RF MEASUREMENT REPORT

FCC ID:	Q9DAPIN0655A
Applicant:	Hewlett Packard Enterprise Company
Product:	ACCESS POINT
Model No.:	APIN0655A
Trademark:	Hewlett Packard Enterprise
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:	2025-01-13 ~ 2025-02-21

Reviewed By: Jame Yuan

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

Revision History

Report No.	Version	Description	Issue Date	Note
2412RSU040-U4	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
Dynamic Frequency Selection (DFS)	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

CONTENTS

1. General Information

1.1. Applicant

Hewlett Packard Enterprise Company

3333 Scott Blvd, Santa Clara, CA 95054, USA

1.2. Manufacturer

Hewlett Packard Enterprise Company

3333 Scott Blvd, Santa Clara, CA 95054, USA

1.3. Testing Facility

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

1.4. Product Information

Product Name	ACCESS POINT
Model No.	APIN0655A
Software Version	Spf11.4cs
Serial No.	CNT0ML1024
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: 5180~5240MHz, 5260~5320MHz, 5500~5720MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5190~5230MHz, 5270~5310MHz, 5510~5710MHz, 5755~5795MHz For 802.11ac-VHT80/ax-HE80: 5210MHz, 5290MHz, 5530MHz, 5610 MHz, 5690MHz, 5775MHz For 802.11ac-VHT80+80/ax-HE80+80: 5210+5290MHz, 5530+5610 MHz	
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 1733.2Mbps 802.11ax: up to 2402Mbps	
Channel Puncturing Function	☐ Supported	☒ Unsupported
Support RU	☒ Full RU	☐ Partial RU

1.6. Working Frequencies

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	52	5260 MHz	56	5280 MHz
60	5300 MHz	64	5320 MHz	100	5500 MHz
104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz
128	5640 MHz	132	5660 MHz	136	5680 MHz
140	5700 MHz	144	5720 MHz	149	5745 MHz
153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	--	--	--	--

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz
62	5310 MHz	102	5510 MHz	110	5550MHz
118	5590 MHz	126	5630 MHz	134	5670 MHz
142	5710 MHz	151	5755 MHz	159	5795 MHz

802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530 MHz
122	5610 MHz	138	5690 MHz	155	5775 MHz

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
42 + 58	5210+5290MHz	106 + 122	5530+5610 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 10log(N) factor based on CDD power.
4. All Wi-Fi antennas have cross polarized design, the detail information and calculation method refer to antenna specification.

2. Test Configuration

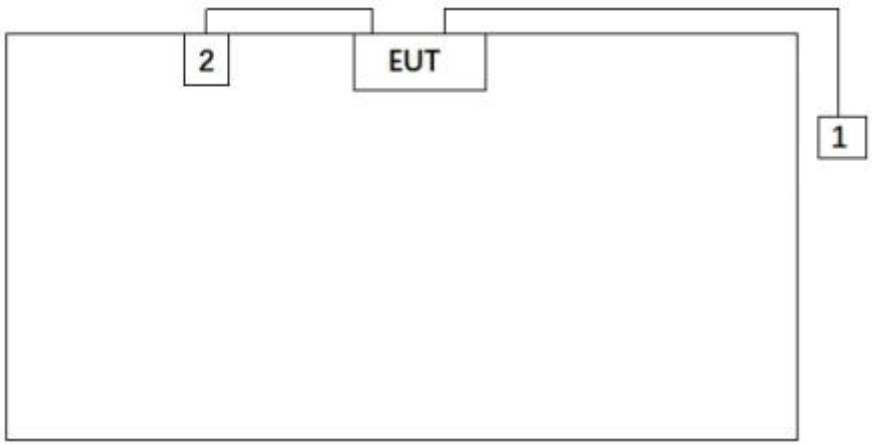
2.1. Test Mode

Mode 1: Transmit by 802.11a_N_{SS}=1 (6Mbps)
Mode 2: Transmit by 802.11ac-VHT20_N_{SS}=1 (MCS0)
Mode 3: Transmit by 802.11ac-VHT40_N_{SS}=1 (MCS0)
Mode 4: Transmit by 802.11ac-VHT80_N_{SS}=1 (MCS0)
Mode 5: Transmit by 802.11ac-VHT80+80_N_{SS}=1 (MCS0)
Mode 6: Transmit by 802.11ax-HE20_N_{SS}=1 (MCS0)
Mode 7: Transmit by 802.11ax-HE40_N_{SS}=1 (MCS0)
Mode 8: Transmit by 802.11ax-HE80+80_N_{SS}=1 (MCS0)
Note 1: 802.11n and 802.11ac have same modulation type and same power value, so we only show 802.11ac test data in report. Note 2: All modes of operation and data rates were investigated, so all RF test requirements shall be executed at the worst data rate.

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



Product		Manufacturer	Model No.
1	Notebook	DELL	Latitude 5491
2	AC Adapter	aruba	DB-48A12

2.3. Test Software

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

Note: Final power setting please refer to operational description.

2.4. Applied Standards

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

- FCC Part 15.407
- KDB 789033 D02v02r01
- 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

Excerpt from §15.203 of the FCC Rules/Regulations:

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

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

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Thermohygrometer	testo	608-H1	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	RE & CE
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=2Uc(y)): 2.2dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.4dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.2dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(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)(1)(ii), (2), (3)(i)	Maximum Conducted Output Power		Pass
15.407(h)(1)	Transmit Power Control		Pass
15.407(g)	Frequency Stability		Pass
15.407(a)(1)(ii), (2), (3)(i), (13)	Peak Power Spectral Density		Pass
15.407(h)(2)	Dynamic Frequency Selection (DFS)		Pass Remark 3
15.407(b)(1), (2), (3), (4)(i)	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

Remark:

1. 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.
2. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
3. “Dynamic Frequency Selection” refers to report “2412RSU040-U5”.
4. 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 II)C)1) (26dB Bandwidth)

KDB 789033 D02v02r01- Section II)D) (99% Bandwidth)

6.2.3. Test Setting

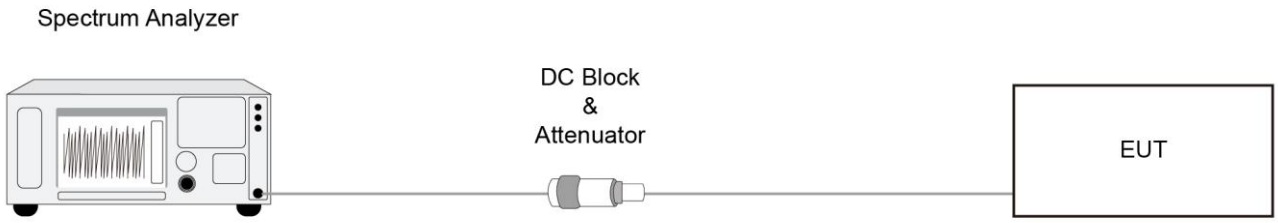
26dB Bandwidth

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth
2. RBW = approximately 1% of the emission bandwidth.
3. VBW > RBW
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 1% to 5% of the OBW
3. VBW ≥ 3 × RBW
4. Span = 1.5 times to 5 times the OBW
5. Detector = peak
6. Trace mode = max hold
7. Allow the trace to stabilize
8. 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 6dBbandwidth shall be at least 500 kHz.

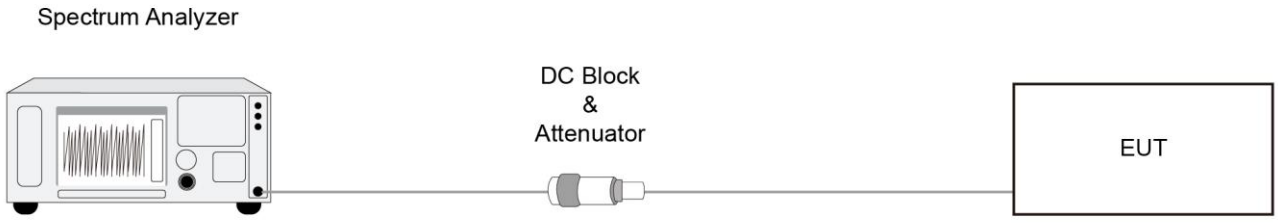
6.3.2. Test Procedure

KDB 789033 D02v02r01- Section II)C)2)

6.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW ≥ 3 × RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
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 the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

6.4.2. Test Procedure

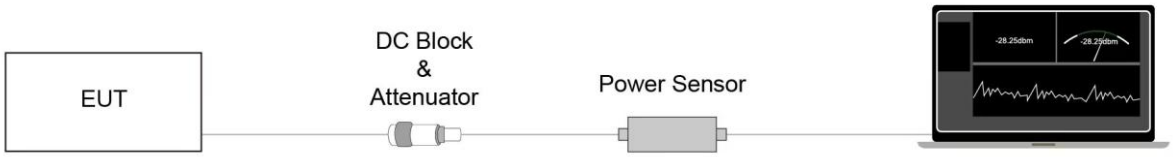
KDB 789033D02v02r01- Section II)E)3)b) Method PM-G

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. Transmit Power Control Measurement

6.5.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

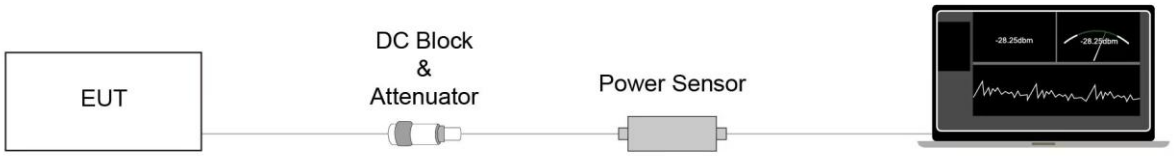
6.5.2. Test Procedure

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

6.5.3. Test Setting

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. The trace was averaged over 100 traces to obtain the final measured average power.

6.5.4. Test Setup



6.5.5. Test Result

Device supports TPC mechanism, details refer to the operational description.

6.6. Power Spectral Density Measurement

6.6.1. Test Limit

For the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

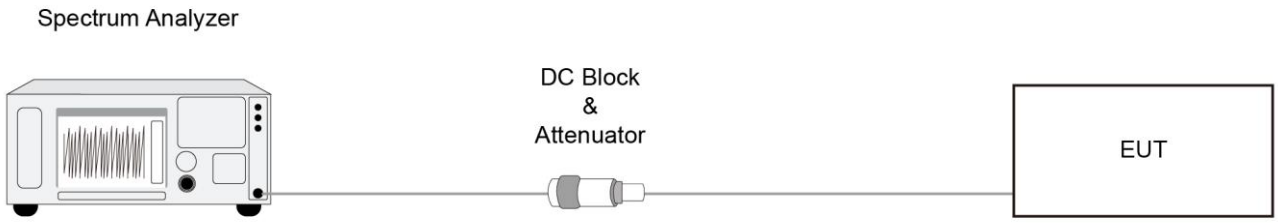
6.6.2. Test Procedure

KDB 789033 D02v02r01-Section Ⅱ)F)

6.6.3. 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 (510kHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz)
4. VBW = 3 × RBW
5. Number of sweep points ≥ 2 × (span / RBW)
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
11. Add 10*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*log(1/0.25) = 6 dB if the duty cycle is 25 percent.

6.6.4. Test Setup



6.6.5. Test Result

Refer to Appendix A.5.

6.7. Frequency Stability Measurement

6.7.1. 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.

6.7.2. Test Procedure

Frequency Stability Under Temperature Variations:

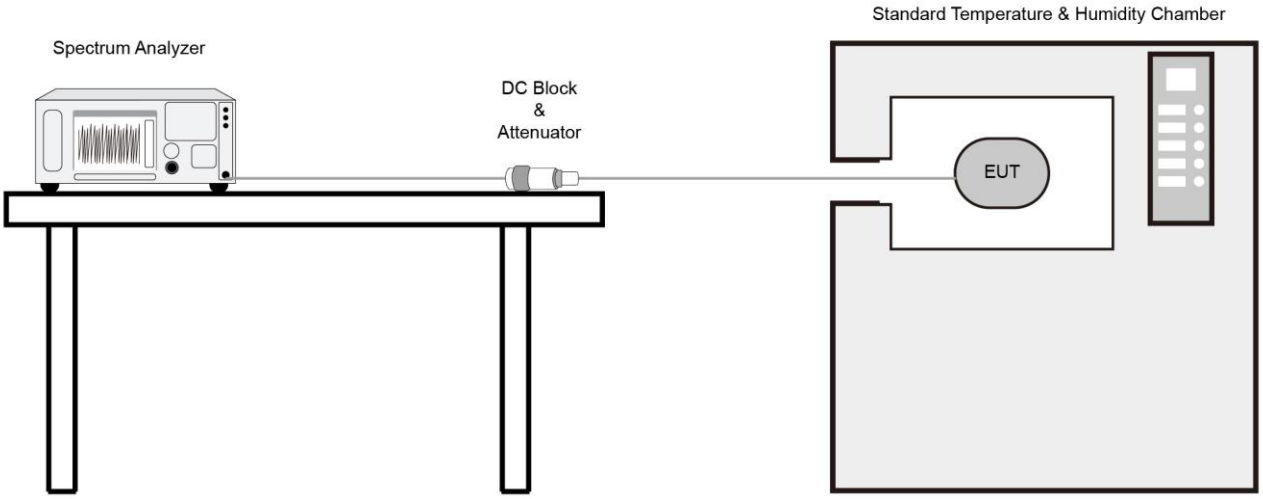
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain 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 (±15%) and endpoint, recordthe maximum frequency change.

6.7.3. Test Setup



6.7.4. Test Result

Refer to Appendix A.6.

6.8. Radiated Spurious Emission Measurement

6.8.1. Test Limit

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

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

6.8.2. Test Procedure

KDB 789033 D02v02r01- Section II)G)

6.8.3. 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 ≥ 98%, set VBW = 10Hz

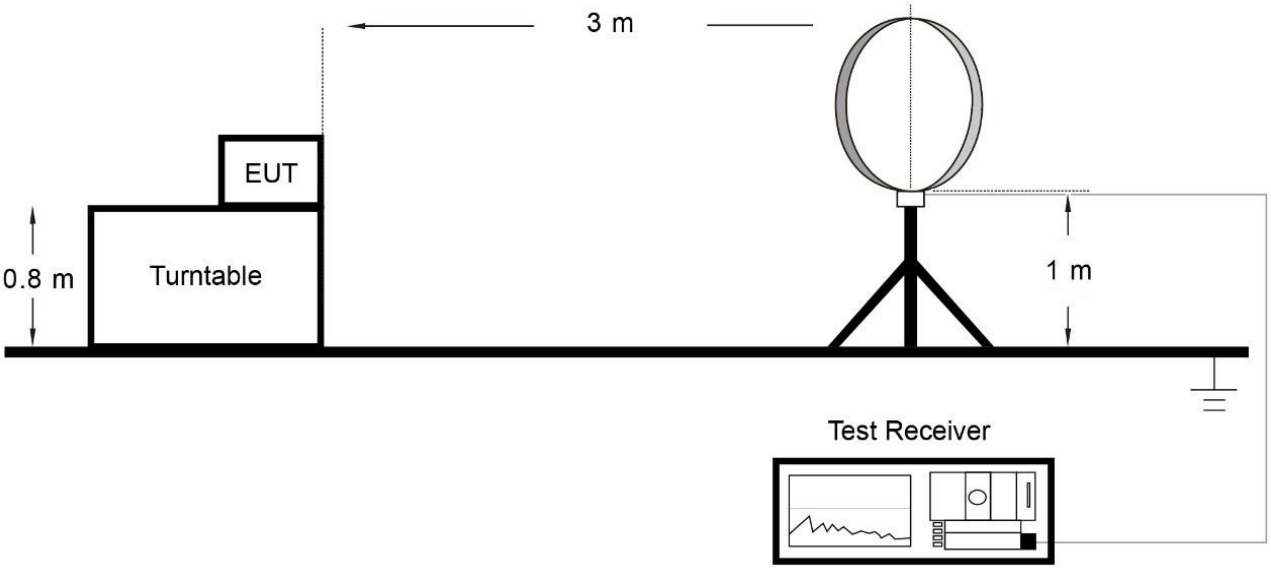
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

802.11a	VBW = 750Hz	802.11ax-HE20	VBW = 200Hz
802.11ac-VHT20	VBW = 100Hz	802.11ax-HE40	VBW = 200Hz
802.11ac-VHT40	VBW = 200Hz	802.11ax-HE80	VBW = 200Hz
802.11ac-VHT80	VBW = 200Hz	N/A	N/A

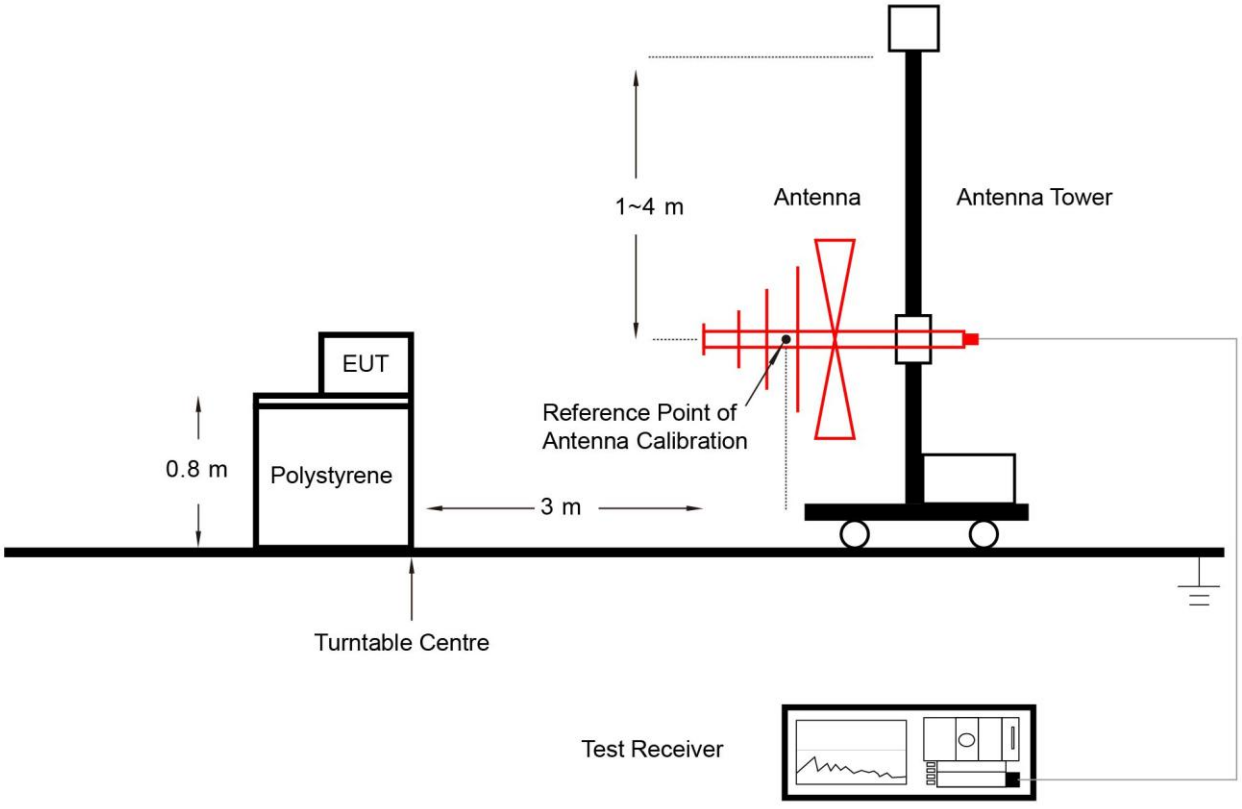
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can 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

6.8.4. Test Setup

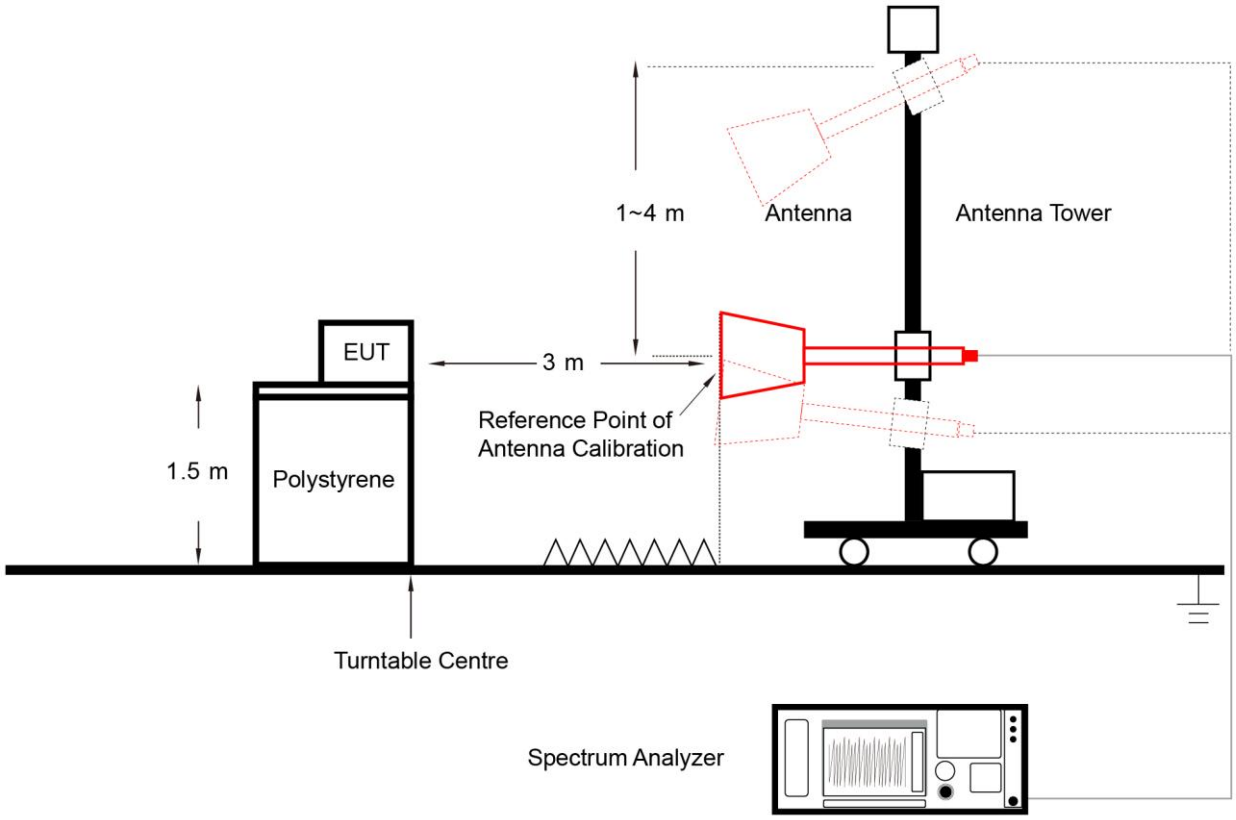
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.8.5. Test Result

Refer to Appendix A.7.

6.9. Radiated Restricted Band Edge Measurement

6.9.1. 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 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

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.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

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

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

6.9.2. Test Procedure

KDB 789033 D02v02r01- Section II)G)

6.9.3. Test Setting

Peak Field Strength Measurements

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

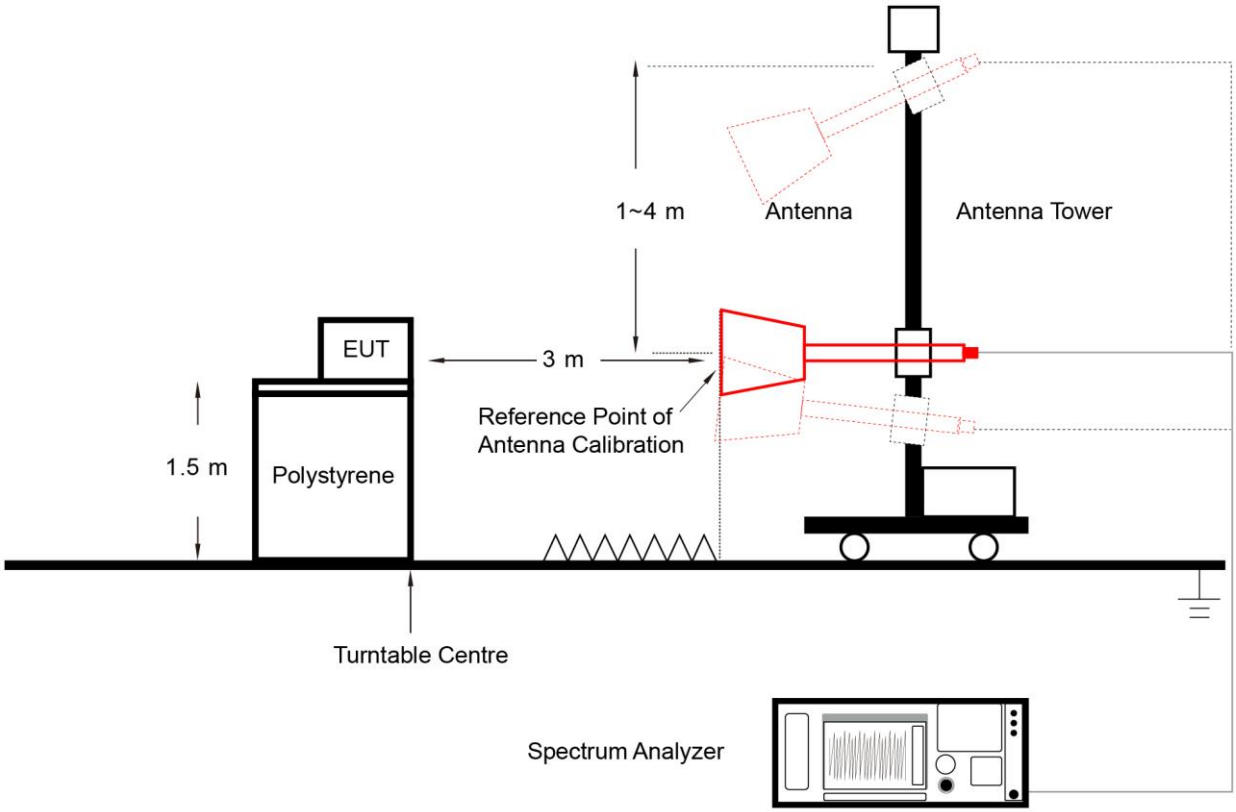
Average Field Strength Measurements

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

802.11a	VBW = 750Hz	802.11ax-HE20	VBW = 200Hz
802.11ac-VHT20	VBW = 100Hz	802.11ax-HE40	VBW = 200Hz
802.11ac-VHT40	VBW = 200Hz	802.11ax-HE80	VBW = 200Hz
802.11ac-VHT80	VBW = 200Hz	N/A	N/A

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

6.9.4. Test Setup



6.9.5. Test Result

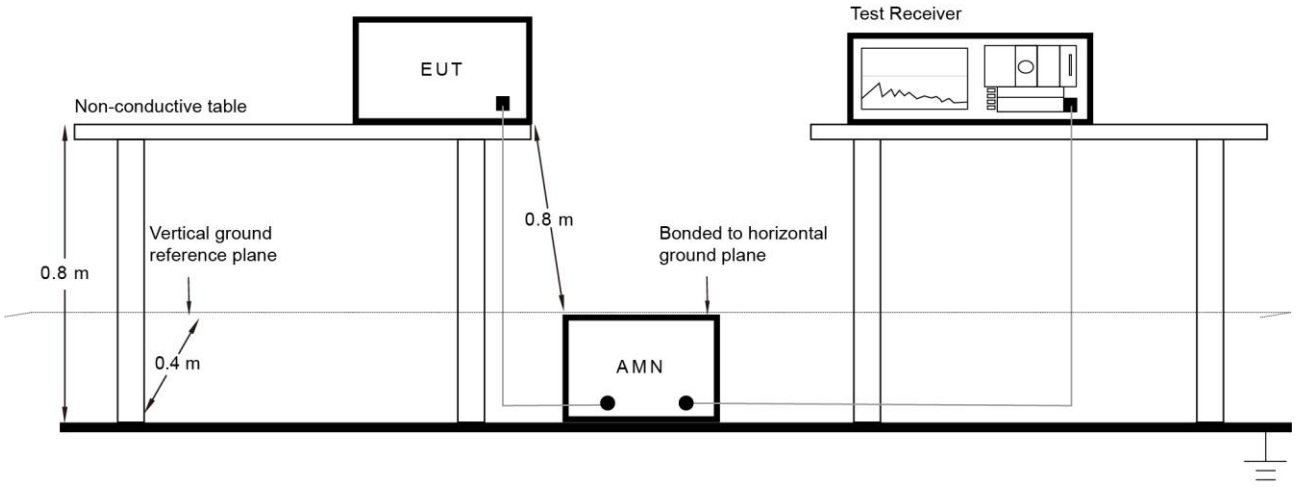
Refer to Appendix A.8.

6.10. AC Conducted Emissions Measurement

6.10.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dBμV)	AV (dBμV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50
Note 1: The lower limit shall apply at the transition frequencies.		
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.		

6.10.2. Test Setup



6.10.3. Test Result

Refer to Appendix A.9.

Appendix A – Test Result

A.1 Duty Cycle Test Result

Refer to MRT original report “2105TW0602-U4” clause 2.8

A.2 26dB Bandwidth Test Result

Refer to MRT original report “2105TW0602-U4” clause 7.2.5

Spot Check Test Data:

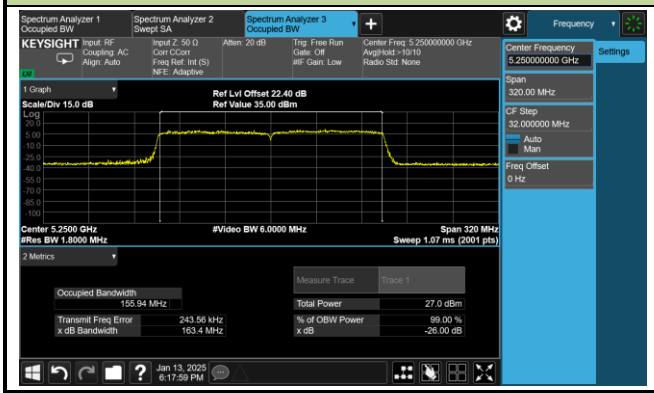
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-01-13		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
11ax-HE20	MCS0	48	5240	20.80	18.885
11ax-HE80+80	MCS0	42+58	5210+5290	163.4	155.94

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	F_H (MHz)	Limit (MHz)
802.11ax-HE20	MCS0	48	5240	5249.44	< 5250

Note: F_H = Centre frequency + 99% OBW / 2.

For example, 802.11ax-HE20 5240MHz, F_H = 5240 MHz + 18.885 MHz / 2 = 5249.44 MHz.

802.11ax-HE20 26dB Bandwidth	
Channel 48 (5240MHz)	
	
802.11ax-HE80 26dB Bandwidth & 99% Bandwidth	
Channel 42 + 58 (5210 + 5290MHz)	
	

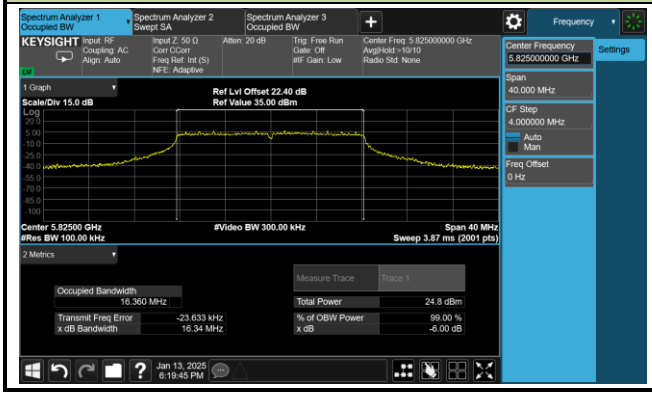
A.3 6dB Bandwidth Test Result

Refer to MRT original report “2105TW0602-U4” clause 7.3.5

Spot Check Test Data:

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-01-13		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11a	6Mbps	165	5825	16.34	≥0.5

802.11a 6dB Bandwidth	
Channel 165 (5825MHz)	
	

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)	Power Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3		
11a	6Mbps	36	5180	16.85	16.53	16.47	16.46	22.60	≤30.00
11a	6Mbps	44	5220	17.71	17.64	17.14	17.35	23.49	≤30.00
11a	6Mbps	48	5240	17.77	17.76	17.59	17.64	23.71	≤30.00
11a	6Mbps	52	5260	16.02	15.97	15.76	15.73	21.89	≤23.77
11a	6Mbps	60	5300	15.55	15.61	15.08	15.34	21.42	≤23.77
11a	6Mbps	64	5320	15.87	15.73	15.33	15.35	21.60	≤23.77
11a	6Mbps	100	5500	15.69	15.80	15.35	15.71	21.66	≤23.77
11a	6Mbps	116	5580	15.79	16.13	15.82	15.78	21.90	≤23.77
11a	6Mbps	140	5700	15.39	15.11	14.88	14.76	21.06	≤23.77
11a	6Mbps	144	5720	15.92	15.76	15.48	15.38	21.66	≤22.60
11a	6Mbps	149	5745	18.05	18.31	17.71	17.73	23.98	≤30.00
11a	6Mbps	157	5785	17.83	17.91	17.15	17.52	23.63	≤30.00
11a	6Mbps	165	5825	17.96	18.21	17.13	17.67	23.78	≤30.00
11ac-VHT20	MCS0	36	5180	17.62	17.64	17.51	17.57	23.61	≤30.00
11ac-VHT20	MCS0	44	5220	17.62	17.78	17.22	17.31	23.51	≤30.00
11ac-VHT20	MCS0	48	5240	17.53	17.91	17.72	17.62	23.72	≤30.00
11ac-VHT20	MCS0	52	5260	16.03	16.24	15.87	16.13	22.09	≤23.98
11ac-VHT20	MCS0	60	5300	16.05	15.88	15.82	15.83	21.92	≤23.98
11ac-VHT20	MCS0	64	5320	15.99	15.77	15.46	15.89	21.80	≤23.98
11ac-VHT20	MCS0	100	5500	16.56	16.56	16.35	16.37	22.48	≤23.98
11ac-VHT20	MCS0	116	5580	16.26	16.17	15.92	15.95	22.10	≤23.98
11ac-VHT20	MCS0	140	5700	16.07	15.75	15.63	15.85	21.85	≤23.98
11ac-VHT20	MCS0	144	5720	15.91	15.60	15.80	15.95	21.84	≤22.83
11ac-VHT20	MCS0	149	5745	18.31	18.52	18.00	18.22	24.29	≤30.00
11ac-VHT20	MCS0	157	5785	17.89	18.26	17.64	18.03	23.98	≤30.00
11ac-VHT20	MCS0	165	5825	17.57	18.10	17.35	17.75	23.72	≤30.00

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Power Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3		
11ac-VHT40	MCS0	38	5190	15.83	15.35	15.32	15.62	21.56	≤ 30.00
11ac-VHT40	MCS0	46	5230	17.79	17.43	17.25	17.55	23.53	≤ 30.00
11ac-VHT40	MCS0	54	5270	17.52	17.36	17.22	17.39	23.39	≤ 23.98
11ac-VHT40	MCS0	62	5310	15.84	15.59	15.43	15.81	21.69	≤ 23.98
11ac-VHT40	MCS0	102	5510	17.28	17.43	17.41	17.53	23.43	≤ 23.98
11ac-VHT40	MCS0	110	5550	17.37	17.64	17.80	17.72	23.66	≤ 23.98
11ac-VHT40	MCS0	134	5670	17.66	17.58	17.19	17.41	23.48	≤ 23.98
11ac-VHT40	MCS0	142	5710	17.60	17.39	17.10	17.20	23.35	≤ 23.98
11ac-VHT40	MCS0	151	5755	18.11	18.15	17.49	17.75	23.90	≤ 30.00
11ac-VHT40	MCS0	159	5795	18.72	18.35	17.92	18.37	24.37	≤ 30.00
11ac-VHT80	MCS0	42	5210	15.65	15.16	14.99	15.39	21.33	≤ 30.00
11ac-VHT80	MCS0	58	5290	15.73	15.53	15.22	15.64	21.55	≤ 23.98
11ac-VHT80	MCS0	106	5530	15.80	15.86	16.07	15.91	21.93	≤ 23.98
11ac-VHT80	MCS0	122	5610	17.46	17.51	16.87	17.17	23.28	≤ 23.98
11ac-VHT80	MCS0	138	5690	18.02	17.77	17.49	17.64	23.75	≤ 23.98
11ac-VHT80	MCS0	155	5775	18.24	18.07	17.41	17.87	23.93	≤ 30.00
11ac-VHT80+80	MCS0	42	5210	15.66	15.33	--	--	18.51	≤ 30.00
		58	5290	--	--	15.39	15.86	18.64	≤ 23.98
11ac-VHT80+80	MCS0	106	5530	16.57	16.26	--	--	22.44	≤ 23.98
		122	5610	--	--	16.35	16.49		
11ax-HE20	MCS0	36	5180	16.78	16.39	16.35	16.80	22.61	≤30.00
11ax-HE20	MCS0	44	5220	17.61	17.53	17.26	17.66	23.54	≤30.00
11ax-HE20	MCS0	48	5240	17.74	17.92	17.55	17.95	23.81	≤30.00
11ax-HE20	MCS0	52	5260	16.53	16.51	15.85	16.28	22.32	≤23.98
11ax-HE20	MCS0	60	5300	16.32	16.31	15.72	16.28	22.19	≤23.98
11ax-HE20	MCS0	64	5320	16.24	16.04	15.81	16.16	22.09	≤23.98
11ax-HE20	MCS0	100	5500	16.51	16.09	16.21	16.19	22.27	≤23.98
11ax-HE20	MCS0	116	5580	16.11	16.51	16.42	16.29	22.36	≤23.98
11ax-HE20	MCS0	140	5700	16.44	15.84	16.07	16.12	22.14	≤23.98
11ax-HE20	MCS0	144	5720	16.38	15.91	16.18	15.88	22.11	≤22.89
11ax-HE20	MCS0	149	5745	18.18	18.23	17.91	17.92	24.08	≤30.00
11ax-HE20	MCS0	157	5785	18.33	18.20	17.62	18.02	24.07	≤30.00
11ax-HE20	MCS0	165	5825	17.91	17.98	17.58	18.05	23.90	≤30.00

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Power Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3		
11ax-HE40	MCS0	38	5190	15.16	14.56	14.57	14.89	20.82	≤ 30.00
11ax-HE40	MCS0	46	5230	17.96	17.57	17.46	17.73	23.70	≤ 30.00
11ax-HE40	MCS0	54	5270	17.54	17.27	17.21	17.43	23.39	≤ 23.98
11ax-HE40	MCS0	62	5310	15.08	14.85	14.64	14.92	20.90	≤ 23.98
11ax-HE40	MCS0	102	5510	16.45	16.69	16.84	16.77	22.71	≤ 23.98
11ax-HE40	MCS0	110	5550	17.43	17.84	17.92	17.81	23.77	≤ 23.98
11ax-HE40	MCS0	134	5670	17.84	17.85	17.48	17.52	23.70	≤ 23.98
11ax-HE40	MCS0	142	5710	17.81	17.53	17.46	17.25	23.54	≤ 23.98
11ax-HE40	MCS0	151	5755	18.75	18.76	17.96	18.46	24.52	≤ 30.00
11ax-HE40	MCS0	159	5795	18.53	18.42	17.62	18.03	24.19	≤ 30.00
11ax-HE80	MCS0	42	5210	15.08	14.56	14.33	14.75	20.71	≤ 30.00
11ax-HE80	MCS0	58	5290	15.03	14.85	14.68	14.94	20.90	≤ 23.98
11ax-HE80	MCS0	106	5530	16.12	16.29	16.56	16.74	22.45	≤ 23.98
11ax-HE80	MCS0	122	5610	17.48	17.75	17.50	17.43	23.56	≤ 23.98
11ax-HE80	MCS0	138	5690	17.63	17.25	17.21	17.31	23.37	≤ 23.98
11ax-HE80	MCS0	155	5775	17.88	17.74	17.16	17.59	23.62	≤ 30.00
11ax-HE80+80	MCS0	42	5210	15.64	16.21	--	--	18.94	≤ 30.00
		58	5290	--	--	15.39	16.10	18.77	≤ 23.98
11ax-HE80+80	MCS0	106	5530	15.44	16.54	--	--	20.40	≤ 23.98
		122	5610	--	--	16.62	16.80		

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

A.5 Power Spectral Density Test Result

Refer to MRT original report “2105TW0602-U4” clause 7.5.5

Spot Check Test Data:

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-01-13		
Test Item	Power Spectral Density (UNII-Band 1 & UNII-2a & UNII-2c)		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/ MHz)				Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/ MHz)
				Ant 0	Ant 1	Ant 2	Ant 3			
11a	6Mbps	64	5320	5.085	4.163	4.191	4.955	95.04	10.86	≤ 11.00

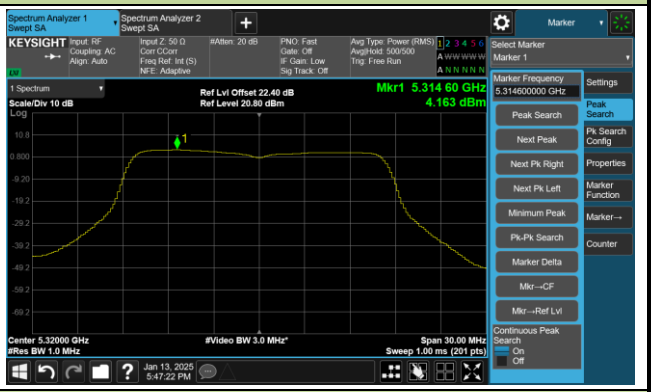
Note: When EUT duty cycle < 98%, the total PSD (dBm/MHz) =10*log {$10^{(\text{Ant 0 AVGPSD}/10)}$ + $10^{(\text{Ant 1 AVGPSD}/10)}$ +$10^{(\text{Ant 2 AVGPSD}/10)}$ + $10^{(\text{Ant 3 AVGPSD}/10)}$} +10*log (1/Duty cycle).

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

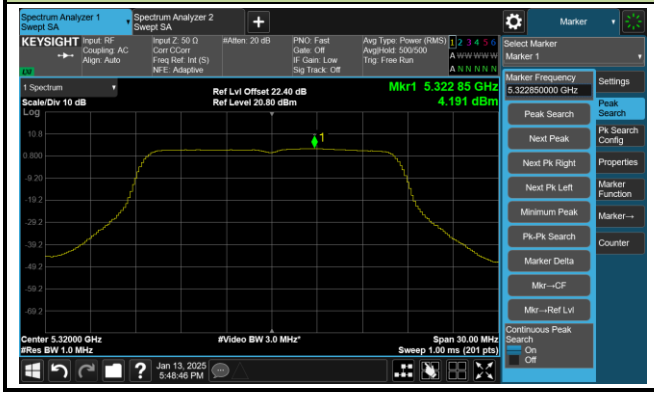
802.11a Power Spectral Density - Channel 64 (5320MHz)

Ant 0

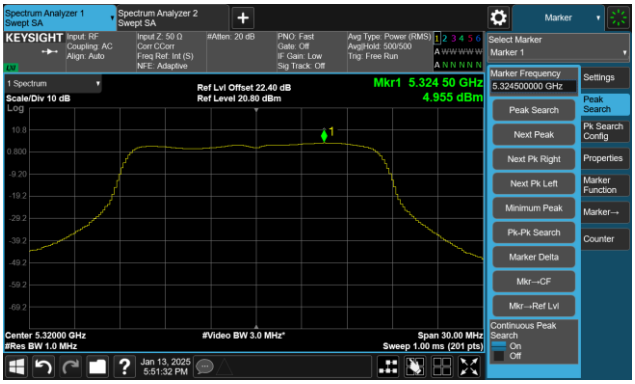
Ant 1



Ant 2



Ant 3



A.6 Frequency Stability Test Result

Refer to MRT original report “2105TW0602-U4” clause 7.6.5

Spot Check Test Data:

Test Site	WZ-TR3	Test Engineer	Lynn Yang
Test Date	2025-01-23	Test Mode	5180MHz (Carrier Mode)

Voltage (%)	Power (VAC)	Temp (°C)	Frequency Tolerance (ppm)			
			0 minutes	2 minutes	5 minutes	10 minutes
100%	120	- 20	-15.92	-15.64	-15.56	-15.48

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10^6.

A.7 Radiated Spurious Emission Test Result

Refer to MRT original report “2105TW0602-U4” clause 7.7.5

Spot Check Test Data:

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2025-01-23	Test Mode	802.11a – Channel 36
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)	Detector	Polarization
	8236.900	34.4	10.0	44.4	74.0	-29.6	Peak	Horizontal
*	8692.500	33.8	11.7	45.5	68.2	-22.7	Peak	Horizontal
*	10113.700	34.9	13.1	48.0	68.2	-20.2	Peak	Horizontal
	11495.800	33.0	16.5	49.5	74.0	-24.5	Peak	Horizontal
	8313.400	33.3	9.9	43.2	74.0	-30.8	Peak	Vertical
*	8775.800	34.7	11.7	46.4	68.2	-21.8	Peak	Vertical
*	9731.200	36.8	12.6	49.4	68.2	-18.8	Peak	Vertical
	11075.900	34.4	15.8	50.2	74.0	-23.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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)

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2025-01-23	Test Mode	802.11a – Channel 64
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
	8163.800	34.7	10.3	45.0	74.0	-29.0	Peak	Horizontal
*	9732.900	36.2	12.6	48.8	68.2	-19.4	Peak	Horizontal
	11636.900	32.7	16.8	49.5	74.0	-24.5	Peak	Horizontal
*	13886.000	32.0	18.4	50.4	68.2	-17.8	Peak	Horizontal
	8129.800	35.8	10.7	46.5	74.0	-27.5	Peak	Vertical
*	8716.300	32.9	11.8	44.7	68.2	-23.5	Peak	Vertical
*	10105.200	34.8	13.0	47.8	68.2	-20.4	Peak	Vertical
	11468.600	33.1	16.5	49.6	74.0	-24.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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)

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2025-01-24	Test Mode	802.11ac-VHT20 – Channel 100
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
	8160.400	35.1	10.3	45.4	74.0	-28.6	Peak	Horizontal
*	8748.600	34.3	11.7	46.0	68.2	-22.2	Peak	Horizontal
*	10312.600	34.7	14.0	48.7	68.2	-19.5	Peak	Horizontal
	11730.400	32.6	16.8	49.4	74.0	-24.6	Peak	Horizontal
	8146.800	34.5	10.4	44.9	74.0	-29.1	Peak	Vertical
*	8775.800	34.8	11.7	46.5	68.2	-21.7	Peak	Vertical
*	10511.500	35.1	14.5	49.6	68.2	-18.6	Peak	Vertical
	11869.800	32.9	16.2	49.1	74.0	-24.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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)

Test Site	WZ-AC2	Test Engineer	Ajin Fan
Test Date	2025-01-24	Test Mode	802.11ax-HE20 – Channel 165
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
	8138.300	34.6	10.6	45.2	74.0	-28.8	Peak	Horizontal
*	8685.700	34.1	11.6	45.7	68.2	-22.5	Peak	Horizontal
*	10006.600	35.9	12.7	48.6	68.2	-19.6	Peak	Horizontal
	11643.700	32.7	16.9	49.6	74.0	-24.4	Peak	Horizontal
*	8665.300	31.7	11.5	43.2	68.2	-25.0	Peak	Vertical
	9374.200	32.2	12.7	44.9	74.0	-29.1	Peak	Vertical
*	10086.500	33.1	12.8	45.9	68.2	-22.3	Peak	Vertical
	11081.000	33.4	15.9	49.3	74.0	-24.7	Peak	Vertical

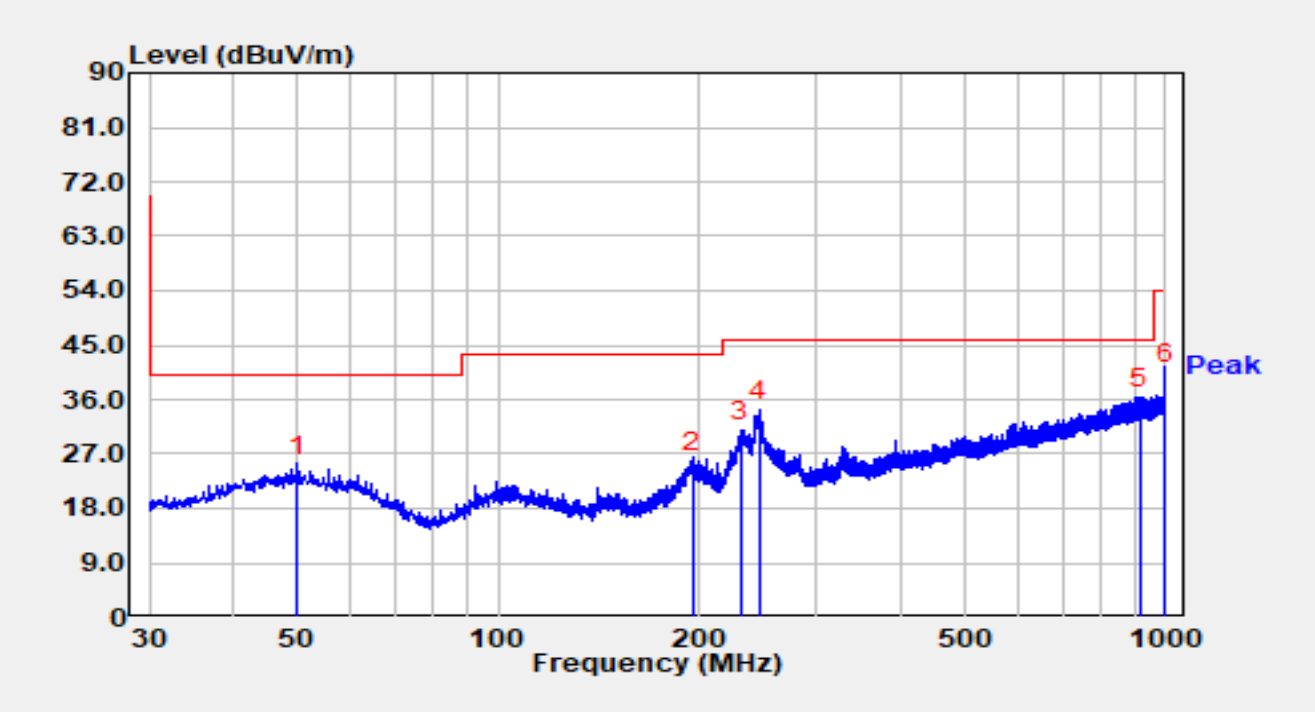
Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 802.11a at 5745MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		50.079	2.81	20.48	23.29	-16.71	40.00	QP
2		195.191	5.21	18.66	23.87	-19.63	43.50	QP
3		231.275	9.62	19.40	29.02	-16.98	46.00	QP
4		246.407	12.40	19.87	32.27	-13.73	46.00	QP
5	*	915.222	2.72	31.65	34.37	-11.63	46.00	QP
6		999.990	6.12	32.42	38.54	-15.46	54.00	QP

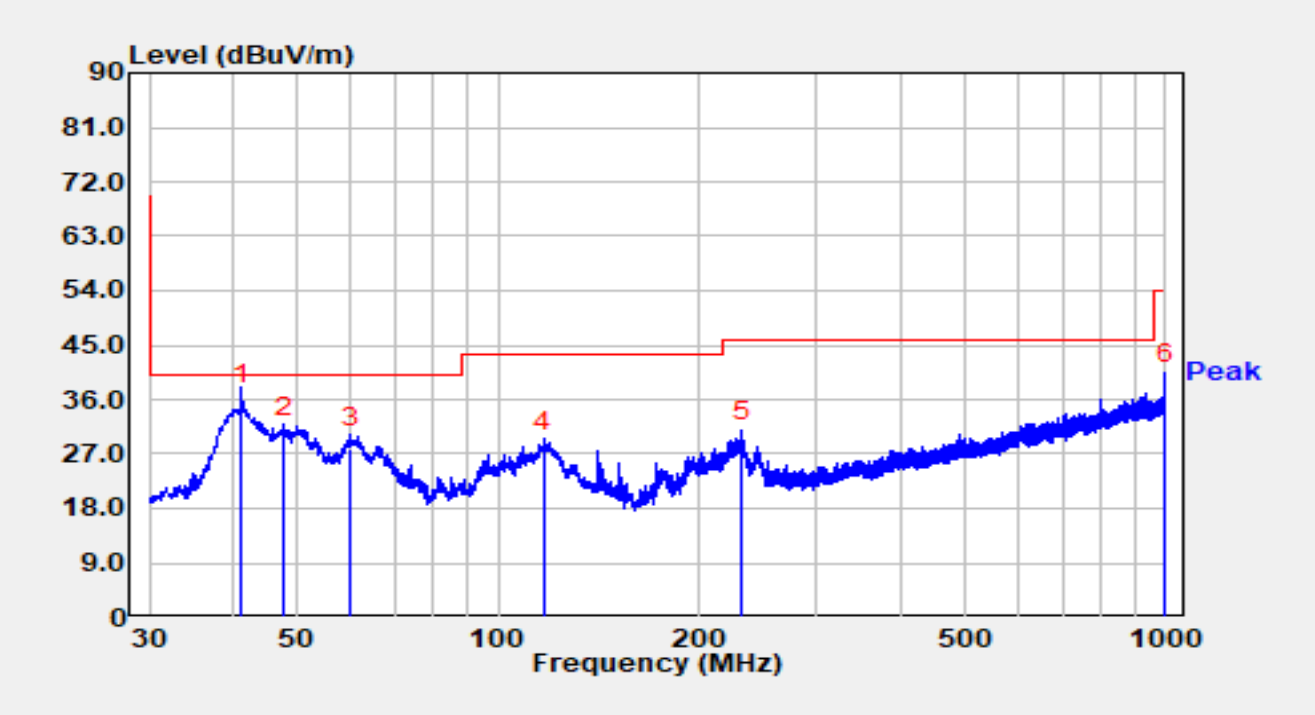
Notes:

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 802.11a at 5745MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	41.252	15.66	19.56	35.22	-4.78	40.00	QP
2		47.751	9.11	20.44	29.55	-10.45	40.00	QP
3		59.973	8.56	19.34	27.90	-12.10	40.00	QP
4		117.000	10.10	17.29	27.39	-16.11	43.50	QP
5		231.663	9.50	19.42	28.92	-17.08	46.00	QP
6		999.990	6.12	32.42	38.54	-15.46	54.00	QP

Notes:

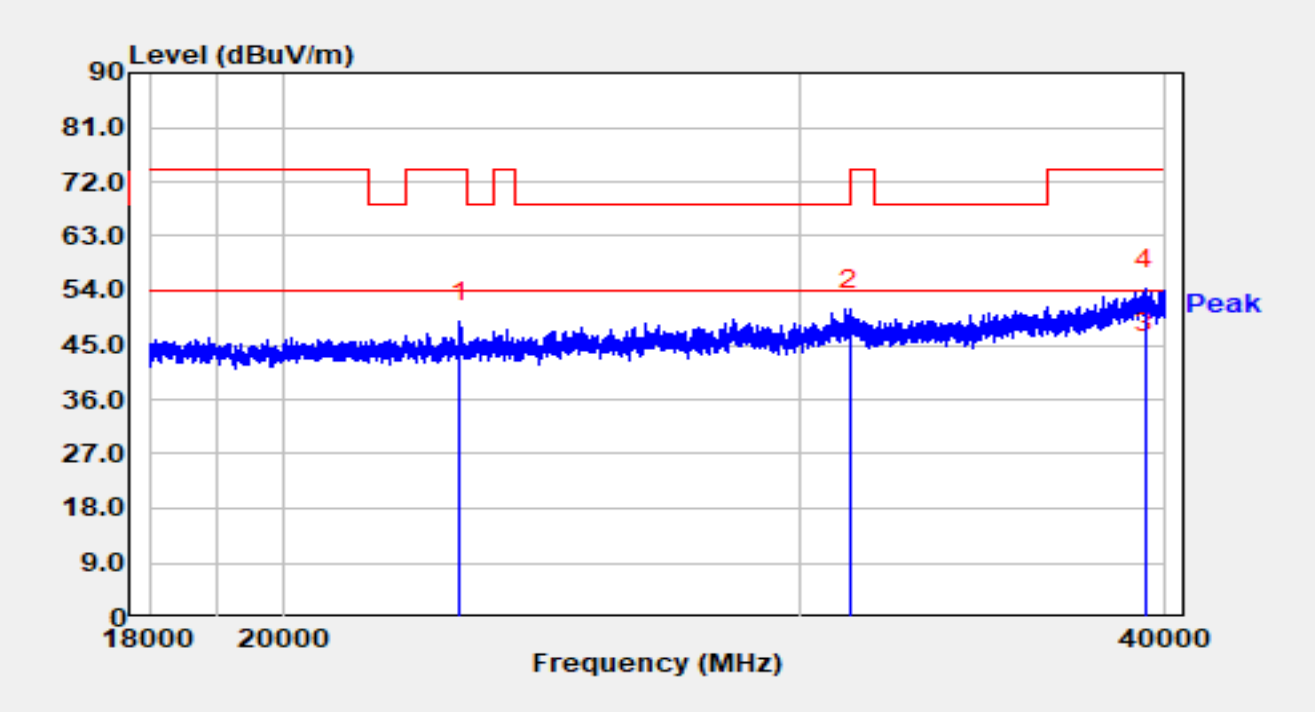
1. " * ", means this data is the worst emission level.

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 802.11a at 5745MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		22983.000	54.59	-5.78	48.81	-25.19	74.00	Peak
2		31222.000	54.09	-3.28	50.81	-23.19	74.00	Peak
3		39357.600	43.26	0.26	43.53	-30.47	74.00	Average
4	*	39357.600	53.93	0.26	54.19	-19.81	74.00	Peak

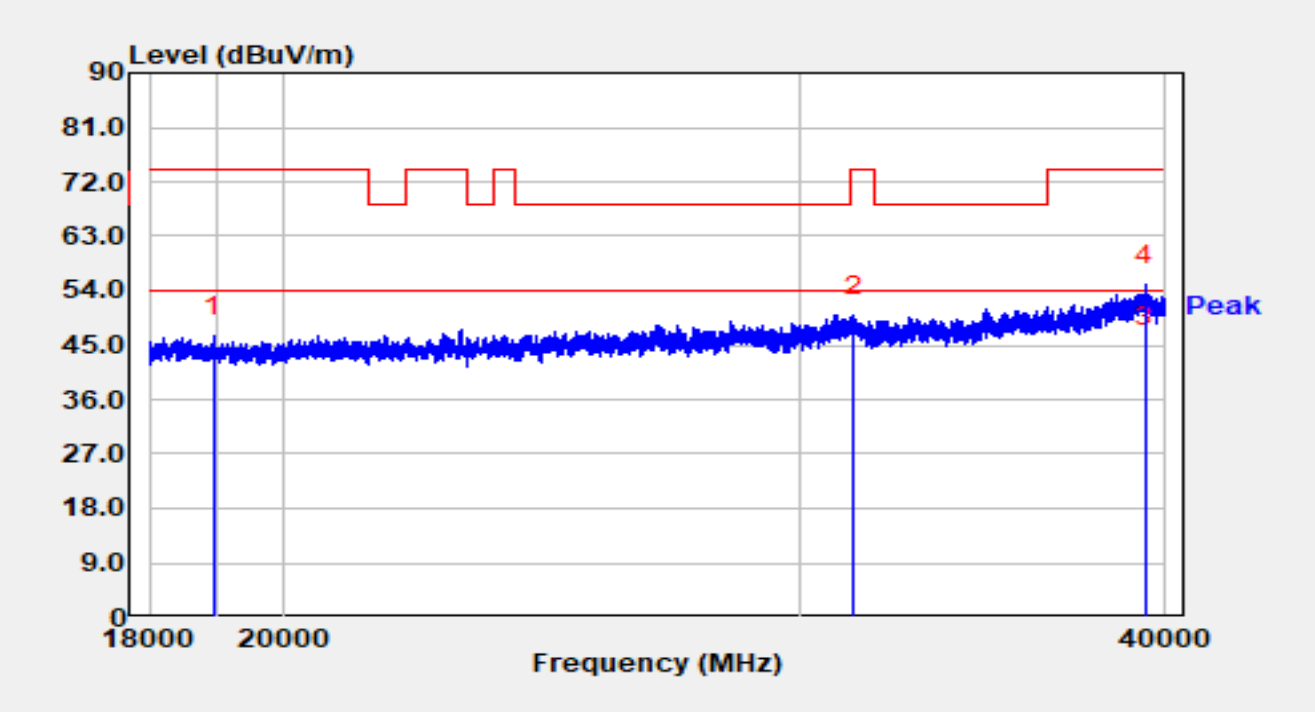
Notes:

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).

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 802.11a at 5745MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		18937.200	55.94	-9.41	46.53	-27.47	74.00	Peak
2		31307.800	53.14	-3.31	49.84	-24.16	74.00	Peak
3	*	39377.400	44.11	0.57	44.68	-9.32	54.00	Average
4		39377.400	54.37	0.57	54.93	-19.07	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).

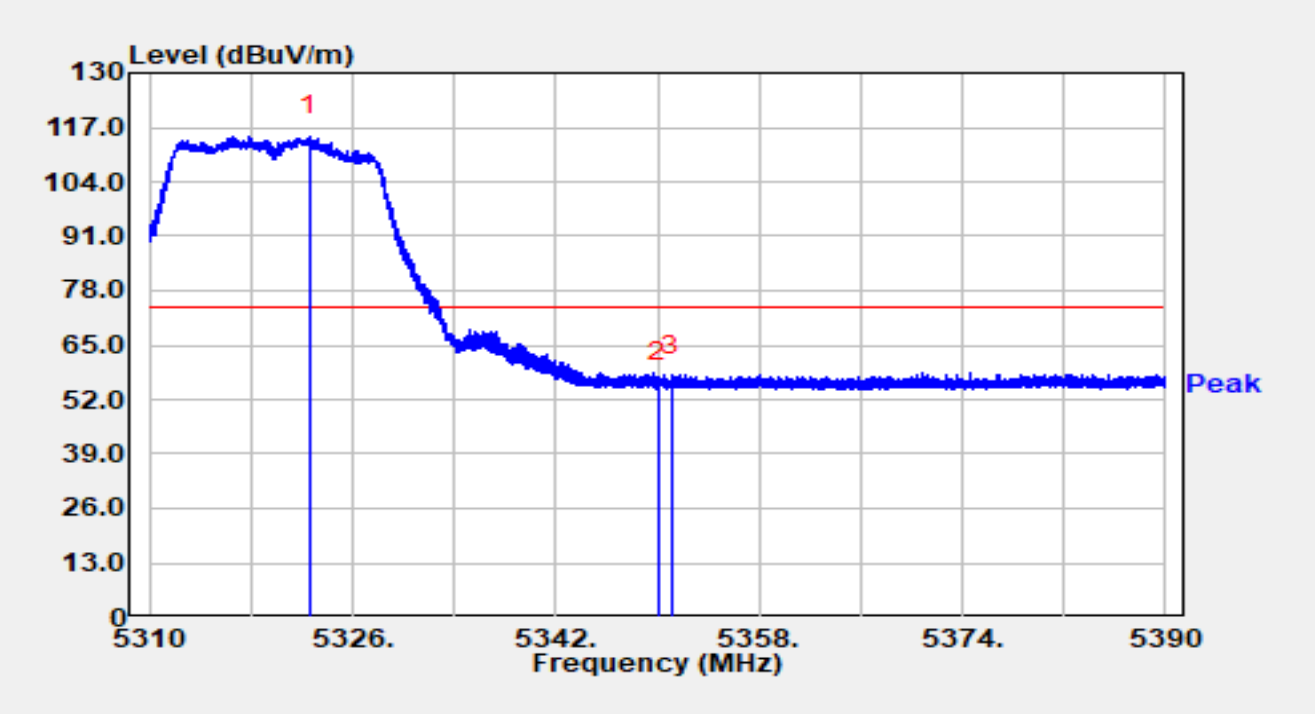
3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

A.8 Radiated Restricted Band Edge Test Result

Refer to MRT original report “2105TW0602-U4” clause 7.8.5

Spot Check Test Data:

Site	WZ-AC2	Test Date	2025-01-23
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11a at 5320MHz		

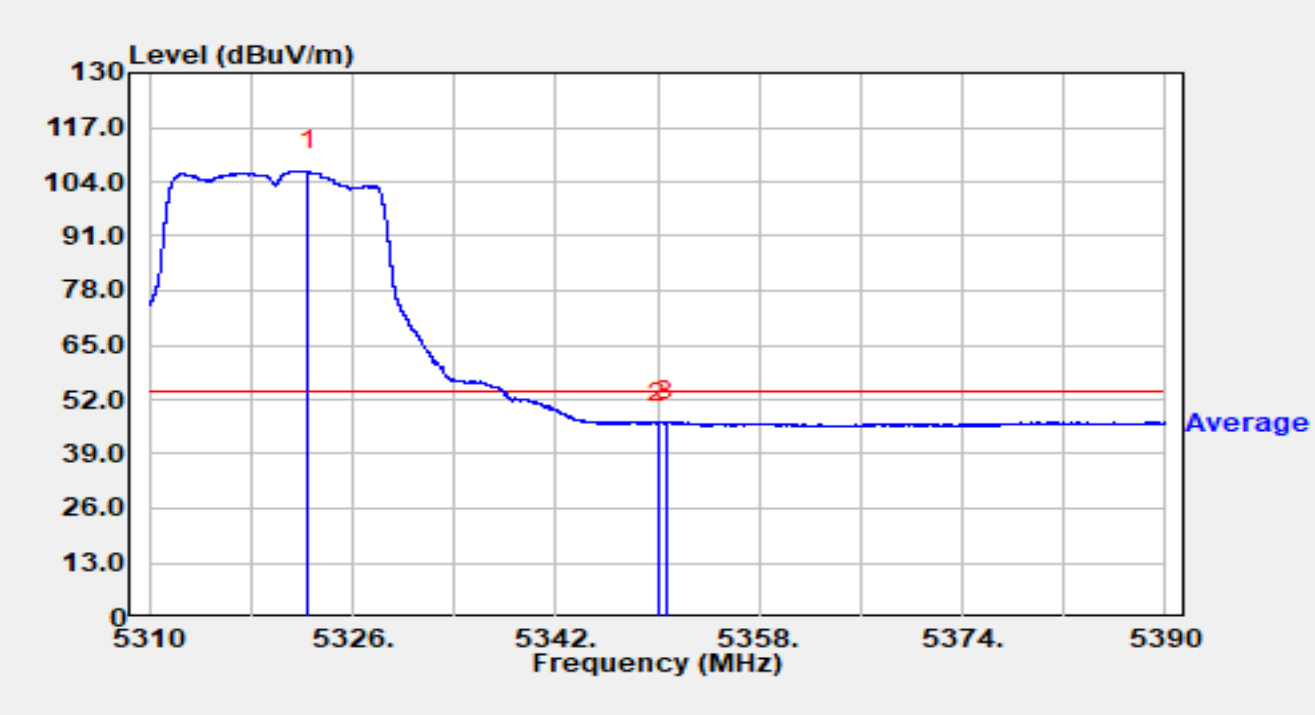


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		5322.600	95.01	19.79	114.80	N/A	N/A	Peak
2		5350.000	36.98	19.40	56.38	-17.62	74.00	Peak
3	*	5351.128	38.49	19.37	57.87	-16.13	74.00	Peak

Notes:

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

Site	WZ-AC2	Test Date	2025-01-23
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11a at 5320MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5322.528	86.87	19.79	106.66	N/A	N/A	Average
2		5350.000	27.11	19.40	46.51	-7.49	54.00	Average
3	*	5350.728	27.25	19.38	46.64	-7.36	54.00	Average

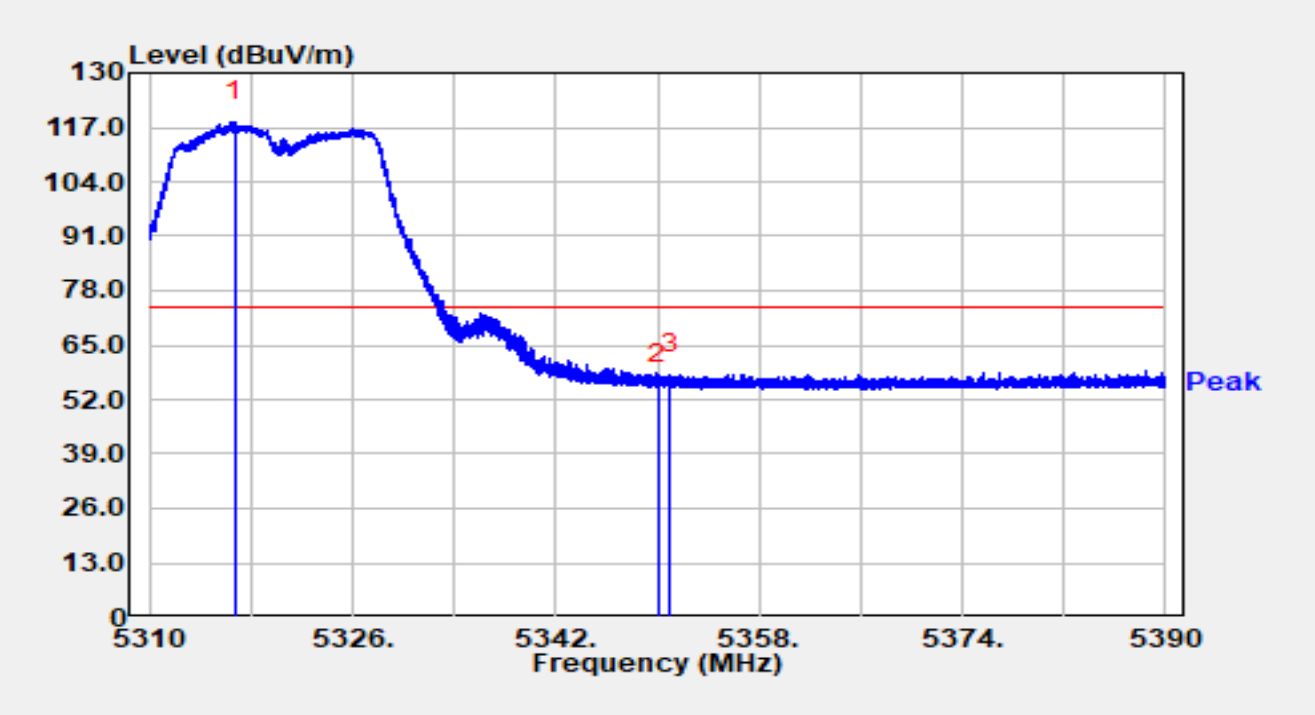
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-23
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11a at 5320MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5316.680	98.64	19.73	118.37	N/A	N/A	Peak
2		5350.000	36.22	19.40	55.62	-18.38	74.00	Peak
3	*	5350.952	38.63	19.38	58.01	-15.99	74.00	Peak

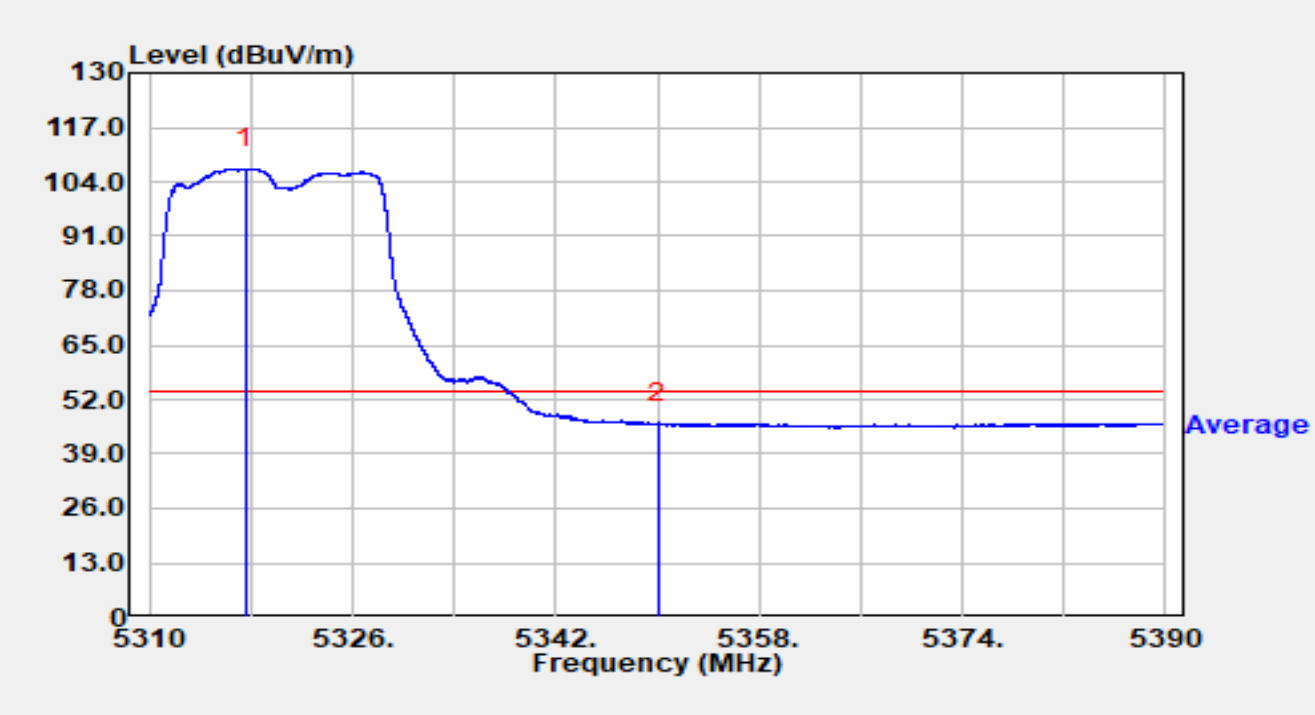
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-23
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11a at 5320MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5317.584	87.40	19.75	107.15	N/A	N/A	Average
2	*	5350.000	26.96	19.40	46.36	-7.64	54.00	Average

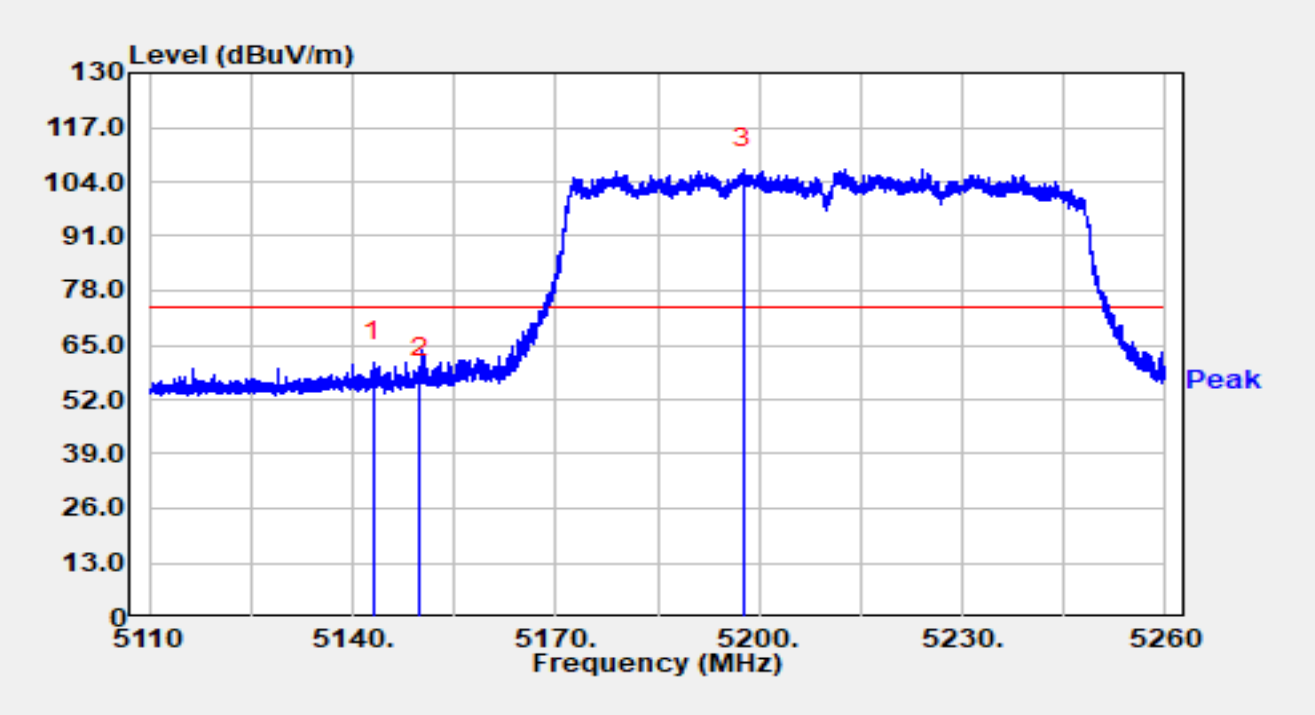
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-21
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80 at Channel 5210MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5143.015	41.24	19.70	60.95	-13.05	74.00	Peak
2		5150.000	37.35	19.78	57.13	-16.87	74.00	Peak
3		5197.675	87.71	19.29	107.00	N/A	N/A	Peak

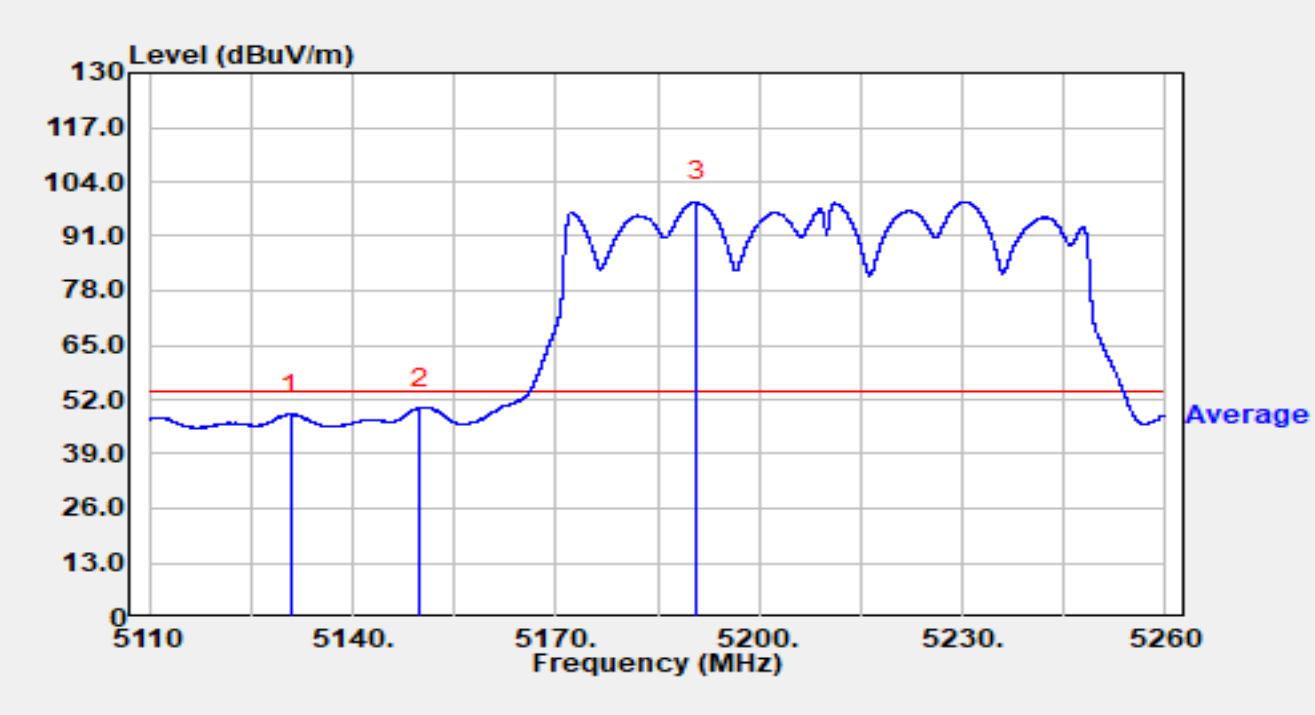
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-21
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80 at Channel 5210MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5130.775	29.02	19.54	48.56	-5.44	54.00	Average
2	*	5150.000	30.16	19.78	49.94	-4.06	54.00	Average
3		5190.745	79.66	19.44	99.10	N/A	N/A	Average

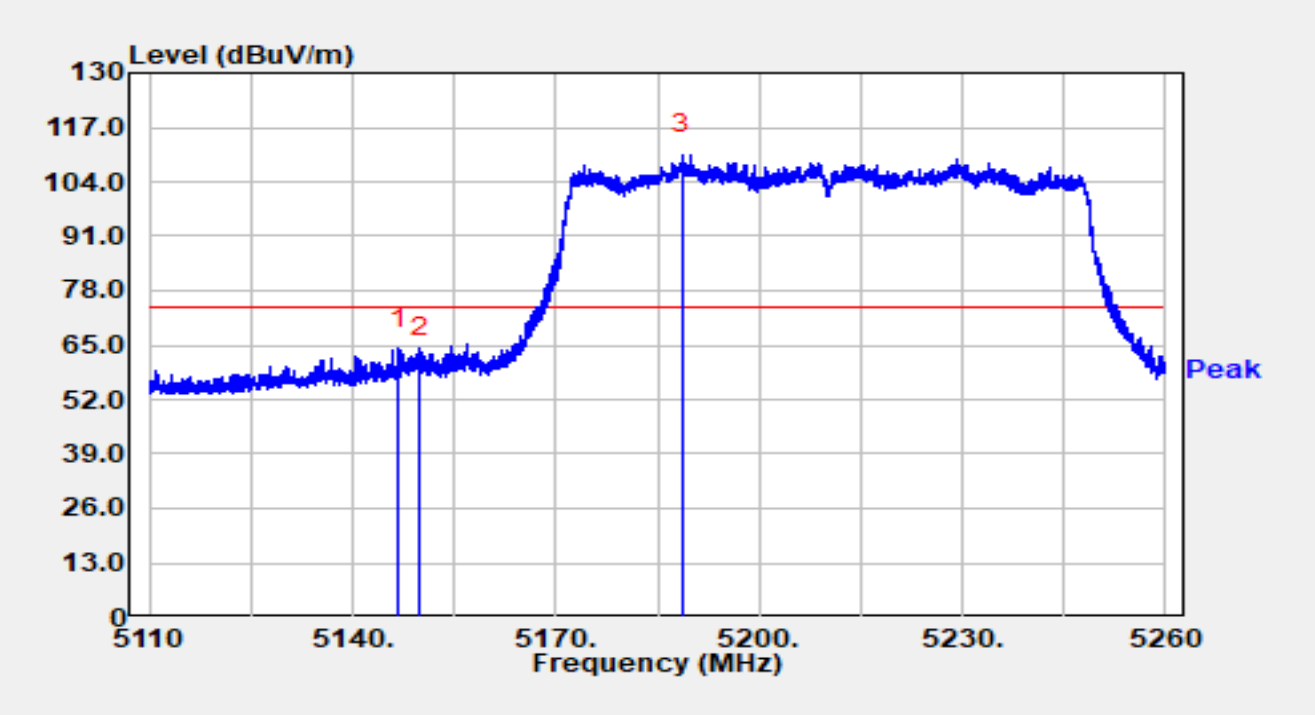
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-21
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80 at Channel 5210MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5146.870	44.32	19.76	64.07	-9.93	74.00	Peak
2		5150.000	42.09	19.78	61.87	-12.13	74.00	Peak
3		5188.720	90.96	19.48	110.44	N/A	N/A	Peak

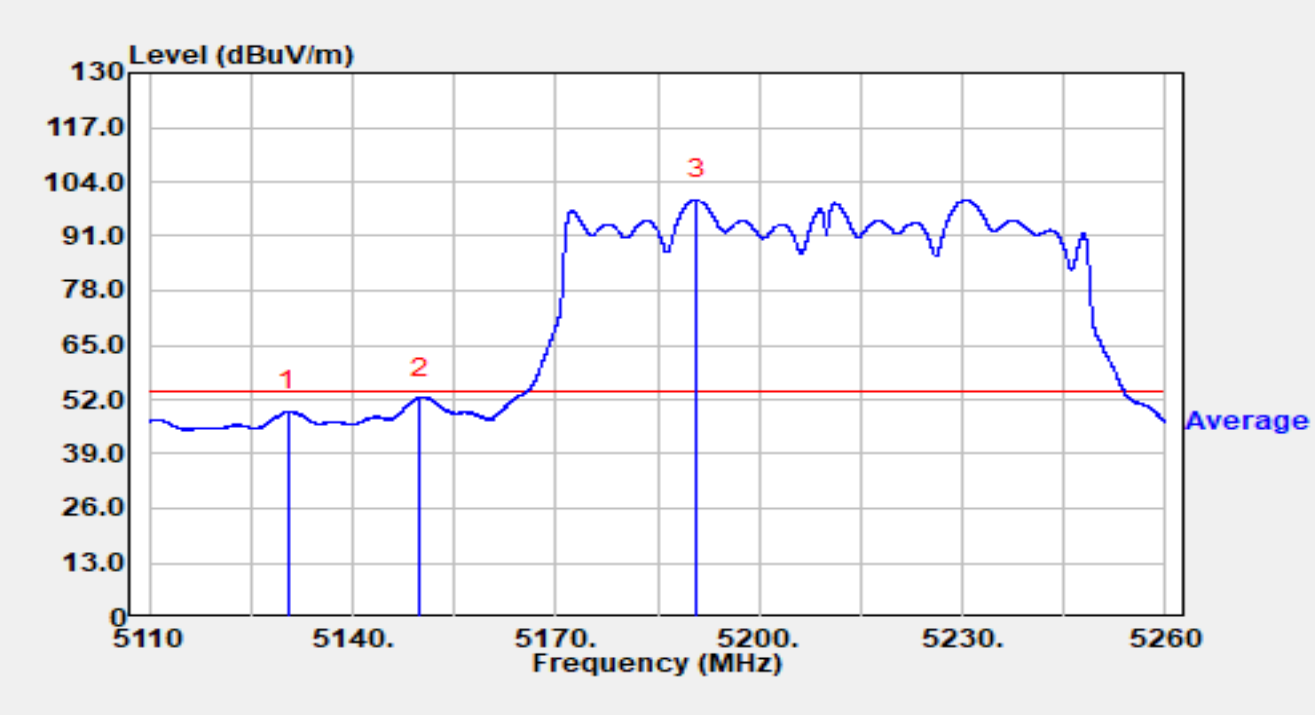
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-21
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80 at Channel 5210MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5130.490	29.56	19.54	49.10	-4.90	54.00	Average
2	*	5150.000	32.61	19.78	52.40	-1.60	54.00	Average
3		5190.775	80.21	19.44	99.65	N/A	N/A	Average

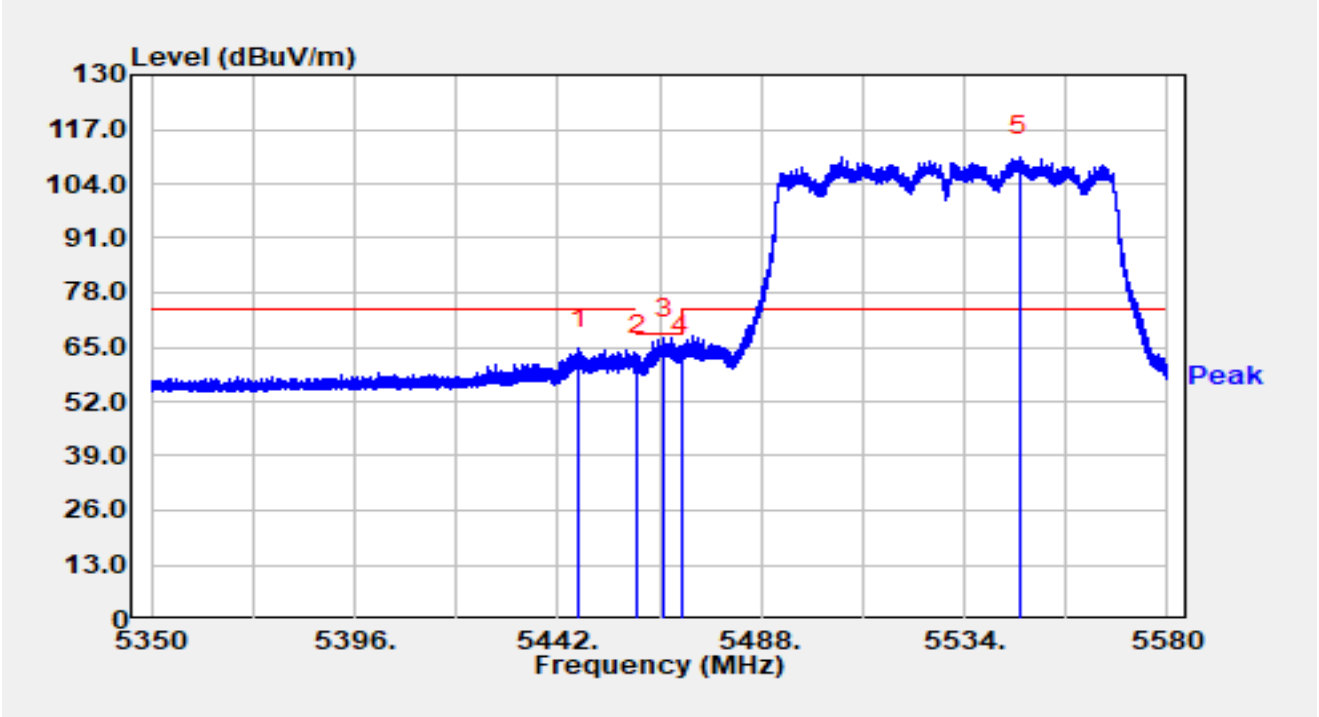
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-23
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80 at 5530MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5446.761	45.08	19.65	64.73	-9.27	74.00	Peak
2		5460.000	43.32	19.74	63.06	-10.94	74.00	Peak
3	*	5466.035	47.32	19.85	67.17	-1.03	68.20	Peak
4		5470.000	42.99	19.92	62.91	-5.29	68.20	Peak
5		5546.420	90.54	20.01	110.55	N/A	N/A	Peak

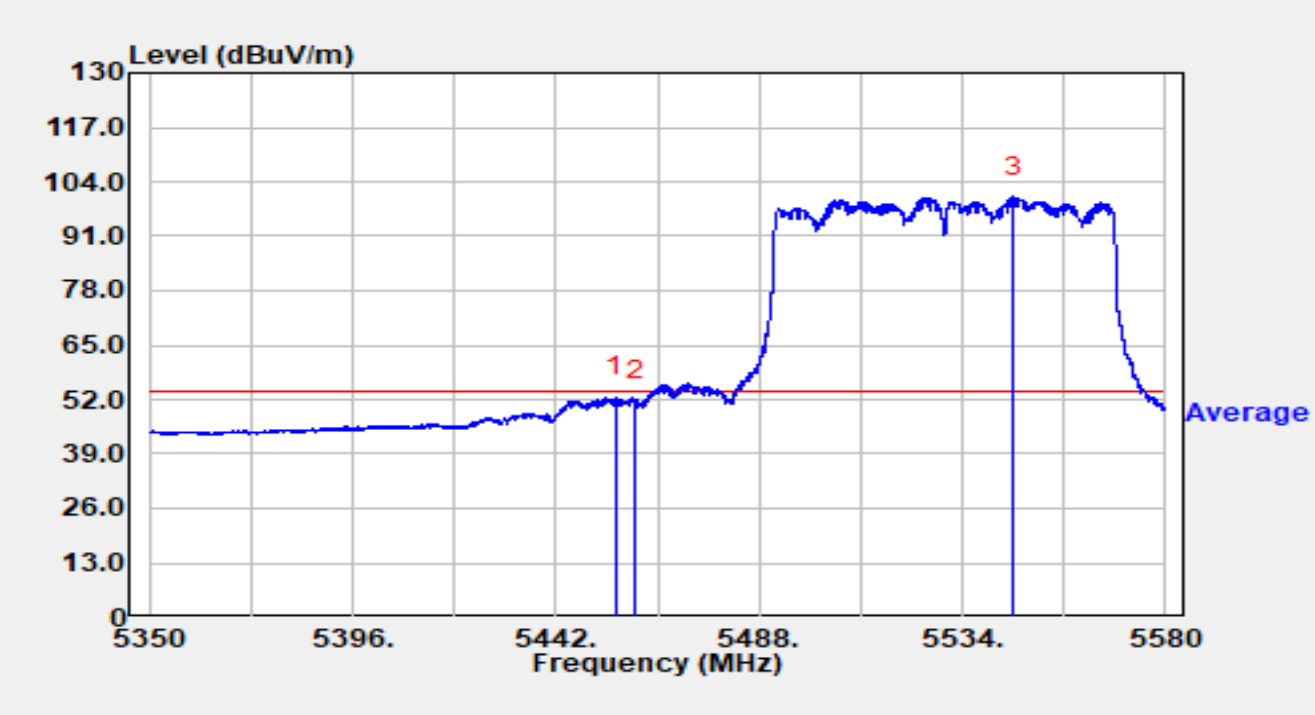
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-23
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80 at 5530MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5455.593	32.91	19.66	52.57	-1.43	54.00	Average
2		5460.000	32.11	19.74	51.85	-2.15	54.00	Average
3		5545.477	80.43	19.99	100.42	N/A	N/A	Average

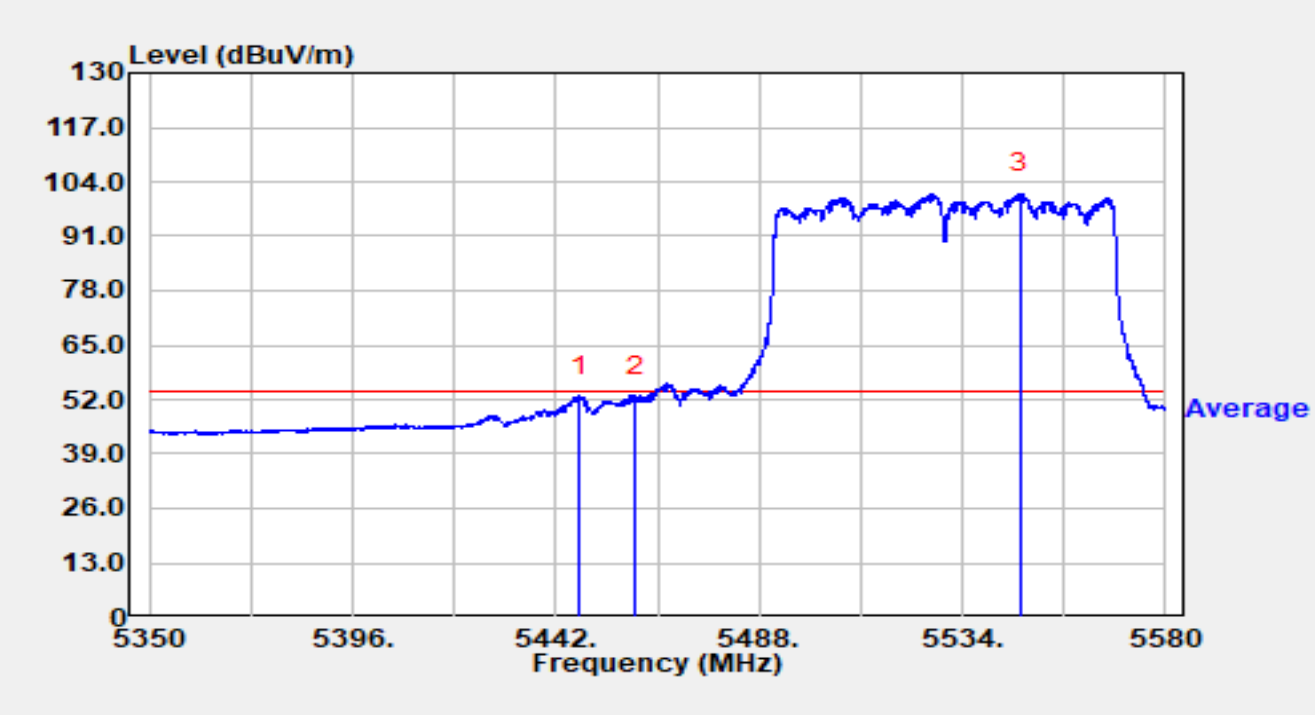
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-23
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80 at 5530MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5447.313	33.19	19.65	52.84	-1.16	54.00	Average
2		5460.000	33.05	19.74	52.80	-1.20	54.00	Average
3	*	5547.087	81.17	20.03	101.19	N/A	N/A	Average

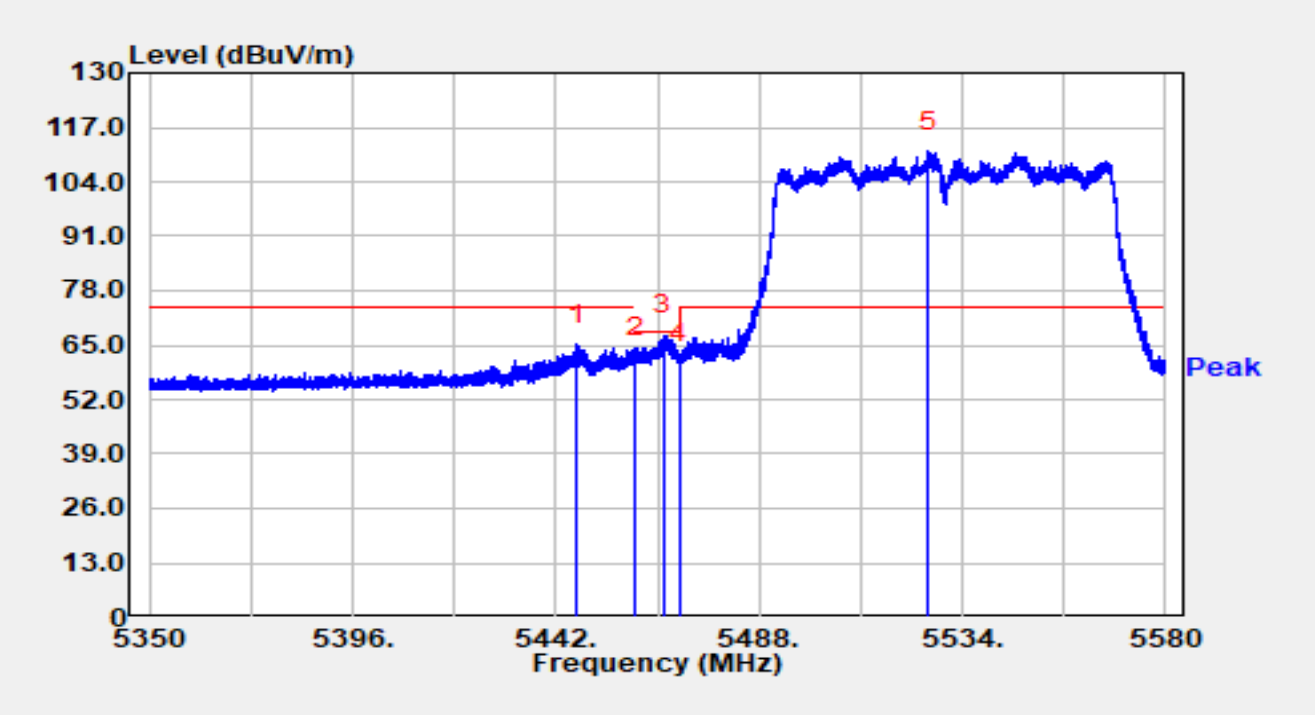
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-23
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80 at 5530MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5446.807	45.35	19.65	65.01	-8.99	74.00	Peak
2		5460.000	42.42	19.74	62.16	-11.84	74.00	Peak
3		5466.334	47.48	19.86	67.33	-0.87	68.20	Peak
4		5470.000	40.71	19.92	60.63	-7.57	68.20	Peak
5	*	5526.226	91.61	19.59	111.20	N/A	N/A	Peak

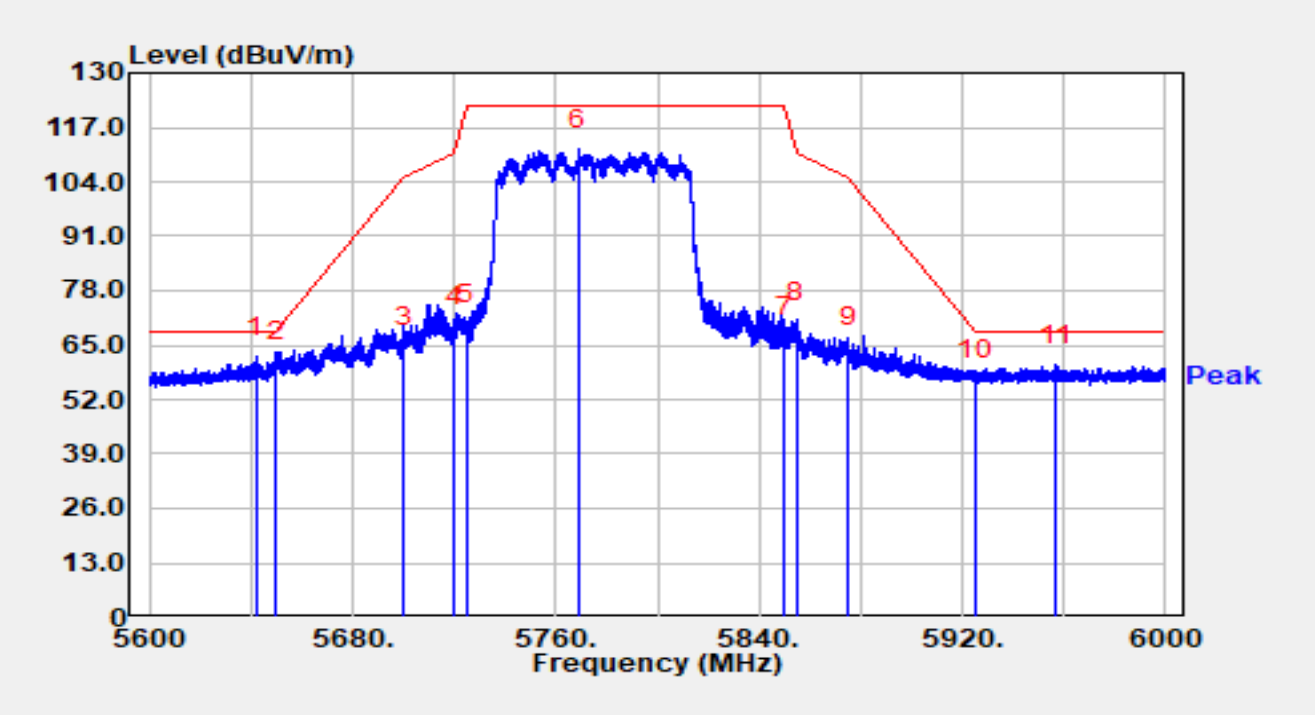
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-23
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5.8G_RE(3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80 at 5775MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5642.200	41.50	20.67	62.18	-6.02	68.20	Peak
2		5650.000	40.45	20.60	61.05	-7.15	68.20	Peak
3		5700.000	43.44	20.96	64.40	-40.80	105.20	Peak
4		5720.000	48.35	21.20	69.55	-41.25	110.80	Peak
5		5725.000	48.77	21.24	70.01	-52.19	122.20	Peak
6		5768.960	90.47	21.25	111.73	N/A	N/A	Peak
7		5850.000	45.67	21.49	67.16	-55.04	122.20	Peak
8		5855.000	48.63	21.54	70.17	-40.63	110.80	Peak
9		5875.000	43.08	21.60	64.68	-40.52	105.20	Peak
10		5925.000	35.16	21.59	56.75	-11.45	68.20	Peak
11		5956.760	38.46	21.64	60.11	-8.09	68.20	Peak

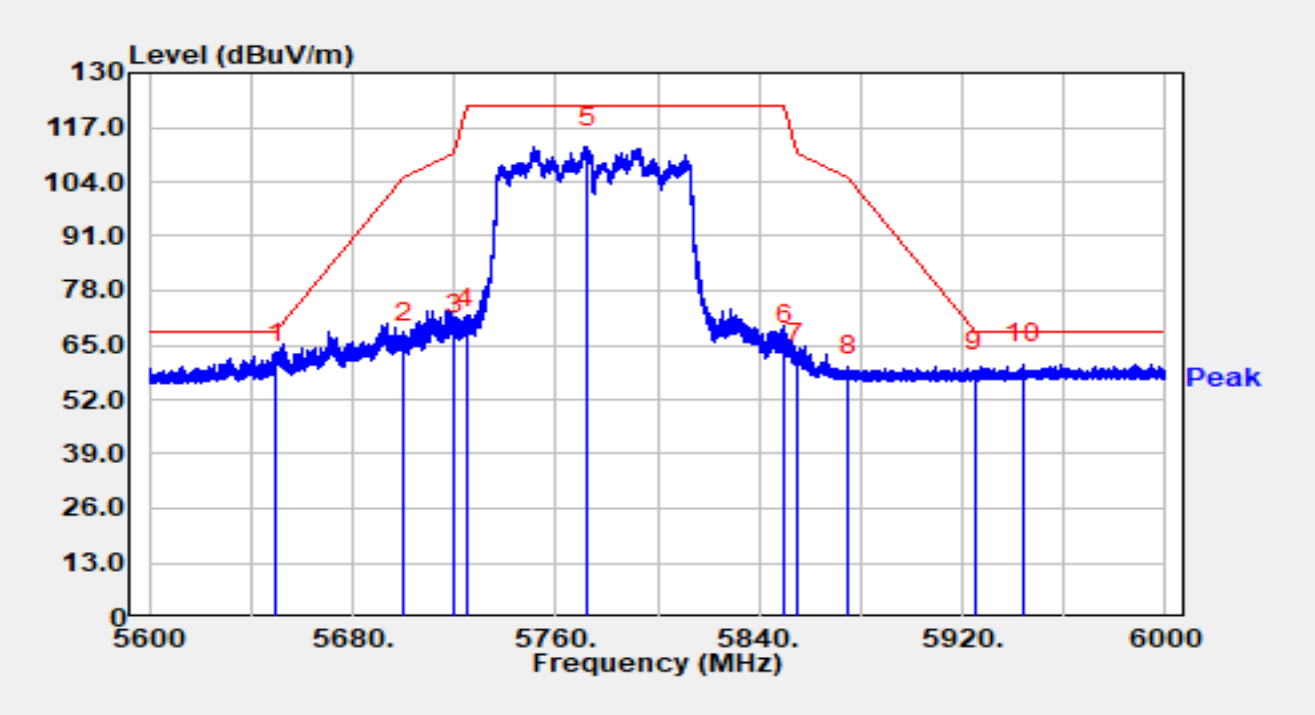
Notes:

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).

Site	WZ-AC2	Test Date	2025-01-23
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5.8G_RE(3m)	Test Engineer	Ajin Fan
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80 at 5775MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1		5650.000	39.84	20.60	60.44	-7.76	68.20	Peak
2		5700.000	44.35	20.96	65.31	-39.89	105.20	Peak
3		5720.000	46.33	21.20	67.53	-43.27	110.80	Peak
4		5725.000	47.72	21.24	68.96	-53.24	122.20	Peak
5		5772.600	91.01	21.30	112.31	N/A	N/A	Peak
6		5850.000	43.39	21.49	64.88	-57.32	122.20	Peak
7		5855.000	38.85	21.54	60.39	-50.41	110.80	Peak
8		5875.000	36.01	21.60	57.61	-47.59	105.20	Peak
9		5925.000	37.17	21.59	58.76	-9.44	68.20	Peak
10	*	5944.360	38.82	21.65	60.46	-7.74	68.20	Peak

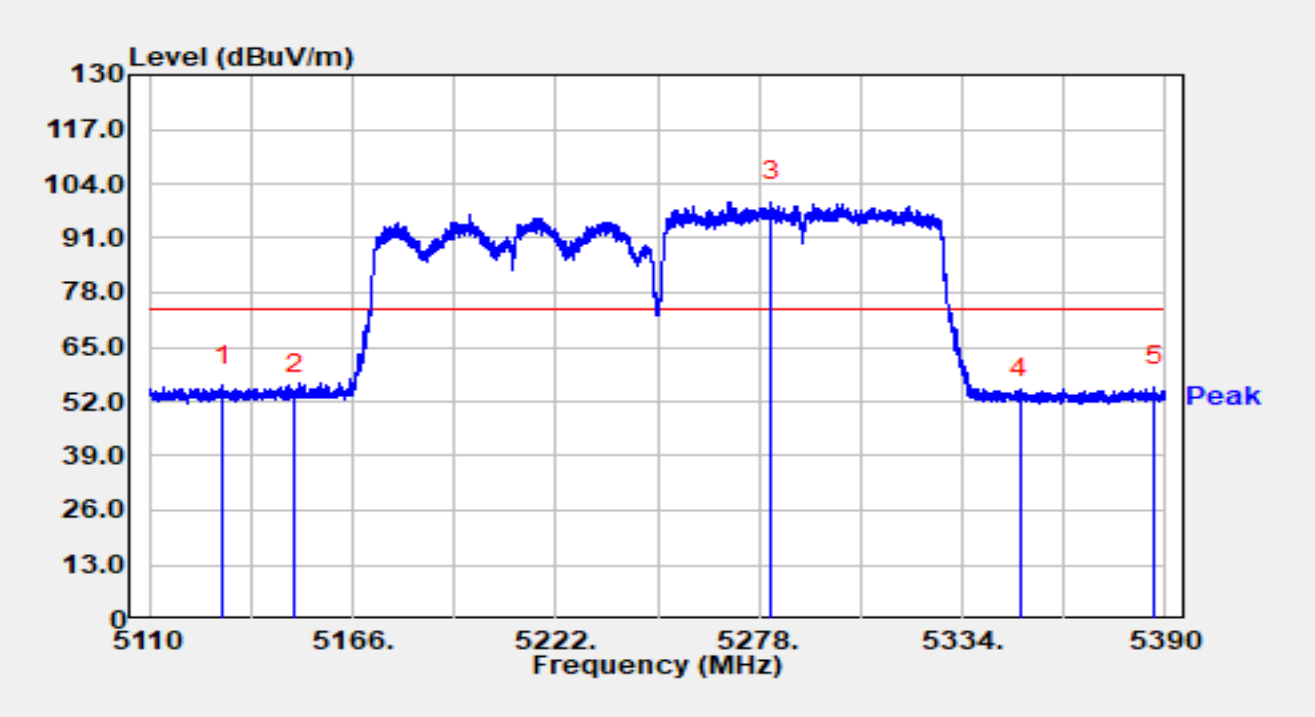
Notes:

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).

Site	WZ-AC2	Test Date	2025-01-21
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80+80 at Channel 5210+5290MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5130.300	36.30	19.54	55.84	-18.16	74.00	Peak
2		5150.000	33.93	19.78	53.72	-20.28	74.00	Peak
3		5281.360	80.71	19.09	99.80	N/A	N/A	Peak
4		5350.000	33.42	19.40	52.82	-21.18	74.00	Peak
5		5386.920	35.77	19.75	55.53	-18.47	74.00	Peak

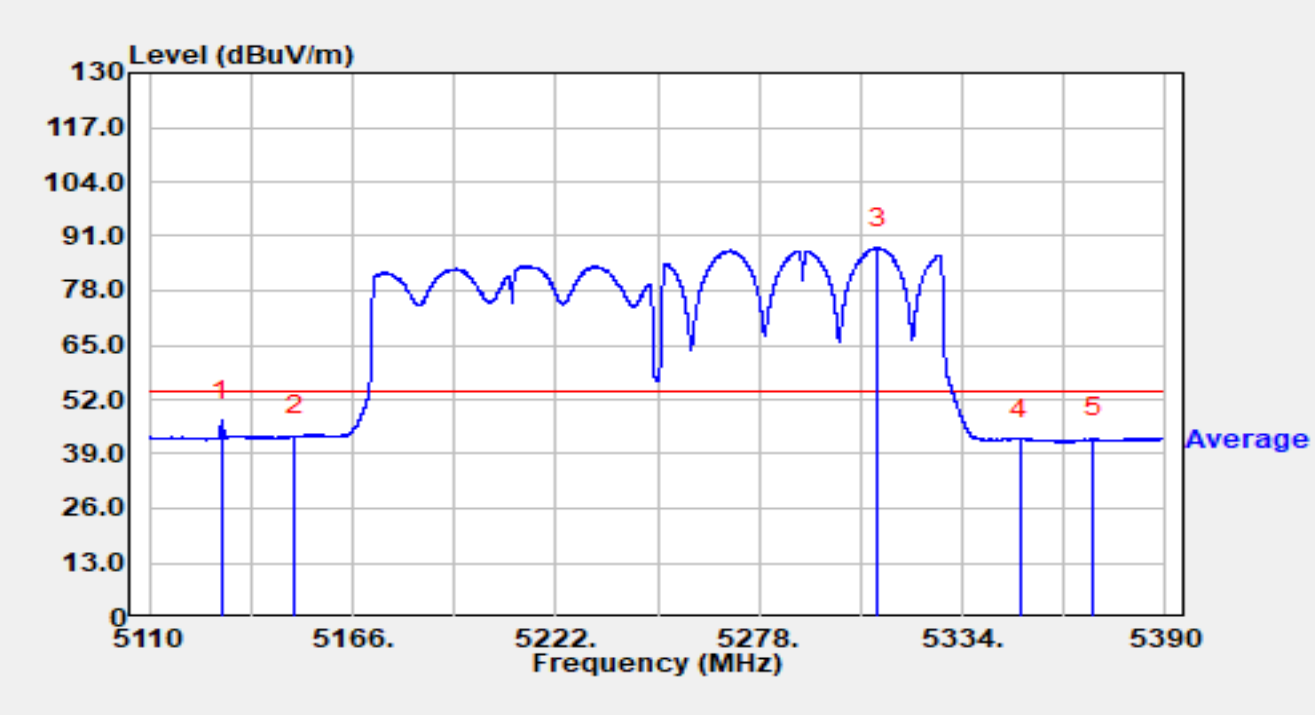
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-21
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80+80 at Channel 5210+5290MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5129.964	27.36	19.54	46.90	-7.10	54.00	Average
2		5150.000	23.44	19.78	43.22	-10.78	54.00	Average
3		5310.564	68.72	19.58	88.30	N/A	N/A	Average
4		5350.000	23.21	19.40	42.61	-11.39	54.00	Average
5		5370.120	23.52	19.35	42.87	-11.13	54.00	Average

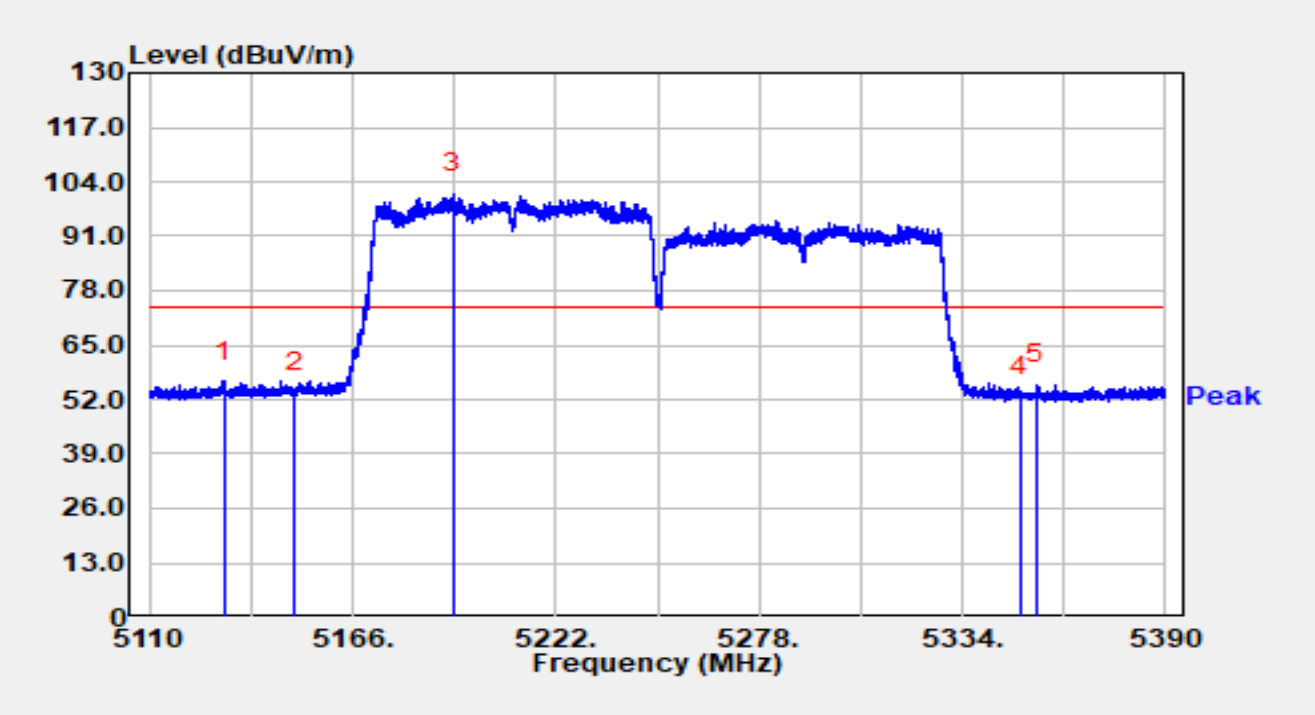
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-21
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80+80 at Channel 5210+5290MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5130.776	36.79	19.54	56.33	-17.67	74.00	Peak
2		5150.000	34.15	19.78	53.93	-20.07	74.00	Peak
3		5193.664	81.74	19.38	101.12	N/A	N/A	Peak
4		5350.000	33.11	19.40	52.51	-21.49	74.00	Peak
5		5354.356	36.14	19.35	55.48	-18.52	74.00	Peak

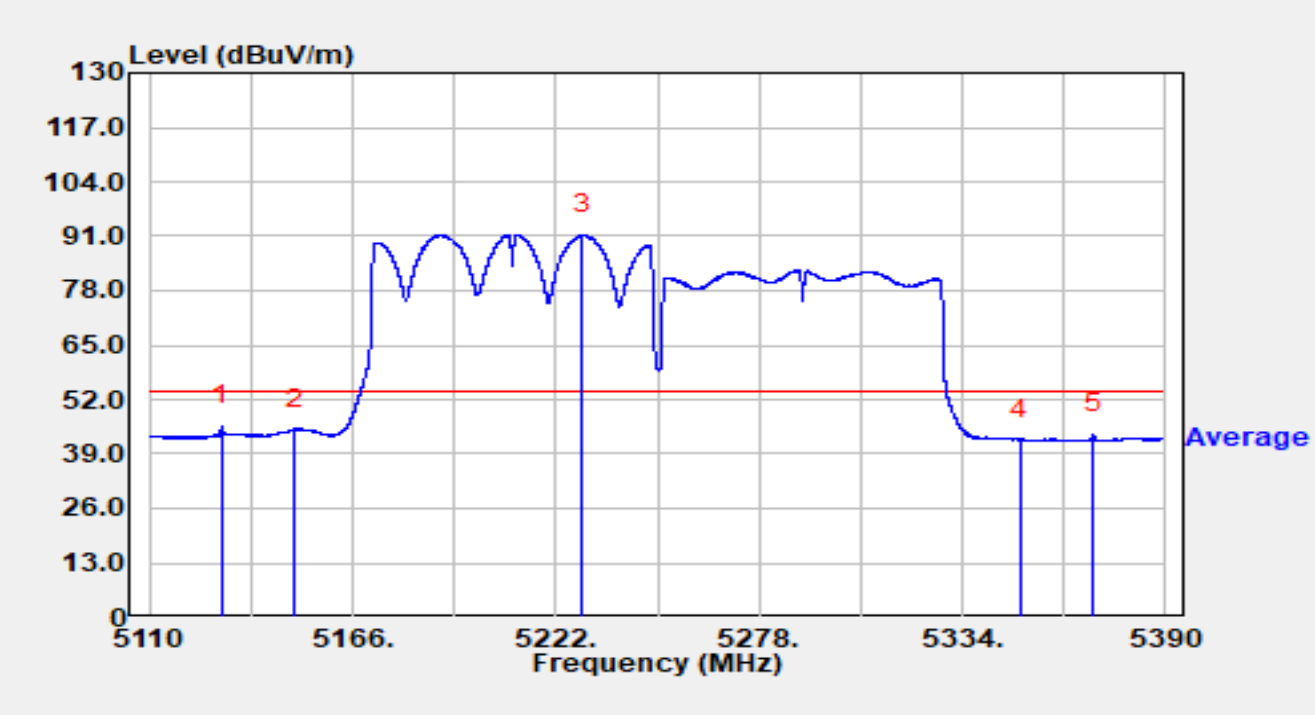
Notes:

1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + Attenuation (dB) - AMP (dB).

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

Site	WZ-AC2	Test Date	2025-01-21
Temperature	22.9 °C	Humidity	29.9 %
Limit	FCC_5G_RE(3m)	Test Engineer	Jerry Lu
Factor	BBHA 9120D_01457	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ac-VHT80+80 at Channel 5210+5290MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5129.992	26.20	19.54	45.74	-8.26	54.00	Average
2		5150.000	24.87	19.78	44.66	-9.34	54.00	Average
3		5229.140	71.82	19.48	91.30	N/A	N/A	Average
4		5350.000	23.05	19.40	42.45	-11.55	54.00	Average
5		5369.952	24.37	19.34	43.71	-10.29	54.00	Average

Notes:

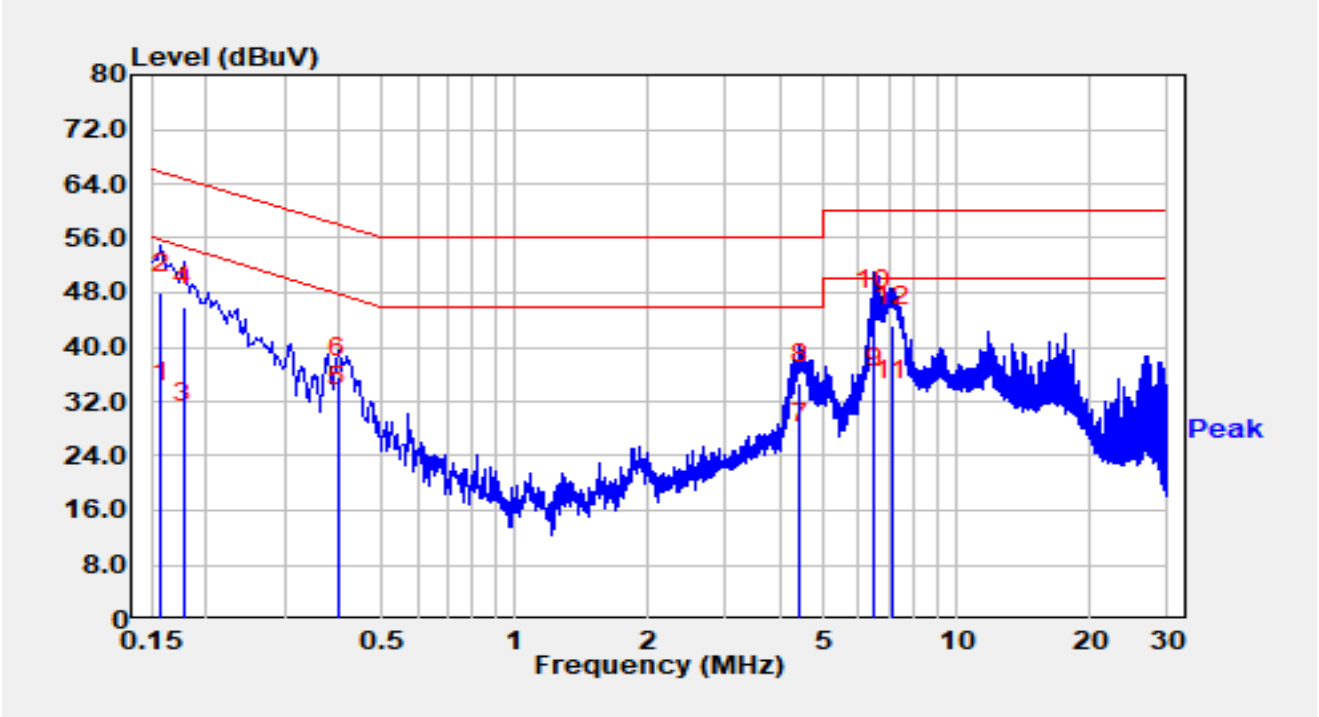
1. " * ", means this data is the worst emission level.

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 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 802.11ax-HE20 at 5180MHz		

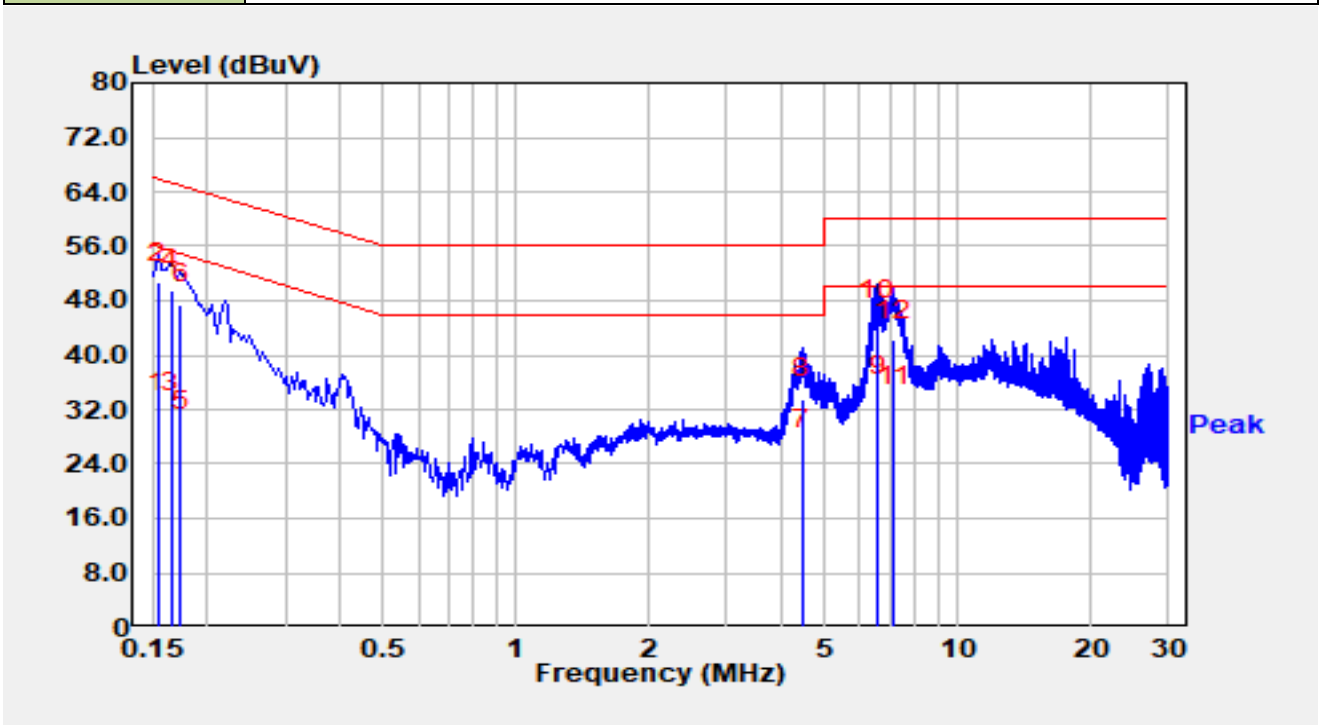


No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB)	Measurement (dBµV)	Margin (dB)	Limit (dBµV)	Detector
1		0.158	22.00	9.82	31.82	-23.75	55.57	Average
2		0.158	38.10	9.82	47.92	-17.65	65.57	QP
3		0.178	18.90	9.82	28.72	-25.86	54.58	Average
4		0.178	36.20	9.82	46.02	-18.56	64.58	QP
5		0.398	21.40	9.88	31.28	-16.61	47.90	Average
6		0.398	25.70	9.88	35.58	-22.31	57.90	QP
7		4.400	15.50	10.19	25.69	-20.31	46.00	Average
8		4.400	24.40	10.19	34.59	-21.41	56.00	QP
9		6.500	23.60	10.24	33.84	-16.16	50.00	Average
10	*	6.500	35.20	10.24	45.44	-14.56	60.00	QP
11		7.130	21.80	10.26	32.06	-17.94	50.00	Average
12		7.130	32.90	10.26	43.16	-16.84	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 (dBμV) = Reading (dBμV) + 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 802.11ax-HE20 at 5180MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB)	Measurement (dBµV)	Margin (dB)	Limit (dBµV)	Detector
1		0.154	21.30	10.13	31.43	-24.35	55.78	Average
2		0.154	40.50	10.13	50.63	-15.15	65.78	QP
3		0.166	21.50	10.12	31.62	-23.54	55.16	Average
4		0.166	39.40	10.12	49.52	-15.64	65.16	QP
5		0.174	18.80	10.12	28.92	-25.85	54.77	Average
6		0.174	37.40	10.12	47.52	-17.25	64.77	QP
7		4.450	15.60	10.44	26.04	-19.96	46.00	Average
8		4.450	23.10	10.44	33.54	-22.46	56.00	QP
9		6.580	23.60	10.50	34.10	-15.90	50.00	Average
10	*	6.580	34.60	10.50	45.10	-14.90	60.00	QP
11		7.190	21.90	10.52	32.42	-17.58	50.00	Average
12		7.190	31.60	10.52	42.12	-17.88	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 (dBμV) = Reading (dBμV) + C.F (dB).

Appendix B – Test Setup Photograph

Refer to “2412RSU040-UT” file.

Appendix C – EUT Photograph

Refer to “2412RSU040-UE” file.

The End