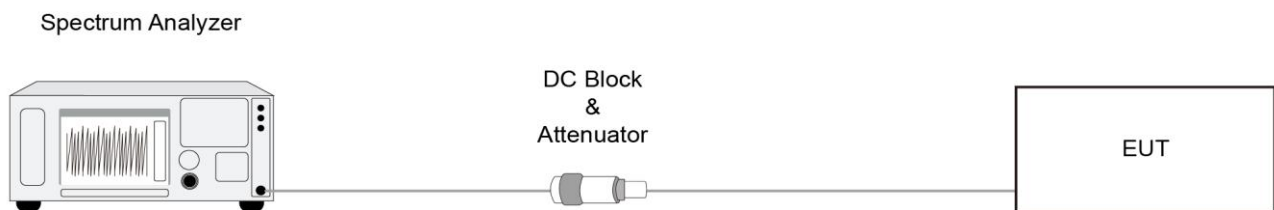
6.3.2. Test Procedure

KDB 789033 D02v02r01- Section C.2

6.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. 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.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Output Power Measurement

6.4.1. Test Limit

For an indoor access point operating in the 5.850-5.895 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. Indoor access points operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 36 dBm.

6.4.2. Test Procedure

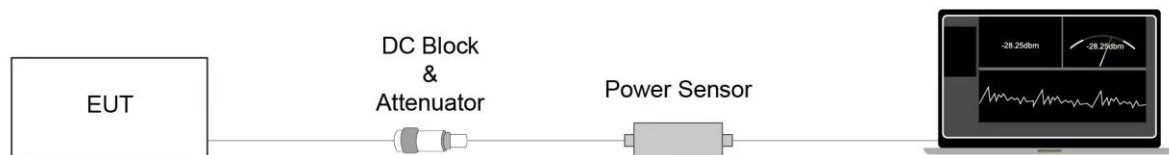
KDB 789033D02v02r01- Section E)3)b) Method PM-G

6.4.3. 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.

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. Power Spectral Density Measurement

6.5.1. Test Limit

For an indoor access point operating in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1-megahertz band.

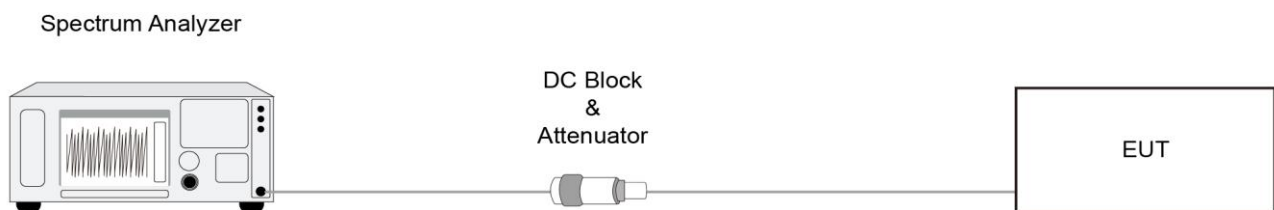
6.5.2. Test Procedure

KDB 789033 D02v02r01-SectionF

6.5.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz
4. VBW = $3 \times \text{RBW}$
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add $10 \cdot \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \cdot \log(1/0.25) = 6 \text{ dB}$ if the duty cycle is 25 percent.

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Frequency Stability Measurement

6.6.1. Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

6.6.2. Test Procedure

Frequency Stability Under Temperature Variations:

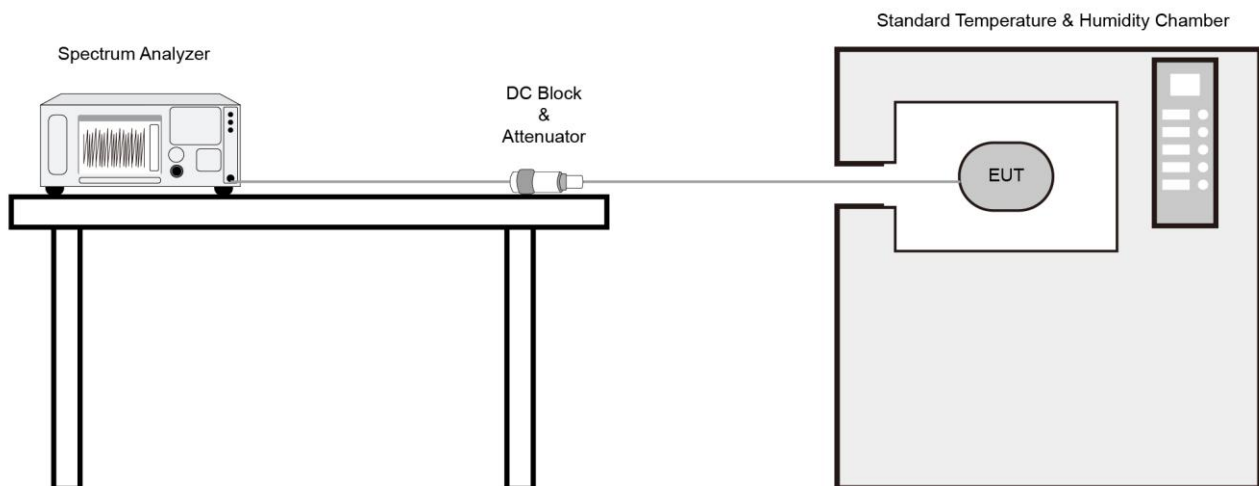
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

6.6.3. Test Setup



6.6.4. Test Result

Refer to Appendix A.6.

6.7. Radiated Spurious Emission Measurement

6.7.1. 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 [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

KDB 789033 D02v02r01- Section II)G).

6.7.3. 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 = 10 Hz.

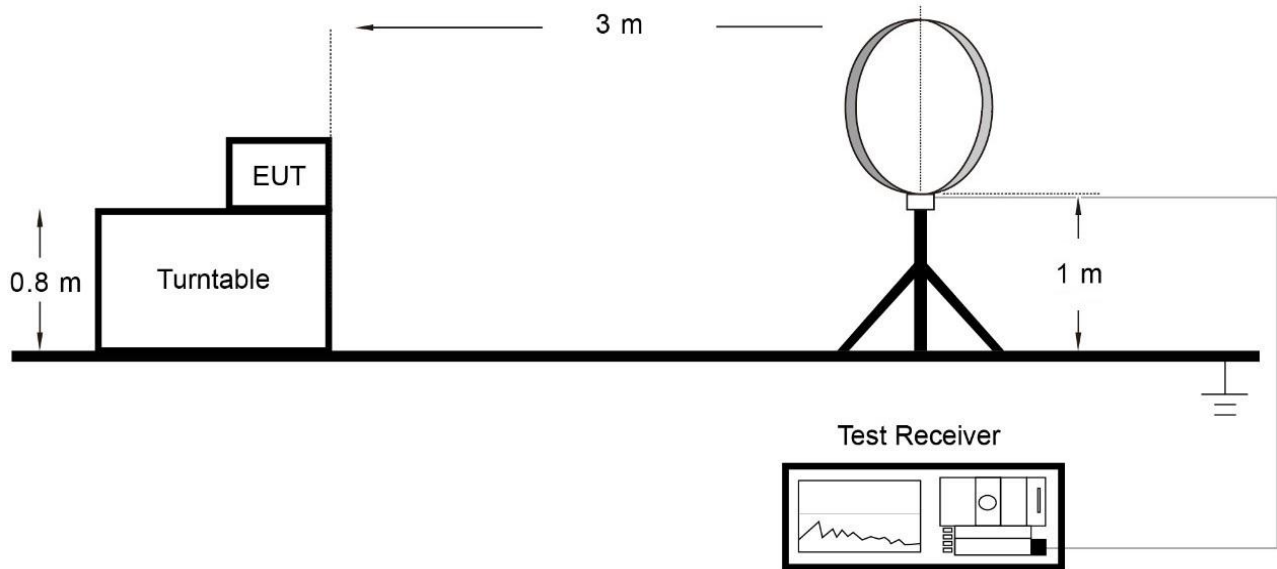
If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.

802.11a	VBW = 510Hz	802.11ax-HE20	VBW = 180Hz
802.11ac-VHT20	VBW = 180Hz	802.11ax-HE40	VBW = 180Hz
802.11ac-VHT40	VBW = 180Hz	802.11ax-HE80	VBW = 180Hz
802.11ac-VHT80	VBW = 180Hz		

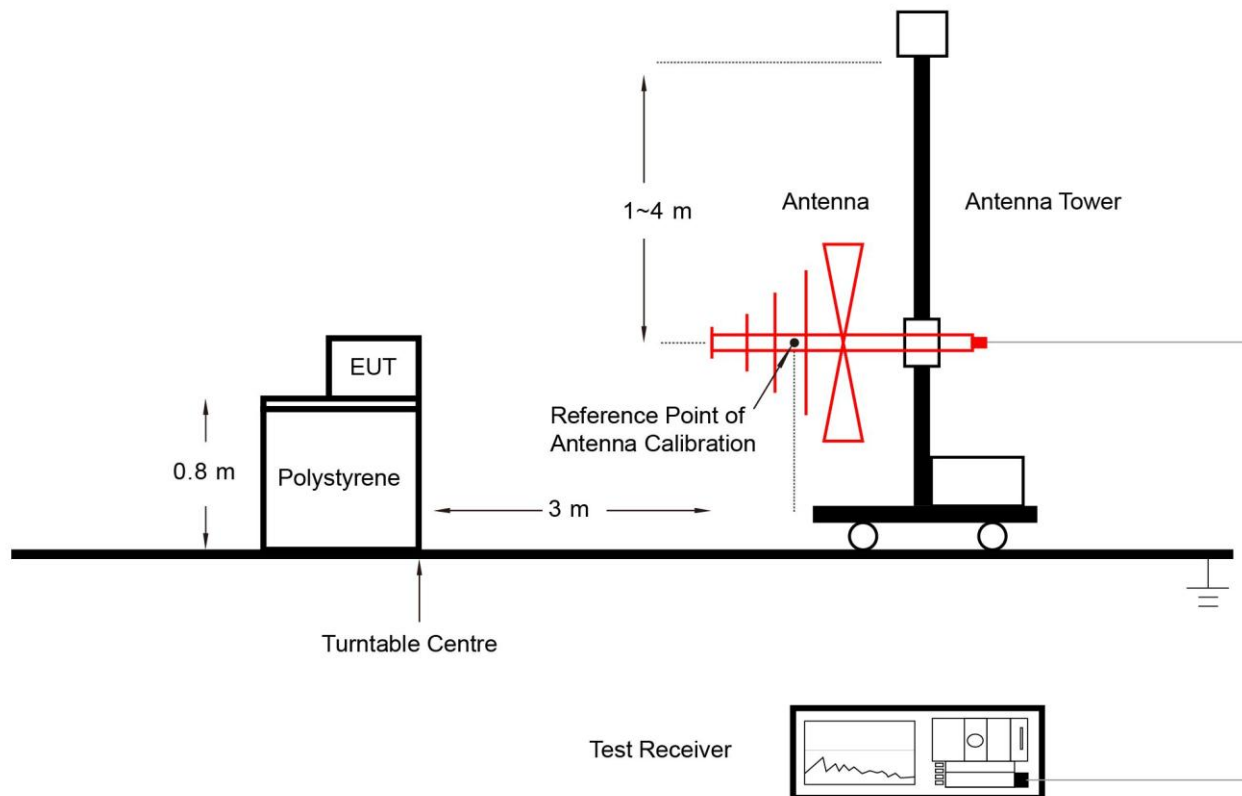
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.7.4. Test Setup

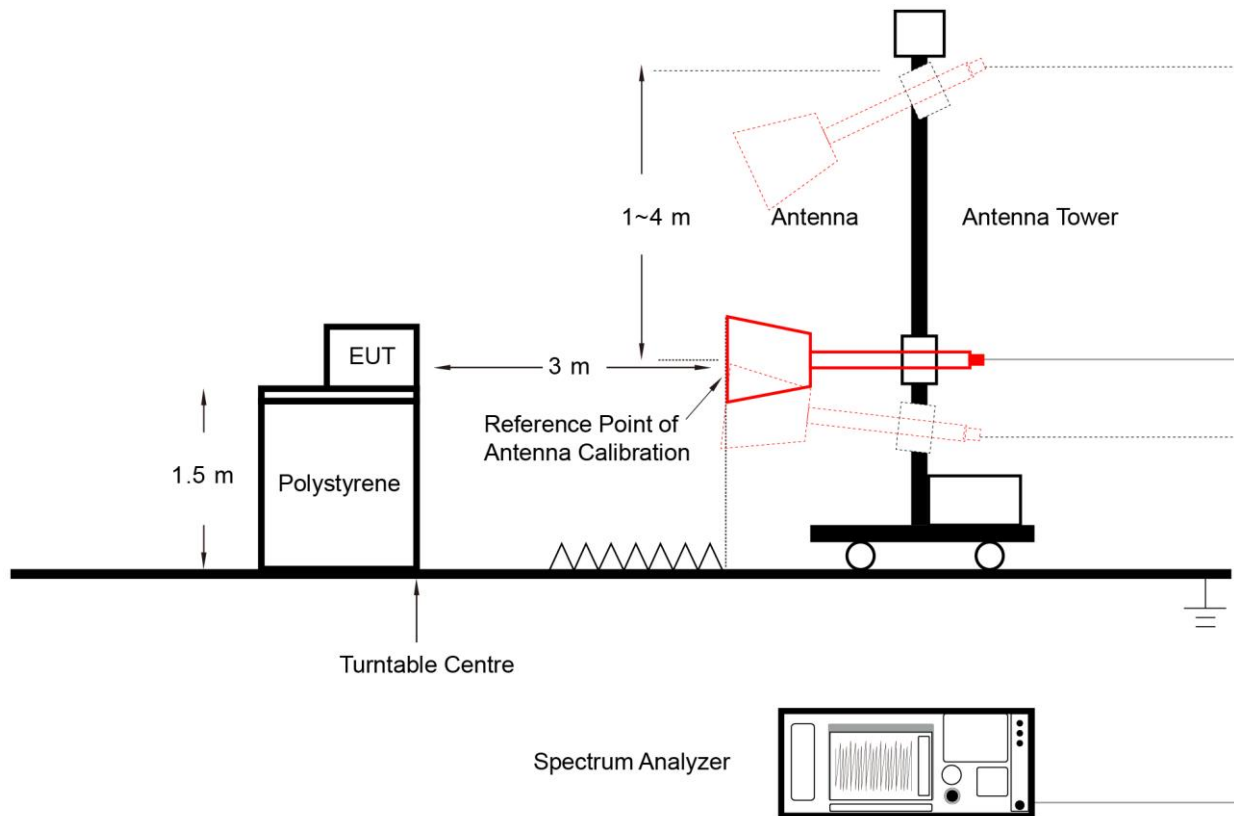
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.7.5. Test Result

Refer to Appendix A.7.

6.8. Radiated Restricted Band Edge Measurement

6.8.1. 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	--	--	--

For 15.407(b) requirement:

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

For an indoor access point, all emissions at or above 5.895GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925GHz.

For indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

$E \text{ [dB}\mu\text{V/m]} = \text{EIRP [dBm]} + 95.2$, for example, -27 dBm/MHz = 68.2 dB μ V/m

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

6.8.2. Test Procedure

KDB 789033 D02v02r01- Section II)G)

6.8.3. Test Setting

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

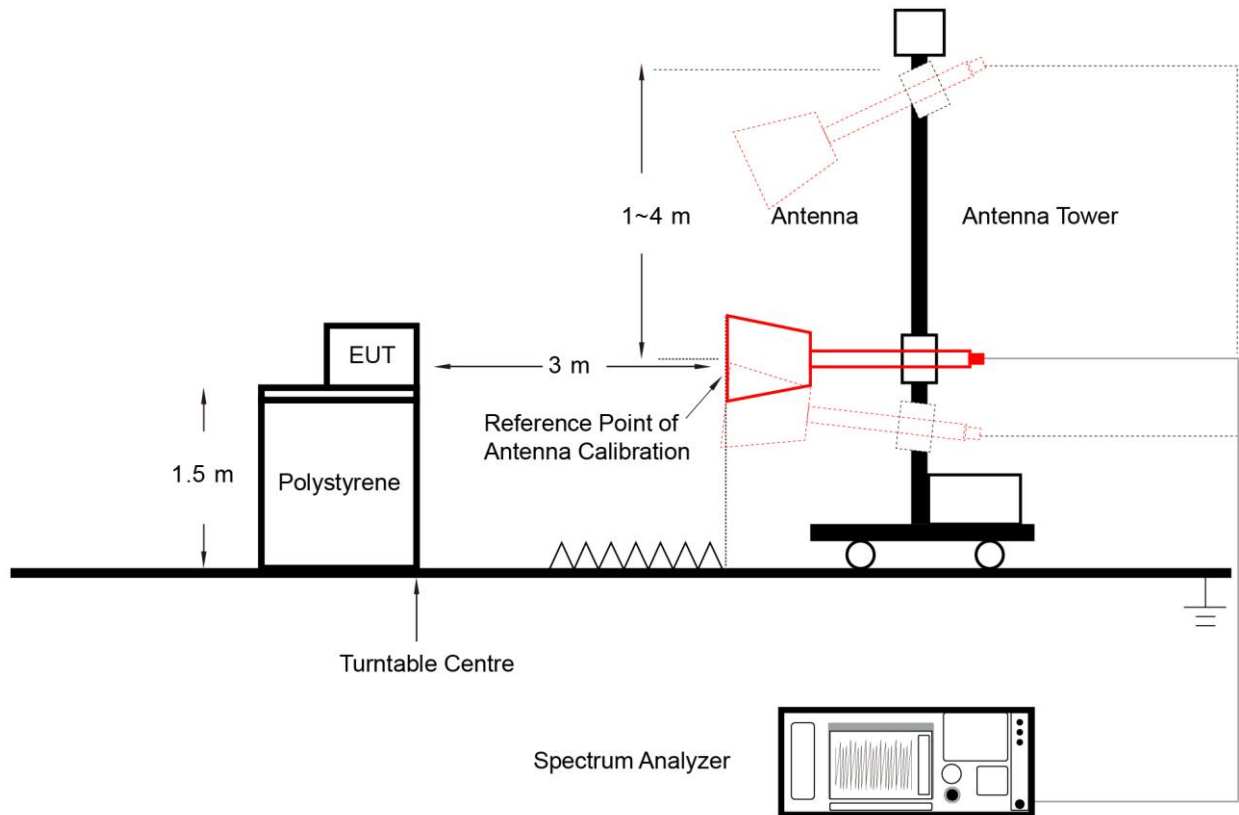
Average Measurements above 1GHz (Method VB)

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

802.11a	VBW = 510Hz	802.11ax-HE20	VBW = 180Hz
802.11ac-VHT20	VBW = 180Hz	802.11ax-HE40	VBW = 180Hz
802.11ac-VHT40	VBW = 180Hz	802.11ax-HE80	VBW = 180Hz
802.11ac-VHT80	VBW = 180Hz		

5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.8.4. Test Setup



6.8.5. Test Result

Refer to Appendix A.8.

6.9. AC Conducted Emissions Measurement

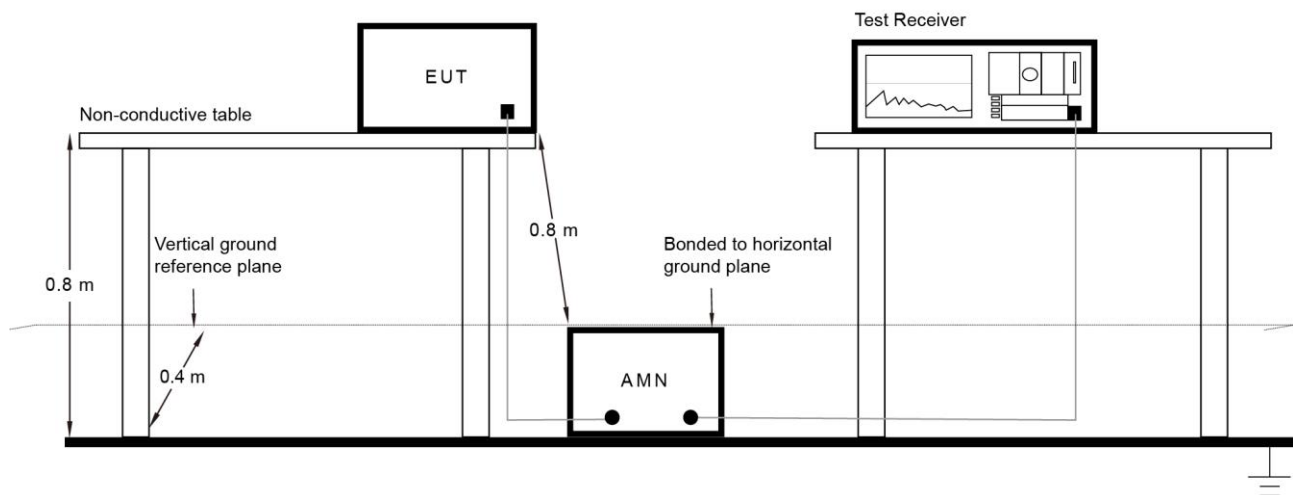
6.9.1. Test Limit

FCC Part 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.

6.9.2. Test Setup



6.9.3. Test Result

Refer to Appendix A.9.

Appendix A – Test Result

A.1 Duty Cycle Test Result

Refer to MRT original report “2109RSU026-U1” clause A.1

A.2 26dB & 99% Bandwidth Test Result

Refer to MRT original report “2109RSU026-U1” clause A.2

Spot Check Test Data:

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-01-14		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
11ax-HE80+80	MCS0	155+171	5775+5855	155.70	163.3



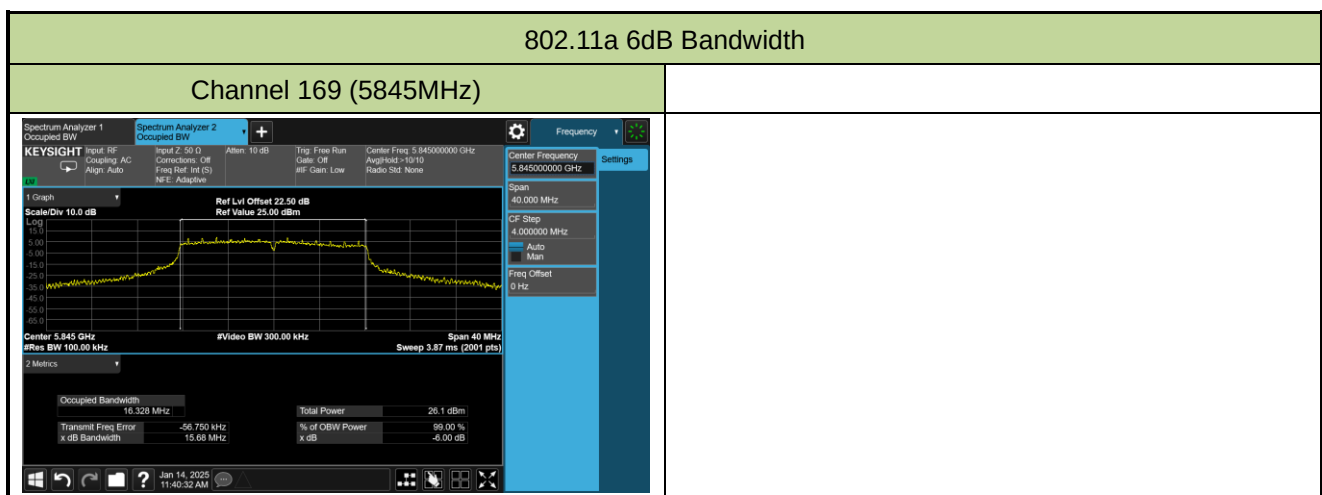
A.3 6dB Bandwidth Test Result

Refer to MRT original report “2109RSU026-U1” clause A.3

Spot Check Test Data:

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-01-14		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11a	6Mbps	169	5845	15.68	≥ 0.5



A.4 Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-02-10		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3				
11a	6Mbps	169	5845	17.53	17.85	17.37	17.62	23.62	2.88	26.50	≤ 36.00
11a	6Mbps	173	5865	18.12	18.15	17.78	18.21	24.09	2.88	26.97	≤ 36.00
11a	6Mbps	177	5885	17.45	17.32	17.04	17.44	23.34	2.88	26.22	≤ 36.00
11ac-VHT20	MCS0	169	5845	18.17	18.55	18.65	18.77	24.56	2.88	27.44	≤ 36.00
11ac-VHT20	MCS0	173	5865	17.39	18.05	17.80	18.22	23.90	2.88	26.78	≤ 36.00
11ac-VHT20	MCS0	177	5885	17.95	17.97	17.83	17.74	23.89	2.88	26.77	≤ 36.00
11ac-VHT40	MCS0	167	5835	18.05	18.26	17.78	18.18	24.09	2.88	26.97	≤ 36.00
11ac-VHT40	MCS0	175	5875	18.02	18.15	17.67	18.18	24.03	2.88	26.91	≤ 36.00
11ac-VHT80	MCS0	171	5855	18.37	18.51	17.94	18.43	24.34	2.88	27.22	≤ 36.00
11ax-HE20	MCS0	169	5845	18.20	18.35	18.23	18.21	24.27	2.88	27.15	≤ 36.00
11ax-HE20	MCS0	173	5865	18.28	18.11	18.15	18.36	24.25	2.88	27.13	≤ 36.00
11ax-HE20	MCS0	177	5885	17.98	17.82	17.94	18.29	24.03	2.88	26.91	≤ 36.00
11ax-HE40	MCS0	167	5835	18.28	18.29	17.81	18.15	24.16	2.88	27.04	≤ 36.00
11ax-HE40	MCS0	175	5875	18.27	18.28	17.88	18.32	24.21	2.88	27.09	≤ 36.00
11ax-HE80	MCS0	171	5855	18.63	18.64	18.08	18.41	24.47	2.88	27.35	≤ 36.00

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

Note 2: EIRP Power (dBm) = Total Average Power (dBm) + Antenna Gain (dBi).

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Total Average Power Limit (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3					
11ac-VHT80 +80	MCS0	155	5775	18.32	18.27	--	--	21.31	≤ 30.00	--	--	--
		171	5855	--	--	17.22	17.51	20.38	--	2.88	23.26	≤ 36.00
11ax-HE80 +80	MCS0	155	5775	18.25	18.54	--	--	21.41	≤ 30.00	--	--	--
		171	5855	--	--	17.59	17.93	20.77	--	2.88	23.65	≤ 36.00

Note 1: For Ant 0 & Ant 1, Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$.

For Ant 2 & Ant 3, Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$.

Note 2: EIRP Power (dBm) = Total Average Power (dBm) + Antenna Gain (dBi).

A.5 Power Spectral Density Test Result

Refer to MRT original report “2109RSU026-U1” clause A.5

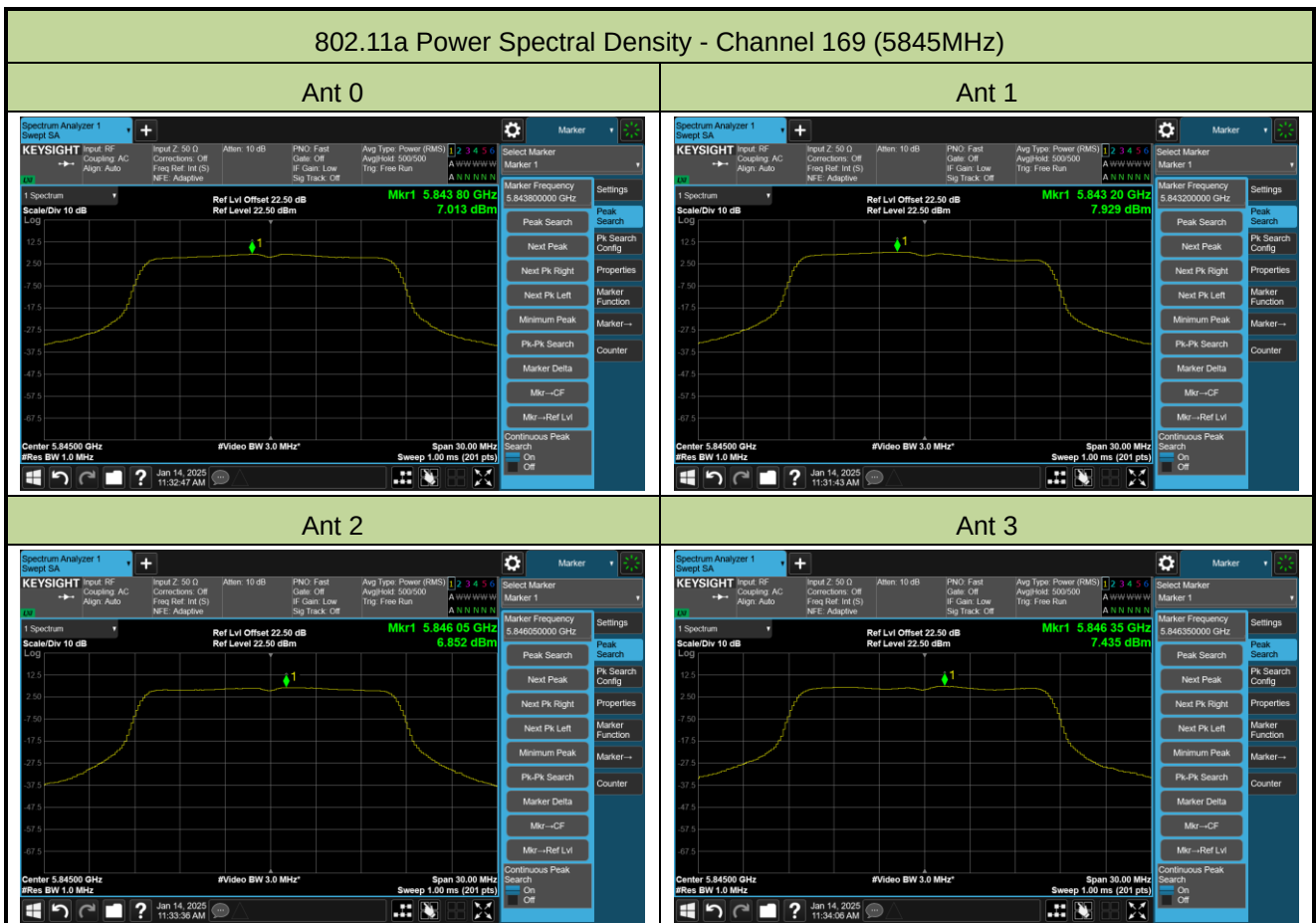
Spot Check Test Data:

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-01-14		

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/MHz)				Duty Cycle (%)	Total PSD (dBm/ MHz)	EIRP PSD (dBm/ MHz)	EIRP PSD Limit(dBm/MHz)
				Ant 0	Ant 1	Ant 2	Ant 3				
11a	6Mbps	169	5845	7.013	7.929	6.852	7.435	95.04	13.569	19.169	≤ 20.00

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)}\} + 10 \cdot \log (1/\text{Duty cycle})$.

Note 2: EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Directional Antenna Gain for PSD (dBi).



A.6 Frequency Stability Test Result

Refer to MRT original report "2109RSU026-U1" clause A.6

Spot Check Test Data:

Test Site	WZ-TR3	Test Engineer	Lynn Yang
Test Date	2025-01-23		
Test Mode	5845MHz (Carrier Mode)		

Voltage (%)	Power (VAC)	Temp (°C)	Frequency Tolerance (ppm)			
			0 minutes	2 minutes	5 minutes	10 minutes
100	120	+ 30	-2.88	-3.34	-3.37	-3.40

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10⁶.

A.7 Radiated Spurious Emission Test Result

Refer to MRT original report "2109RSU026-U1" clause A.7

Spot Check Test Data:

Test Site	WZ-AC2	Test Engineer	Dick Shen
Test Date	2025-01-24	Test Mode	802.11ax-HE80+80 – Channel 155+171
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.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
*	9739.700	34.2	12.6	46.8	108.2	-61.4	Peak	Horizontal
	11744.000	31.7	16.5	48.2	74.0	-25.8	Peak	Horizontal
*	14448.700	30.7	19.0	49.7	108.2	-58.5	Peak	Horizontal
	17911.600	18.1	28.0	46.1	54.0	-7.9	Average	Horizontal
	17911.600	31.1	28.0	59.1	74.0	-14.9	Peak	Horizontal
*	10526.800	32.6	14.4	47.0	108.2	-61.2	Peak	Vertical
	11489.000	30.2	16.7	46.9	74.0	-27.1	Peak	Vertical
*	14142.700	30.6	19.0	49.6	108.2	-58.6	Peak	Vertical
	17865.700	18.2	27.4	45.6	54.0	-8.4	Average	Vertical
	17865.700	31.0	27.4	58.4	74.0	-15.6	Peak	Vertical

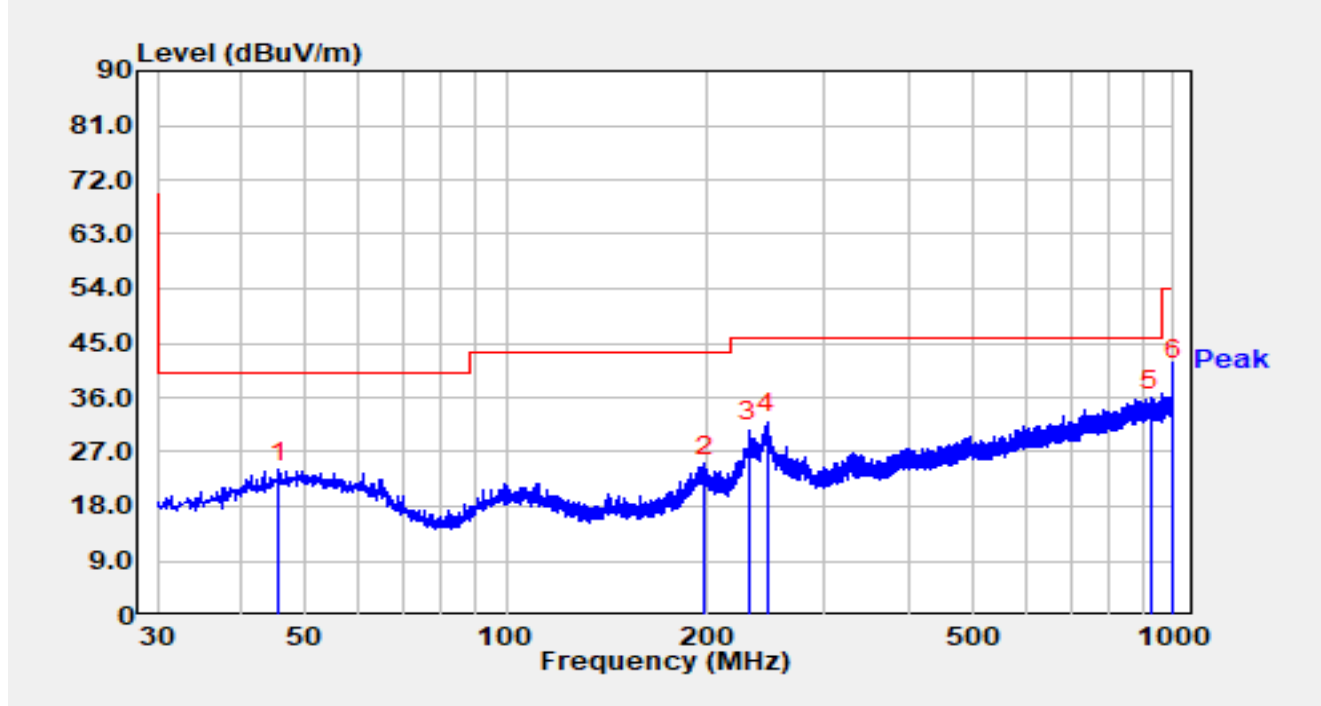
Note 1: "*" is not in restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

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

The Result of Radiated Emission below 1GHz:

Site	WZ-AC2	Test Date	2025-01-24
Temperature	17.4 °C	Humidity	30.1 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Ajin Fan
Factor	VULB 9162_00047	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT20 at 5845MHz		

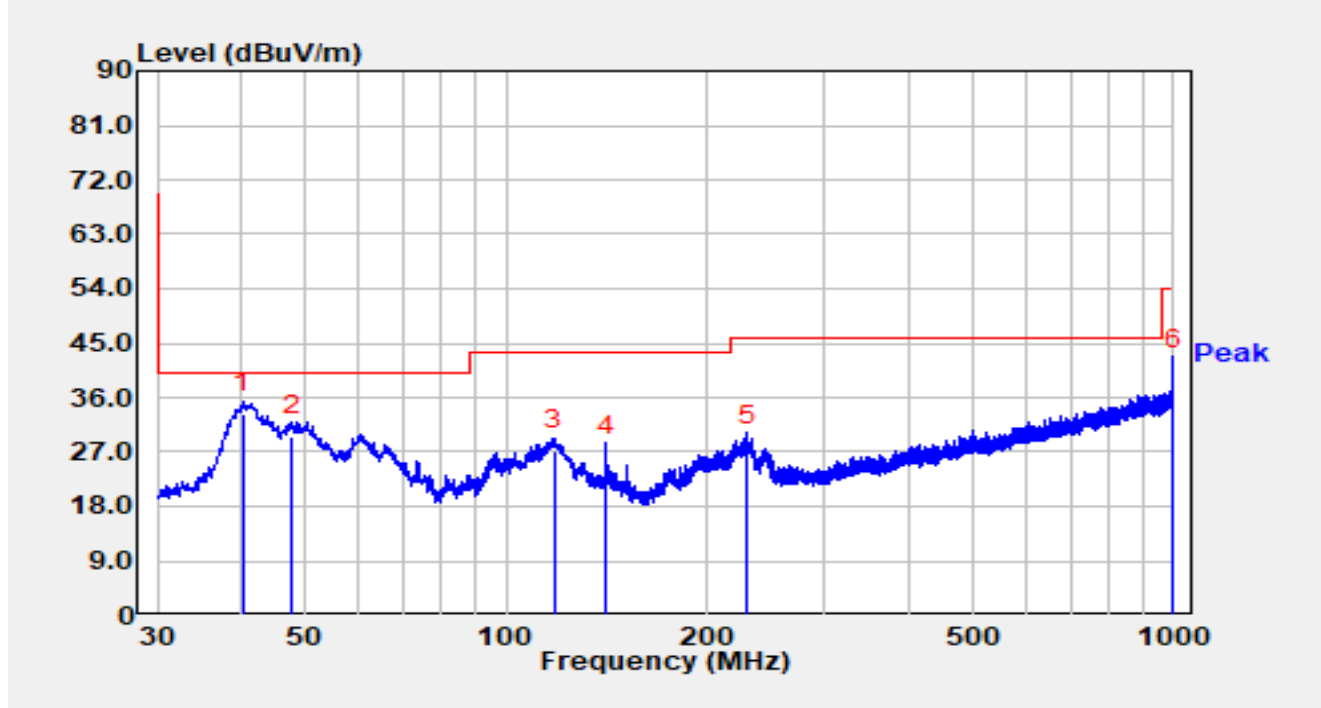


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		45.520	1.75	20.32	22.07	-17.93	40.00	QP
2		198.392	4.11	18.90	23.01	-20.49	43.50	QP
3		230.984	9.45	19.39	28.84	-17.16	46.00	QP
4		245.728	10.10	19.84	29.94	-16.06	46.00	QP
5	*	922.982	2.21	31.63	33.84	-12.16	46.00	QP
6		999.990	6.46	32.42	38.88	-15.12	54.00	QP

Notes:

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

Site	WZ-AC2	Test Date	2025-01-24
Temperature	17.4 °C	Humidity	30.1 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Ajin Fan
Factor	VULB 9162_00047	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT20 at 5845MHz		



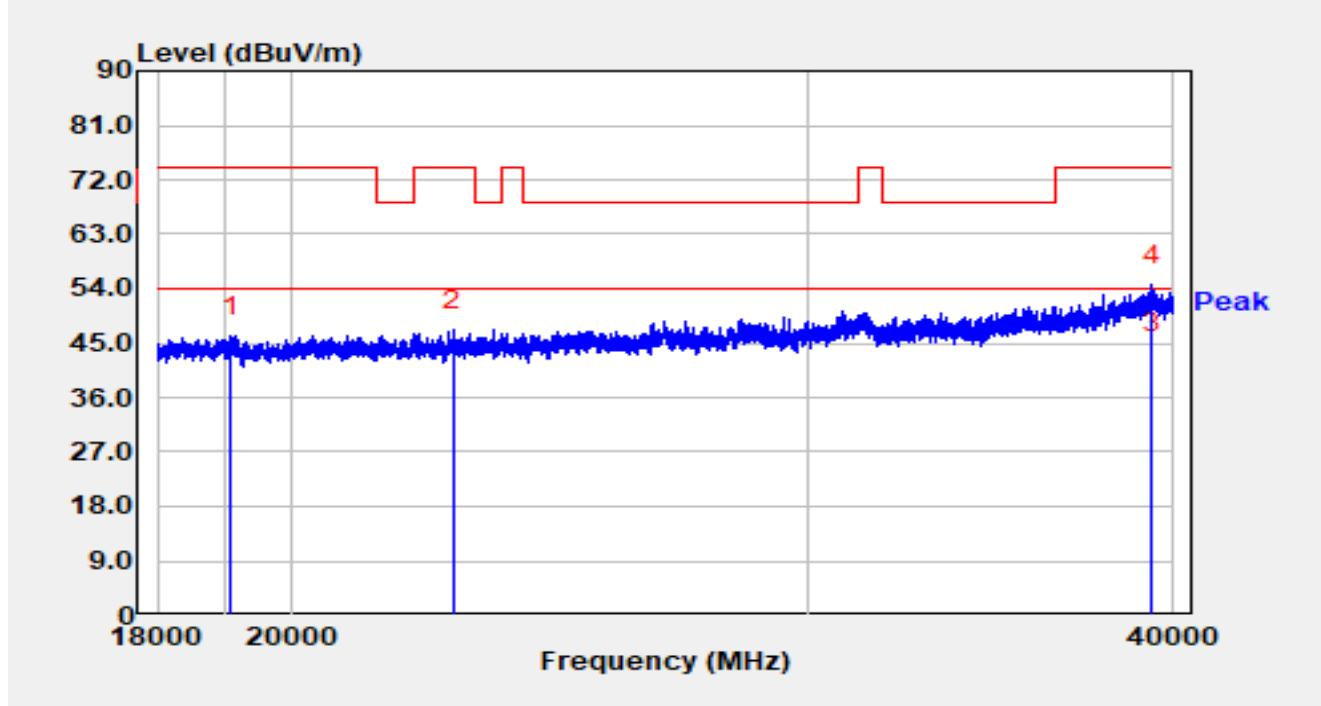
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	40.379	14.05	19.33	33.38	-6.62	40.00	QP
2		47.751	9.25	20.44	29.69	-10.31	40.00	QP
3		118.173	10.15	17.12	27.27	-16.23	43.50	QP
4		141.259	11.21	15.24	26.45	-17.05	43.50	QP
5		230.014	8.60	19.35	27.95	-18.05	46.00	QP
6		999.990	8.14	32.42	40.56	-13.44	54.00	QP

Notes:

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

The Result of Radiated Emission above 18GHz:

Site	WZ-AC2	Test Date	2025-02-08
Temperature	21.2 °C	Humidity	30.3 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Dick Shen
Factor	BBHA 9170_00549	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT20 at 5845MHz		

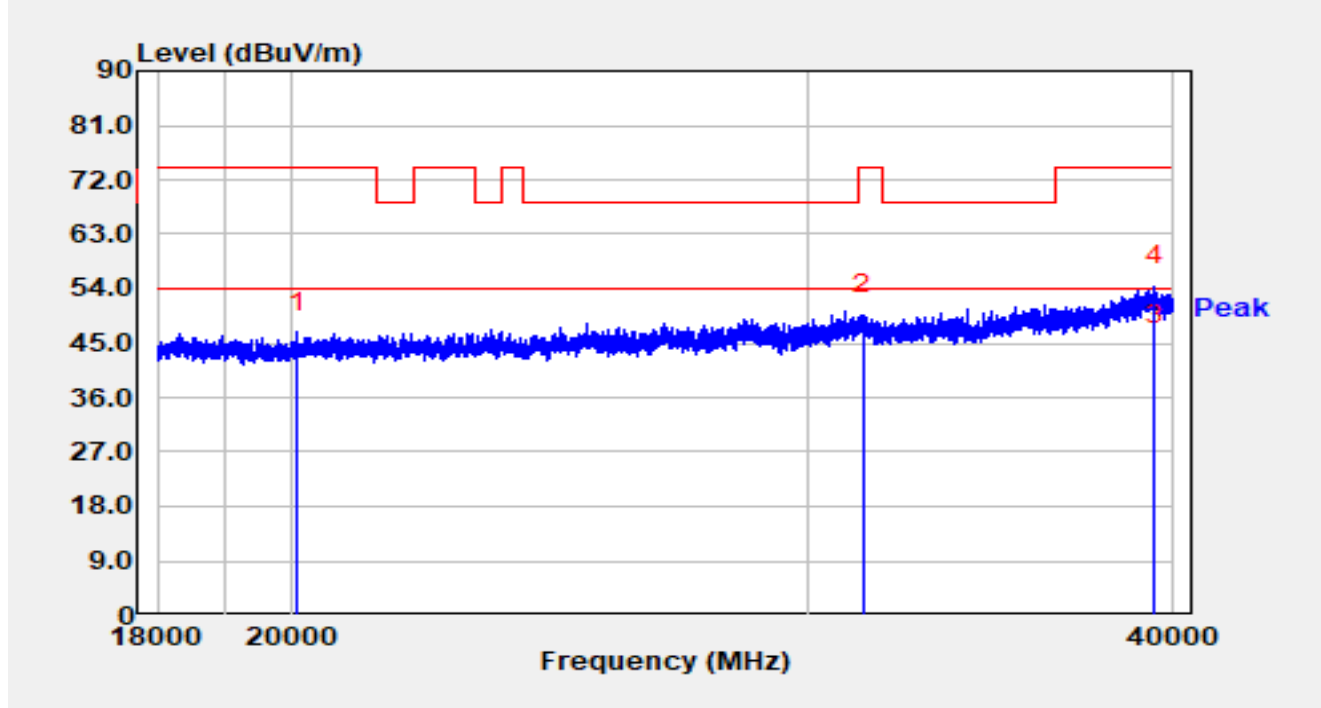


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		19069.200	55.46	-9.34	46.12	-27.88	74.00	Peak
2		22710.200	52.82	-5.70	47.12	-26.88	74.00	Peak
3	*	39337.800	42.61	0.79	43.41	-10.59	54.00	Average
4		39337.800	53.73	0.79	54.52	-19.48	74.00	Peak

Notes:

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

Site	WZ-AC2	Test Date	2025-02-08
Temperature	21.2 °C	Humidity	30.3 %
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Dick Shen
Factor	BBHA 9170_00549	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT20 at 5845MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		20103.200	55.36	-8.61	46.74	-27.26	74.00	Peak
2		31347.400	53.63	-4.04	49.59	-24.41	74.00	Peak
3	*	39399.400	44.26	0.45	44.70	-9.30	54.00	Average
4		39399.400	54.03	0.45	54.47	-19.53	74.00	Peak

Notes:

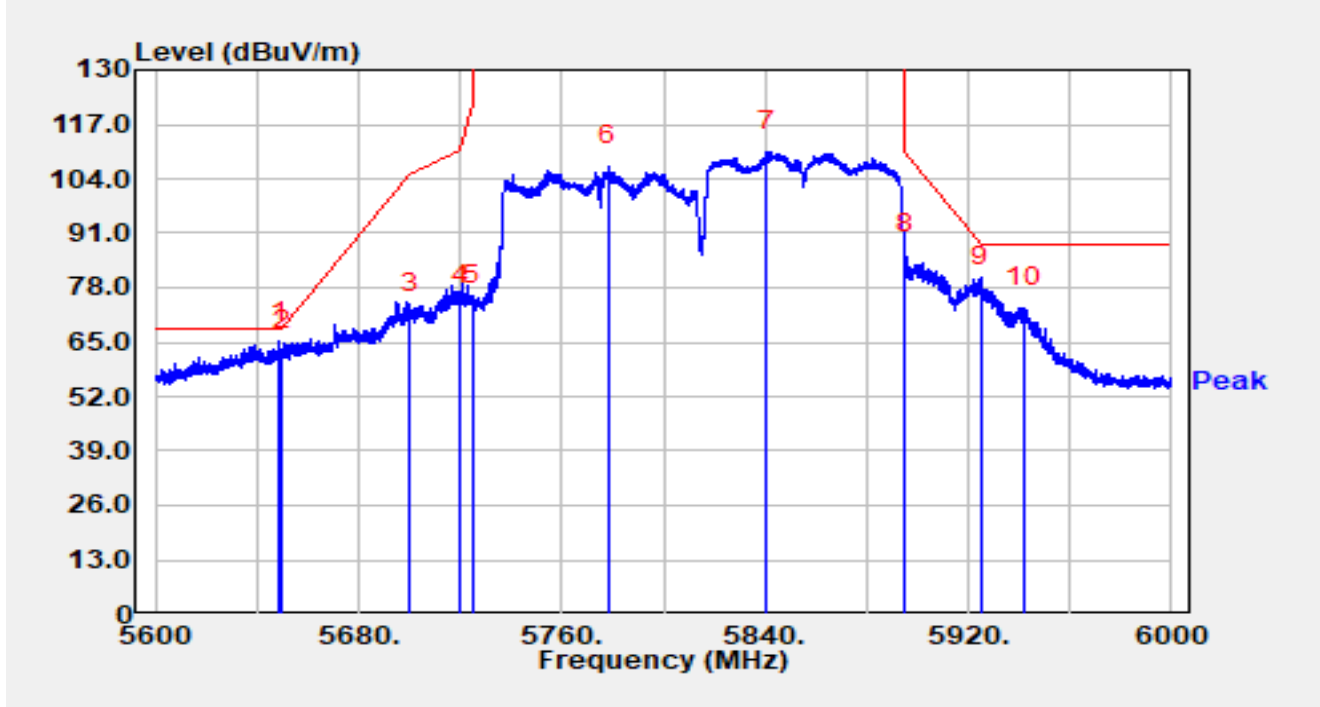
1. " * ", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

A.8 Radiated Restricted Band Edge Test Result

Refer to MRT original report "2109RSU026-U1" clause A.8

Spot Check Test Data:

Site	WZ-AC2	Test Date	2025-02-13
Temperature	20.9 °C	Humidity	31.7 %
Limit	FCC_5.9G_RE(3m)	Test Engineer	Dick Shen
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80+80 at 5775+5855MHz		

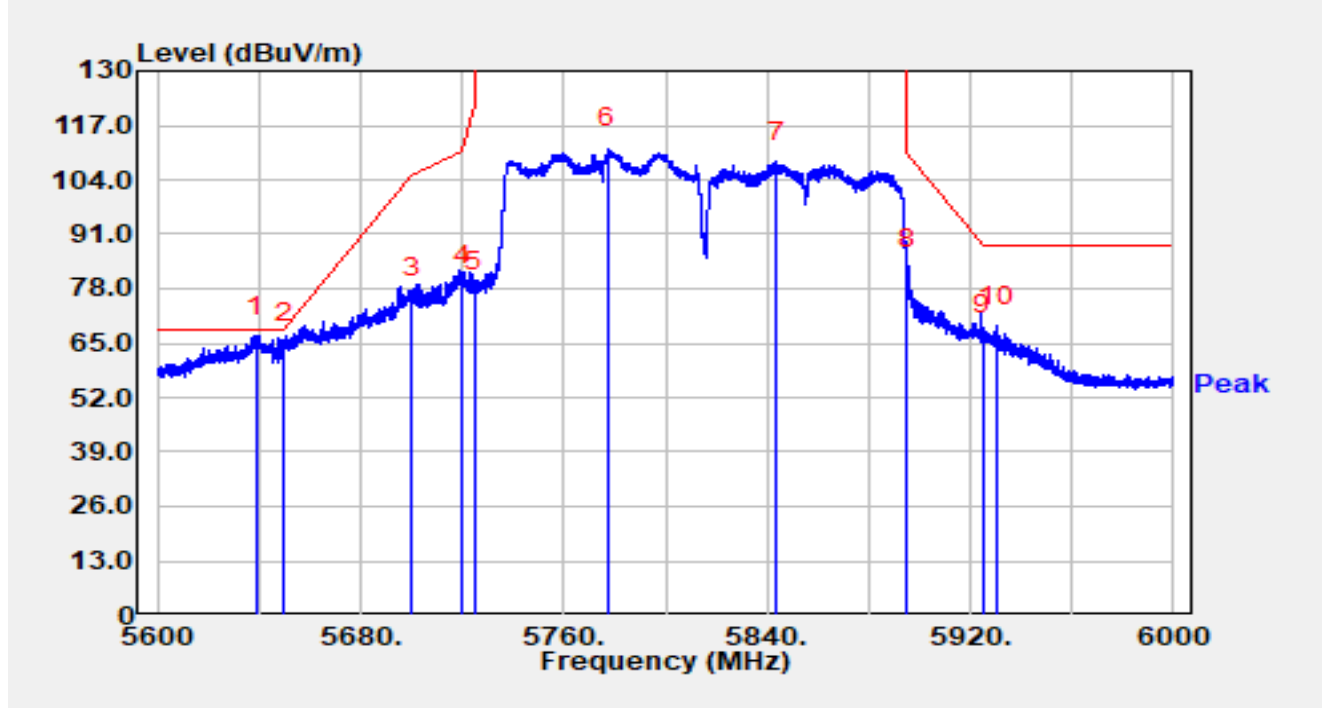


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5648.920	44.42	20.61	65.03	-3.17	68.20	Peak
2		5650.000	42.67	20.60	63.27	-4.93	68.20	Peak
3		5700.000	50.82	20.96	71.79	-33.41	105.20	Peak
4		5720.000	52.76	21.20	73.96	-36.84	110.80	Peak
5		5725.000	52.68	21.24	73.92	-48.28	122.20	Peak
6		5778.080	85.70	21.36	107.06	N/A	N/A	Peak
7		5840.640	89.12	21.43	110.54	N/A	N/A	Peak
8		5895.000	64.54	21.52	86.06	-63.94	150.00	Peak
9		5925.000	56.80	21.59	78.39	-9.81	88.20	Peak
10		5942.080	51.50	21.64	73.14	-15.06	88.20	Peak

Notes:

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

Site	WZ-AC2	Test Date	2025-02-14
Temperature	20.9 °C	Humidity	31.7 %
Limit	FCC_5.9G_RE(3m)	Test Engineer	Dick Shen
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80+80 at 5775+5855MHz		



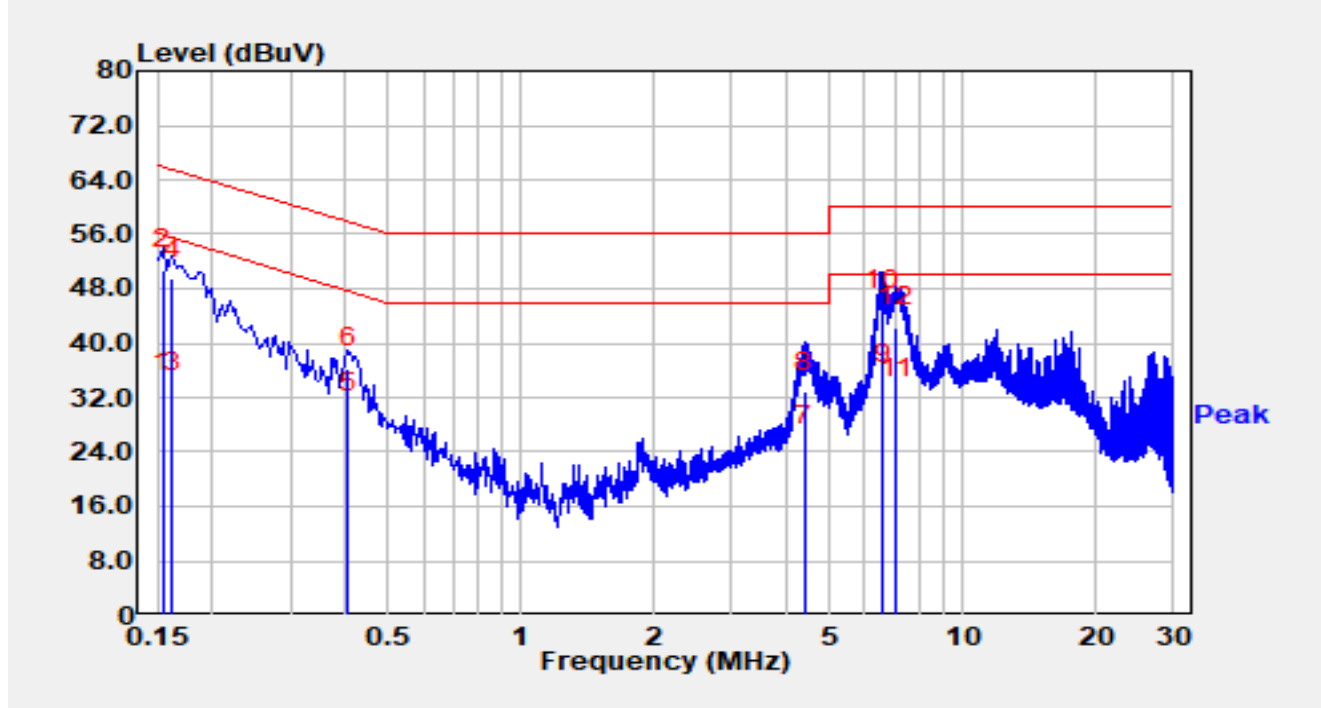
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5639.040	45.98	20.67	66.64	-1.56	68.20	Peak
2		5650.000	44.27	20.60	64.86	-3.34	68.20	Peak
3		5700.000	54.94	20.96	75.91	-29.29	105.20	Peak
4		5720.000	57.55	21.20	78.75	-32.05	110.80	Peak
5		5725.000	56.18	21.24	77.42	-44.78	122.20	Peak
6		5777.040	90.08	21.35	111.43	N/A	N/A	Peak
7		5843.800	86.86	21.44	108.30	N/A	N/A	Peak
8		5895.000	60.95	21.52	82.47	-67.53	150.00	Peak
9		5925.000	45.21	21.59	66.80	-21.40	88.20	Peak
10		5930.360	47.55	21.62	69.17	-19.03	88.20	Peak

Notes:

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

A.9 AC Conducted Emissions Test Result

Site	WZ-SR2	Test Date	2025-02-21
Temperature	17.6 °C	Humidity	36.0 %
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
Factor	ENV216_101683_L1_Filter Off_C	Polarity	Line1
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11a at 5845MHz		

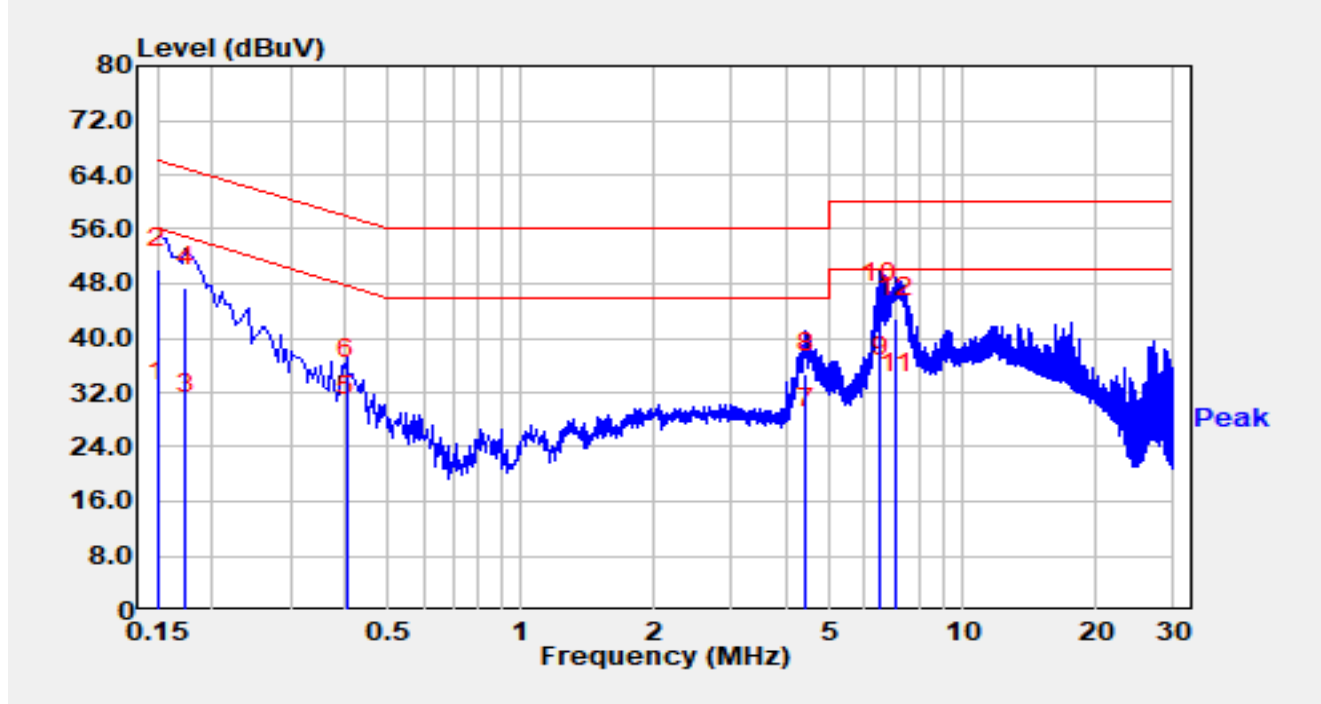


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.154	23.00	9.82	32.82	-22.96	55.78	Average
2	*	0.154	41.00	9.82	50.82	-14.96	65.78	QP
3		0.162	22.90	9.82	32.72	-22.64	55.36	Average
4		0.162	39.60	9.82	49.42	-15.94	65.36	QP
5		0.406	19.70	9.89	29.59	-18.14	47.73	Average
6		0.406	26.40	9.89	36.29	-21.44	57.73	QP
7		4.380	14.80	10.19	24.99	-21.01	46.00	Average
8		4.380	22.70	10.19	32.89	-23.11	56.00	QP
9		6.580	23.80	10.24	34.04	-15.96	50.00	Average
10		6.580	34.50	10.24	44.74	-15.26	60.00	QP
11		7.090	21.50	10.26	31.76	-18.24	50.00	Average
12		7.090	32.10	10.26	42.36	-17.64	60.00	QP

Notes:

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

Site	WZ-SR2	Test Date	2025-02-21
Temperature	17.6 °C	Humidity	36.0 %
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
Factor	ENV216_101683_N_Filter Off_C	Polarity	Neutral
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11a at 5845MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.150	20.40	10.13	30.53	-25.47	56.00	Average
2		0.150	40.00	10.13	50.13	-15.87	66.00	QP
3		0.174	18.80	10.12	28.92	-25.85	54.77	Average
4		0.174	37.40	10.12	47.52	-17.25	64.77	QP
5		0.402	18.30	10.14	28.44	-19.38	47.81	Average
6		0.402	23.70	10.14	33.84	-23.98	57.81	QP
7		4.420	16.40	10.44	26.84	-19.16	46.00	Average
8		4.420	24.40	10.44	34.84	-21.16	56.00	QP
9		6.510	23.80	10.50	34.30	-15.70	50.00	Average
10	*	6.510	34.60	10.50	45.10	-14.90	60.00	QP
11		7.080	21.30	10.51	31.81	-18.19	50.00	Average
12		7.080	32.40	10.51	42.91	-17.09	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 “2412RSU040-UT” file.

Appendix C – EUT Photograph

Refer to “2412RSU040-UE” file.

The End
