

TEST REPORT

Applicant: NovaFly LLC
Address: 2108 N ST STE N, Sacramento, California 95816,
United States
Equipment Type: Communication Module
Model Name: WNCBZNF
Brand Name: N/A
FCC ID: 2BVFT-WNCBZNF
Test Standard: 47 CFR Part 15 Subpart E
(refer to section 3.1)
Sample Arrival Date: Aug. 06, 2026
Test Date: Aug. 11, 2026 - Sep. 01, 2026
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Li Renyu**Checked by:** Li Ganming**Approved by:** Tolan Tu

(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Sep. 17, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☐ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	NovaFly LLC
Address	2108 N ST STE N, Sacramento, California 95816, United States

2.2 Manufacturer Information

Manufacturer	N/A
Address	N/A

2.3 General Description for Equipment under Test (EUT)

EUT Name	Communication Module
Model Name Under Test	WNCBZNF
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.0
Software Version	V1.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-3: 5725 MHz to 5850 MHz	
Product Type	☒ Mobile ☐ Portable ☐ Fix Location	
Modulation Technology	OFDM, OFDMA	
Modulation Type	1024QAM, 256QAM, 64QAM, 16QAM, BPSK, QPSK	
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz 802.11ax: 20 MHz, 40 MHz, 80 MHz	
Maximum Output Power	U-NII-3: 190.49 mW	
Antenna System (eg., MIMO, Smart Antenna)	Cyclic Delay Diversity (CDD) for 802.11a Multi Input Multi Output (MIMO) for 802.11n/ac/ax	
Categorization as Correlated or Completely Uncorrelated	Categorization as Correlated for 802.11a Categorization as Uncorrelated for 802.11n/ac/ax	
Antenna Type	ANT0 ANT1	Dipole Antenna
Antenna Gain	ANT0 ANT1	
Total directional gain	For power spectral density(PSD) measurements	Correlated: U-NII-3: 5725 MHz to 5850 MHz: 4.01 dBi Formulas: Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi Uncorrelated: U-NII-3: 5725 MHz to 5850 MHz: 1.00 dBi Formulas: Directional gain = G_{ANT}
	For power measurements	Correlated: U-NII-3: 5725 MHz to 5850 MHz: 4.01 dBi Formulas: Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi Uncorrelated: U-NII-3: 5725 MHz to 5850 MHz: 1.00 dBi Formulas: Directional gain = G_{ANT}
About the Product	The equipment is Communication Module, intended for used with information technology equipment.	

Mode	Antenna		
	ANT0	ANT1	MIMO
802.11a	√	√	√
802.11n20	√	√	√
802.11n40	√	√	√
802.11ac20	√	√	√
802.11ac40	√	√	√
802.11ac80	√	√	√
802.11ax20	√	√	√
802.11ax40	√	√	√
802.11ax80	√	√	√
Note: All the configurations were tested, but only the worst data was shown in this report.			

802.11ax RU configuration table							
Mode	Full RU (SU)	RU_26	RU_52	RU_106	RU_242	RU_484	RU_996
802.11ax20	√	--	--	--	--	--	--
802.11ax40	√	--	--	--	--	--	--
802.11ax80	√	--	--	--	--	--	--

Note: The above EUT information in section 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.5 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

The Lowest frequency, the middle frequency and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20)/ac(VHT20)/ax(HE20)

U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)
149	Low	5745
157	Mid	5785
165	High	5825

For 802.11n(HT40)/ac(VHT40)/ax(HE40)

U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)
151	Low	5755
159	High	5795

For 802.11ac(VHT80)/ax(HE80)

U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)
155	Mid	5775

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Modulation Type	U-NII-3
				Channel
RF Output Power	11a	6	BPSK	165/157/149
	11n(20 MHz)	6.5		165/157/149
	11n(40 MHz)	13.5		159/151
	11ac(20 MHz)	6.5		165/157/149
	11ac(40 MHz)	13.5		159/151
	11ac(80 MHz)	29.3		155
	11ax(20 MHz)	8.6		165/157/149
	11ax(40 MHz)	17.2		159/151
	11ax(80 MHz)	36.0		155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	165/157/149
	11n(20 MHz)	6.5		165/157/149
	11n(40 MHz)	13.5		159/151
	11ac(20 MHz)	6.5		165/157/149
	11ac(40 MHz)	13.5		159/151
	11ac(80 MHz)	29.3		155
	11ax(20 MHz)	8.6		165/157/149
	11ax(40 MHz)	17.2		159/151
	11ax(80 MHz)	36.0		155
6 dB bandwidth	11a	6	BPSK	165/157/149
	11n(20 MHz)	6.5		165/157/149
	11n(40 MHz)	13.5		159/151
	11ac(20 MHz)	6.5		165/157/149
	11ac(40 MHz)	13.5		159/151
	11ac(80 MHz)	29.3		155
	11ax(20 MHz)	8.6		165/157/149
	11ax(40 MHz)	17.2		159/151
	11ax(80 MHz)	36.0		155
Power Spectral Density	11a	6	BPSK	165/157/149
	11n(20 MHz)	6.5		165/157/149
	11n(40 MHz)	13.5		159/151
	11ac(20 MHz)	6.5		165/157/149
	11ac(40 MHz)	13.5		159/151
	11ac(80 MHz)	29.3		155
	11ax(20 MHz)	8.6		165/157/149
	11ax(40 MHz)	17.2		159/151
	11ax(80 MHz)	36.0		155

Radiated Spurious Emissions	11a	6	BPSK	165/157/149
	11n(20 MHz)	6.5		165/157/149
	11n(40 MHz)	13.5		159/151
	11ac(20 MHz)	6.5		165/157/149
	11ac(40 MHz)	13.5		159/151
	11ac(80 MHz)	29.3		155
	11ax(20 MHz)	8.6		165/157/149
	11ax(40 MHz)	17.2		159/151
	11ax(80 MHz)	36.0		155
Band Edge (Restricted-band)	11a	6	BPSK	165/149
	11n(20 MHz)	6.5		165/149
	11n(40 MHz)	13.5		159/151
	11ac(20 MHz)	6.5		165/149
	11ac(40 MHz)	13.5		159/151
	11ac(80 MHz)	29.3		155
	11ax(20 MHz)	8.6		165/149
	11ax(40 MHz)	17.2		159/151
	11ax(80 MHz)	36.0		155

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
4	ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024	American National Standard for Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Test Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass ^{Note 1}
2	RF Output Power	15.407(a)	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	ANNEX A.6	Pass

Note ¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note ²: Under all normal operating conditions specified in the user manual, frequency stability can keep radiation within the operating frequency band.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	44% to 65%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.8℃ to +24.9℃
Working Voltage of the EUT	NV (Normal Voltage)	8 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2026.06.01	2027.05.31
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2026.03.07	2027.03.06
Spectrum Analyzer	KEYSIGHT	N9020A	MY54432240	2026.03.24	2027.03.23
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2025.02.22	2028.02.21
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	EMC Electronic Co, Ltd	9m*6m*6m	213	2026.03.03	2028.03.02
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2026.05.20	2027.05.19
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2026.05.20	2027.05.19
Amplifier	COM-MV	KA LNA18 40G-01	10248150	2025.12.04	2026.12.03
EMI Receiver	KEYSIGHT	N9048B	MY59290112	2026.01.28	2027.01.27
Amplifier(30MHz-1GHz)	COM-MV	ZT30-1000M	10233263	2026.04.23	2027.04.22
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	1884	2025.11.23	2028.11.22
Anechoic Chamber (#4)	Changning	9m*6m*6m	107-1	2026.01.09	2029.01.08
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2025.09.25	2026.09.24
LISN	SCHWARZBECK	NSLK 8127	8127-687	2026.03.25	2027.03.24
ISN	TESEQ	ISN T800	34449	2025.10.20	2026.10.19
ISN	TESEQ	ISN T8-Cat6	53561	2026.05.29	2027.05.28
Shielded Room	Chang Chuang	4m*4m*3m	662	2025.10.12	2028.10.11

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 Measurement Uncertainty

The following measurement 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.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

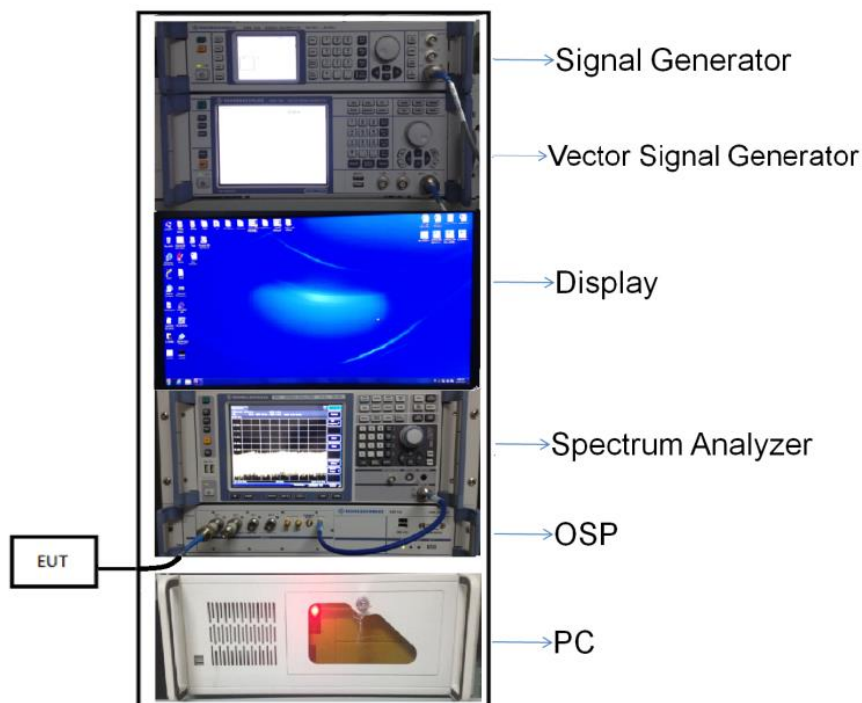
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

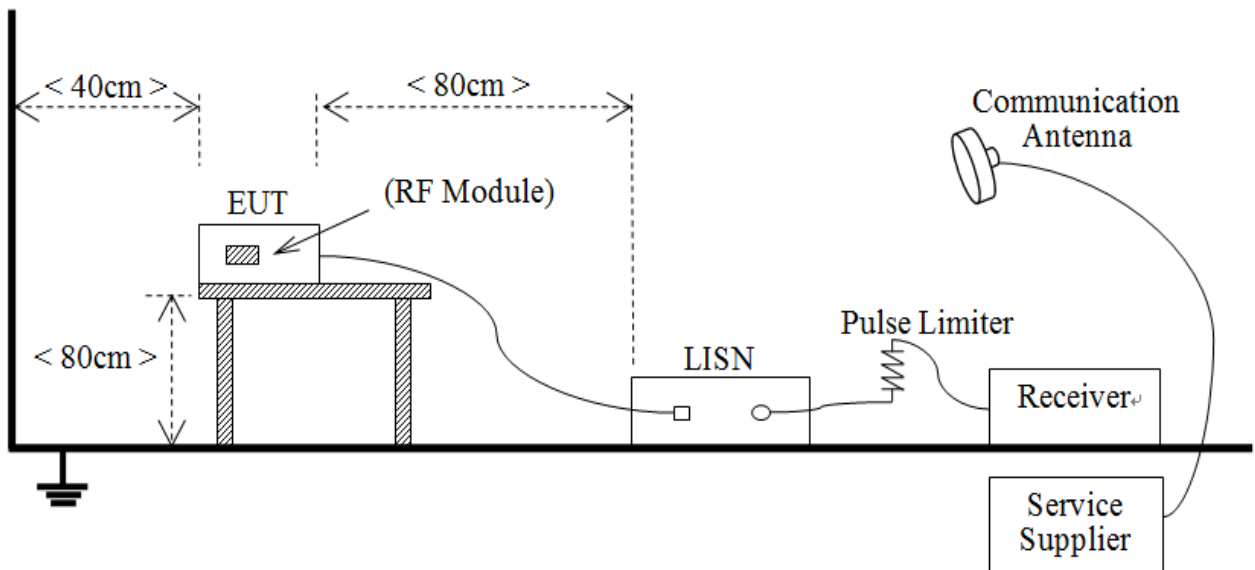
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



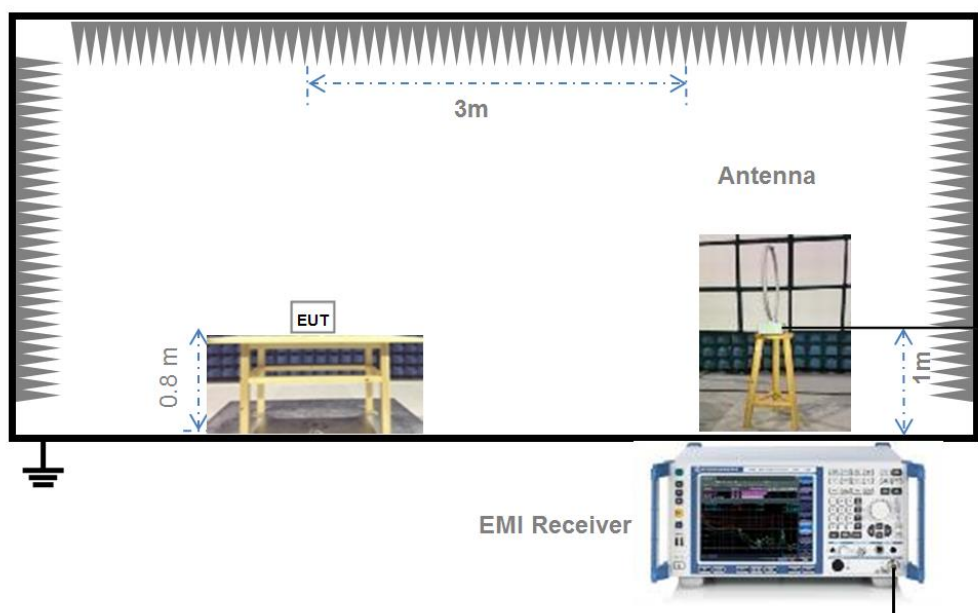
(Diagram 1)

4.5.2 For AC Power Supply Port Test



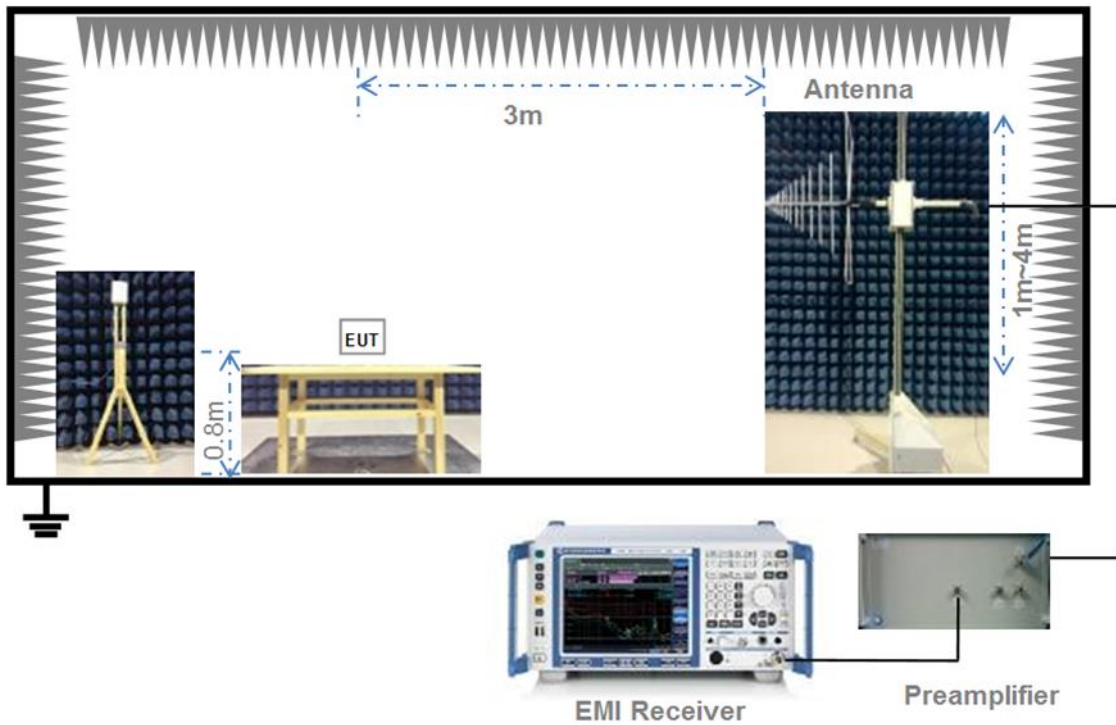
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



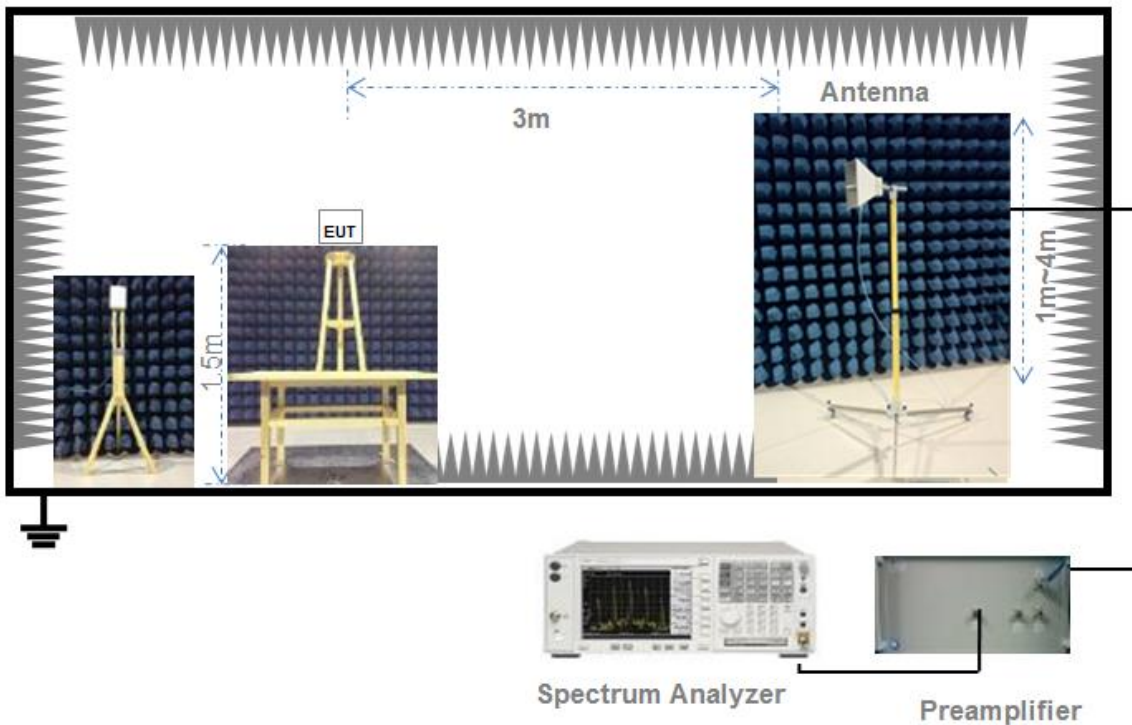
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

Frequency Band (MHz)	Limit
5150-5250	250 mW
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where “B” is the 26 dB emissions bandwidth in MHz.z	

5.1.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

Maximum conducted (average) output power

a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- 1) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.

c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

d) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW $\geq$ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

The E.I.R.P used radiated test method. At a test site that has been validated using the procedures of ANSI C63.10 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.2.2 Test Setup

The test setup photo please refer to 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW $\geq$ RBW,
3. Detector = Peak.
4. Trace mode = Max hold.
5. 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%.

Occupied 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. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used. Use the 99% power bandwidth function of the instrument.
6. Use the 99% power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

6 dB bandwidth

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 kHz for the band 5.725–5.85 GHz. The following procedure shall be used for measuring this bandwidth:

1. Set RBW = 100 kHz,
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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.

5.2.4 Test Result

Please refer to ANNEX A.2 and ANNEX A.3.

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	11 dBm/MHz
5250-5350	11 dBm/MHz
5470-5725	11 dBm/MHz
5725-5850	30 dBm/500kHz

5.3.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth:

1. Measure the duty cycle, x , of the transmitter output signal as described in II.B.
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 510 kHz/1 MHz.
4. Set VBW $\geq 3 \times$ RBW.
5. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
8. Do not use sweep triggering. Allow the sweep to “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. Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
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 $10 \log (1/0.25) = 6 \text{ dB}$ if the duty cycle is 25%.

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the U-NII-150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.4.2 Test Setup

The section 4.5.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

5.4.4 Test Result

Please refer to ANNEX A.5.

5.5 Radiated Spurious Emissions and Band Edge (Restricted-band)

5.5.1 Limit

FCC §15.209 & 15.407(b)

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note ¹: The Limit for radiated test was performed according to FCC Part 15C

Note ²: The tighter limit applies at the band edge.

5.5.2 Test Setup

The section 4.5.3-4.5.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Radiated Spurious Emissions:

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands

- Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz)

MHz).

d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).

e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

f) Compare the resultant electric field strength level to the applicable limit.

g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

a) RBW = as specified in Table 1.

b) VBW $\geq 3 \times$ RBW.

c) Detector = Peak.

d) Sweep time = auto.

e) Trace mode = max hold.

f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

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

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to

perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting

antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Band Edge (Restricted-band):

If the EUT can be configured or modified to transmit continuously ($D \geq 98\%$), measured using the following method (with EUT transmitting continuously):

Use the following spectrum analyzer settings:

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band-edge).

RBW = 100 kHz.

VBW $\geq [3 \times \text{RBW}]$.

Detector = Power averaging (rms), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$.

Averaging type = power (i.e., rms):

As an alternative, the detector and averaging type may be set for linear voltage averaging.

Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.

Sweep time = auto.

Perform a trace average of at least 100 traces.

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band-power measurement function with band limits set equal to the emission frequency ($f_{\text{emission}} \pm 0.5 \text{ MHz}$). If the instrument does not have a band-power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by $f_{\text{emission}} \pm 0.5 \text{ MHz}$.

If continuous transmission of the EUT ($D \geq 98\%$) cannot be achieved and the duty cycle is constant (duty cycle variations are less $\pm 2\%$), then the following procedure may be used to measure the average power of unwanted emissions within 2 MHz of the authorized band-edge:

RBW = 100 kHz.

VBW $\geq [3 \times \text{RBW}]$.

Detector = Power averaging (rms), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$.

Averaging type = power (i.e., rms):

Detector = Power averaging (rms), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$. Satisfying this condition might require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.

Averaging type = power (i.e., rms):

- 1) As an alternative, the detector and averaging type may be set for linear voltage averaging
- 2) Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.

Sweep time = auto.

Perform a trace average of at least 100 traces.

Compute the power by integrating the spectrum over 1 MHz using the instrument's band-power measurement function with band limits set equal to the emission frequency (f_{emission}) ± 0.5 MHz. If the spectrum analyzer does not have a band-power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by f_{emission} ± 0.5 MHz.

A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

- 1) If power averaging (rms) mode was used in step f), then the applicable correction factor is $[10 \log (1 / D)]$, where D is the duty cycle.
- 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $[20 \log (1 / D)]$, where D is the duty cycle.
- 3) If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Reduction of the measured emission amplitude levels to account for operational duty cycle is not permitted. Determining compliance is based on emission levels occurring during transmission—it is not based on an average across ON and OFF times of the transmitter.

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

Note ¹: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note ²: All the configurations were pre tested, only the worst configuration has been reported in this report.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11a	1.39	1.52	91.08%	0.41
11n(HT20)/11ac(VHT20)	1.31	1.43	91.65%	0.38
11n(HT40)/11ac(VHT40)	0.65	0.77	84.83%	0.71
11ac(VHT80)	0.32	0.44	73.46%	1.34
11ax(HE20)(SU)	1.01	1.13	89.28%	0.49
11ax(HE40)(SU)	0.53	0.65	82.20%	0.85
11ax(HE80)(SU)	0.29	0.44	65.39%	1.85

Test DataConducted PowerANT0

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	19.01	79.62	1000	Pass
11a	CH157	19.39	86.90	1000	Pass
11a	CH165	19.40	87.10	1000	Pass
11n (HT20)	CH149	19.02	79.80	1000	Pass
11n (HT20)	CH157	19.09	81.10	1000	Pass
11n (HT20)	CH165	19.90	97.72	1000	Pass
11n (HT40)	CH151	15.10	32.36	1000	Pass
11n (HT40)	CH159	17.52	56.49	1000	Pass
11ac (VHT20)	CH149	19.05	80.35	1000	Pass
11ac (VHT20)	CH157	19.12	81.66	1000	Pass
11ac (VHT20)	CH165	19.07	80.72	1000	Pass
11ac (VHT40)	CH151	15.23	33.34	1000	Pass
11ac (VHT40)	CH159	17.43	55.34	1000	Pass
11ac (VHT80)	CH155	13.62	23.01	1000	Pass
11ax (HE20)(SU)	CH149	19.96	99.08	1000	Pass
11ax (HE20)(SU)	CH157	19.37	86.50	1000	Pass
11ax (HE20)(SU)	CH165	19.45	88.10	1000	Pass
11ax (HE40)(SU)	CH151	15.04	31.92	1000	Pass
11ax (HE40)(SU)	CH159	17.22	52.72	1000	Pass
11ax (HE80)(SU)	CH155	13.31	21.43	1000	Pass

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U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	19.77	94.84	1000	Pass
11a	CH157	19.58	90.78	1000	Pass
11a	CH165	19.53	89.74	1000	Pass
11n (HT20)	CH149	19.47	88.51	1000	Pass
11n (HT20)	CH157	19.41	87.30	1000	Pass
11n (HT20)	CH165	19.13	81.85	1000	Pass
11n (HT40)	CH151	15.36	34.36	1000	Pass
11n (HT40)	CH159	17.58	57.28	1000	Pass
11ac (VHT20)	CH149	19.75	94.41	1000	Pass
11ac (VHT20)	CH157	18.72	74.47	1000	Pass
11ac (VHT20)	CH165	19.03	79.98	1000	Pass
11ac (VHT40)	CH151	15.33	34.12	1000	Pass
11ac (VHT40)	CH159	17.57	57.15	1000	Pass
11ac (VHT80)	CH155	13.73	23.60	1000	Pass
11ax (HE20)(SU)	CH149	19.61	91.41	1000	Pass
11ax (HE20)(SU)	CH157	18.62	72.78	1000	Pass
11ax (HE20)(SU)	CH165	18.82	76.21	1000	Pass
11ax (HE40)(SU)	CH151	15.27	33.65	1000	Pass
11ax (HE40)(SU)	CH159	17.40	54.95	1000	Pass
11ax (HE80)(SU)	CH155	13.61	22.96	1000	Pass

MIMO

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	22.42	174.46	1000	Pass
11a	CH157	22.50	177.68	1000	Pass
11a	CH165	22.48	176.84	1000	Pass
11n (HT20)	CH149	22.26	168.31	1000	Pass
11n (HT20)	CH157	22.26	168.39	1000	Pass
11n (HT20)	CH165	22.54	179.57	1000	Pass
11n (HT40)	CH151	18.24	66.72	1000	Pass
11n (HT40)	CH159	20.56	113.77	1000	Pass
11ac (VHT20)	CH149	22.42	174.76	1000	Pass
11ac (VHT20)	CH157	21.93	156.13	1000	Pass
11ac (VHT20)	CH165	22.06	160.71	1000	Pass
11ac (VHT40)	CH151	18.29	67.46	1000	Pass
11ac (VHT40)	CH159	20.51	112.48	1000	Pass
11ac (VHT80)	CH155	16.69	46.62	1000	Pass
11ax (HE20)(SU)	CH149	22.80	190.49	1000	Pass
11ax (HE20)(SU)	CH157	22.02	159.27	1000	Pass
11ax (HE20)(SU)	CH165	22.16	164.31	1000	Pass
11ax (HE40)(SU)	CH151	18.17	65.57	1000	Pass
11ax (HE40)(SU)	CH159	20.32	107.68	1000	Pass
11ax (HE80)(SU)	CH155	16.47	44.39	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note¹: Test plots please refer to the document “Annex No.: Ti-EE26080250-603 Data Part 1.pdf”.

Note²: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note³: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

ANT0

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	31.66	16.80
11a	CH157	27.76	16.79
11a	CH165	29.97	16.85
11n(HT20)	CH149	29.91	17.82
11n(HT20)	CH157	32.86	17.83
11n(HT20)	CH165	29.26	17.82
11n(HT40)	CH151	42.08	36.25
11n(HT40)	CH159	53.99	36.44
11ac(VHT20)	CH149	26.97	17.65
11ac(VHT20)	CH157	27.54	17.65
11ac(VHT20)	CH165	26.47	17.64
11ac(VHT40)	CH151	43.38	36.16
11ac(VHT40)	CH159	54.57	36.39
11ac(VHT80)	CH155	84.51	74.91
11ax(HE20)(SU)	CH149	26.09	18.81
11ax(HE20)(SU)	CH157	27.68	18.78
11ax(HE20)(SU)	CH165	26.86	18.75
11ax(HE40)(SU)	CH151	41.45	37.38
11ax(HE40)(SU)	CH159	48.47	37.56
11ax(HE80)(SU)	CH155	85.55	76.29

ANT1

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	31.55	17.20
11a	CH157	29.85	17.10
11a	CH165	29.67	17.09
11n(HT20)	CH149	32.06	18.45
11n(HT20)	CH157	30.52	18.19
11n(HT20)	CH165	27.17	17.93
11n(HT40)	CH151	43.18	36.49
11n(HT40)	CH159	45.14	36.60
11ac(VHT20)	CH149	30.38	18.08
11ac(VHT20)	CH157	26.42	17.93
11ac(VHT20)	CH165	26.73	17.91
11ac(VHT40)	CH151	43.47	36.42
11ac(VHT40)	CH159	45.14	36.51
11ac(VHT80)	CH155	87.47	75.48
11ax(HE20)(SU)	CH149	30.22	19.08
11ax(HE20)(SU)	CH157	25.23	18.97
11ax(HE20)(SU)	CH165	24.90	18.98
11ax(HE40)(SU)	CH151	43.40	37.77
11ax(HE40)(SU)	CH159	44.16	37.81
11ax(HE80)(SU)	CH155	86.46	76.96

A.3 6 dB Bandwidth

Note¹: Test plots please refer to the document “Annex No.: Ti-EE26080250-603 Data Part 2.pdf”.

Note²: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note³: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

ANT0

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.40	500.00	Pass
11a	CH157	15.30	500.00	Pass
11a	CH165	13.30	500.00	Pass
11n(HT20)	CH149	14.00	500.00	Pass
11n(HT20)	CH157	14.00	500.00	Pass
11n(HT20)	CH165	15.30	500.00	Pass
11n(HT40)	CH151	34.00	500.00	Pass
11n(HT40)	CH159	35.20	500.00	Pass
11ac(VHT20)	CH149	15.50	500.00	Pass
11ac(VHT20)	CH157	15.20	500.00	Pass
11ac(VHT20)	CH165	15.30	500.00	Pass
11ac(VHT40)	CH151	35.20	500.00	Pass
11ac(VHT40)	CH159	34.00	500.00	Pass
11ac(VHT80)	CH155	71.50	500.00	Pass
11ax(HE20)(SU)	CH149	15.30	500.00	Pass
11ax(HE20)(SU)	CH157	14.00	500.00	Pass
11ax(HE20)(SU)	CH165	15.30	500.00	Pass
11ax(HE40)(SU)	CH151	34.00	500.00	Pass
11ax(HE40)(SU)	CH159	34.00	500.00	Pass
11ax(HE80)(SU)	CH155	72.70	500.00	Pass

ANT1

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.30	500.00	Pass
11a	CH157	15.60	500.00	Pass
11a	CH165	14.00	500.00	Pass
11n(HT20)	CH149	14.00	500.00	Pass
11n(HT20)	CH157	15.30	500.00	Pass
11n(HT20)	CH165	15.30	500.00	Pass
11n(HT40)	CH151	35.30	500.00	Pass
11n(HT40)	CH159	35.30	500.00	Pass
11ac(VHT20)	CH149	15.30	500.00	Pass
11ac(VHT20)	CH157	15.20	500.00	Pass
11ac(VHT20)	CH165	15.30	500.00	Pass
11ac(VHT40)	CH151	35.30	500.00	Pass
11ac(VHT40)	CH159	35.30	500.00	Pass
11ac(VHT80)	CH155	75.20	500.00	Pass
11ax(HE20)(SU)	CH149	15.30	500.00	Pass
11ax(HE20)(SU)	CH157	15.30	500.00	Pass
11ax(HE20)(SU)	CH165	15.30	500.00	Pass
11ax(HE40)(SU)	CH151	35.30	500.00	Pass
11ax(HE40)(SU)	CH159	35.30	500.00	Pass
11ax(HE80)(SU)	CH155	75.20	500.00	Pass

A.4 Power Spectral Density

Note¹: Test plots please refer to the document "Annex No.: Ti-EE26080250-603 Data Part 3.pdf".

Note²: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

ANT0

U-NII-3 (5725 - 5850 MHz)						
Mode	Channel	Measured PSD (dBm/500kHz)	Duty Factor (10 log (1/x))	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	5.56	0.41	5.96	30.00	Pass
11a	CH157	6.37	0.41	6.77	30.00	Pass
11a	CH165	6.26	0.41	6.66	30.00	Pass
11n (HT20)	CH149	5.67	0.38	6.04	30.00	Pass
11n (HT20)	CH157	5.95	0.38	6.33	30.00	Pass
11n (HT20)	CH165	6.57	0.38	6.95	30.00	Pass
11n (HT40)	CH151	-0.95	0.71	-0.23	30.00	Pass
11n (HT40)	CH159	1.22	0.71	1.93	30.00	Pass
11ac (VHT20)	CH149	5.72	0.38	6.10	30.00	Pass
11ac (VHT20)	CH157	5.82	0.38	6.20	30.00	Pass
11ac (VHT20)	CH165	5.76	0.38	6.14	30.00	Pass
11ac (VHT40)	CH151	-1.16	0.71	-0.45	30.00	Pass
11ac (VHT40)	CH159	1.13	0.71	1.84	30.00	Pass
11ac (VHT80)	CH155	-5.32	1.34	-3.98	30.00	Pass
11ax (HE20)(SU)	CH149	6.52	0.49	7.01	30.00	Pass
11ax (HE20)(SU)	CH157	6.05	0.49	6.54	30.00	Pass
11ax (HE20)(SU)	CH165	6.09	0.49	6.58	30.00	Pass
11ax (HE40)(SU)	CH151	-1.25	0.85	-0.39	30.00	Pass
11ax (HE40)(SU)	CH159	0.85	0.85	1.70	30.00	Pass
11ax (HE80)(SU)	CH155	-6.09	1.85	-4.24	30.00	Pass

ANT1

U-NII-3 (5725 - 5850 MHz)						
Mode	Channel	Measured PSD (dBm/500kHz)	Duty Factor (10 log (1/x))	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	6.87	0.41	7.28	30.00	Pass
11a	CH157	6.31	0.41	6.71	30.00	Pass
11a	CH165	6.33	0.41	6.74	30.00	Pass
11n (HT20)	CH149	6.38	0.38	6.75	30.00	Pass
11n (HT20)	CH157	5.98	0.38	6.36	30.00	Pass
11n (HT20)	CH165	5.72	0.38	6.10	30.00	Pass
11n (HT40)	CH151	-1.01	0.71	-0.29	30.00	Pass
11n (HT40)	CH159	1.17	0.71	1.88	30.00	Pass
11ac (VHT20)	CH149	6.32	0.38	6.69	30.00	Pass
11ac (VHT20)	CH157	5.40	0.38	5.78	30.00	Pass
11ac (VHT20)	CH165	5.66	0.38	6.04	30.00	Pass
11ac (VHT40)	CH151	-1.04	0.71	-0.32	30.00	Pass
11ac (VHT40)	CH159	1.12	0.71	1.84	30.00	Pass
11ac (VHT80)	CH155	-5.46	1.34	-4.12	30.00	Pass
11ax (HE20)(SU)	CH149	6.23	0.49	6.72	30.00	Pass
11ax (HE20)(SU)	CH157	5.15	0.49	5.64	30.00	Pass
11ax (HE20)(SU)	CH165	5.32	0.49	5.81	30.00	Pass
11ax (HE40)(SU)	CH151	-1.27	0.85	-0.42	30.00	Pass
11ax (HE40)(SU)	CH159	1.00	0.85	1.85	30.00	Pass
11ax (HE80)(SU)	CH155	-5.63	1.85	-3.79	30.00	Pass

MIMO

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	9.68	30.00	Pass
11a	CH157	9.75	30.00	Pass
11a	CH165	9.71	30.00	Pass
11n (HT20)	CH149	9.42	30.00	Pass
11n (HT20)	CH157	9.35	30.00	Pass
11n (HT20)	CH165	9.55	30.00	Pass
11n (HT40)	CH151	2.75	30.00	Pass
11n (HT40)	CH159	4.92	30.00	Pass
11ac (VHT20)	CH149	9.42	30.00	Pass
11ac (VHT20)	CH157	9.00	30.00	Pass
11ac (VHT20)	CH165	9.10	30.00	Pass
11ac (VHT40)	CH151	2.63	30.00	Pass
11ac (VHT40)	CH159	4.85	30.00	Pass
11ac (VHT80)	CH155	-1.04	30.00	Pass
11ax (HE20)(SU)	CH149	9.88	30.00	Pass
11ax (HE20)(SU)	CH157	9.12	30.00	Pass
11ax (HE20)(SU)	CH165	9.22	30.00	Pass
11ax (HE40)(SU)	CH151	2.60	30.00	Pass
11ax (HE40)(SU)	CH159	4.79	30.00	Pass
11ax (HE80)(SU)	CH155	-1.00	30.00	Pass

A.5 Conducted Emissions

Note ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

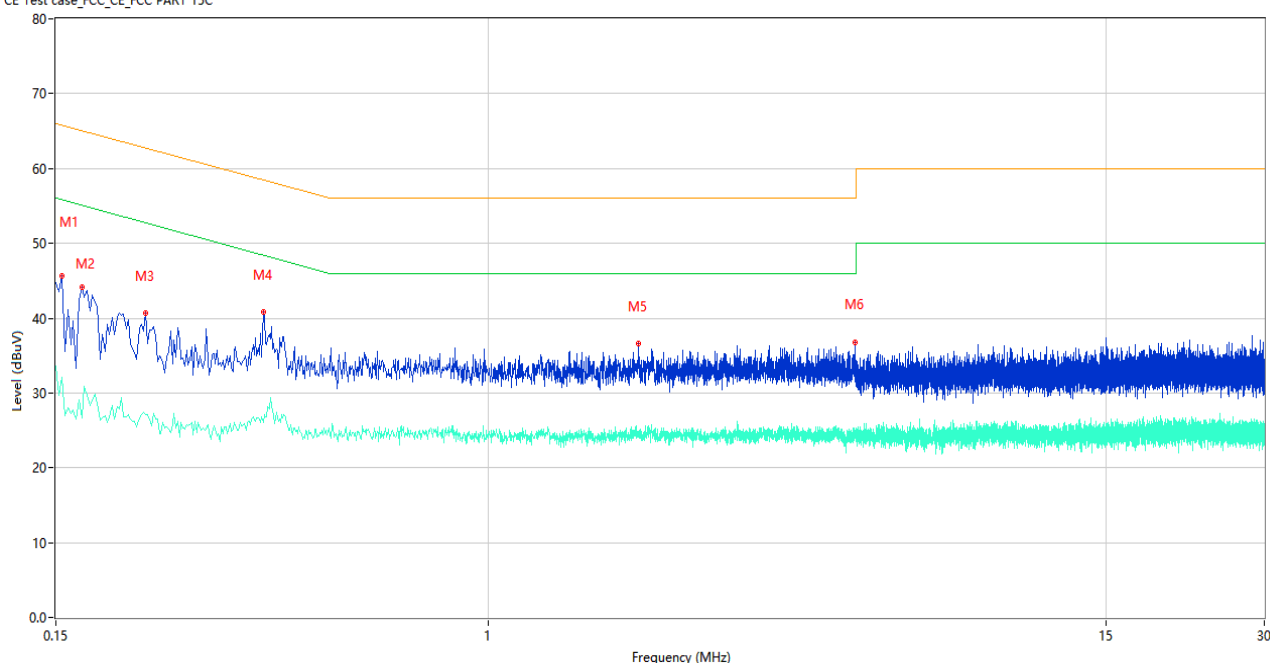
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

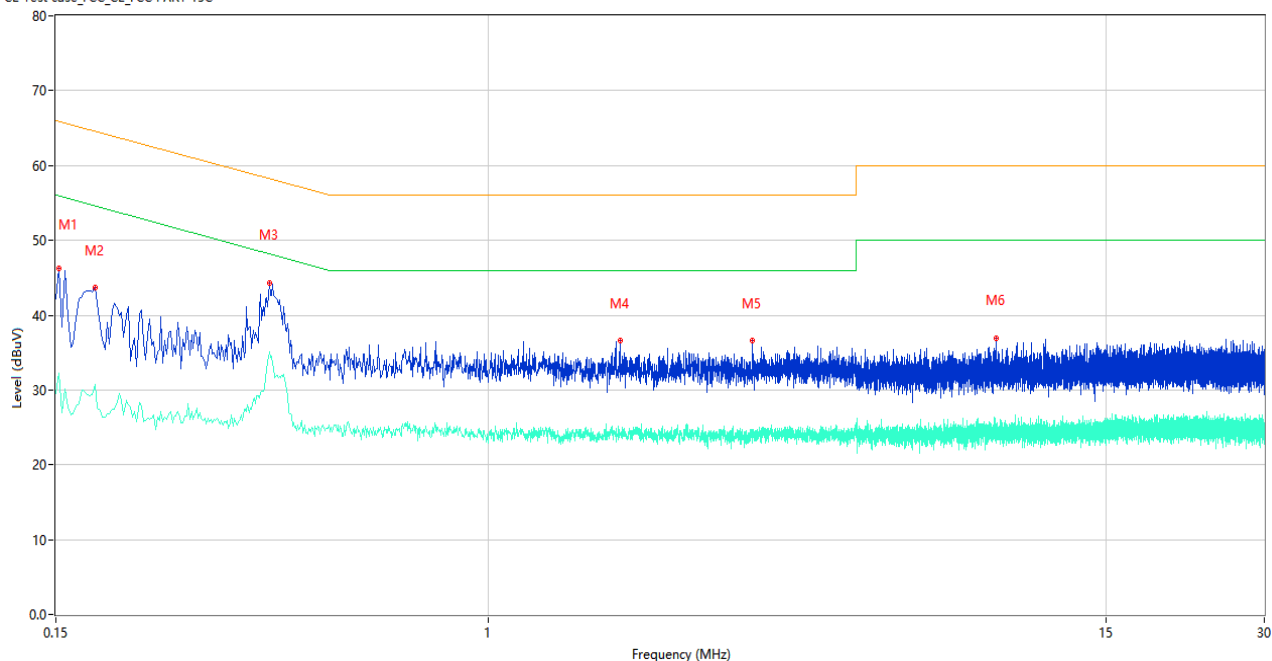
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.154	45.63	9.77	65.78	20.15	Peak	L	Pass
1**	0.154	32.04	9.77	55.78	23.74	AV	L	Pass
2	0.168	44.12	9.76	65.06	20.94	Peak	L	Pass
2**	0.168	26.61	9.76	55.06	28.45	AV	L	Pass
3	0.222	40.64	9.75	62.74	22.10	Peak	L	Pass
3**	0.222	27.17	9.75	52.74	25.57	AV	L	Pass
4	0.372	40.79	10.65	58.46	17.67	Peak	L	Pass
4**	0.372	26.08	10.65	48.46	22.38	AV	L	Pass
5	1.932	36.62	10.34	56.00	19.38	Peak	L	Pass
5**	1.932	24.19	10.34	46.00	21.81	AV	L	Pass
6	4.998	36.83	10.35	56.00	19.17	Peak	L	Pass
6**	4.998	24.46	10.35	46.00	21.54	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	46.21	9.77	65.89	19.68	Peak	N	Pass
1**	0.152	32.18	9.77	55.89	23.71	AV	N	Pass
2	0.178	43.72	9.76	64.58	20.86	Peak	N	Pass
2**	0.178	30.69	9.76	54.58	23.89	AV	N	Pass
3	0.382	44.25	10.61	58.24	13.99	Peak	N	Pass
3**	0.382	35.04	10.61	48.24	13.20	AV	N	Pass
4	1.778	36.59	10.16	56.00	19.41	Peak	N	Pass
4**	1.778	24.10	10.16	46.00	21.90	AV	N	Pass
5	3.178	36.65	10.15	56.00	19.35	Peak	N	Pass
5**	3.178	24.72	10.15	46.00	21.28	AV	N	Pass
6	9.270	36.98	10.24	60.00	23.02	Peak	N	Pass
6**	9.270	25.46	10.24	50.00	24.54	AV	N	Pass

A.6 Radiated Spurious Emissions and Band Edge (Restricted-band)

Note¹: The symbol of "--" in the table which means not application.

Note²: For the test data above 1 GHz, According the ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

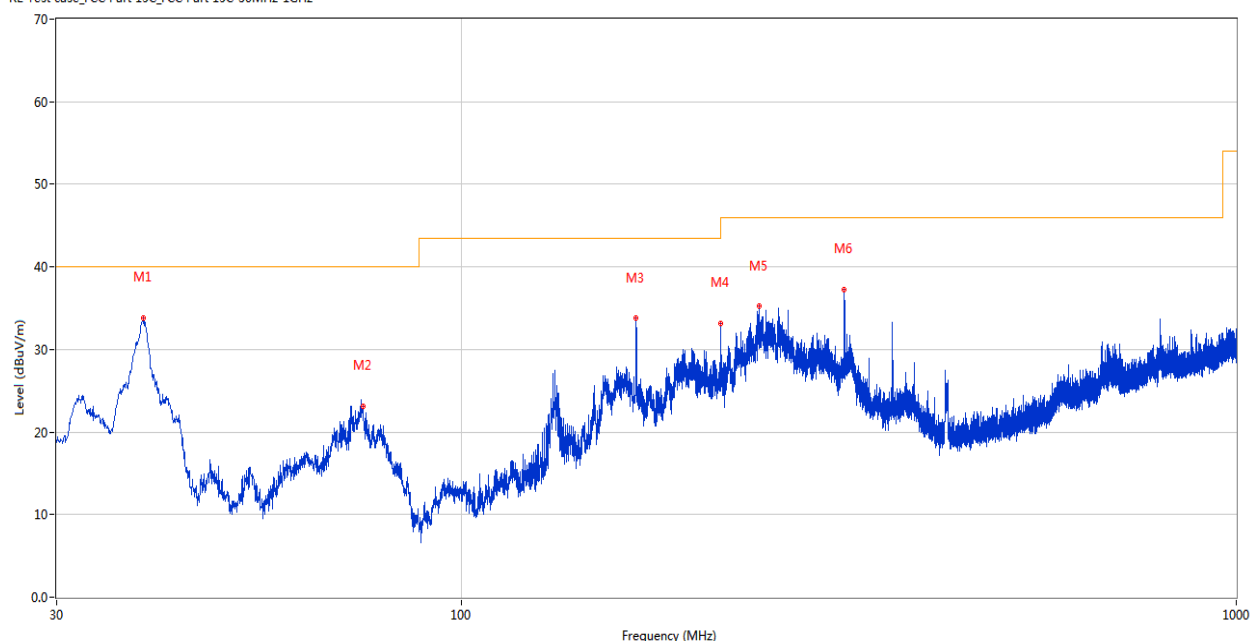
Note⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Note⁵: For Multiple transmitter output, the quantity $10 \log (NANT)$ dB is added to each spectrum value before comparing to the emission limit. When testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding $10 \log (NANT)$ if the measurements are made relative to the in-band emissions on the individual outputs.

Test Data and Plots

30 MHz to 1 GHz, ANT H

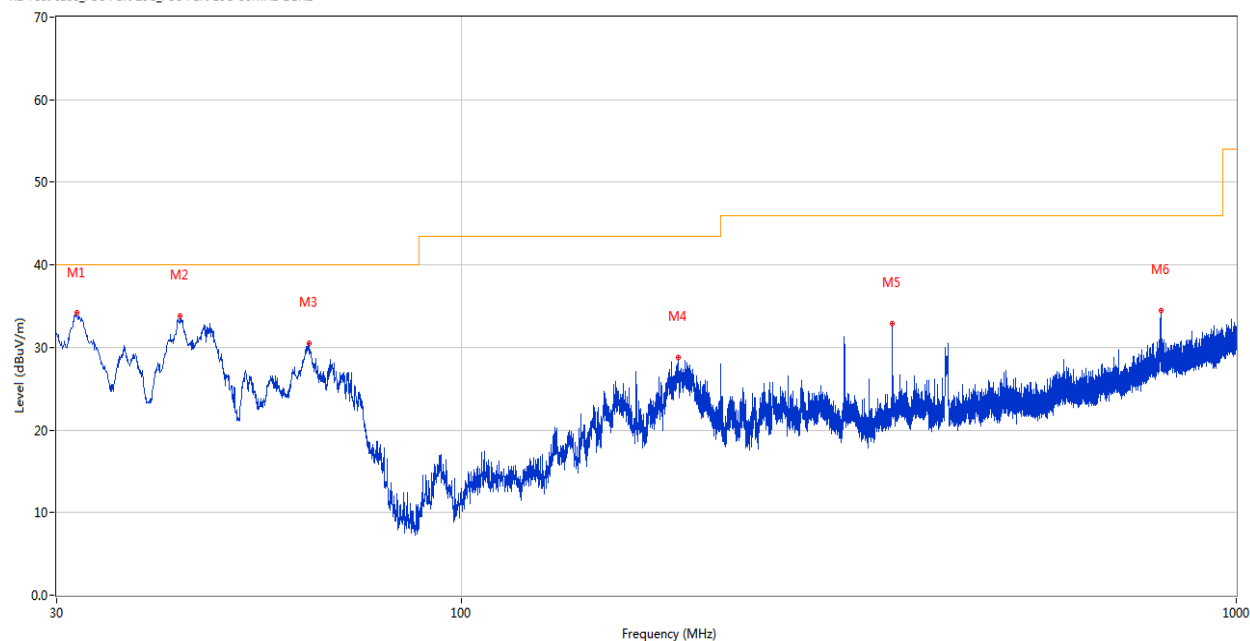
RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	38.827	33.77	-25.65	40.0	6.23	Peak	304.00	100	Horizontal	Pass
2	74.572	23.13	-27.62	40.0	16.87	Peak	355.00	100	Horizontal	Pass
3	168.031	33.76	-24.06	43.5	9.74	Peak	138.00	100	Horizontal	Pass
4	215.998	33.21	-26.78	43.5	10.29	Peak	87.00	100	Horizontal	Pass
5	241.945	35.22	-24.78	46.0	10.78	Peak	69.00	100	Horizontal	Pass
6	311.979	37.29	-21.76	46.0	8.71	Peak	52.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	31.892	34.15	-26.76	40.0	5.85	Peak	78.00	100	Vertical	Pass
2	43.289	33.84	-25.03	40.0	6.16	Peak	161.00	100	Vertical	Pass
3	63.514	30.48	-26.09	40.0	9.52	Peak	161.00	100	Vertical	Pass
4	190.147	28.74	-26.38	43.5	14.76	Peak	201.00	100	Vertical	Pass
5	359.994	32.87	-20.25	46.0	13.13	Peak	78.00	100	Vertical	Pass
6	799.695	34.45	-9.10	46.0	11.55	Peak	217.00	100	Vertical	Pass

Note ¹: The spurious above 18G is noise only, do not show on the report.

Note ²: The RSE Plot only shows the worst-case scenario, while all other data are presented in tabular form.

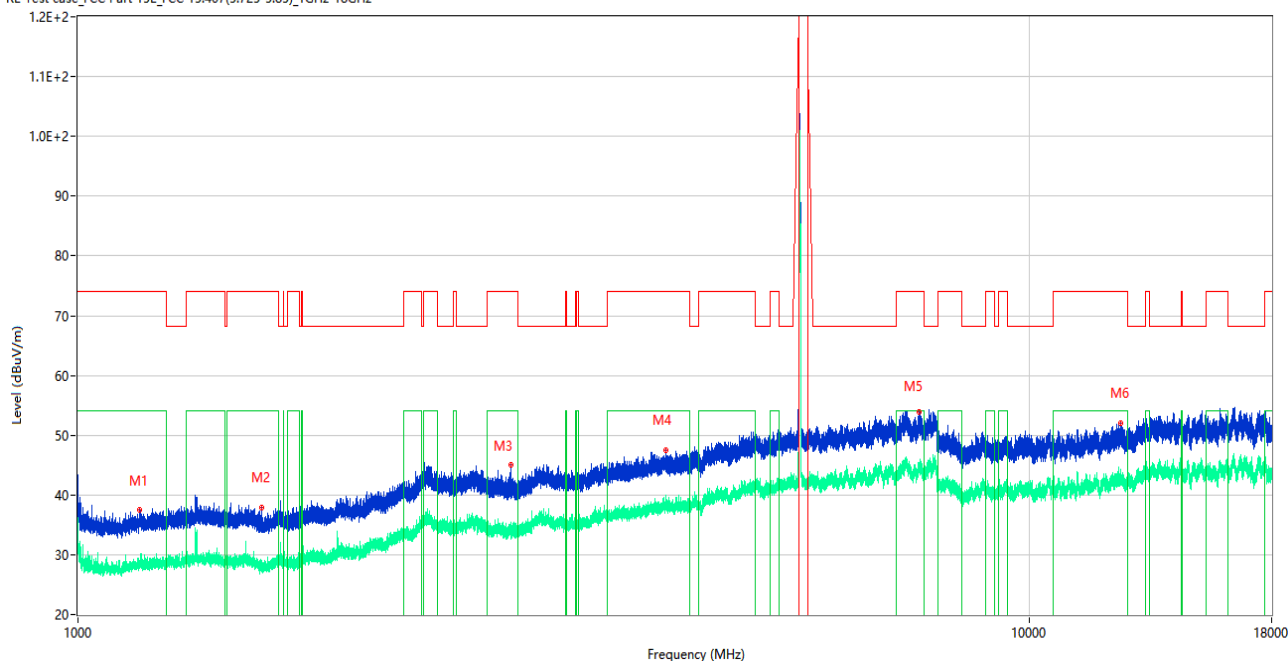
Note ³: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note ⁴: All antenna were pre tested, but only the worst case has been reported in this report.

MIMO

11a, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

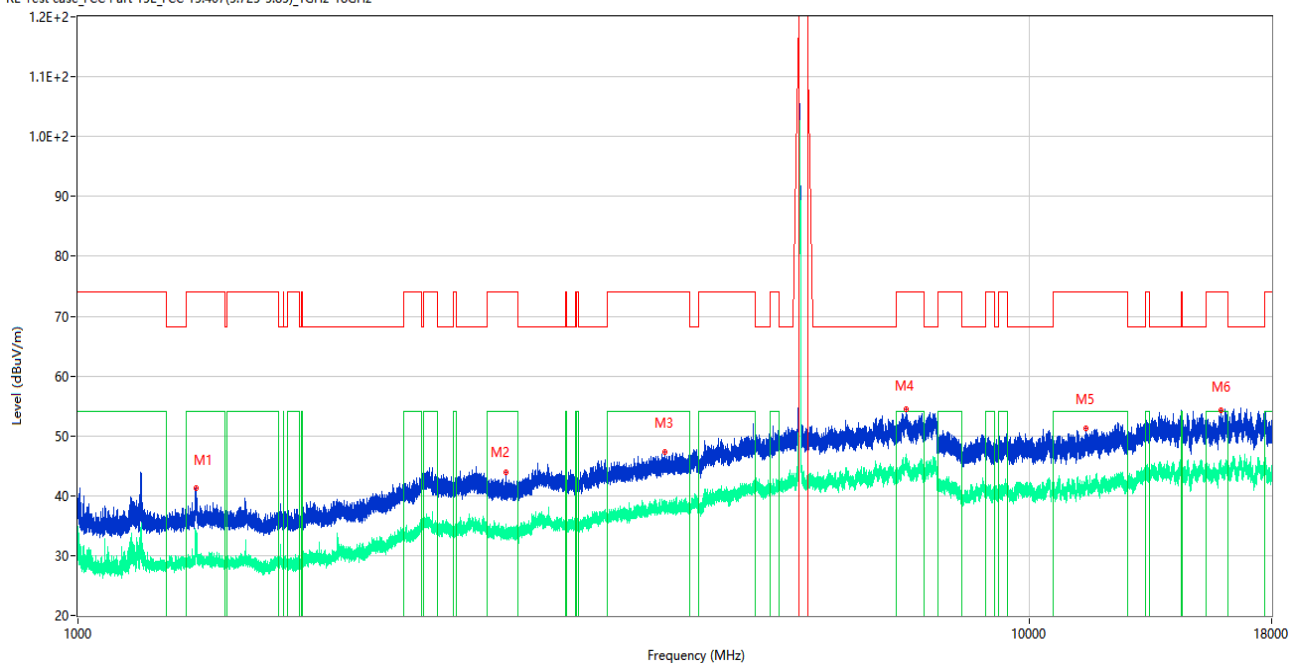
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1156.893	37.69	74.0	36.31	Peak	295.00	200	Horizontal	Pass
1**	1156.893	28.02	54.0	25.98	AV	295.00	200	Horizontal	Pass
2	1564.179	38.08	74.0	35.92	Peak	343.00	300	Horizontal	Pass
2**	1564.179	28.32	54.0	25.68	AV	343.00	300	Horizontal	Pass
3	2855.686	45.11	74.0	28.90	Peak	79.00	200	Horizontal	Pass
3**	2855.686	33.97	54.0	20.03	AV	79.00	200	Horizontal	Pass
4	4151.445	47.79	74.0	26.21	Peak	296.00	100	Horizontal	Pass
4**	4151.445	37.77	54.0	16.23	AV	296.00	100	Horizontal	Pass
5	7669.788	54.15	74.0	19.86	Peak	283.00	100	Horizontal	Pass
5**	7669.788	45.58	54.0	8.42	AV	283.00	100	Horizontal	Pass
6	12477.495	52.02	74.0	21.98	Peak	191.00	400	Horizontal	Pass
6**	12477.495	42.53	54.0	11.47	AV	191.00	400	Horizontal	Pass

11a, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.602	41.26	74.0	32.74	Peak	360.00	100	Vertical	Pass
1**	1332.602	31.85	54.0	22.15	AV	360.00	100	Vertical	Pass
2	2817.779	44.13	74.0	29.87	Peak	313.00	200	Vertical	Pass
2**	2817.779	33.42	54.0	20.58	AV	313.00	200	Vertical	Pass
3	4141.594	47.42	74.0	26.58	Peak	99.00	200	Vertical	Pass
3**	4141.594	38.01	54.0	15.99	AV	99.00	200	Vertical	Pass
4	7428.237	54.72	74.0	19.29	Peak	116.00	400	Vertical	Pass
4**	7428.237	45.17	54.0	8.83	AV	116.00	400	Vertical	Pass
5	11491.324	51.36	74.0	22.64	Peak	32.00	300	Vertical	Pass
5**	11491.324	42.24	54.0	11.76	AV	32.00	300	Vertical	Pass
6	15904.260	54.48	74.0	19.53	Peak	217.00	400	Vertical	Pass
6**	15904.260	44.53	54.0	9.47	AV	217.00	400	Vertical	Pass

11a, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1157.238	37.58	74.0	36.42	Peak	250.00	100	Horizontal	Pass
1**	1157.238	27.77	54.0	26.23	AV	250.00	100	Horizontal	Pass
2	1563.413	38.04	74.0	35.96	Peak	302.00	300	Horizontal	Pass
2**	1563.413	28.17	54.0	25.83	AV	302.00	300	Horizontal	Pass
3	2853.016	44.91	74.0	29.09	Peak	328.00	200	Horizontal	Pass
3**	2853.016	33.79	54.0	20.21	AV	328.00	200	Horizontal	Pass
4	4147.240	47.72	74.0	26.28	Peak	251.00	300	Horizontal	Pass
4**	4147.240	37.64	54.0	16.36	AV	251.00	300	Horizontal	Pass
5	7670.233	54.00	74.0	20.01	Peak	45.00	400	Horizontal	Pass
5**	7670.233	44.45	54.0	9.55	AV	45.00	400	Horizontal	Pass
6	12475.326	51.78	74.0	22.22	Peak	54.00	400	Horizontal	Pass
6**	12475.326	42.51	54.0	11.49	AV	54.00	400	Horizontal	Pass

11a, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.181	41.14	74.0	32.86	Peak	109.00	200	Vertical	Pass
1**	1335.181	31.66	54.0	22.34	AV	109.00	200	Vertical	Pass
2	2823.415	44.00	74.0	30.00	Peak	272.00	200	Vertical	Pass
2**	2823.415	33.16	54.0	20.84	AV	272.00	200	Vertical	Pass
3	4140.442	47.39	74.0	26.62	Peak	3.00	200	Vertical	Pass
3**	4140.442	38.00	54.0	16.00	AV	3.00	200	Vertical	Pass
4	7421.003	54.66	74.0	19.34	Peak	183.00	300	Vertical	Pass
4**	7421.003	45.16	54.0	8.84	AV	183.00	300	Vertical	Pass
5	11489.471	51.26	74.0	22.74	Peak	305.00	400	Vertical	Pass
5**	11489.471	42.10	54.0	11.90	AV	305.00	400	Vertical	Pass
6	15908.376	54.29	74.0	19.72	Peak	21.00	100	Vertical	Pass
6**	15908.376	44.28	54.0	9.72	AV	21.00	100	Vertical	Pass

11a, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1156.584	37.39	74.0	36.61	Peak	231.00	200	Horizontal	Pass
1**	1156.584	27.77	54.0	26.23	AV	231.00	200	Horizontal	Pass
2	1557.725	37.93	74.0	36.07	Peak	179.00	400	Horizontal	Pass
2**	1557.725	28.09	54.0	25.91	AV	179.00	400	Horizontal	Pass
3	2856.390	44.80	74.0	29.20	Peak	21.00	200	Horizontal	Pass
3**	2856.390	33.52	54.0	20.48	AV	21.00	200	Horizontal	Pass
4	4147.054	47.44	74.0	26.56	Peak	225.00	200	Horizontal	Pass
4**	4147.054	37.40	54.0	16.60	AV	225.00	200	Horizontal	Pass
5	7668.532	53.82	74.0	20.18	Peak	26.00	200	Horizontal	Pass
5**	7668.532	44.25	54.0	9.75	AV	26.00	200	Horizontal	Pass
6	12475.880	51.52	74.0	22.48	Peak	63.00	100	Horizontal	Pass
6**	12475.880	42.47	54.0	11.53	AV	63.00	100	Horizontal	Pass

11a, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.714	41.03	74.0	32.97	Peak	135.00	100	Vertical	Pass
1**	1330.714	31.40	54.0	22.60	AV	135.00	100	Vertical	Pass
2	2820.052	43.85	74.0	30.15	Peak	90.00	200	Vertical	Pass
2**	2820.052	33.13	54.0	20.87	AV	90.00	200	Vertical	Pass
3	4139.227	47.37	74.0	26.63	Peak	162.00	200	Vertical	Pass
3**	4139.227	37.89	54.0	16.11	AV	162.00	200	Vertical	Pass
4	7421.821	54.38	74.0	19.62	Peak	318.00	400	Vertical	Pass
4**	7421.821	45.14	54.0	8.86	AV	318.00	400	Vertical	Pass
5	11485.511	51.18	74.0	22.82	Peak	294.00	100	Vertical	Pass
5**	11485.511	41.83	54.0	12.17	AV	294.00	100	Vertical	Pass
6	15908.429	54.20	74.0	19.80	Peak	222.00	400	Vertical	Pass
6**	15908.429	44.07	54.0	9.93	AV	222.00	400	Vertical	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1156.252	37.28	74.0	36.72	Peak	330.00	300	Horizontal	Pass
1**	1156.252	27.56	54.0	26.44	AV	330.00	300	Horizontal	Pass
2	1561.450	37.83	74.0	36.17	Peak	329.00	300	Horizontal	Pass
2**	1561.450	27.96	54.0	26.04	AV	329.00	300	Horizontal	Pass
3	2849.756	44.67	74.0	29.33	Peak	83.00	200	Horizontal	Pass
3**	2849.756	33.48	54.0	20.52	AV	83.00	200	Horizontal	Pass
4	4148.901	47.25	74.0	26.75	Peak	16.00	300	Horizontal	Pass
4**	4148.901	37.37	54.0	16.63	AV	16.00	300	Horizontal	Pass
5	7670.501	53.70	74.0	20.30	Peak	119.00	200	Horizontal	Pass
5**	7670.501	44.20	54.0	9.80	AV	119.00	200	Horizontal	Pass
6	12476.648	51.39	74.0	22.61	Peak	330.00	200	Horizontal	Pass
6**	12476.648	42.25	54.0	11.75	AV	330.00	200	Horizontal	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.579	40.74	74.0	33.26	Peak	123.00	100	Vertical	Pass
1**	1329.579	31.33	54.0	22.67	AV	123.00	100	Vertical	Pass
2	2819.478	43.70	74.0	30.30	Peak	41.00	100	Vertical	Pass
2**	2819.478	32.88	54.0	21.12	AV	41.00	100	Vertical	Pass
3	4136.608	47.37	74.0	26.63	Peak	29.00	200	Vertical	Pass
3**	4136.608	37.71	54.0	16.29	AV	29.00	200	Vertical	Pass
4	7421.119	54.38	74.0	19.62	Peak	197.00	300	Vertical	Pass
4**	7421.119	45.00	54.0	9.00	AV	197.00	300	Vertical	Pass
5	11487.262	50.97	74.0	23.03	Peak	251.00	400	Vertical	Pass
5**	11487.262	41.55	54.0	12.45	AV	251.00	400	Vertical	Pass
6	15905.379	54.03	74.0	19.97	Peak	327.00	300	Vertical	Pass
6**	15905.379	44.02	54.0	9.98	AV	327.00	300	Vertical	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1159.855	37.22	74.0	36.78	Peak	338.00	200	Horizontal	Pass
1**	1159.855	27.49	54.0	26.51	AV	338.00	200	Horizontal	Pass
2	1564.237	37.75	74.0	36.26	Peak	318.00	200	Horizontal	Pass
2**	1564.237	27.95	54.0	26.05	AV	318.00	200	Horizontal	Pass
3	2852.201	44.61	74.0	29.39	Peak	320.00	200	Horizontal	Pass
3**	2852.201	33.31	54.0	20.70	AV	320.00	200	Horizontal	Pass
4	4145.255	47.00	74.0	27.00	Peak	359.00	400	Horizontal	Pass
4**	4145.255	37.14	54.0	16.86	AV	359.00	400	Horizontal	Pass
5	7668.361	53.55	74.0	20.45	Peak	121.00	400	Horizontal	Pass
5**	7668.361	45.04	54.0	8.96	AV	121.00	400	Horizontal	Pass
6	12478.154	51.19	74.0	22.81	Peak	48.00	200	Horizontal	Pass
6**	12478.154	42.19	54.0	11.81	AV	48.00	200	Horizontal	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1334.839	40.56	74.0	33.44	Peak	184.00	400	Vertical	Pass
1**	1334.839	31.05	54.0	22.95	AV	184.00	400	Vertical	Pass
2	2821.171	43.55	74.0	30.45	Peak	344.00	200	Vertical	Pass
2**	2821.171	32.80	54.0	21.20	AV	344.00	200	Vertical	Pass
3	4137.935	47.13	74.0	26.87	Peak	179.00	200	Vertical	Pass
3**	4137.935	37.57	54.0	16.43	AV	179.00	200	Vertical	Pass
4	7420.618	54.38	74.0	19.62	Peak	60.00	400	Vertical	Pass
4**	7420.618	44.98	54.0	9.02	AV	60.00	400	Vertical	Pass
5	11487.870	50.82	74.0	23.19	Peak	154.00	400	Vertical	Pass
5**	11487.870	41.45	54.0	12.55	AV	154.00	400	Vertical	Pass
6	15907.514	53.86	74.0	20.14	Peak	224.00	200	Vertical	Pass
6**	15907.514	43.79	54.0	10.21	AV	224.00	200	Vertical	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1159.813	37.11	74.0	36.89	Peak	75.00	200	Horizontal	Pass
1**	1159.813	27.43	54.0	26.57	AV	75.00	200	Horizontal	Pass
2	1556.610	37.47	74.0	36.53	Peak	164.00	400	Horizontal	Pass
2**	1556.610	27.81	54.0	26.20	AV	164.00	400	Horizontal	Pass
3	2855.697	44.57	74.0	29.43	Peak	253.00	200	Horizontal	Pass
3**	2855.697	33.22	54.0	20.78	AV	253.00	200	Horizontal	Pass
4	4151.900	46.88	74.0	27.12	Peak	198.00	400	Horizontal	Pass
4**	4151.900	36.91	54.0	17.09	AV	198.00	400	Horizontal	Pass
5	7669.344	53.42	74.0	20.58	Peak	313.00	400	Horizontal	Pass
5**	7669.344	44.79	54.0	9.21	AV	313.00	400	Horizontal	Pass
6	12478.068	50.99	74.0	23.01	Peak	286.00	400	Horizontal	Pass
6**	12478.068	41.90	54.0	12.10	AV	286.00	400	Horizontal	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.236	40.52	74.0	33.48	Peak	28.00	100	Vertical	Pass
1**	1330.236	30.95	54.0	23.05	AV	28.00	100	Vertical	Pass
2	2822.190	43.38	74.0	30.62	Peak	32.00	300	Vertical	Pass
2**	2822.190	32.56	54.0	21.44	AV	32.00	300	Vertical	Pass
3	4138.750	46.86	74.0	27.14	Peak	3.00	200	Vertical	Pass
3**	4138.750	37.29	54.0	16.71	AV	3.00	200	Vertical	Pass
4	7426.938	54.11	74.0	19.89	Peak	142.00	400	Vertical	Pass
4**	7426.938	44.69	54.0	9.31	AV	142.00	400	Vertical	Pass
5	11488.427	50.60	74.0	23.40	Peak	26.00	300	Vertical	Pass
5**	11488.427	41.20	54.0	12.80	AV	26.00	300	Vertical	Pass
6	15908.467	53.56	74.0	20.44	Peak	227.00	200	Vertical	Pass
6**	15908.467	43.74	54.0	10.27	AV	227.00	200	Vertical	Pass

11n40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1156.960	37.09	74.0	36.91	Peak	338.00	200	Horizontal	Pass
1**	1156.960	27.38	54.0	26.63	AV	338.00	200	Horizontal	Pass
2	1561.868	37.22	74.0	36.79	Peak	14.00	100	Horizontal	Pass
2**	1561.868	27.63	54.0	26.37	AV	14.00	100	Horizontal	Pass
3	2849.082	44.55	74.0	29.45	Peak	245.00	200	Horizontal	Pass
3**	2849.082	33.00	54.0	21.00	AV	245.00	200	Horizontal	Pass
4	4151.904	46.69	74.0	27.31	Peak	130.00	400	Horizontal	Pass
4**	4151.904	36.87	54.0	17.13	AV	130.00	400	Horizontal	Pass
5	7668.348	53.30	74.0	20.70	Peak	7.00	300	Horizontal	Pass
5**	7668.348	44.65	54.0	9.35	AV	7.00	300	Horizontal	Pass
6	12481.583	50.76	74.0	23.24	Peak	234.00	400	Horizontal	Pass
6**	12481.583	41.84	54.0	12.16	AV	234.00	400	Horizontal	Pass

11n40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.146	40.46	74.0	33.54	Peak	160.00	100	Vertical	Pass
1**	1330.146	30.71	54.0	23.29	AV	160.00	100	Vertical	Pass
2	2821.679	43.10	74.0	30.90	Peak	174.00	200	Vertical	Pass
2**	2821.679	32.51	54.0	21.49	AV	174.00	200	Vertical	Pass
3	4140.860	46.61	74.0	27.39	Peak	247.00	200	Vertical	Pass
3**	4140.860	37.19	54.0	16.82	AV	247.00	200	Vertical	Pass
4	7427.019	53.93	74.0	20.07	Peak	275.00	200	Vertical	Pass
4**	7427.019	44.45	54.0	9.55	AV	275.00	200	Vertical	Pass
5	11489.225	50.57	74.0	23.43	Peak	318.00	200	Vertical	Pass
5**	11489.225	41.06	54.0	12.94	AV	318.00	200	Vertical	Pass
6	15909.744	53.54	74.0	20.46	Peak	164.00	400	Vertical	Pass
6**	15909.744	43.52	54.0	10.48	AV	164.00	400	Vertical	Pass

11n40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.787	37.51	74.0	36.49	Peak	226.00	200	Horizontal	Pass
1**	1161.787	27.96	54.0	26.05	AV	226.00	200	Horizontal	Pass
2	1564.596	37.96	74.0	36.05	Peak	198.00	100	Horizontal	Pass
2**	1564.596	28.25	54.0	25.75	AV	198.00	100	Horizontal	Pass
3	2852.361	44.83	74.0	29.17	Peak	42.00	200	Horizontal	Pass
3**	2852.361	33.92	54.0	20.08	AV	42.00	200	Horizontal	Pass
4	4149.312	47.74	74.0	26.26	Peak	19.00	400	Horizontal	Pass
4**	4149.312	37.69	54.0	16.32	AV	19.00	400	Horizontal	Pass
5	7669.146	53.87	74.0	20.14	Peak	202.00	100	Horizontal	Pass
5**	7669.146	44.39	54.0	9.61	AV	202.00	100	Horizontal	Pass
6	12477.976	51.78	74.0	22.22	Peak	4.00	100	Horizontal	Pass
6**	12477.976	42.24	54.0	11.76	AV	4.00	100	Horizontal	Pass

11n40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.116	41.04	74.0	32.97	Peak	328.00	300	Vertical	Pass
1**	1329.116	31.59	54.0	22.41	AV	328.00	300	Vertical	Pass
2	2823.945	43.96	74.0	30.04	Peak	33.00	100	Vertical	Pass
2**	2823.945	33.28	54.0	20.73	AV	33.00	100	Vertical	Pass
3	4139.150	47.34	74.0	26.66	Peak	82.00	200	Vertical	Pass
3**	4139.150	37.96	54.0	16.04	AV	82.00	200	Vertical	Pass
4	7424.589	54.56	74.0	19.45	Peak	54.00	400	Vertical	Pass
4**	7424.589	44.97	54.0	9.03	AV	54.00	400	Vertical	Pass
5	11485.383	51.35	74.0	22.65	Peak	217.00	400	Vertical	Pass
5**	11485.383	42.24	54.0	11.76	AV	217.00	400	Vertical	Pass
6	15908.196	54.39	74.0	19.61	Peak	61.00	400	Vertical	Pass
6**	15908.196	44.29	54.0	9.72	AV	61.00	400	Vertical	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1160.987	37.50	74.0	36.50	Peak	233.00	100	Horizontal	Pass
1**	1160.987	27.50	54.0	26.50	AV	233.00	100	Horizontal	Pass
2	1564.012	37.85	74.0	36.16	Peak	174.00	100	Horizontal	Pass
2**	1564.012	27.89	54.0	26.12	AV	174.00	100	Horizontal	Pass
3	2850.633	44.79	74.0	29.21	Peak	174.00	200	Horizontal	Pass
3**	2850.633	33.55	54.0	20.45	AV	174.00	200	Horizontal	Pass
4	4148.347	47.53	74.0	26.47	Peak	237.00	400	Horizontal	Pass
4**	4148.347	37.42	54.0	16.58	AV	237.00	400	Horizontal	Pass
5	7672.878	53.97	74.0	20.03	Peak	161.00	400	Horizontal	Pass
5**	7672.878	44.28	54.0	9.72	AV	161.00	400	Horizontal	Pass
6	12481.017	51.63	74.0	22.37	Peak	39.00	300	Horizontal	Pass
6**	12481.017	42.38	54.0	11.62	AV	39.00	300	Horizontal	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1334.076	40.89	74.0	33.12	Peak	205.00	300	Vertical	Pass
1**	1334.076	31.54	54.0	22.46	AV	205.00	300	Vertical	Pass
2	2821.603	43.99	74.0	30.01	Peak	170.00	200	Vertical	Pass
2**	2821.603	33.04	54.0	20.97	AV	170.00	200	Vertical	Pass
3	4139.741	47.30	74.0	26.70	Peak	111.00	200	Vertical	Pass
3**	4139.741	37.91	54.0	16.09	AV	111.00	200	Vertical	Pass
4	7426.538	54.64	74.0	19.36	Peak	314.00	300	Vertical	Pass
4**	7426.538	44.96	54.0	9.04	AV	314.00	300	Vertical	Pass
5	11490.248	51.05	74.0	22.95	Peak	4.00	200	Vertical	Pass
5**	11490.248	41.92	54.0	12.08	AV	4.00	200	Vertical	Pass
6	15911.545	54.26	74.0	19.74	Peak	278.00	100	Vertical	Pass
6**	15911.545	44.24	54.0	9.76	AV	278.00	100	Vertical	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1160.317	37.38	74.0	36.62	Peak	162.00	100	Horizontal	Pass
1**	1160.317	27.49	54.0	26.51	AV	162.00	100	Horizontal	Pass
2	1557.095	37.67	74.0	36.34	Peak	4.00	200	Horizontal	Pass
2**	1557.095	27.99	54.0	26.01	AV	4.00	200	Horizontal	Pass
3	2853.775	44.53	74.0	29.48	Peak	277.00	200	Horizontal	Pass
3**	2853.775	33.36	54.0	20.64	AV	277.00	200	Horizontal	Pass
4	4150.554	47.18	74.0	26.82	Peak	35.00	200	Horizontal	Pass
4**	4150.554	37.31	54.0	16.69	AV	35.00	200	Horizontal	Pass
5	7668.078	53.73	74.0	20.28	Peak	96.00	400	Horizontal	Pass
5**	7668.078	44.18	54.0	9.82	AV	96.00	400	Horizontal	Pass
6	12480.493	51.26	74.0	22.74	Peak	173.00	400	Horizontal	Pass
6**	12480.493	42.43	54.0	11.57	AV	173.00	400	Horizontal	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.213	40.99	74.0	33.01	Peak	146.00	100	Vertical	Pass
1**	1331.213	31.31	54.0	22.69	AV	146.00	100	Vertical	Pass
2	2821.935	43.57	74.0	30.43	Peak	289.00	200	Vertical	Pass
2**	2821.935	33.07	54.0	20.93	AV	289.00	200	Vertical	Pass
3	4141.897	47.13	74.0	26.87	Peak	48.00	200	Vertical	Pass
3**	4141.897	37.65	54.0	16.35	AV	48.00	200	Vertical	Pass
4	7427.750	54.15	74.0	19.85	Peak	258.00	200	Vertical	Pass
4**	7427.750	45.07	54.0	8.93	AV	258.00	200	Vertical	Pass
5	11489.647	51.02	74.0	22.98	Peak	240.00	300	Vertical	Pass
5**	11489.647	41.60	54.0	12.40	AV	240.00	300	Vertical	Pass
6	15908.576	53.95	74.0	20.06	Peak	20.00	400	Vertical	Pass
6**	15908.576	43.95	54.0	10.05	AV	20.00	400	Vertical	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1159.618	37.07	74.0	36.93	Peak	114.00	200	Horizontal	Pass
1**	1159.618	27.53	54.0	26.47	AV	114.00	200	Horizontal	Pass
2	1563.757	37.60	74.0	36.40	Peak	119.00	100	Horizontal	Pass
2**	1563.757	27.79	54.0	26.21	AV	119.00	100	Horizontal	Pass
3	2852.956	44.62	74.0	29.38	Peak	218.00	200	Horizontal	Pass
3**	2852.956	33.26	54.0	20.74	AV	218.00	200	Horizontal	Pass
4	4150.927	47.01	74.0	26.99	Peak	240.00	400	Horizontal	Pass
4**	4150.927	37.28	54.0	16.72	AV	240.00	400	Horizontal	Pass
5	7669.729	53.57	74.0	20.43	Peak	199.00	100	Horizontal	Pass
5**	7669.729	45.02	54.0	8.98	AV	199.00	100	Horizontal	Pass
6	12477.001	51.24	74.0	22.76	Peak	186.00	300	Horizontal	Pass
6**	12477.001	42.01	54.0	12.00	AV	186.00	300	Horizontal	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.713	40.45	74.0	33.55	Peak	104.00	100	Vertical	Pass
1**	1329.713	31.25	54.0	22.75	AV	104.00	100	Vertical	Pass
2	2820.241	43.52	74.0	30.48	Peak	225.00	300	Vertical	Pass
2**	2820.241	32.77	54.0	21.23	AV	225.00	300	Vertical	Pass
3	4137.628	47.33	74.0	26.68	Peak	297.00	200	Vertical	Pass
3**	4137.628	37.66	54.0	16.34	AV	297.00	200	Vertical	Pass
4	7424.200	54.09	74.0	19.91	Peak	169.00	100	Vertical	Pass
4**	7424.200	44.89	54.0	9.11	AV	169.00	100	Vertical	Pass
5	11486.981	50.72	74.0	23.28	Peak	232.00	200	Vertical	Pass
5**	11486.981	41.36	54.0	12.64	AV	232.00	200	Vertical	Pass
6	15905.753	53.89	74.0	20.11	Peak	223.00	100	Vertical	Pass
6**	15905.753	43.91	54.0	10.09	AV	223.00	100	Vertical	Pass

11ac40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.793	36.96	74.0	37.04	Peak	341.00	300	Horizontal	Pass
1**	1161.793	27.33	54.0	26.67	AV	341.00	300	Horizontal	Pass
2	1561.035	37.47	74.0	36.53	Peak	33.00	300	Horizontal	Pass
2**	1561.035	27.80	54.0	26.20	AV	33.00	300	Horizontal	Pass
3	2853.708	44.58	74.0	29.42	Peak	271.00	200	Horizontal	Pass
3**	2853.708	33.02	54.0	20.98	AV	271.00	200	Horizontal	Pass
4	4151.202	46.74	74.0	27.27	Peak	272.00	300	Horizontal	Pass
4**	4151.202	36.91	54.0	17.09	AV	272.00	300	Horizontal	Pass
5	7666.529	53.30	74.0	20.70	Peak	57.00	200	Horizontal	Pass
5**	7666.529	44.98	54.0	9.02	AV	57.00	200	Horizontal	Pass
6	12480.619	51.14	74.0	22.86	Peak	35.00	200	Horizontal	Pass
6**	12480.619	42.01	54.0	11.99	AV	35.00	200	Horizontal	Pass

11ac40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.980	40.47	74.0	33.53	Peak	122.00	200	Vertical	Pass
1**	1328.980	30.97	54.0	23.03	AV	122.00	200	Vertical	Pass
2	2820.966	43.55	74.0	30.45	Peak	272.00	100	Vertical	Pass
2**	2820.966	32.59	54.0	21.41	AV	272.00	100	Vertical	Pass
3	4138.790	47.10	74.0	26.90	Peak	201.00	200	Vertical	Pass
3**	4138.790	37.49	54.0	16.51	AV	201.00	200	Vertical	Pass
4	7427.430	54.16	74.0	19.84	Peak	269.00	300	Vertical	Pass
4**	7427.430	44.85	54.0	9.15	AV	269.00	300	Vertical	Pass
5	11486.270	50.65	74.0	23.35	Peak	48.00	400	Vertical	Pass
5**	11486.270	41.16	54.0	12.84	AV	48.00	400	Vertical	Pass
6	15905.977	53.67	74.0	20.34	Peak	170.00	300	Vertical	Pass
6**	15905.977	43.56	54.0	10.44	AV	170.00	300	Vertical	Pass

11ac40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1155.585	36.88	74.0	37.12	Peak	3.00	300	Horizontal	Pass
1**	1155.585	27.32	54.0	26.68	AV	3.00	300	Horizontal	Pass
2	1559.284	37.23	74.0	36.77	Peak	131.00	300	Horizontal	Pass
2**	1559.284	27.61	54.0	26.39	AV	131.00	300	Horizontal	Pass
3	2852.984	44.43	74.0	29.57	Peak	176.00	200	Horizontal	Pass
3**	2852.984	33.17	54.0	20.83	AV	176.00	200	Horizontal	Pass
4	4149.800	46.67	74.0	27.33	Peak	91.00	200	Horizontal	Pass
4**	4149.800	36.81	54.0	17.20	AV	91.00	200	Horizontal	Pass
5	7673.517	53.20	74.0	20.80	Peak	323.00	200	Horizontal	Pass
5**	7673.517	44.73	54.0	9.27	AV	323.00	200	Horizontal	Pass
6	12474.856	50.96	74.0	23.04	Peak	37.00	200	Horizontal	Pass
6**	12474.856	41.71	54.0	12.29	AV	37.00	200	Horizontal	Pass

11ac40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.001	40.31	74.0	33.69	Peak	60.00	400	Vertical	Pass
1**	1330.001	30.90	54.0	23.10	AV	60.00	400	Vertical	Pass
2	2819.874	43.19	74.0	30.81	Peak	224.00	400	Vertical	Pass
2**	2819.874	32.37	54.0	21.63	AV	224.00	400	Vertical	Pass
3	4138.774	46.57	74.0	27.43	Peak	297.00	200	Vertical	Pass
3**	4138.774	37.12	54.0	16.88	AV	297.00	200	Vertical	Pass
4	7423.052	53.95	74.0	20.05	Peak	196.00	300	Vertical	Pass
4**	7423.052	44.66	54.0	9.35	AV	196.00	300	Vertical	Pass
5	11490.125	50.48	74.0	23.52	Peak	272.00	100	Vertical	Pass
5**	11490.125	40.98	54.0	13.02	AV	272.00	100	Vertical	Pass
6	15907.370	53.29	74.0	20.71	Peak	205.00	400	Vertical	Pass
6**	15907.370	43.47	54.0	10.53	AV	205.00	400	Vertical	Pass

11ac80, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1158.948	36.80	74.0	37.21	Peak	249.00	200	Horizontal	Pass
1**	1158.948	27.28	54.0	26.72	AV	249.00	200	Horizontal	Pass
2	1561.459	37.13	74.0	36.88	Peak	187.00	200	Horizontal	Pass
2**	1561.459	27.38	54.0	26.62	AV	187.00	200	Horizontal	Pass
3	2855.113	44.29	74.0	29.71	Peak	228.00	200	Horizontal	Pass
3**	2855.113	32.74	54.0	21.26	AV	228.00	200	Horizontal	Pass
4	4146.581	46.56	74.0	27.44	Peak	336.00	400	Horizontal	Pass
4**	4146.581	36.72	54.0	17.28	AV	336.00	400	Horizontal	Pass
5	7669.569	53.25	74.0	20.75	Peak	2.00	300	Horizontal	Pass
5**	7669.569	44.55	54.0	9.45	AV	2.00	300	Horizontal	Pass
6	12481.315	50.53	74.0	23.47	Peak	149.00	100	Horizontal	Pass
6**	12481.315	41.80	54.0	12.20	AV	149.00	100	Horizontal	Pass

11ac80, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.276	40.18	74.0	33.82	Peak	259.00	100	Vertical	Pass
1**	1333.276	30.51	54.0	23.49	AV	259.00	100	Vertical	Pass
2	2819.586	43.02	74.0	30.98	Peak	140.00	400	Vertical	Pass
2**	2819.586	32.33	54.0	21.67	AV	140.00	400	Vertical	Pass
3	4136.529	46.36	74.0	27.64	Peak	240.00	200	Vertical	Pass
3**	4136.529	37.04	54.0	16.96	AV	240.00	200	Vertical	Pass
4	7427.431	53.65	74.0	20.35	Peak	282.00	100	Vertical	Pass
4**	7427.431	44.26	54.0	9.74	AV	282.00	100	Vertical	Pass
5	11490.819	50.41	74.0	23.59	Peak	304.00	300	Vertical	Pass
5**	11490.819	40.98	54.0	13.02	AV	304.00	300	Vertical	Pass
6	15908.877	53.48	74.0	20.52	Peak	148.00	100	Vertical	Pass
6**	15908.877	43.33	54.0	10.67	AV	148.00	100	Vertical	Pass

11ax20(SU), U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.418	37.41	74.0	36.59	Peak	56.00	100	Horizontal	Pass
1**	1162.418	28.02	54.0	25.98	AV	56.00	100	Horizontal	Pass
2	1563.177	37.80	74.0	36.20	Peak	324.00	100	Horizontal	Pass
2**	1563.177	28.12	54.0	25.88	AV	324.00	100	Horizontal	Pass
3	2856.832	44.98	74.0	29.02	Peak	302.00	200	Horizontal	Pass
3**	2856.832	33.82	54.0	20.18	AV	302.00	200	Horizontal	Pass
4	4147.669	47.51	74.0	26.49	Peak	27.00	400	Horizontal	Pass
4**	4147.669	37.50	54.0	16.50	AV	27.00	400	Horizontal	Pass
5	7668.087	53.87	74.0	20.13	Peak	189.00	200	Horizontal	Pass
5**	7668.087	44.30	54.0	9.70	AV	189.00	200	Horizontal	Pass
6	12474.751	51.92	74.0	22.08	Peak	2.00	400	Horizontal	Pass
6**	12474.751	42.33	54.0	11.67	AV	2.00	400	Horizontal	Pass

11ax20(SU), U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1336.678	41.03	74.0	32.97	Peak	130.00	400	Vertical	Pass
1**	1336.678	31.80	54.0	22.20	AV	130.00	400	Vertical	Pass
2	2820.049	44.03	74.0	29.97	Peak	100.00	100	Vertical	Pass
2**	2820.049	33.40	54.0	20.60	AV	100.00	100	Vertical	Pass
3	4140.505	47.17	74.0	26.83	Peak	274.00	200	Vertical	Pass
3**	4140.505	37.93	54.0	16.07	AV	274.00	200	Vertical	Pass
4	7425.296	54.51	74.0	19.49	Peak	315.00	300	Vertical	Pass
4**	7425.296	44.98	54.0	9.02	AV	315.00	300	Vertical	Pass
5	11491.697	51.31	74.0	22.69	Peak	147.00	100	Vertical	Pass
5**	11491.697	42.04	54.0	11.96	AV	147.00	100	Vertical	Pass
6	15905.536	54.26	74.0	19.74	Peak	358.00	400	Vertical	Pass
6**	15905.536	44.42	54.0	9.58	AV	358.00	400	Vertical	Pass

11ax20(SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1158.649	37.31	74.0	36.69	Peak	253.00	100	Horizontal	Pass
1**	1158.649	27.59	54.0	26.42	AV	253.00	100	Horizontal	Pass
2	1562.772	37.84	74.0	36.16	Peak	103.00	100	Horizontal	Pass
2**	1562.772	27.97	54.0	26.03	AV	103.00	100	Horizontal	Pass
3	2853.213	44.87	74.0	29.14	Peak	54.00	200	Horizontal	Pass
3**	2853.213	33.50	54.0	20.50	AV	54.00	200	Horizontal	Pass
4	4146.112	47.56	74.0	26.44	Peak	106.00	400	Horizontal	Pass
4**	4146.112	37.57	54.0	16.43	AV	106.00	400	Horizontal	Pass
5	7668.346	53.86	74.0	20.14	Peak	334.00	200	Horizontal	Pass
5**	7668.346	44.25	54.0	9.75	AV	334.00	200	Horizontal	Pass
6	12475.826	51.61	74.0	22.39	Peak	218.00	200	Horizontal	Pass
6**	12475.826	42.48	54.0	11.52	AV	218.00	200	Horizontal	Pass

11ax20(SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.225	41.07	74.0	32.93	Peak	228.00	400	Vertical	Pass
1**	1329.225	31.42	54.0	22.58	AV	228.00	400	Vertical	Pass
2	2823.320	43.72	74.0	30.28	Peak	152.00	100	Vertical	Pass
2**	2823.320	32.90	54.0	21.10	AV	152.00	100	Vertical	Pass
3	4139.252	47.12	74.0	26.88	Peak	342.00	200	Vertical	Pass
3**	4139.252	37.78	54.0	16.22	AV	342.00	200	Vertical	Pass
4	7423.685	54.46	74.0	19.54	Peak	251.00	200	Vertical	Pass
4**	7423.685	44.97	54.0	9.03	AV	251.00	200	Vertical	Pass
5	11488.298	51.14	74.0	22.86	Peak	267.00	200	Vertical	Pass
5**	11488.298	41.85	54.0	12.15	AV	267.00	200	Vertical	Pass
6	15906.353	54.13	74.0	19.87	Peak	299.00	200	Vertical	Pass
6**	15906.353	44.18	54.0	9.83	AV	299.00	200	Vertical	Pass

11ax20(SU), U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1160.299	37.22	74.0	36.78	Peak	163.00	200	Horizontal	Pass
1**	1160.299	27.62	54.0	26.38	AV	163.00	200	Horizontal	Pass
2	1560.778	37.69	74.0	36.31	Peak	209.00	100	Horizontal	Pass
2**	1560.778	27.92	54.0	26.08	AV	209.00	100	Horizontal	Pass
3	2852.409	44.50	74.0	29.50	Peak	345.00	200	Horizontal	Pass
3**	2852.409	33.27	54.0	20.73	AV	345.00	200	Horizontal	Pass
4	4151.096	47.32	74.0	26.68	Peak	249.00	300	Horizontal	Pass
4**	4151.096	37.23	54.0	16.77	AV	249.00	300	Horizontal	Pass
5	7670.816	53.64	74.0	20.36	Peak	115.00	400	Horizontal	Pass
5**	7670.816	44.17	54.0	9.83	AV	115.00	400	Horizontal	Pass
6	12474.866	51.26	74.0	22.74	Peak	303.00	100	Horizontal	Pass
6**	12474.866	42.23	54.0	11.77	AV	303.00	100	Horizontal	Pass

11ax20(SU), U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.350	40.96	74.0	33.05	Peak	201.00	200	Vertical	Pass
1**	1330.350	31.33	54.0	22.67	AV	201.00	200	Vertical	Pass
2	2823.112	43.78	74.0	30.22	Peak	358.00	200	Vertical	Pass
2**	2823.112	33.02	54.0	20.98	AV	358.00	200	Vertical	Pass
3	4140.572	47.35	74.0	26.65	Peak	314.00	200	Vertical	Pass
3**	4140.572	37.68	54.0	16.32	AV	314.00	200	Vertical	Pass
4	7423.504	54.18	74.0	19.83	Peak	42.00	100	Vertical	Pass
4**	7423.504	44.96	54.0	9.04	AV	42.00	100	Vertical	Pass
5	11486.168	51.09	74.0	22.92	Peak	174.00	300	Vertical	Pass
5**	11486.168	41.65	54.0	12.35	AV	174.00	300	Vertical	Pass
6	15908.095	54.03	74.0	19.97	Peak	65.00	200	Vertical	Pass
6**	15908.095	43.90	54.0	10.10	AV	65.00	200	Vertical	Pass

11ax40(SU), U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1157.830	37.15	74.0	36.86	Peak	185.00	200	Horizontal	Pass
1**	1157.830	27.42	54.0	26.58	AV	185.00	200	Horizontal	Pass
2	1558.642	37.76	74.0	36.24	Peak	285.00	200	Horizontal	Pass
2**	1558.642	27.91	54.0	26.09	AV	285.00	200	Horizontal	Pass
3	2853.538	44.59	74.0	29.41	Peak	260.00	200	Horizontal	Pass
3**	2853.538	33.30	54.0	20.70	AV	260.00	200	Horizontal	Pass
4	4150.482	47.25	74.0	26.75	Peak	157.00	100	Horizontal	Pass
4**	4150.482	37.08	54.0	16.92	AV	157.00	100	Horizontal	Pass
5	7666.884	53.55	74.0	20.45	Peak	308.00	100	Horizontal	Pass
5**	7666.884	45.00	54.0	9.00	AV	308.00	100	Horizontal	Pass
6	12480.769	51.37	74.0	22.63	Peak	44.00	200	Horizontal	Pass
6**	12480.769	42.20	54.0	11.80	AV	44.00	200	Horizontal	Pass

11ax40(SU), U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.783	40.67	74.0	33.33	Peak	252.00	400	Vertical	Pass
1**	1333.783	31.28	54.0	22.73	AV	252.00	400	Vertical	Pass
2	2822.327	43.64	74.0	30.37	Peak	272.00	100	Vertical	Pass
2**	2822.327	32.62	54.0	21.38	AV	272.00	100	Vertical	Pass
3	4137.555	47.30	74.0	26.70	Peak	332.00	200	Vertical	Pass
3**	4137.555	37.63	54.0	16.37	AV	332.00	200	Vertical	Pass
4	7424.496	54.10	74.0	19.90	Peak	266.00	300	Vertical	Pass
4**	7424.496	44.91	54.0	9.09	AV	266.00	300	Vertical	Pass
5	11491.331	50.94	74.0	23.06	Peak	73.00	300	Vertical	Pass
5**	11491.331	41.53	54.0	12.47	AV	73.00	300	Vertical	Pass
6	15909.629	53.85	74.0	20.15	Peak	129.00	400	Vertical	Pass
6**	15909.629	43.73	54.0	10.28	AV	129.00	400	Vertical	Pass

11ax40(SU), U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1160.787	36.99	74.0	37.01	Peak	47.00	400	Horizontal	Pass
1**	1160.787	27.29	54.0	26.71	AV	47.00	400	Horizontal	Pass
2	1557.249	37.68	74.0	36.32	Peak	108.00	400	Horizontal	Pass
2**	1557.249	27.72	54.0	26.28	AV	108.00	400	Horizontal	Pass
3	2852.911	44.33	74.0	29.67	Peak	102.00	200	Horizontal	Pass
3**	2852.911	33.23	54.0	20.77	AV	102.00	200	Horizontal	Pass
4	4151.585	46.78	74.0	27.22	Peak	317.00	200	Horizontal	Pass
4**	4151.585	36.88	54.0	17.12	AV	317.00	200	Horizontal	Pass
5	7666.388	53.30	74.0	20.70	Peak	351.00	400	Horizontal	Pass
5**	7666.388	44.86	54.0	9.14	AV	351.00	400	Horizontal	Pass
6	12479.647	50.99	74.0	23.01	Peak	188.00	200	Horizontal	Pass
6**	12479.647	42.16	54.0	11.84	AV	188.00	200	Horizontal	Pass

11ax40(SU), U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.474	40.44	74.0	33.56	Peak	19.00	300	Vertical	Pass
1**	1333.474	30.87	54.0	23.13	AV	19.00	300	Vertical	Pass
2	2819.016	43.42	74.0	30.58	Peak	200.00	200	Vertical	Pass
2**	2819.016	32.71	54.0	21.29	AV	200.00	200	Vertical	Pass
3	4138.514	47.05	74.0	26.95	Peak	41.00	200	Vertical	Pass
3**	4138.514	37.35	54.0	16.65	AV	41.00	200	Vertical	Pass
4	7423.080	54.22	74.0	19.78	Peak	212.00	100	Vertical	Pass
4**	7423.080	44.79	54.0	9.21	AV	212.00	100	Vertical	Pass
5	11489.595	50.61	74.0	23.39	Peak	298.00	200	Vertical	Pass
5**	11489.595	41.26	54.0	12.74	AV	298.00	200	Vertical	Pass
6	15911.117	53.64	74.0	20.36	Peak	336.00	100	Vertical	Pass
6**	15911.117	43.73	54.0	10.27	AV	336.00	100	Vertical	Pass

11ax80(SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1156.999	37.11	74.0	36.90	Peak	48.00	400	Horizontal	Pass
1**	1156.999	27.38	54.0	26.62	AV	48.00	400	Horizontal	Pass
2	1559.989	37.17	74.0	36.83	Peak	76.00	100	Horizontal	Pass
2**	1559.989	27.71	54.0	26.29	AV	76.00	100	Horizontal	Pass
3	2853.929	44.36	74.0	29.65	Peak	131.00	200	Horizontal	Pass
3**	2853.929	33.14	54.0	20.87	AV	131.00	200	Horizontal	Pass
4	4150.212	46.60	74.0	27.40	Peak	55.00	100	Horizontal	Pass
4**	4150.212	36.65	54.0	17.35	AV	55.00	100	Horizontal	Pass
5	7670.478	53.23	74.0	20.77	Peak	87.00	400	Horizontal	Pass
5**	7670.478	44.68	54.0	9.32	AV	87.00	400	Horizontal	Pass
6	12477.229	50.85	74.0	23.15	Peak	79.00	100	Horizontal	Pass
6**	12477.229	41.71	54.0	12.29	AV	79.00	100	Horizontal	Pass

11ax80(SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.222	40.51	74.0	33.49	Peak	264.00	300	Vertical	Pass
1**	1332.222	30.68	54.0	23.32	AV	264.00	300	Vertical	Pass
2	2825.025	43.20	74.0	30.80	Peak	319.00	300	Vertical	Pass
2**	2825.025	32.48	54.0	21.53	AV	319.00	300	Vertical	Pass
3	4142.315	46.85	74.0	27.15	Peak	232.00	200	Vertical	Pass
3**	4142.315	37.20	54.0	16.80	AV	232.00	200	Vertical	Pass
4	7424.758	53.99	74.0	20.01	Peak	298.00	300	Vertical	Pass
4**	7424.758	44.56	54.0	9.44	AV	298.00	300	Vertical	Pass
5	11486.819	50.55	74.0	23.45	Peak	185.00	400	Vertical	Pass
5**	11486.819	40.94	54.0	13.06	AV	185.00	400	Vertical	Pass
6	15903.908	53.50	74.0	20.50	Peak	67.00	100	Vertical	Pass
6**	15903.908	43.44	54.0	10.56	AV	67.00	100	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
U-NII-3	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass
	802.11ax(HE20)(SU)	Low	Pass
		High	Pass
	802.11ax(HE40)(SU)	Low	Pass
		High	Pass
	802.11ax(HE80)(SU)	Middle	Pass

Note ¹: All the configurations were pre tested, only the worst configuration has been reported in this report.

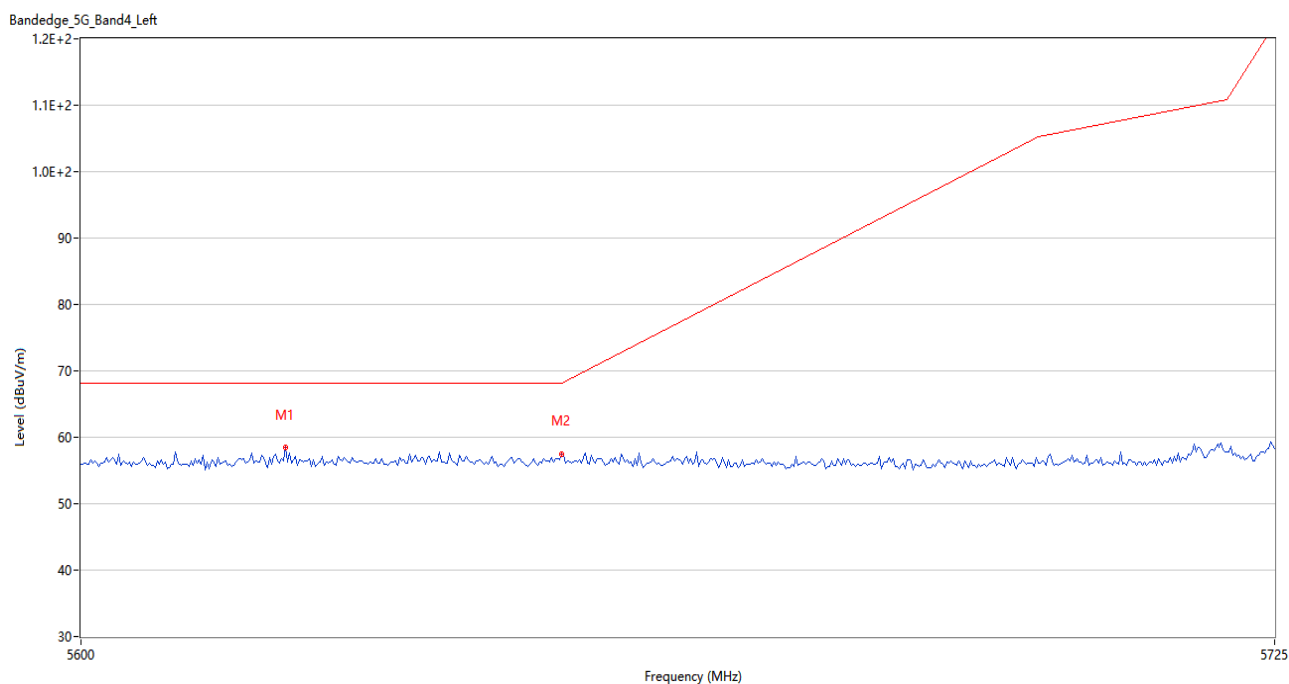
Note ²: All antenna were pre tested, but only the worst case has been reported in this report.

Note ³: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

MIMO

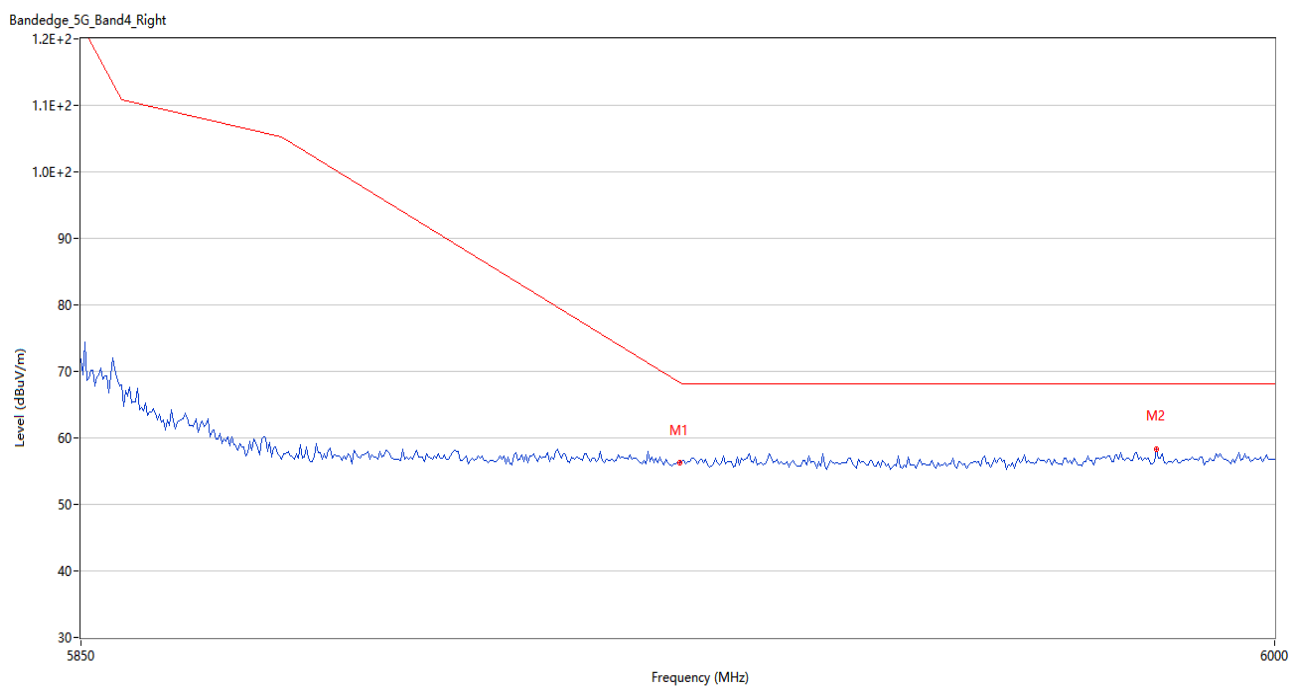
Test Data and Plots

U-NII-3 11a Low Channel



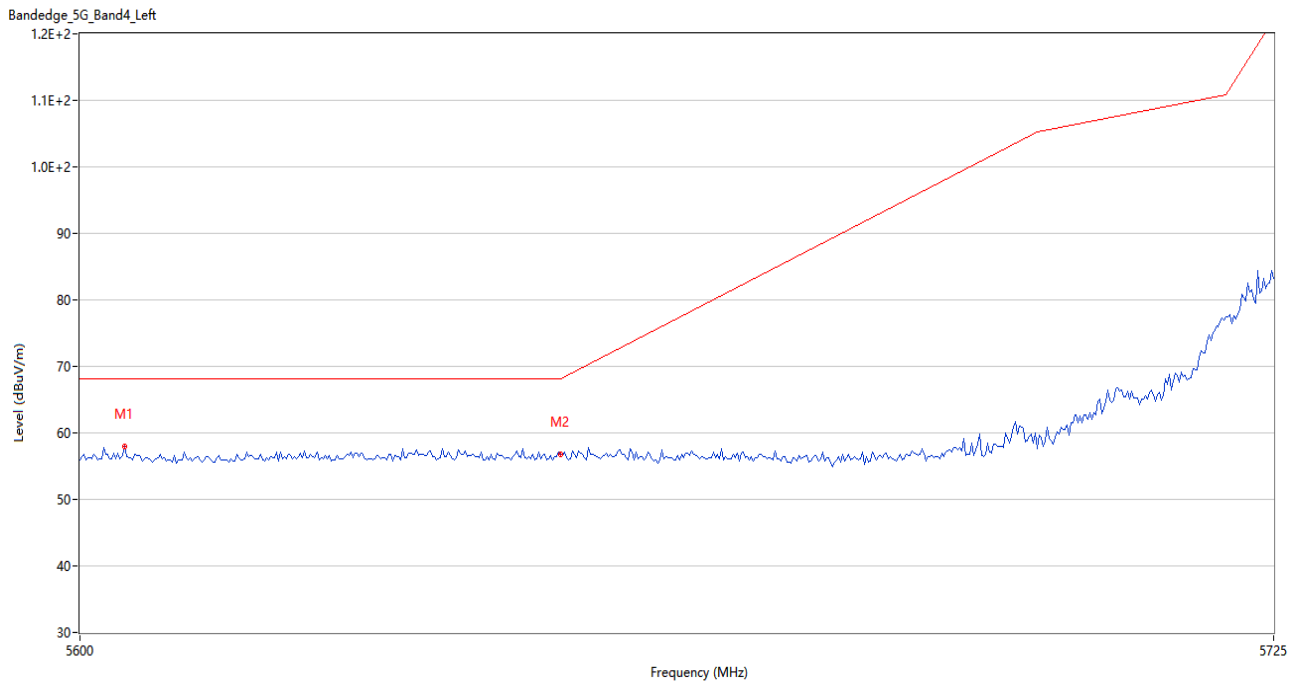
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5621.250	58.41	68.2	9.79	Peak	238.00	150	Vertical	Pass
2	5650.000	57.46	68.2	10.74	Peak	321.00	200	Vertical	Pass

U-NII-3 11a High Channel



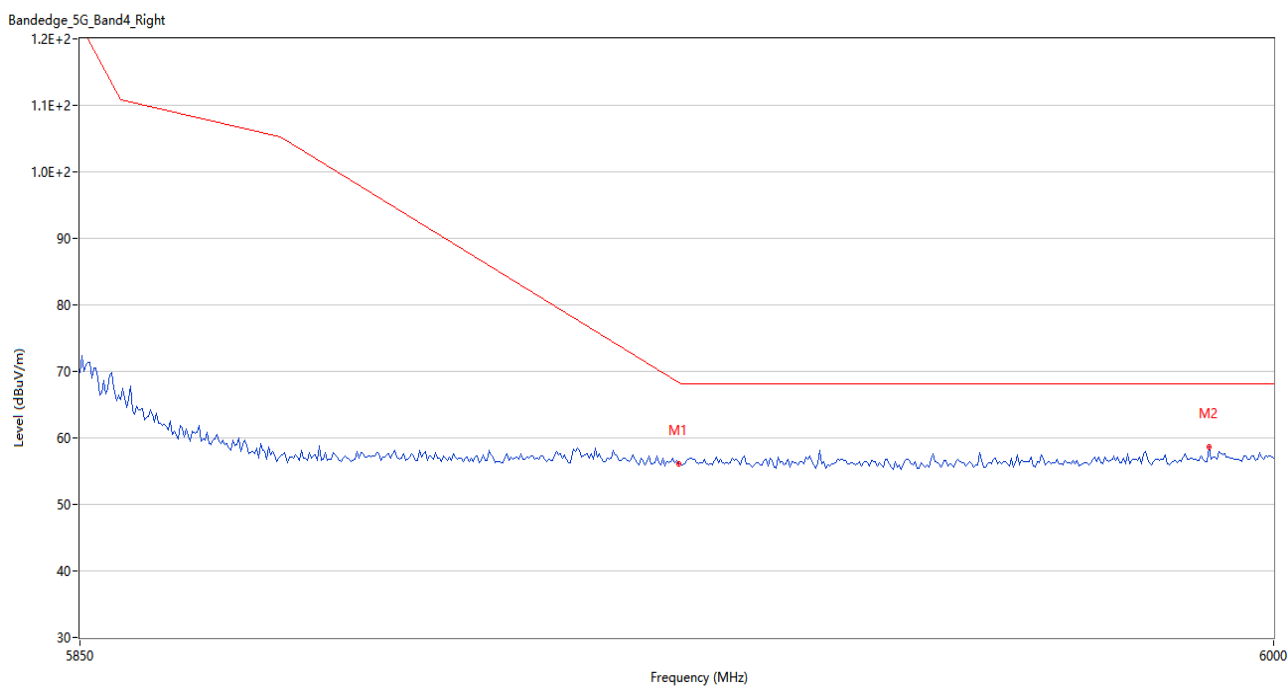
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	56.21	68.4	12.19	Peak	197.00	150	Vertical	Pass
2	5985.000	58.32	68.2	9.88	Peak	306.00	200	Vertical	Pass

U-NII-3 11n20 Low Channel



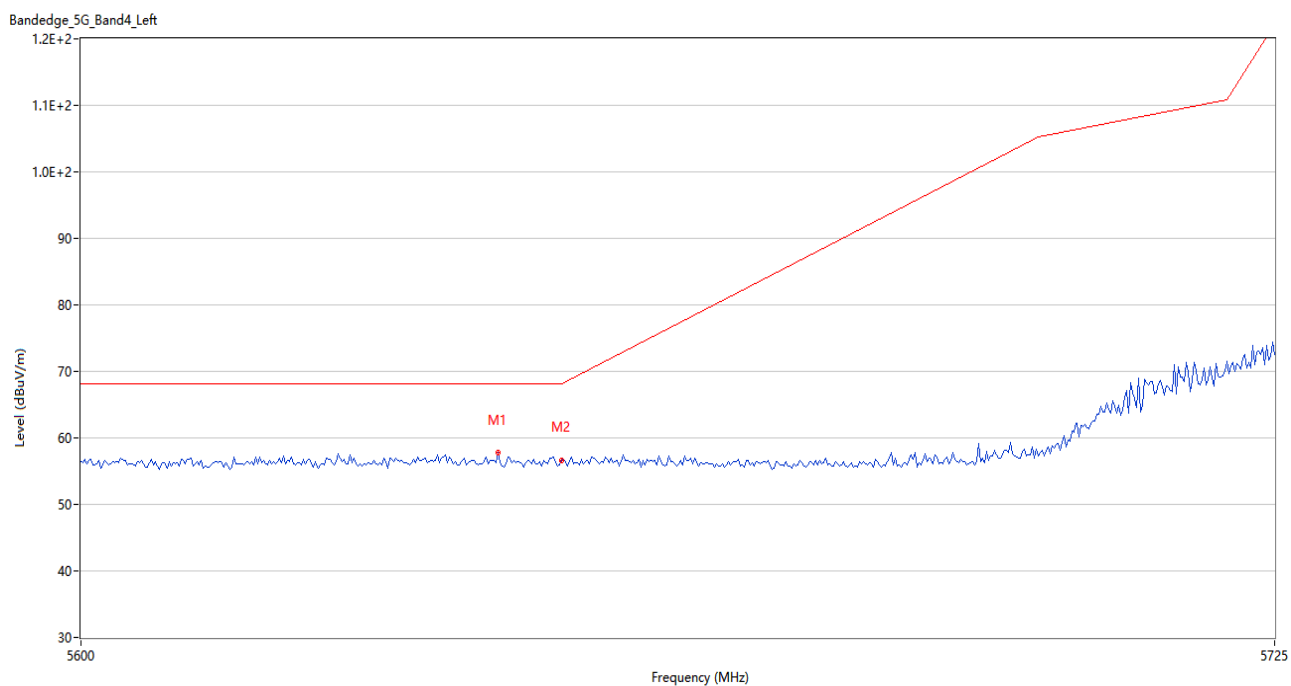
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5604.583	57.89	68.2	10.31	Peak	59.00	200	Vertical	Pass
2	5650.000	56.72	68.2	11.48	Peak	316.00	200	Vertical	Pass

U-NII-3 11n20 High Channel



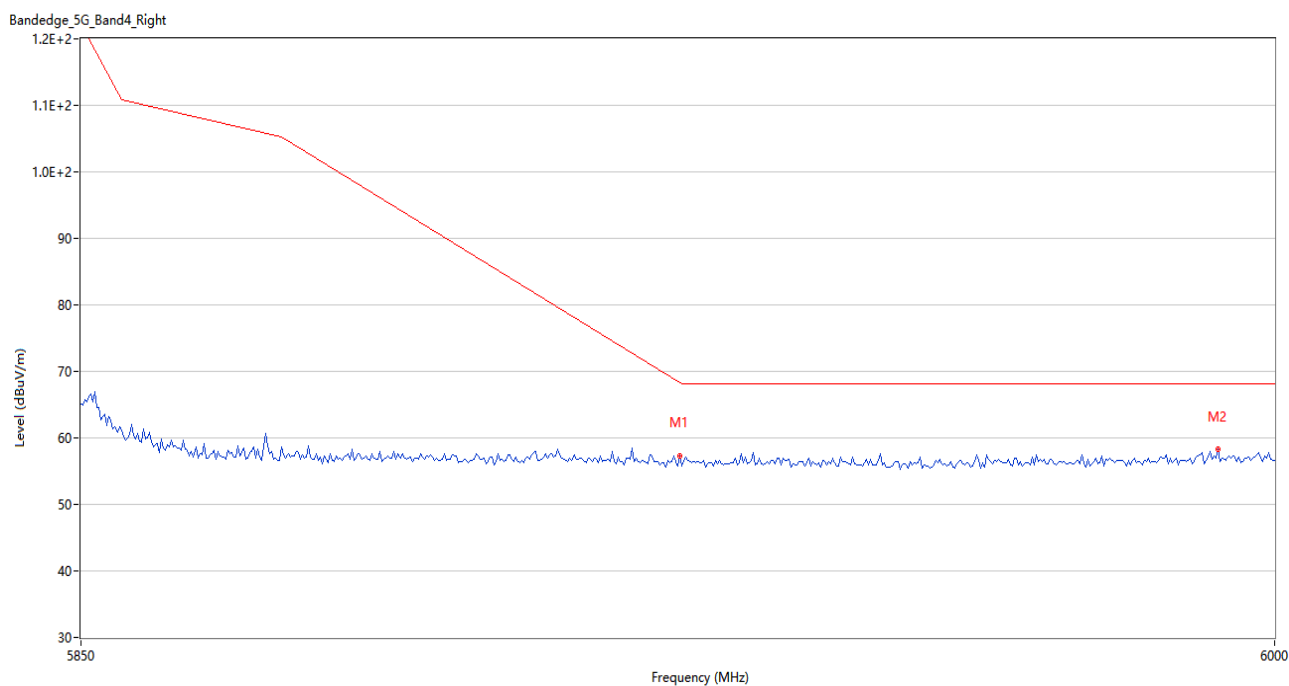
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	56.12	68.4	12.28	Peak	360.00	100	Vertical	Pass
2	5991.750	58.67	68.2	9.53	Peak	213.00	100	Vertical	Pass

U-NII-3 11n40 Low Channel



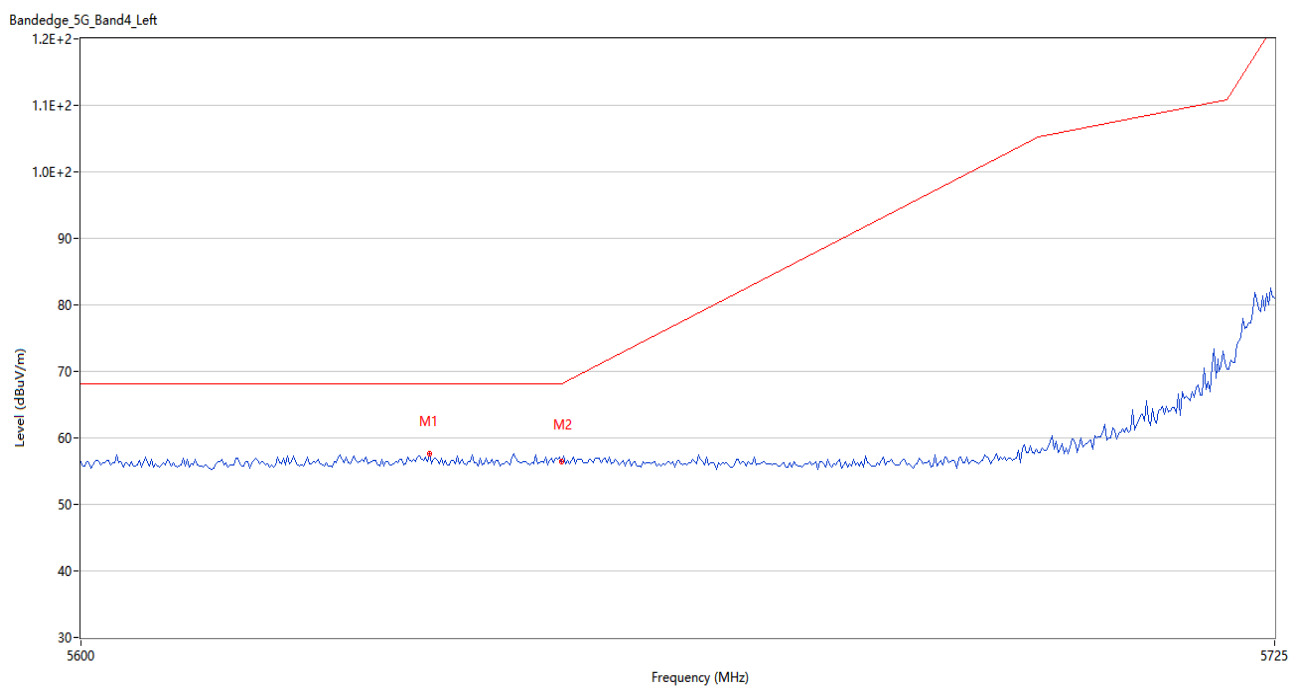
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5643.334	57.71	68.2	10.49	Peak	130.00	200	Vertical	Pass
2	5650.000	56.68	68.2	11.52	Peak	58.00	100	Vertical	Pass

U-NII-3 11n40 High Channel



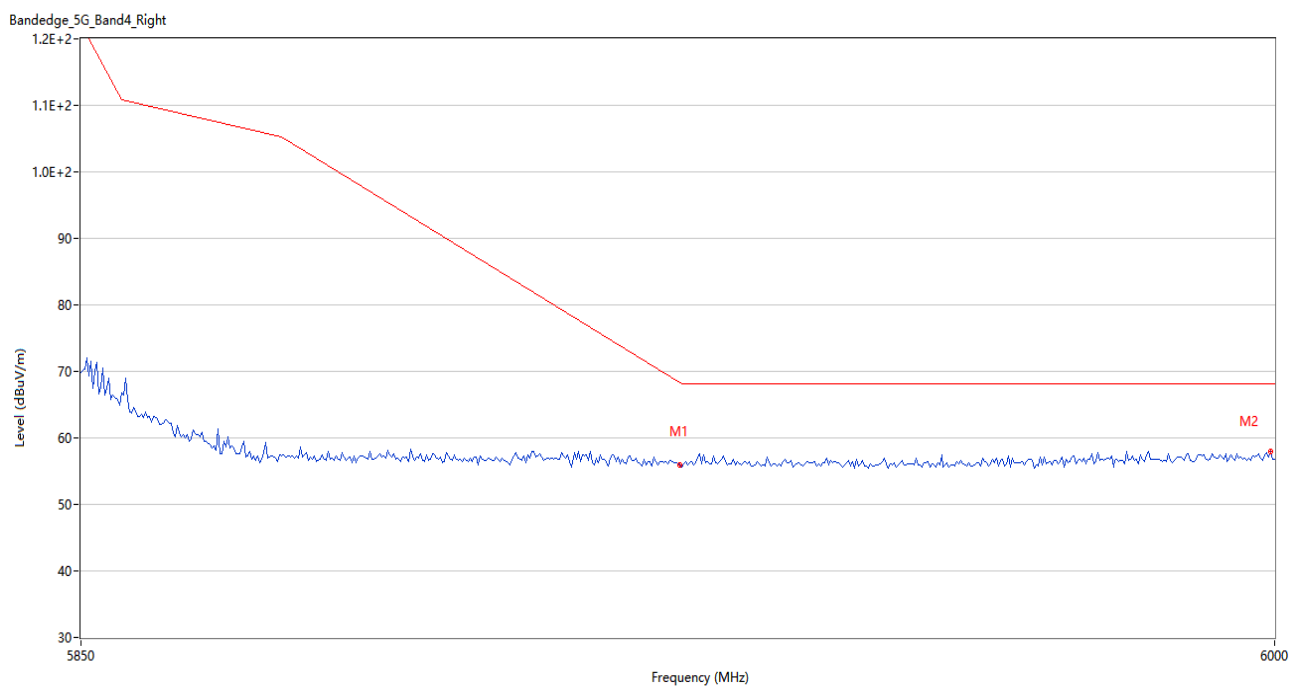
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	57.36	68.4	11.04	Peak	132.00	150	Vertical	Pass
2	5992.750	58.24	68.2	9.96	Peak	192.00	150	Vertical	Pass

U-NII-3 11ac20 Low Channel



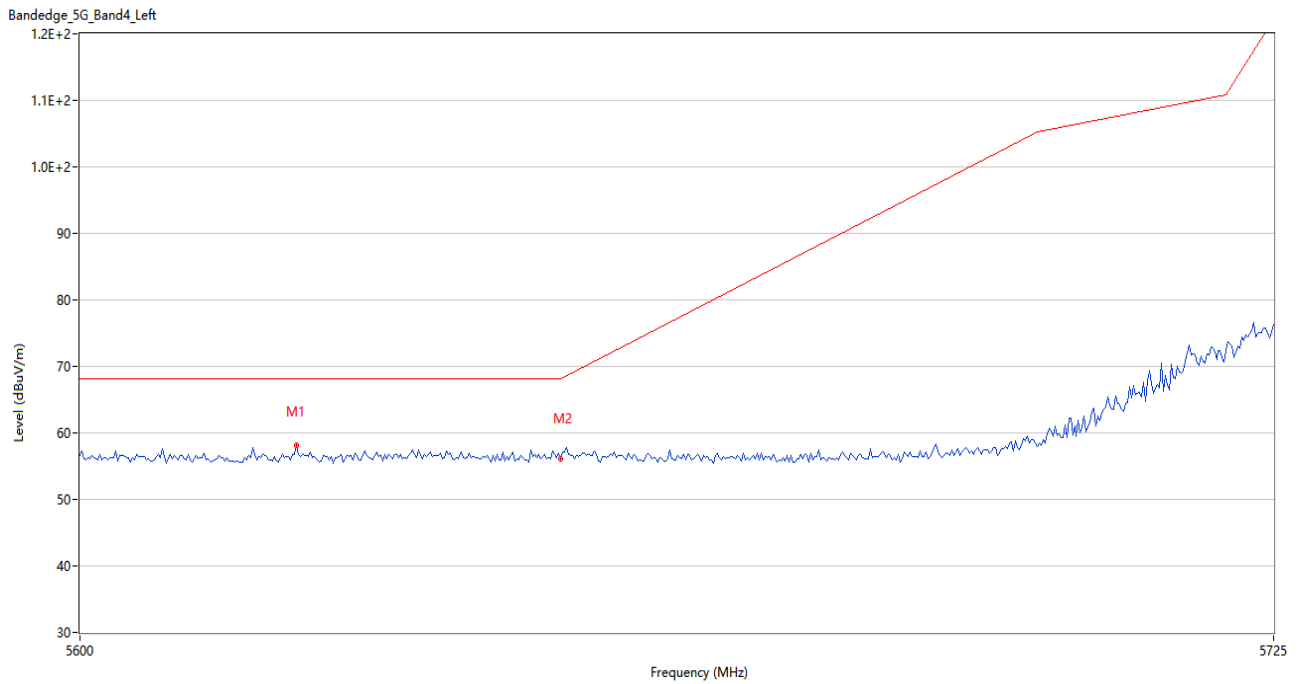
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5636.250	57.62	68.2	10.58	Peak	335.00	200	Vertical	Pass
2	5650.000	56.40	68.2	11.80	Peak	65.00	100	Vertical	Pass

U-NII-3 11ac20 High Channel



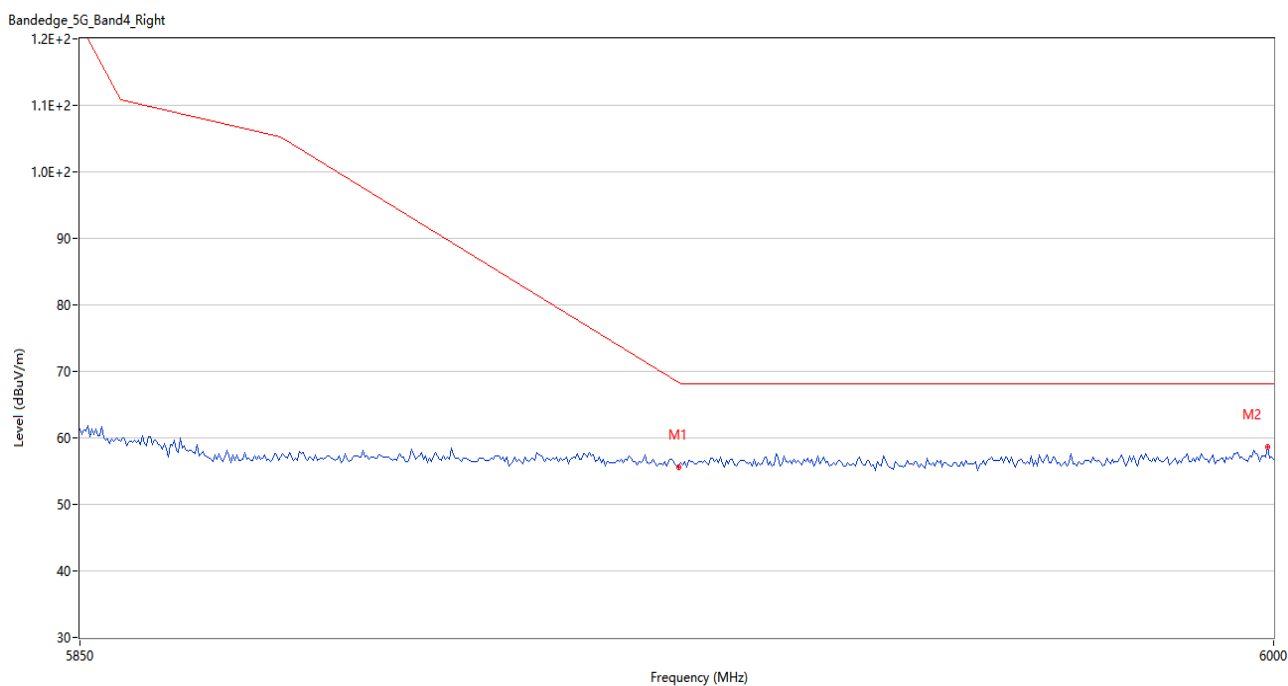
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	55.94	68.4	12.46	Peak	315.00	200	Vertical	Pass
2	5999.500	58.04	68.2	10.16	Peak	92.00	150	Vertical	Pass

U-NII-3 11ac40 Low Channel



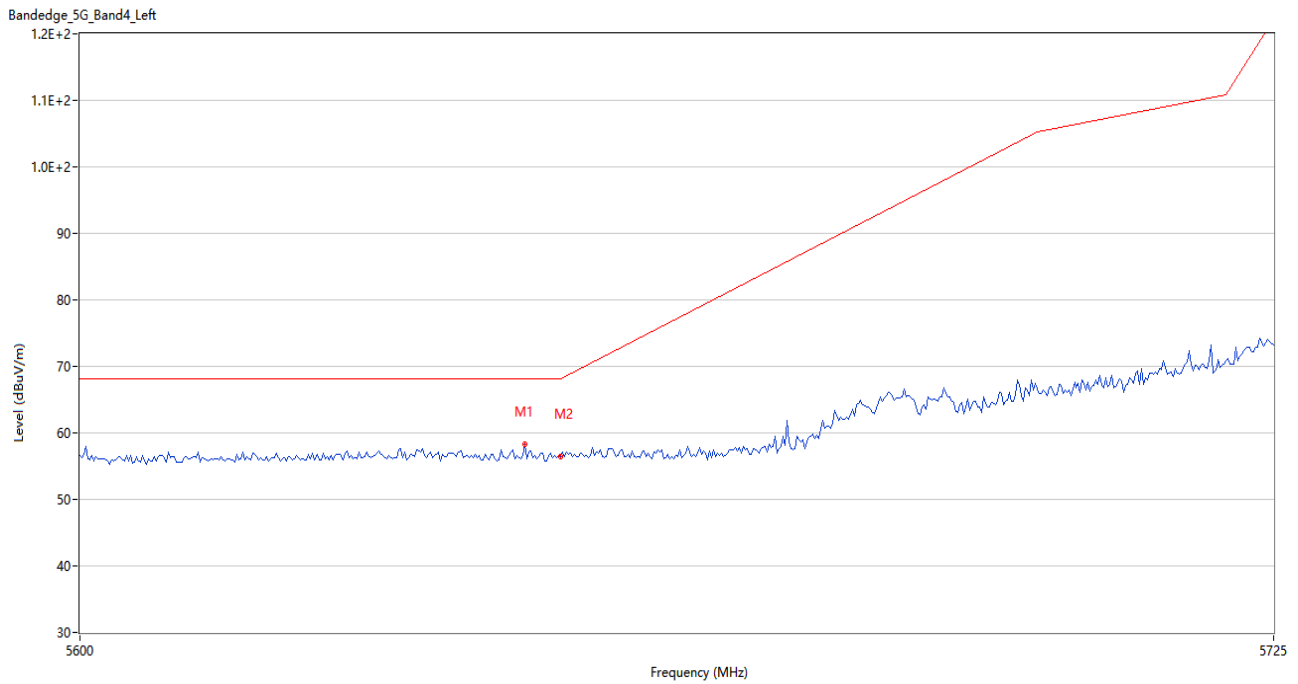
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5622.500	58.19	68.2	10.01	Peak	0.00	100	Vertical	Pass
2	5650.000	56.11	68.2	12.09	Peak	0.00	200	Vertical	Pass

U-NII-3 11ac40 High Channel



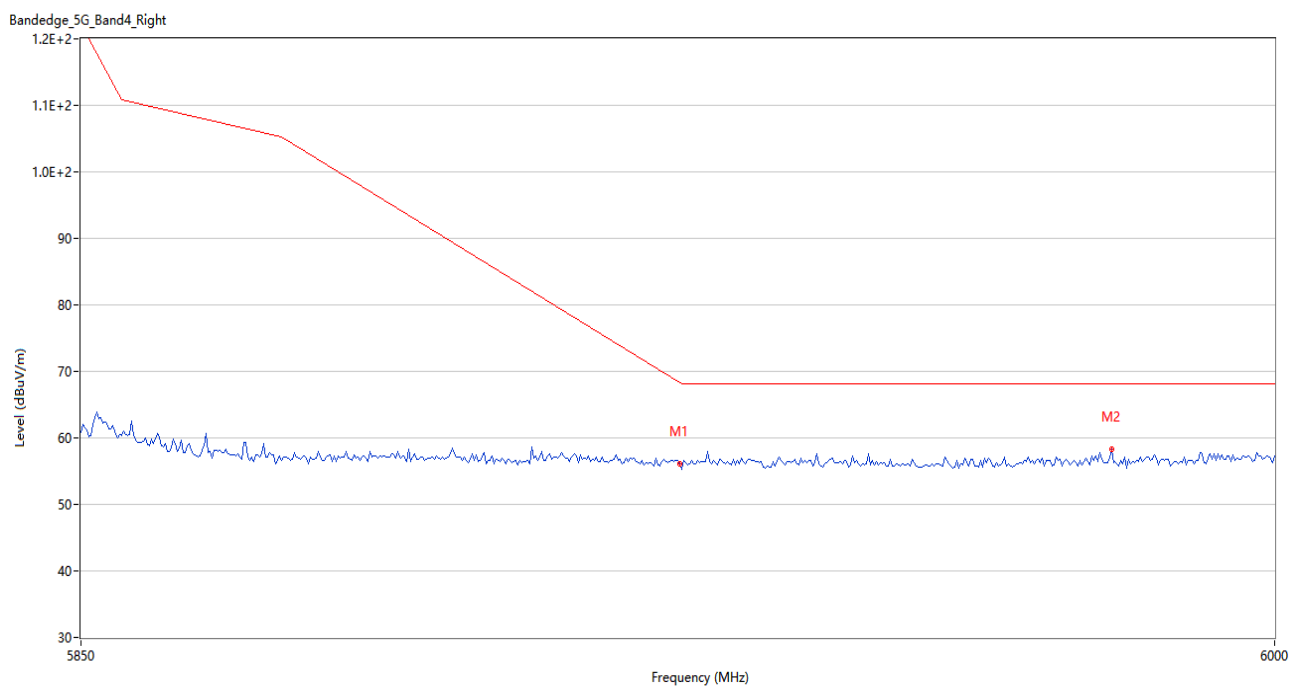
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	55.56	68.4	12.84	Peak	342.00	200	Vertical	Pass
2	5999.250	58.67	68.2	9.53	Peak	279.00	150	Vertical	Pass

U-NII-3 11ac80 Middle Channel



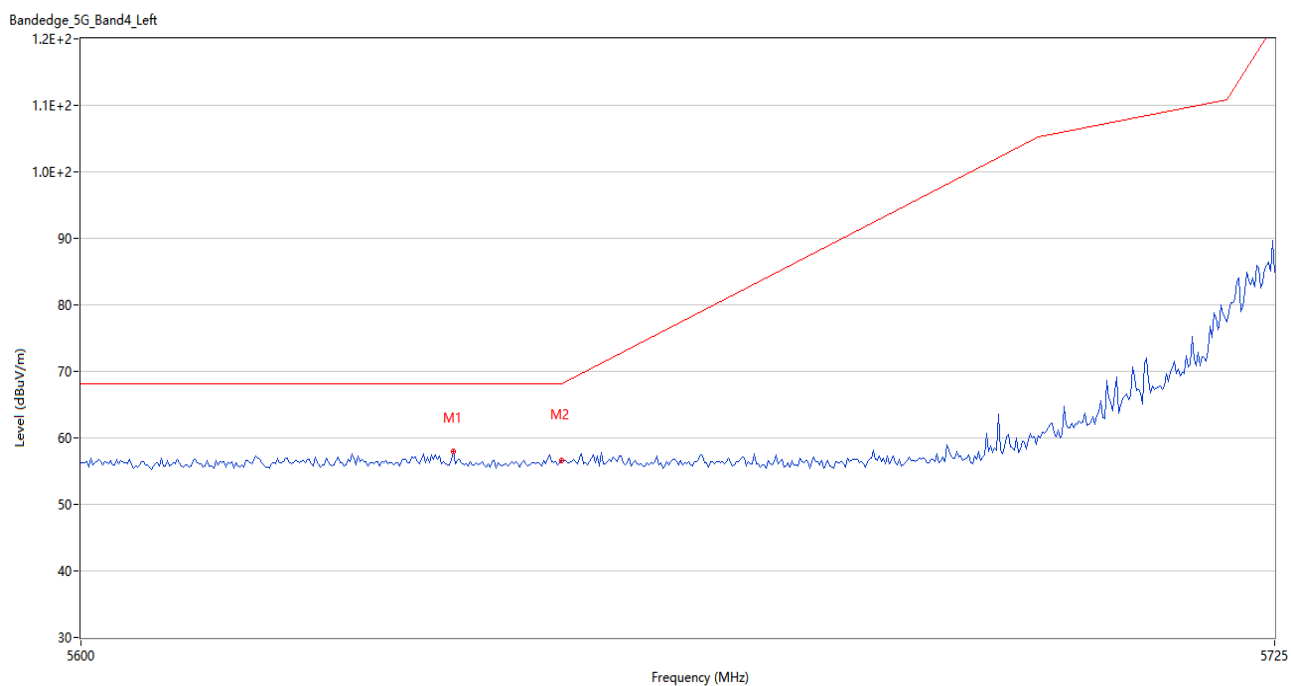
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5646.250	58.24	68.2	9.96	Peak	79.00	150	Vertical	Pass
2	5650.000	56.43	68.2	11.77	Peak	79.00	200	Vertical	Pass

U-NII-3 11ac80 Middle Channel



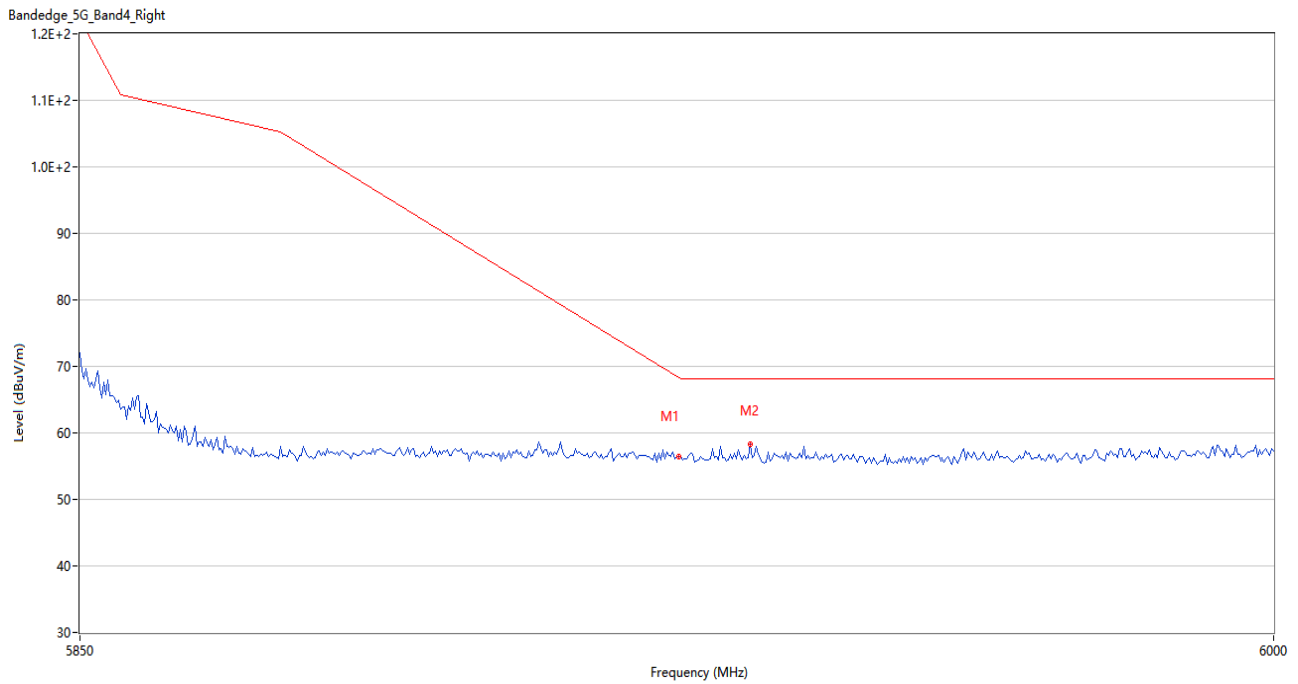
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	56.03	68.4	12.37	Peak	152.00	100	Vertical	Pass
2	5979.250	58.30	68.2	9.90	Peak	350.00	200	Vertical	Pass

U-NII-3 11ax20(SU) Low Channel



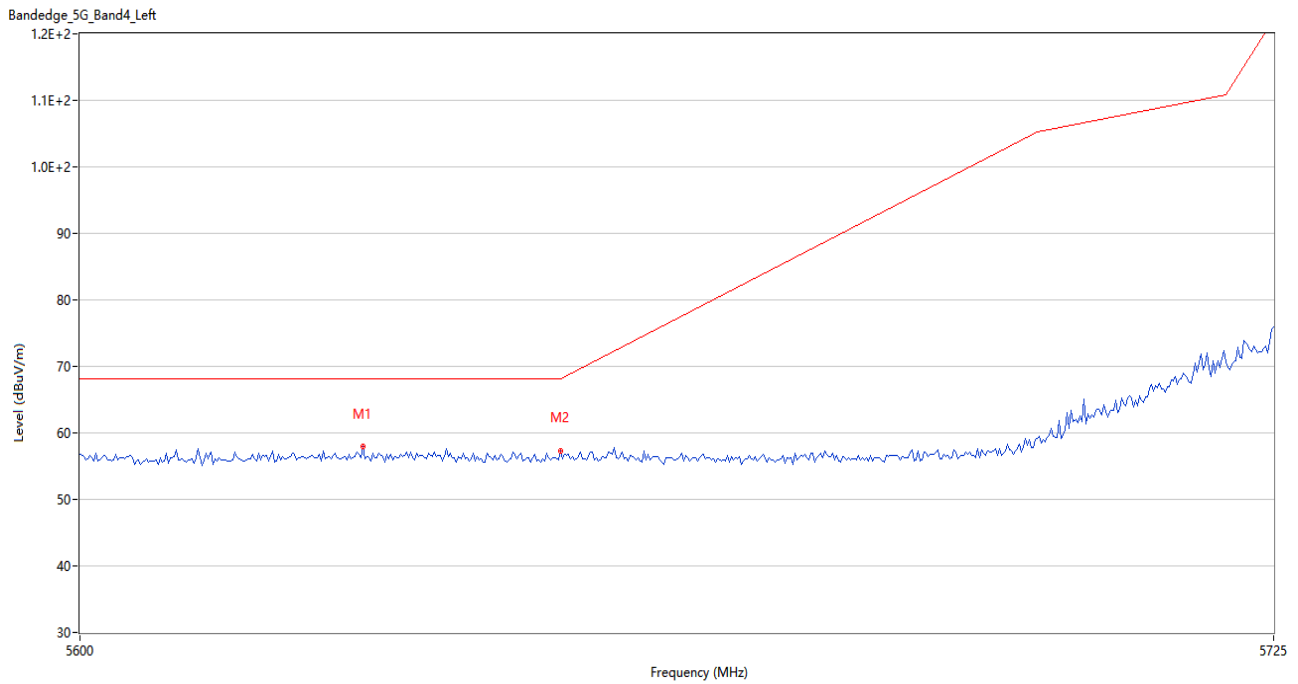
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5638.750	57.99	68.2	10.21	Peak	168.00	150	Vertical	Pass
2	5650.000	56.67	68.2	11.53	Peak	159.00	200	Vertical	Pass

U-NII-3 11ax20(SU) High Channel



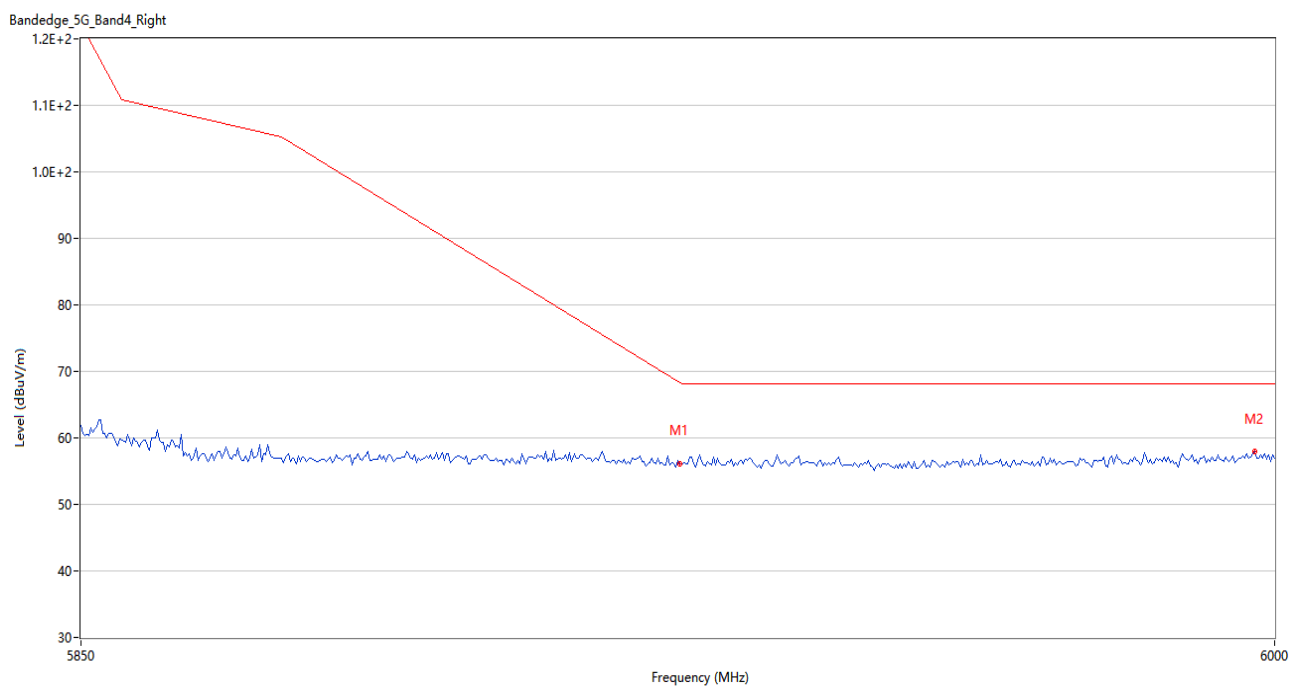
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	56.36	68.4	12.04	Peak	308.00	150	Vertical	Pass
2	5933.750	58.37	68.2	9.83	Peak	358.00	150	Vertical	Pass

U-NII-3 11ax40(SU) Low Channel



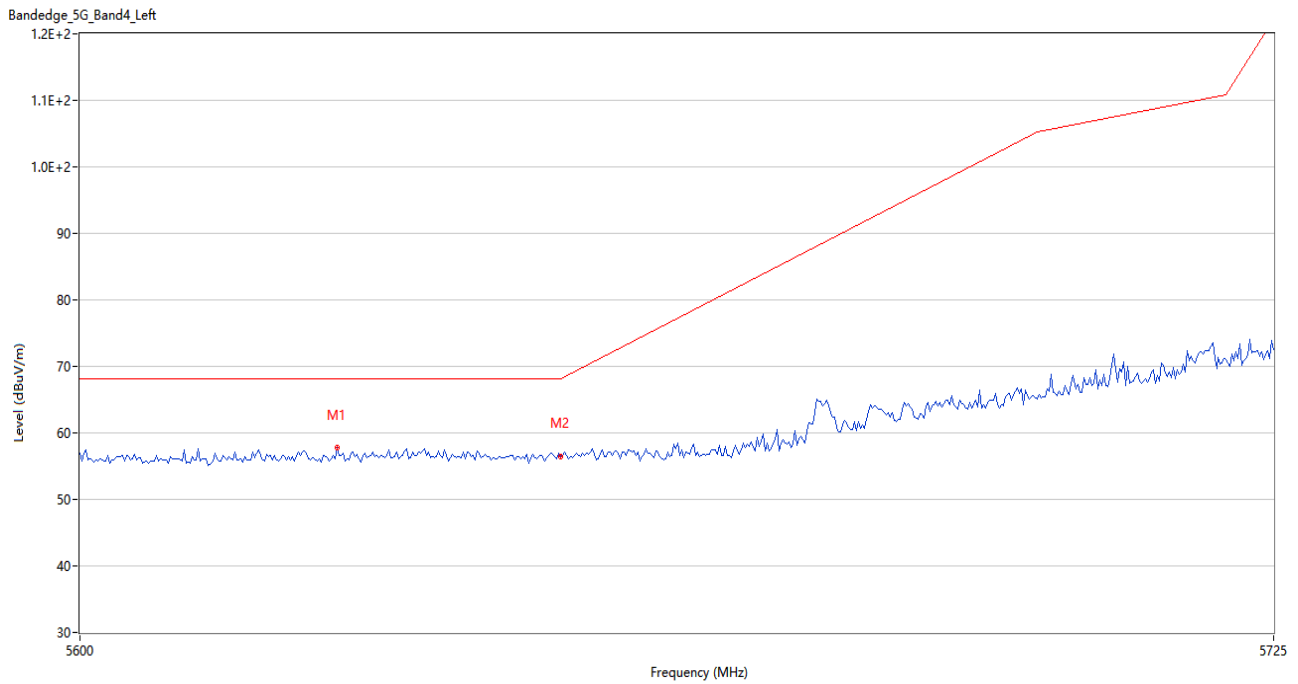
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5629.375	57.93	68.2	10.27	Peak	23.00	200	Vertical	Pass
2	5650.000	57.35	68.2	10.85	Peak	254.00	100	Vertical	Pass

U-NII-3 11ax40(SU) High Channel



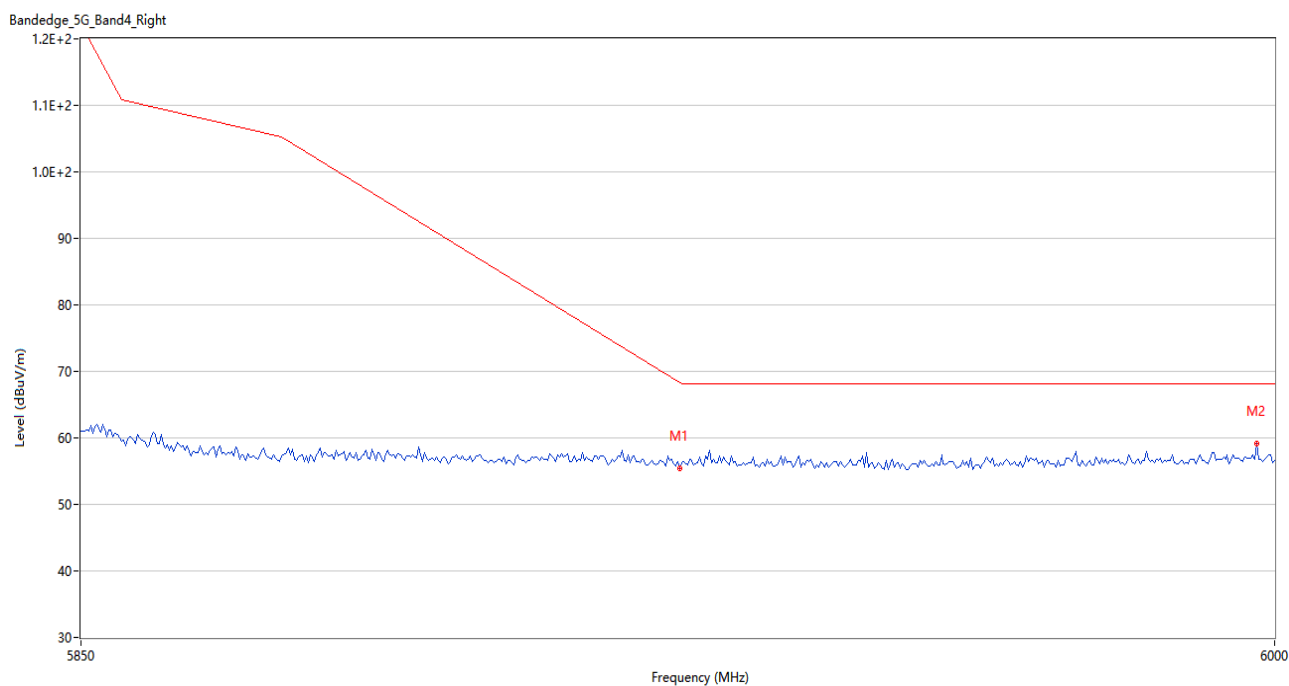
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	56.16	68.4	12.24	Peak	336.00	100	Vertical	Pass
2	5997.500	57.90	68.2	10.30	Peak	257.00	100	Vertical	Pass

U-NII-3 11ax80(SU) Middle Channel



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5626.666	57.76	68.2	10.44	Peak	360.00	150	Vertical	Pass
2	5650.000	56.52	68.2	11.68	Peak	359.00	200	Vertical	Pass

U-NII-3 11ax80(SU) Middle Channel



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	55.39	68.4	13.01	Peak	54.00	100	Vertical	Pass
2	5997.750	59.08	68.2	9.12	Peak	132.00	200	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-EE26080250-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26080250-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26080250-AI.PDF”.

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--END OF REPORT--