TEST REPORT

Applicant:	Shenzhen Ziwu Chuangxin Technology Co., Ltd.
Address:	Room 225, Office Area, Floor 2, Xing He Ling Chuang Tianxia Phase II, Nankeng Community, Bantian Street, Longgang District, Shenzhen Guangdong, P.R. China
Equipment Type:	RESO PILOT PRO
Model Name:	KR700 (refer to section 2.3)
Brand Name:	Reso
FCC ID:	2BUIA-KR700
Test Standard:	47 CFR Part 15 Subpart E (refer to section 3.1)
Sample Arrival Date:	Apr. 24, 2026
Test Date:	Apr. 29, 2026 - May 19, 2026
Date of Issue:	Jul. 02, 2026

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
Rev. 01	Jul. 02, 2026	Initial Issue

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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	Shenzhen Ziwu Chuangxin Technology Co., Ltd.
Address	Room 225, Office Area, Floor 2, Xing He Ling Chuang Tianxia Phase II, Nankeng Community, Bantian Street, Longgang District, Shenzhen Guangdong, P.R. China

2.2 Manufacturer Information

Manufacturer	Shenzhen Ziwu Chuangxin Technology Co., Ltd.
Address	Room 225, Office Area, Floor 2, Xing He Ling Chuang Tianxia Phase II, Nankeng Community, Bantian Street, Longgang District, Shenzhen Guangdong, P.R. China

2.3 General Description for Equipment under Test (EUT)

EUT Name	RESO PILOT PRO
Model Name Under Test	KR700
Series Model Name	KR701 (Product Name: RESO SYNC PRO)
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in product name and model name. All other functional, electrical, and environmental characteristics are identical between the two bases. The only differences are the mechanical interface dimensions and alignment features required to physically mate with the two distinct host bottom case designs. (this information provided by the applicant)
Hardware Version	V4
Software Version	0.2.4.84
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g and 802.11n 2.4G ISM Band, GPS, GLONASS, Galileo, BDS

The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-3: 5725 MHz to 5850 MHz
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Modulation technology	OFDM
Modulation Type	64QAM, 16QAM, BPSK, QPSK
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz
Maximum Output Power	U-NII-1: 9.71 mW U-NII-3: 9.62 mW
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PCB Antenna
Antenna Gain	2.9 dBi
About the Product	The equipment is RESO PILOT PRO, intended for used with information technology equipment.

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	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	**5180**	**38**	**5190**
40	5200	**46**	**5230**
44	**5220**	**151**	**5755**
48	**5240**	**159**	**5795**
149	**5745**		
153	5765		
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)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	149	Low	5745
44	Mid	5220	157	Mid	5785
48	High	5240	165	High	5825

For 802.11n(HT40)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	151	Low	5755
46	High	5230	159	High	5795

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-1	U-NII-3
				Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
6 dB bandwidth	11a	6	BPSK	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	165/157/149
	11n(40 MHz)	13.5		N/A	159/151
Power Spectral Density	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
Band Edge (Restricted-band)	11a	6	BPSK	48/36	165/149
	11n(20 MHz)	6.5		48/36	165/149
	11n(40 MHz)	13.5		46/38	159/151

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	ANSI C63.10-2020	American National Standard for Procedures for Compliance Testing of Unlicensed Wireless Devices
3	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E

3.2 Test Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass[Note1]
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	41% to 69%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+18.3℃ to +26.9℃
Working Voltage of the EUT	NV (Normal Voltage)	3.85 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420186	2025.05.21	2026.05.20
Power meter	R&S	NRP8S	101498	2025.07.07	2026.07.06
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2025.10.30	2026.10.29
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Test Antenna-Bi-Log	Schwarzbeck	VULB 9163	01414	2023.11.03	2026.11.02
Test Antenna-Horn	Schwarzbeck	BBHA 9120D	02459	2023.10.26	2026.10.25
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Anechoic Chamber	YIHENG	C8-966	N/A	2024.05.12	2027.05.11
EMI Receiver	Keysight	N9038A	MY55330121	2025.12.26	2026.12.25
Filtering unit	balun	SU319F	LW-SZ19D0001F01	N/A	N/A
Switching unit	BALUN	SU319	LW-SZ19D0001S01	N/A	N/A
EMI Receiver	keysight	N9038B	MY61380132	2025.12.26	2026.12.25
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK8127	01009	2025.07.15	2026.07.14
Shielded Enclosure	YiHeng Electronic Co., Ltd	4.3m*2.9m*2.4m	235	2024.11.05	2027.11.04

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.

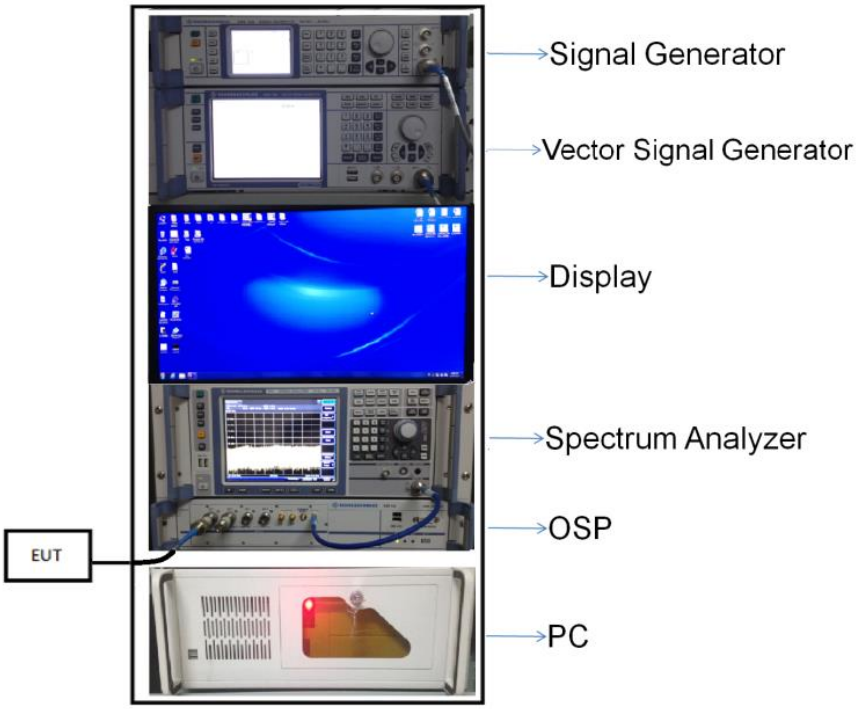
Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

4.5 Description of Test Setup

4.5.1 For Antenna Port Test

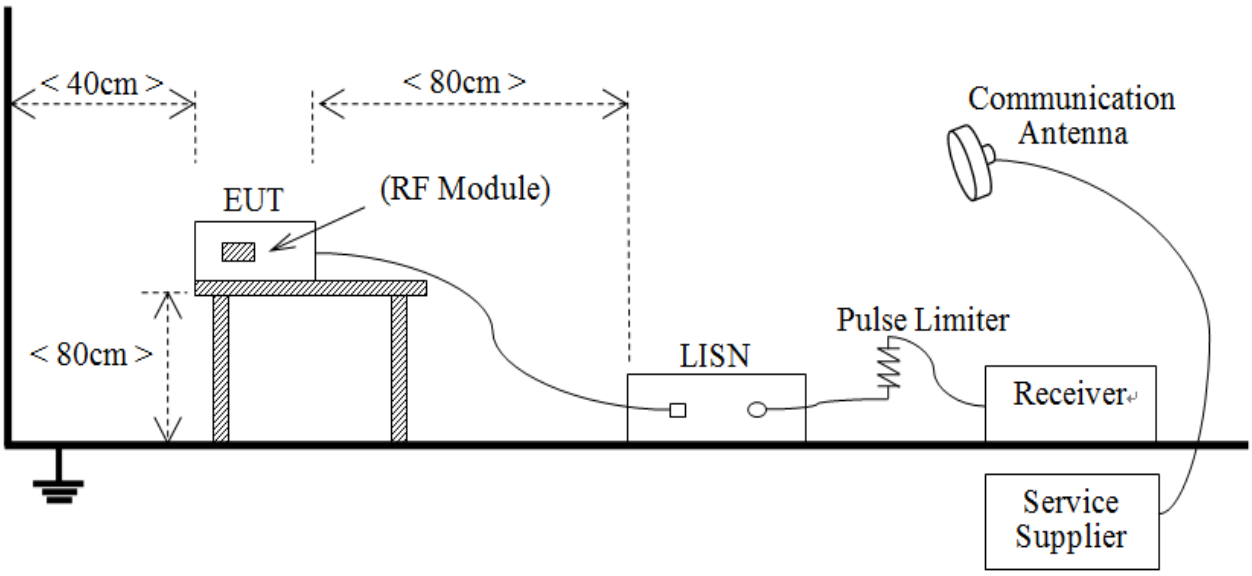
Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

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



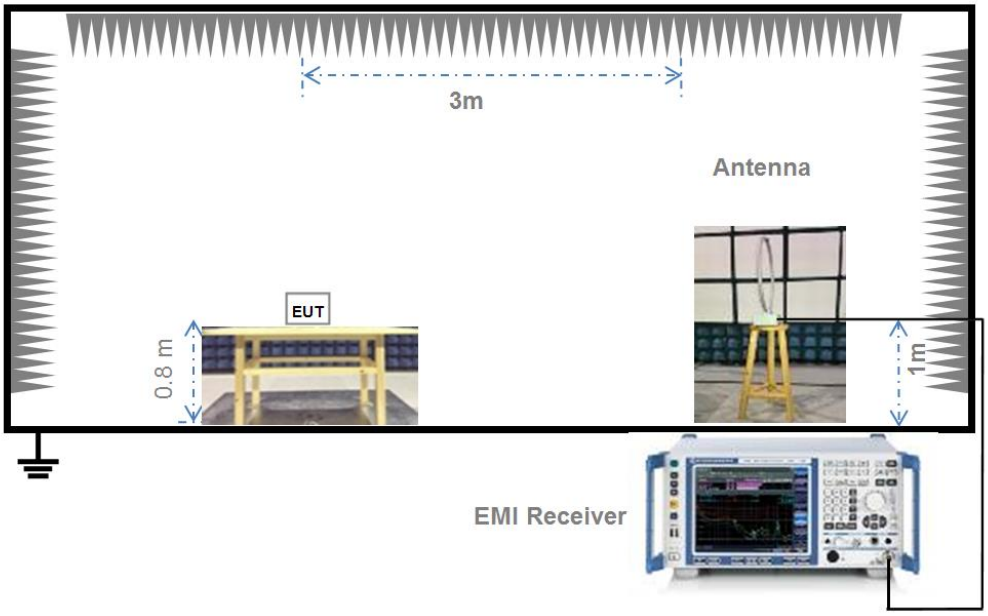
(Diagram 1)

4.5.2 For AC Power Supply Port Test



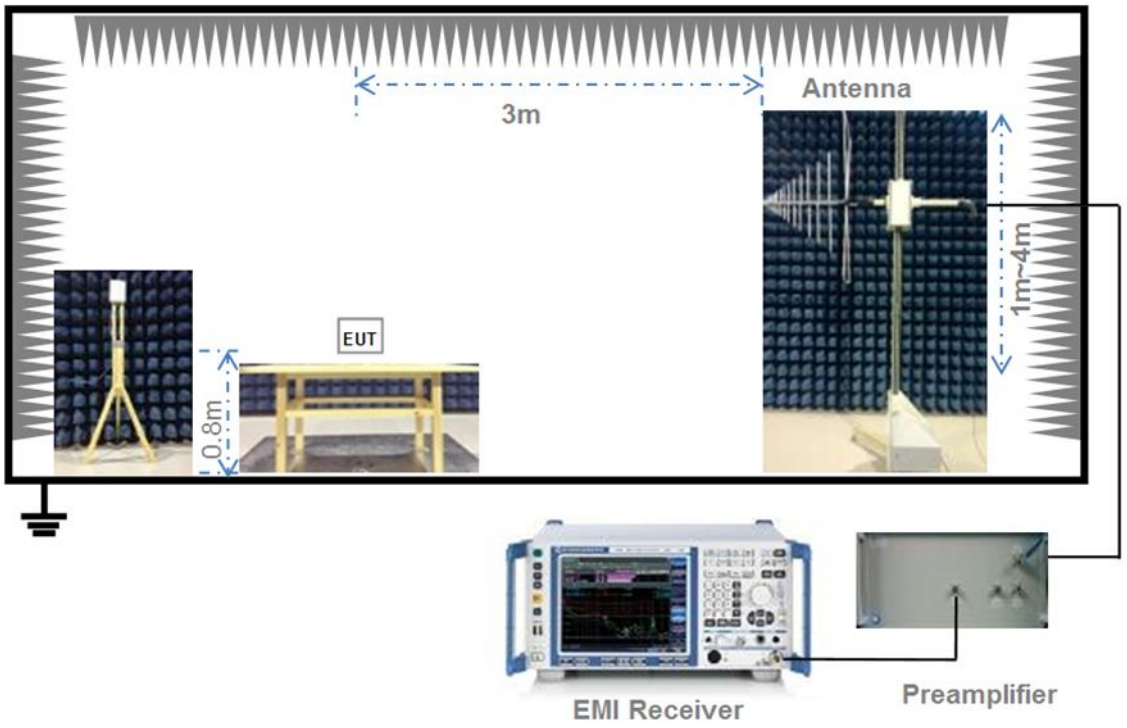
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



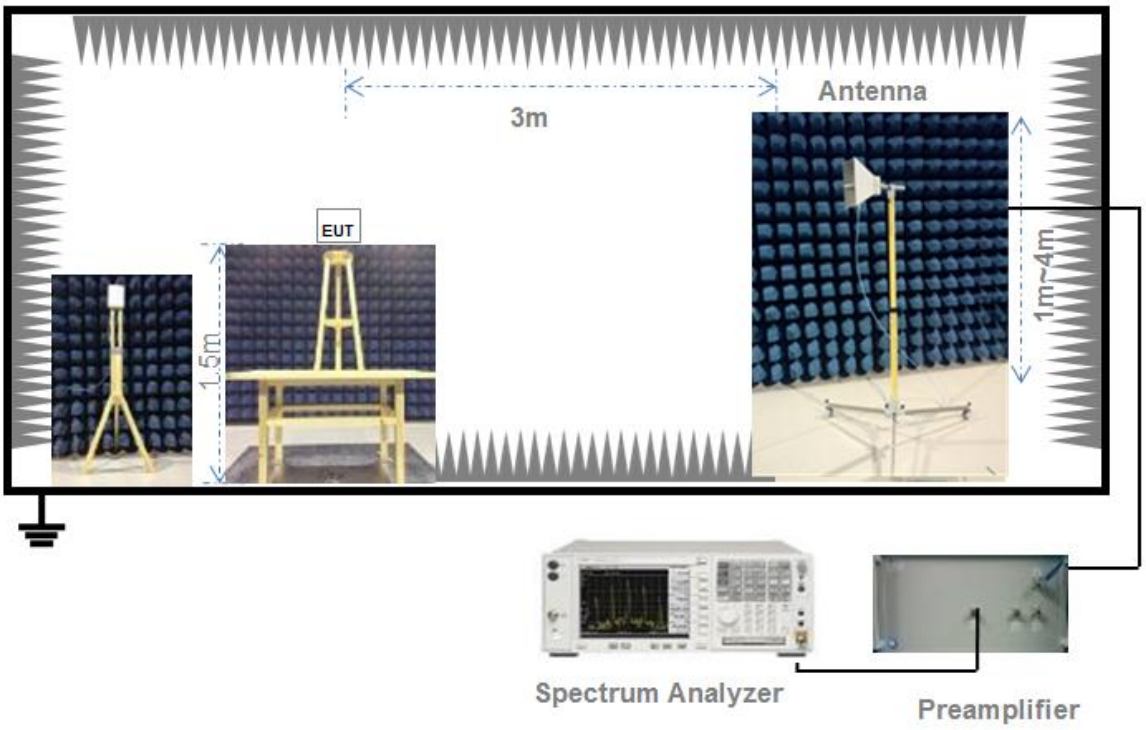
(Diagram 3)

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 ≥ 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 ≤ 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 ≥ 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 ≥ 3*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) ≥ 3*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 ≥ 3*VBW.
5. Number of points in sweep ≥ 2 × span / RBW. (This ensures that bin-to-bin spacing is ≤ 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.
1. 11. Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log (1/0.25) = 6 dB if the duty cycle is 25%.

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 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	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 (μV/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

a) 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).

b) 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)

c) 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).

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 = EIRP – 20log D + 104.8

where:

E = electric field strength in dBμV/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 ≥ 3 x 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 ≥ 3 x RBW.

e) Detector = RMS, if span/(# of points in sweep) ≤ (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 ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ 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 ≥ 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 ≥ [3 × RBW].

Detector = Power averaging (rms), if [span / (# of points in sweep)] ≤ (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 (femission) ± 0.5 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 femission) ± 0.5 MHz.

If continuous transmission of the EUT (D ≥ 98%) cannot be achieved and the duty cycle is constant (duty cycle variations are less ±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 ≥ [3 × RBW].

Detector = Power averaging (rms), if [span / (# of points in sweep)] ≤ (RBW / 2).

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

Detector = Power averaging (rms), if [span / (# of points in sweep)] ≤ (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 (femission) ± 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 femission ± 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 ≥ 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: 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.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11a	50.00	50.00	100.00%	0.00
11n(HT20)	50.00	50.00	100.00%	0.00
11n(HT40)	50.00	50.00	100.00%	0.00

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	9.86	9.68	250	Pass
11a	CH44	9.87	9.71	250	Pass
11a	CH48	8.27	6.71	250	Pass
11n(HT20)	CH36	8.26	6.70	250	Pass
11n(HT20)	CH44	8.05	6.38	250	Pass
11n(HT20)	CH48	7.85	6.10	250	Pass
11n(HT40)	CH38	5.58	3.61	250	Pass
11n(HT40)	CH46	5.94	3.93	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	9.67	9.27	1000	Pass
11a	CH157	9.79	9.53	1000	Pass
11a	CH165	9.73	9.40	1000	Pass
11n(HT20)	CH149	9.79	9.53	1000	Pass
11n(HT20)	CH157	9.77	9.48	1000	Pass
11n(HT20)	CH165	9.79	9.53	1000	Pass
11n(HT40)	CH151	9.73	9.40	1000	Pass
11n(HT40)	CH159	9.83	9.62	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document “Annex No.: Ti-EE26040641-607 Data Part 1.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	20.06	16.72
11a	CH44	20.48	16.74
11a	CH48	20.02	16.82
11n(HT20)	CH36	20.35	17.70
11n(HT20)	CH44	22.30	17.73
11n(HT20)	CH48	22.74	17.75
11n(HT40)	CH38	43.05	36.30
11n(HT40)	CH46	56.83	36.37

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	20.01	16.79
11a	CH157	20.04	16.91
11a	CH165	20.06	16.99
11n(HT20)	CH149	32.23	17.85
11n(HT20)	CH157	32.41	17.87
11n(HT20)	CH165	34.31	17.88
11n(HT40)	CH151	82.17	36.54
11n(HT40)	CH159	78.22	36.59

A.3 6 dB Bandwidth

Note: Test plots please refer to the document “Annex No.: Ti-EE26040641-607 Data Part 2.pdf”.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.70	500.00	Pass
11a	CH157	16.70	500.00	Pass
11a	CH165	16.70	500.00	Pass
11n(HT20)	CH149	17.90	500.00	Pass
11n(HT20)	CH157	17.90	500.00	Pass
11n(HT20)	CH165	17.90	500.00	Pass
11n(HT40)	CH151	36.80	500.00	Pass
11n(HT40)	CH159	36.80	500.00	Pass

A.4 Power Spectral Density

Note: Test plots please refer to the document “Annex No.: Ti-EE26040641-607 Data Part 3.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)						
Mode	Channel	Measured PSD (dBm/MHz)	Duty Factor	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	-1.51	0.00	-1.51	11.00	Pass
11a	CH44	-1.63	0.00	-1.63	11.00	Pass
11a	CH48	-3.58	0.00	-3.58	11.00	Pass
11n(HT20)	CH36	-3.30	0.00	-3.30	11.00	Pass
11n(HT20)	CH44	-3.65	0.00	-3.65	11.00	Pass
11n(HT20)	CH48	-3.86	0.00	-3.86	11.00	Pass
11n(HT40)	CH38	-9.04	0.00	-9.04	11.00	Pass
11n(HT40)	CH46	-8.20	0.00	-8.20	11.00	Pass

U-NII-3 (5725 - 5850 MHz)						
Mode	Channel	Measured PSD (dBm/500kHz)	Duty Factor	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	-4.31	0.00	-4.31	30.00	Pass
11a	CH157	-4.29	0.00	-4.29	30.00	Pass
11a	CH165	-4.54	0.00	-4.54	30.00	Pass
11n(HT20)	CH149	-4.47	0.00	-4.47	30.00	Pass
11n(HT20)	CH157	-4.49	0.00	-4.49	30.00	Pass
11n(HT20)	CH165	-4.71	0.00	-4.71	30.00	Pass
11n(HT40)	CH151	-7.42	0.00	-7.42	30.00	Pass
11n(HT40)	CH159	-7.58	0.00	-7.58	30.00	Pass

A.5 Conducted Emissions

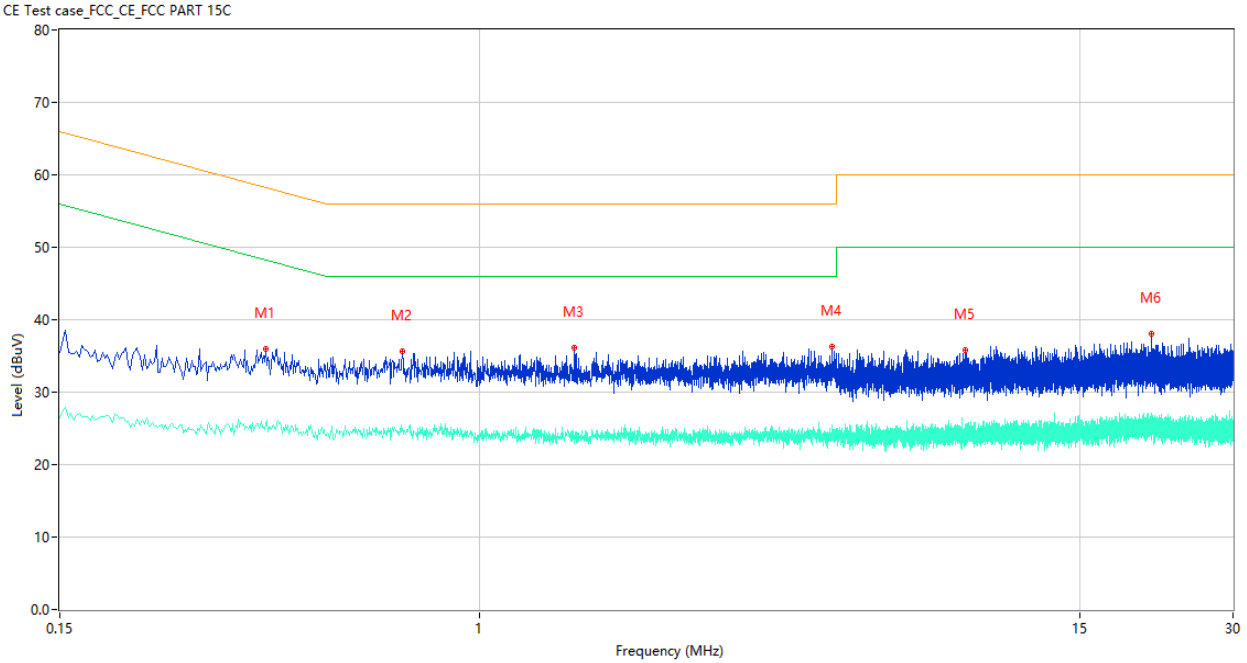
Note [1]: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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)

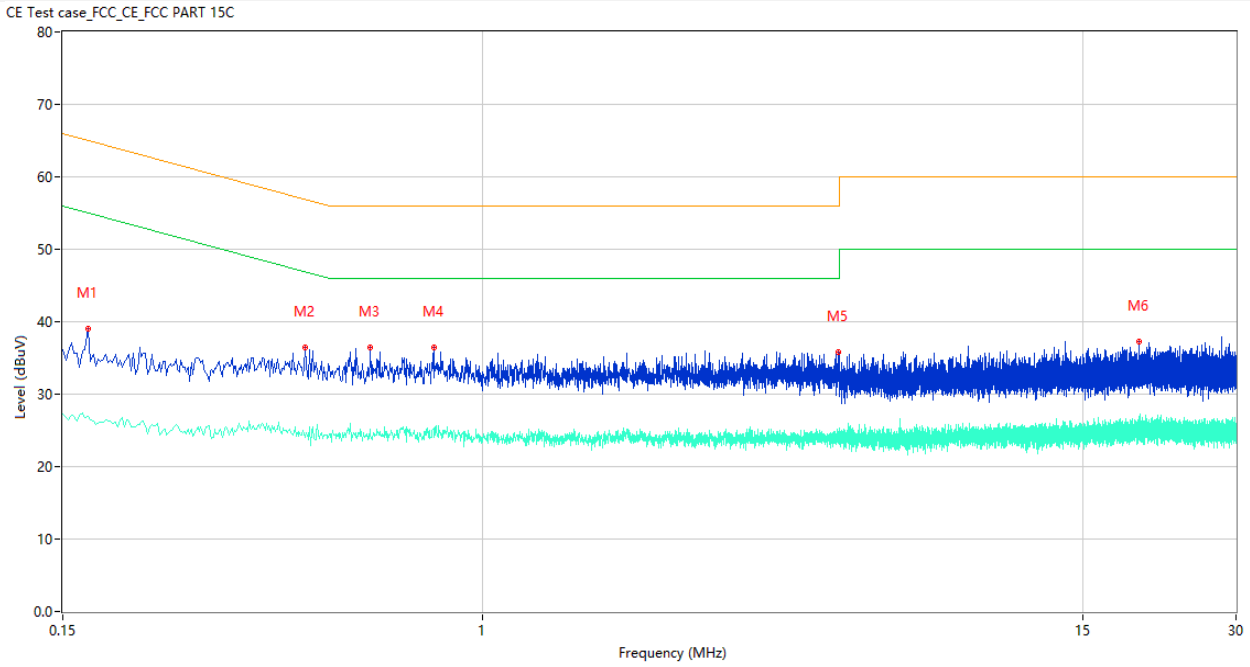
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.380	35.96	10.69	58.28	22.32	Peak	L	Pass
1**	0.380	25.59	10.69	48.28	22.69	AV	L	Pass
2	0.704	35.60	10.66	56.00	20.40	Peak	L	Pass
2**	0.704	24.75	10.66	46.00	21.25	AV	L	Pass
3	1.534	36.19	10.25	56.00	19.81	Peak	L	Pass
3**	1.534	23.86	10.25	46.00	22.14	AV	L	Pass
4	4.902	36.25	10.24	56.00	19.75	Peak	L	Pass
4**	4.902	23.95	10.24	46.00	22.05	AV	L	Pass
5	8.972	35.79	10.49	60.00	24.21	Peak	L	Pass
5**	8.972	23.62	10.49	50.00	26.38	AV	L	Pass
6	20.738	38.02	11.11	60.00	21.98	Peak	L	Pass
6**	20.738	26.43	11.11	50.00	23.57	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	39.09	9.85	65.06	25.97	Peak	N	Pass
1**	0.168	26.93	9.85	55.06	28.13	AV	N	Pass
2	0.448	36.38	10.11	56.91	20.53	Peak	N	Pass
2**	0.448	24.08	10.11	46.91	22.83	AV	N	Pass
3	0.602	36.44	10.22	56.00	19.56	Peak	N	Pass
3**	0.602	24.32	10.22	46.00	21.68	AV	N	Pass
4	0.802	36.46	10.59	56.00	19.54	Peak	N	Pass
4**	0.802	25.37	10.59	46.00	20.63	AV	N	Pass
5	4.982	35.77	10.43	56.00	20.23	Peak	N	Pass
5**	4.982	23.81	10.43	46.00	22.19	AV	N	Pass
6	19.358	37.22	11.22	60.00	22.78	Peak	N	Pass
6**	19.358	25.62	11.22	50.00	24.38	AV	N	Pass

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

Note [1]: The symbol of "--" in the table which means not application.

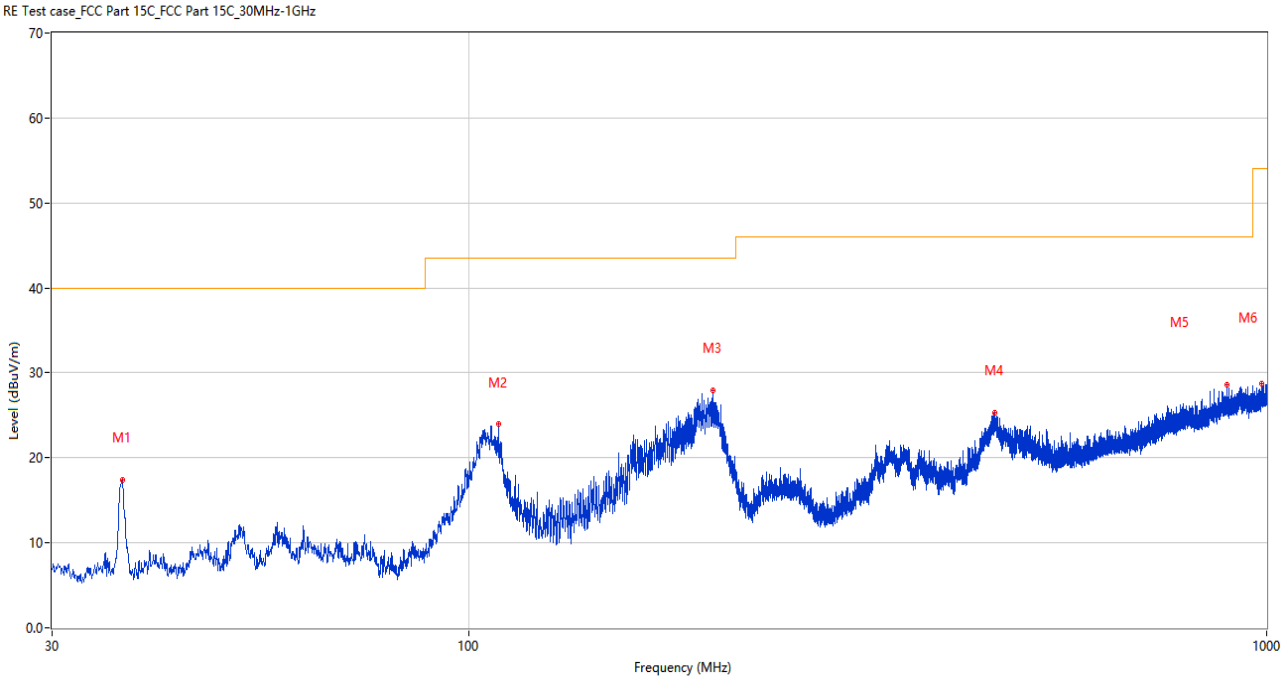
Note [2]: For the test data above 1 GHz， According the ANSI C63.10, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note [3]: 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.

Note [4]: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

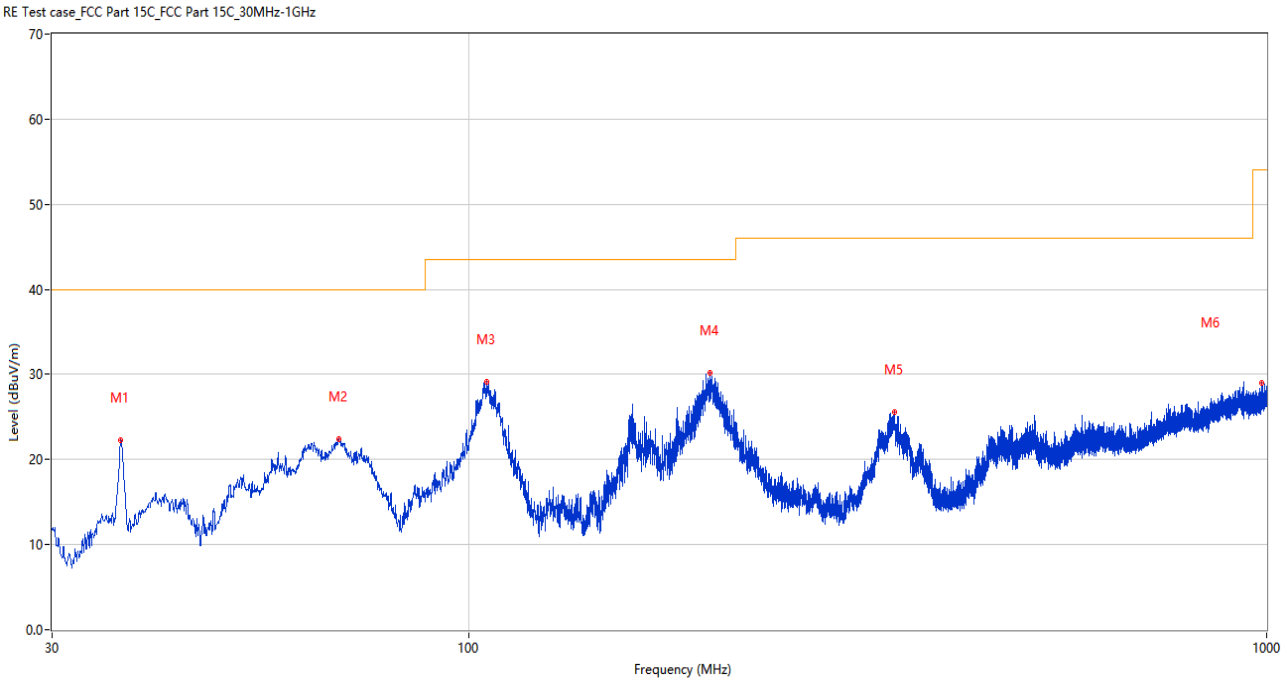
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	36.742	17.40	-30.22	40.0	22.60	Peak	345.30	100	Horizontal	Pass
2	108.812	23.94	-32.01	43.5	19.56	Peak	334.00	200	Horizontal	Pass
3	202.320	27.93	-30.57	43.5	15.57	Peak	294.70	100	Horizontal	Pass
4	456.654	25.33	-21.24	46.0	20.67	Peak	273.00	100	Horizontal	Pass
5	890.778	28.63	-11.82	46.0	17.37	Peak	225.40	200	Horizontal	Pass
6	987.099	28.67	-10.77	54.0	25.33	Peak	155.90	100	Horizontal	Pass

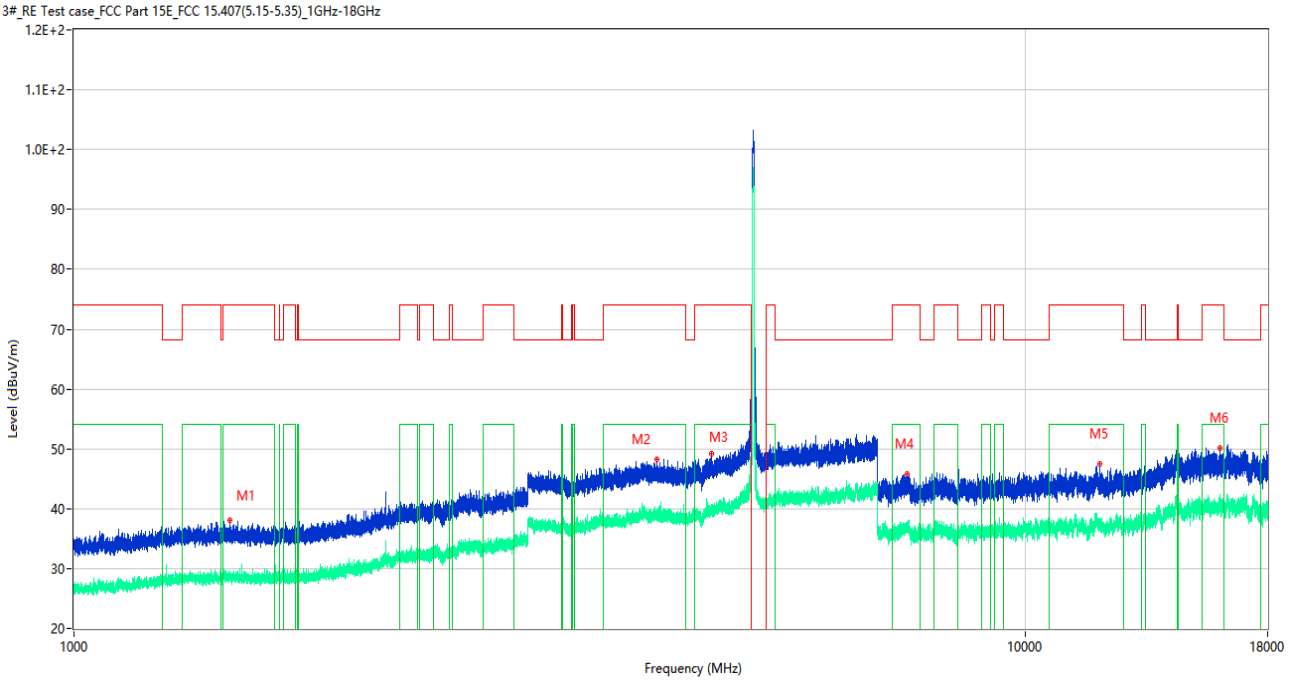
30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	36.596	22.26	-30.22	40.0	17.74	Peak	360.20	200	Vertical	Pass
2	68.606	22.44	-30.57	40.0	17.56	Peak	357.10	100	Vertical	Pass
3	105.272	29.13	-32.49	43.5	14.37	Peak	200.70	100	Vertical	Pass
4	200.429	30.22	-30.69	43.5	13.28	Peak	102.50	100	Vertical	Pass
5	341.322	25.55	-25.08	46.0	20.45	Peak	352.30	100	Vertical	Pass
6	987.002	28.94	-10.78	54.0	25.06	Peak	300.80	200	Vertical	Pass

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

11a, U-NII-1, 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	1623.363	38.65	74.0	35.35	Peak	76.00	400	Horizontal	Pass
1**	1623.363	29.73	54.0	24.27	AV	76.00	400	Horizontal	Pass
2	3649.494	47.11	74.0	26.89	Peak	319.00	100	Horizontal	Pass
2**	3649.494	36.99	54.0	17.01	AV	319.00	100	Horizontal	Pass
3	4829.492	49.86	74.0	24.14	Peak	3.00	200	Horizontal	Pass
3**	4829.492	40.72	54.0	13.28	AV	3.00	200	Horizontal	Pass
4	7600.320	53.29	74.0	20.71	Peak	221.00	200	Horizontal	Pass
4**	7600.320	44.50	54.0	9.50	AV	221.00	200	Horizontal	Pass
5	12470.264	53.05	74.0	20.95	Peak	219.00	400	Horizontal	Pass
5**	12470.264	45.22	54.0	8.78	AV	219.00	400	Horizontal	Pass
6	16123.226	54.77	74.0	19.23	Peak	47.00	300	Horizontal	Pass
6**	16123.226	45.34	54.0	8.66	AV	47.00	300	Horizontal	Pass

11a, U-NII-1, 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	1163.788	49.60	74.0	24.40	Peak	308.00	100	Vertical	Pass
1**	1163.788	35.06	54.0	18.94	AV	308.00	100	Vertical	Pass
2	1336.647	47.05	74.0	26.95	Peak	165.00	200	Vertical	Pass
2**	1336.647	38.45	54.0	15.55	AV	165.00	200	Vertical	Pass
3	4925.649	48.36	74.0	25.65	Peak	306.00	200	Vertical	Pass
3**	4925.649	39.20	54.0	14.80	AV	306.00	200	Vertical	Pass
4	7935.173	53.31	74.0	20.69	Peak	316.00	100	Vertical	Pass
4**	7935.173	43.65	54.0	10.35	AV	316.00	100	Vertical	Pass
5	12499.197	53.41	74.0	20.59	Peak	298.00	100	Vertical	Pass
5**	12499.197	43.80	54.0	10.20	AV	298.00	100	Vertical	Pass
6	17103.056	54.49	74.0	19.51	Peak	345.00	400	Vertical	Pass
6**	17103.056	44.68	54.0	9.32	AV	345.00	400	Vertical	Pass

11a, U-NII-1, 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	1624.424	38.58	74.0	35.42	Peak	104.00	200	Horizontal	Pass
1**	1624.424	29.55	54.0	24.45	AV	104.00	200	Horizontal	Pass
2	3654.484	46.82	74.0	27.19	Peak	194.00	300	Horizontal	Pass
2**	3654.484	36.96	54.0	17.04	AV	194.00	300	Horizontal	Pass
3	4824.554	49.66	74.0	24.34	Peak	214.00	200	Horizontal	Pass
3**	4824.554	40.70	54.0	13.30	AV	214.00	200	Horizontal	Pass
4	7601.375	52.99	74.0	21.01	Peak	167.00	200	Horizontal	Pass
4**	7601.375	44.34	54.0	9.66	AV	167.00	200	Horizontal	Pass
5	12473.410	52.92	74.0	21.09	Peak	32.00	300	Horizontal	Pass
5**	12473.410	45.20	54.0	8.80	AV	32.00	300	Horizontal	Pass
6	16117.284	54.53	74.0	19.47	Peak	115.00	100	Horizontal	Pass
6**	16117.284	45.15	54.0	8.85	AV	115.00	100	Horizontal	Pass

11a, U-NII-1, 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	1159.582	49.45	74.0	24.55	Peak	230.00	100	Vertical	Pass
1**	1159.582	34.85	54.0	19.15	AV	230.00	100	Vertical	Pass
2	1336.595	46.87	74.0	27.13	Peak	37.00	400	Vertical	Pass
2**	1336.595	38.27	54.0	15.73	AV	37.00	400	Vertical	Pass
3	4920.292	48.25	74.0	25.75	Peak	64.00	200	Vertical	Pass
3**	4920.292	39.20	54.0	14.80	AV	64.00	200	Vertical	Pass
4	7929.559	53.05	74.0	20.95	Peak	29.00	400	Vertical	Pass
4**	7929.559	43.59	54.0	10.41	AV	29.00	400	Vertical	Pass
5	12495.396	53.38	74.0	20.62	Peak	24.00	100	Vertical	Pass
5**	12495.396	43.62	54.0	10.38	AV	24.00	100	Vertical	Pass
6	17105.184	54.34	74.0	19.66	Peak	314.00	300	Vertical	Pass
6**	17105.184	44.50	54.0	9.50	AV	314.00	300	Vertical	Pass

11a, U-NII-1, 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	1628.442	38.32	74.0	35.68	Peak	24.00	200	Horizontal	Pass
1**	1628.442	29.47	54.0	24.53	AV	24.00	200	Horizontal	Pass
2	3653.441	46.64	74.0	27.36	Peak	271.00	200	Horizontal	Pass
2**	3653.441	36.94	54.0	17.06	AV	271.00	200	Horizontal	Pass
3	4824.998	49.57	74.0	24.43	Peak	47.00	200	Horizontal	Pass
3**	4824.998	40.58	54.0	13.42	AV	47.00	200	Horizontal	Pass
4	7596.815	52.69	74.0	21.31	Peak	285.00	300	Horizontal	Pass
4**	7596.815	44.08	54.0	9.92	AV	285.00	300	Horizontal	Pass
5	12467.703	52.86	74.0	21.14	Peak	120.00	200	Horizontal	Pass
5**	12467.703	44.97	54.0	9.04	AV	120.00	200	Horizontal	Pass
6	16121.109	54.32	74.0	19.68	Peak	346.00	200	Horizontal	Pass
6**	16121.109	45.15	54.0	8.85	AV	346.00	200	Horizontal	Pass

11a, U-NII-1, 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	1161.575	49.27	74.0	24.74	Peak	20.00	400	Vertical	Pass
1**	1161.575	34.62	54.0	19.38	AV	20.00	400	Vertical	Pass
2	1336.911	46.83	74.0	27.17	Peak	39.00	400	Vertical	Pass
2**	1336.911	38.23	54.0	15.77	AV	39.00	400	Vertical	Pass
3	4926.346	48.07	74.0	25.93	Peak	198.00	200	Vertical	Pass
3**	4926.346	39.06	54.0	14.94	AV	198.00	200	Vertical	Pass
4	7930.831	52.77	74.0	21.23	Peak	86.00	100	Vertical	Pass
4**	7930.831	43.45	54.0	10.55	AV	86.00	100	Vertical	Pass
5	12493.558	53.38	74.0	20.62	Peak	126.00	100	Vertical	Pass
5**	12493.558	43.45	54.0	10.55	AV	126.00	100	Vertical	Pass
6	17103.144	54.31	74.0	19.69	Peak	241.00	100	Vertical	Pass
6**	17103.144	44.33	54.0	9.67	AV	241.00	100	Vertical	Pass

11n20, U-NII-1, 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	1625.102	38.60	74.0	35.40	Peak	151.00	200	Horizontal	Pass
1**	1625.102	29.46	54.0	24.54	AV	151.00	200	Horizontal	Pass
2	3655.263	46.84	74.0	27.16	Peak	23.00	300	Horizontal	Pass
2**	3655.263	36.76	54.0	17.24	AV	23.00	300	Horizontal	Pass
3	4826.233	49.73	74.0	24.27	Peak	315.00	200	Horizontal	Pass
3**	4826.233	40.52	54.0	13.48	AV	315.00	200	Horizontal	Pass
4	7602.710	53.09	74.0	20.91	Peak	241.00	400	Horizontal	Pass
4**	7602.710	44.35	54.0	9.65	AV	241.00	400	Horizontal	Pass
5	12469.103	53.01	74.0	20.99	Peak	226.00	200	Horizontal	Pass
5**	12469.103	45.09	54.0	8.91	AV	226.00	200	Horizontal	Pass
6	16124.520	54.64	74.0	19.37	Peak	122.00	300	Horizontal	Pass
6**	16124.520	45.31	54.0	8.69	AV	122.00	300	Horizontal	Pass

11n20, U-NII-1, 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	1159.544	49.24	74.0	24.76	Peak	101.00	100	Vertical	Pass
1**	1159.544	34.39	54.0	19.61	AV	101.00	100	Vertical	Pass
2	1338.524	46.60	74.0	27.40	Peak	39.00	100	Vertical	Pass
2**	1338.524	38.15	54.0	15.85	AV	39.00	100	Vertical	Pass
3	4922.911	48.05	74.0	25.95	Peak	317.00	200	Vertical	Pass
3**	4922.911	38.93	54.0	15.07	AV	317.00	200	Vertical	Pass
4	7933.643	52.48	74.0	21.52	Peak	307.00	300	Vertical	Pass
4**	7933.643	43.37	54.0	10.63	AV	307.00	300	Vertical	Pass
5	12492.029	53.26	74.0	20.74	Peak	354.00	100	Vertical	Pass
5**	12492.029	43.31	54.0	10.70	AV	354.00	100	Vertical	Pass
6	17098.400	54.18	74.0	19.82	Peak	314.00	400	Vertical	Pass
6**	17098.400	44.24	54.0	9.76	AV	314.00	400	Vertical	Pass

11n20, U-NII-1, 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	1626.954	38.36	74.0	35.64	Peak	249.00	200	Horizontal	Pass
1**	1626.954	29.41	54.0	24.59	AV	249.00	200	Horizontal	Pass
2	3652.770	46.60	74.0	27.40	Peak	103.00	100	Horizontal	Pass
2**	3652.770	36.78	54.0	17.23	AV	103.00	100	Horizontal	Pass
3	4830.281	49.57	74.0	24.43	Peak	201.00	200	Horizontal	Pass
3**	4830.281	40.51	54.0	13.49	AV	201.00	200	Horizontal	Pass
4	7602.701	52.79	74.0	21.21	Peak	109.00	100	Horizontal	Pass
4**	7602.701	44.32	54.0	9.68	AV	109.00	100	Horizontal	Pass
5	12469.961	52.67	74.0	21.33	Peak	113.00	300	Horizontal	Pass
5**	12469.961	45.11	54.0	8.89	AV	113.00	300	Horizontal	Pass
6	16121.156	54.51	74.0	19.49	Peak	212.00	200	Horizontal	Pass
6**	16121.156	45.11	54.0	8.90	AV	212.00	200	Horizontal	Pass

11n20, U-NII-1, 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	1160.261	49.01	74.0	24.99	Peak	245.00	200	Vertical	Pass
1**	1160.261	34.21	54.0	19.79	AV	245.00	200	Vertical	Pass
2	1333.876	46.44	74.0	27.56	Peak	31.00	300	Vertical	Pass
2**	1333.876	38.02	54.0	15.98	AV	31.00	300	Vertical	Pass
3	4921.390	47.88	74.0	26.12	Peak	103.00	200	Vertical	Pass
3**	4921.390	38.72	54.0	15.28	AV	103.00	200	Vertical	Pass
4	7933.070	52.44	74.0	21.56	Peak	323.00	300	Vertical	Pass
4**	7933.070	43.12	54.0	10.88	AV	323.00	300	Vertical	Pass
5	12498.977	52.98	74.0	21.02	Peak	276.00	100	Vertical	Pass
5**	12498.977	43.23	54.0	10.77	AV	276.00	100	Vertical	Pass
6	17100.547	54.13	74.0	19.87	Peak	337.00	100	Vertical	Pass
6**	17100.547	44.11	54.0	9.89	AV	337.00	100	Vertical	Pass

11n20, U-NII-1, 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	1627.004	38.27	74.0	35.74	Peak	333.00	100	Horizontal	Pass
1**	1627.004	29.27	54.0	24.73	AV	333.00	100	Horizontal	Pass
2	3651.000	46.36	74.0	27.64	Peak	268.00	200	Horizontal	Pass
2**	3651.000	36.94	54.0	17.06	AV	268.00	200	Horizontal	Pass
3	4823.737	49.39	74.0	24.61	Peak	154.00	200	Horizontal	Pass
3**	4823.737	40.39	54.0	13.61	AV	154.00	200	Horizontal	Pass
4	7597.809	52.56	74.0	21.44	Peak	177.00	300	Horizontal	Pass
4**	7597.809	43.87	54.0	10.13	AV	177.00	300	Horizontal	Pass
5	12470.269	52.84	74.0	21.16	Peak	332.00	300	Horizontal	Pass
5**	12470.269	44.71	54.0	9.29	AV	332.00	300	Horizontal	Pass
6	16121.497	54.11	74.0	19.89	Peak	290.00	100	Horizontal	Pass
6**	16121.497	45.03	54.0	8.97	AV	290.00	100	Horizontal	Pass

11n20, U-NII-1, 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	1163.106	48.75	74.0	25.25	Peak	233.00	400	Vertical	Pass
1**	1163.106	33.97	54.0	20.04	AV	233.00	400	Vertical	Pass
2	1334.907	46.15	74.0	27.85	Peak	253.00	200	Vertical	Pass
2**	1334.907	38.00	54.0	16.00	AV	253.00	200	Vertical	Pass
3	4921.706	47.70	74.0	26.30	Peak	107.00	200	Vertical	Pass
3**	4921.706	38.56	54.0	15.44	AV	107.00	200	Vertical	Pass
4	7930.993	52.38	74.0	21.62	Peak	349.00	400	Vertical	Pass
4**	7930.993	43.07	54.0	10.93	AV	349.00	400	Vertical	Pass
5	12494.699	52.89	74.0	21.11	Peak	293.00	300	Vertical	Pass
5**	12494.699	43.06	54.0	10.94	AV	293.00	300	Vertical	Pass
6	17097.531	53.95	74.0	20.06	Peak	187.00	200	Vertical	Pass
6**	17097.531	43.83	54.0	10.17	AV	187.00	200	Vertical	Pass

11n40, U-NII-1, 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	1625.715	38.50	74.0	35.50	Peak	332.00	400	Horizontal	Pass
1**	1625.715	29.45	54.0	24.55	AV	332.00	400	Horizontal	Pass
2	3650.306	46.84	74.0	27.16	Peak	81.00	400	Horizontal	Pass
2**	3650.306	36.73	54.0	17.27	AV	81.00	400	Horizontal	Pass
3	4830.779	49.70	74.0	24.30	Peak	217.00	200	Horizontal	Pass
3**	4830.779	40.70	54.0	13.30	AV	217.00	200	Horizontal	Pass
4	7599.248	53.23	74.0	20.77	Peak	255.00	400	Horizontal	Pass
4**	7599.248	44.37	54.0	9.63	AV	255.00	400	Horizontal	Pass
5	12466.972	52.78	74.0	21.22	Peak	354.00	400	Horizontal	Pass
5**	12466.972	44.96	54.0	9.04	AV	354.00	400	Horizontal	Pass
6	16121.133	54.68	74.0	19.32	Peak	216.00	100	Horizontal	Pass
6**	16121.133	45.24	54.0	8.76	AV	216.00	100	Horizontal	Pass

11n40, U-NII-1, 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	1159.460	48.69	74.0	25.32	Peak	221.00	400	Vertical	Pass
1**	1159.460	33.94	54.0	20.06	AV	221.00	400	Vertical	Pass
2	1337.577	46.13	74.0	27.87	Peak	17.00	100	Vertical	Pass
2**	1337.577	37.88	54.0	16.12	AV	17.00	100	Vertical	Pass
3	4923.206	47.64	74.0	26.36	Peak	237.00	200	Vertical	Pass
3**	4923.206	38.42	54.0	15.58	AV	237.00	200	Vertical	Pass
4	7934.262	52.32	74.0	21.68	Peak	75.00	200	Vertical	Pass
4**	7934.262	43.04	54.0	10.96	AV	75.00	200	Vertical	Pass
5	12497.571	52.82	74.0	21.18	Peak	142.00	300	Vertical	Pass
5**	12497.571	42.90	54.0	11.10	AV	142.00	300	Vertical	Pass
6	17099.672	53.77	74.0	20.23	Peak	87.00	100	Vertical	Pass
6**	17099.672	43.78	54.0	10.22	AV	87.00	100	Vertical	Pass

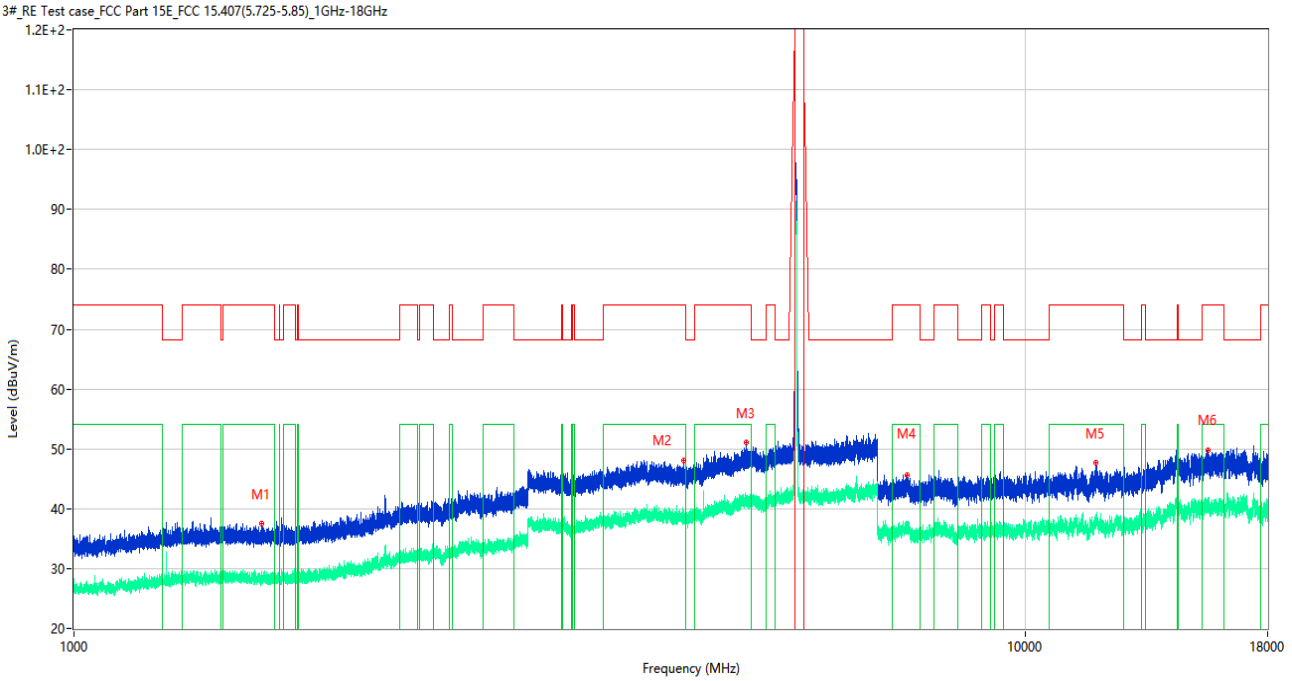
11n40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1623.143	38.53	74.0	35.48	Peak	350.00	100	Horizontal	Pass
1**	1623.143	29.46	54.0	24.54	AV	350.00	100	Horizontal	Pass
2	3655.478	46.64	74.0	27.36	Peak	220.00	400	Horizontal	Pass
2**	3655.478	36.93	54.0	17.07	AV	220.00	400	Horizontal	Pass
3	4825.922	49.45	74.0	24.55	Peak	188.00	200	Horizontal	Pass
3**	4825.922	40.61	54.0	13.39	AV	188.00	200	Horizontal	Pass
4	7596.422	52.70	74.0	21.30	Peak	285.00	200	Horizontal	Pass
4**	7596.422	44.19	54.0	9.81	AV	285.00	200	Horizontal	Pass
5	12469.570	52.63	74.0	21.37	Peak	239.00	300	Horizontal	Pass
5**	12469.570	45.10	54.0	8.90	AV	239.00	300	Horizontal	Pass
6	16123.019	54.50	74.0	19.50	Peak	61.00	400	Horizontal	Pass
6**	16123.019	45.00	54.0	9.00	AV	61.00	400	Horizontal	Pass

11n40, U-NII-1, 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	1163.982	48.68	74.0	25.32	Peak	271.00	400	Vertical	Pass
1**	1163.982	33.71	54.0	20.29	AV	271.00	400	Vertical	Pass
2	1331.870	45.84	74.0	28.16	Peak	56.00	200	Vertical	Pass
2**	1331.870	37.72	54.0	16.28	AV	56.00	200	Vertical	Pass
3	4926.398	47.53	74.0	26.47	Peak	210.00	200	Vertical	Pass
3**	4926.398	38.12	54.0	15.88	AV	210.00	200	Vertical	Pass
4	7932.881	52.27	74.0	21.73	Peak	69.00	400	Vertical	Pass
4**	7932.881	42.77	54.0	11.23	AV	69.00	400	Vertical	Pass
5	12498.948	52.75	74.0	21.25	Peak	83.00	100	Vertical	Pass
5**	12498.948	42.76	54.0	11.24	AV	83.00	100	Vertical	Pass
6	17105.151	53.76	74.0	20.25	Peak	323.00	300	Vertical	Pass
6**	17105.151	43.71	54.0	10.29	AV	323.00	300	Vertical	Pass

11a, 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	1573.065	37.52	74.0	36.48	Peak	137.00	400	Horizontal	Pass
1**	1573.065	28.57	54.0	25.44	AV	137.00	400	Horizontal	Pass
2	4373.529	48.32	74.0	25.69	Peak	18.00	200	Horizontal	Pass
2**	4373.529	38.37	54.0	15.63	AV	18.00	200	Horizontal	Pass
3	5096.315	51.04	74.0	22.96	Peak	137.00	200	Horizontal	Pass
3**	5096.315	41.21	54.0	12.79	AV	137.00	200	Horizontal	Pass
4	7523.662	45.82	74.0	28.18	Peak	111.00	100	Horizontal	Pass
4**	7523.662	37.63	54.0	16.37	AV	111.00	100	Horizontal	Pass
5	11890.060	47.75	74.0	26.25	Peak	303.00	300	Horizontal	Pass
5**	11890.060	38.93	54.0	15.08	AV	303.00	300	Horizontal	Pass
6	15587.083	49.95	74.0	24.05	Peak	168.00	400	Horizontal	Pass
6**	15587.083	44.98	54.0	9.02	AV	168.00	400	Horizontal	Pass

11a, 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	1161.862	50.29	74.0	23.71	Peak	98.00	200	Vertical	Pass
1**	1161.862	31.92	54.0	22.08	AV	98.00	200	Vertical	Pass
2	1336.001	49.15	74.0	24.85	Peak	108.00	100	Vertical	Pass
2**	1336.001	36.00	54.0	18.00	AV	108.00	100	Vertical	Pass
3	4928.016	49.99	74.0	24.01	Peak	345.00	200	Vertical	Pass
3**	4928.016	38.24	54.0	15.76	AV	345.00	200	Vertical	Pass
4	7935.536	49.83	74.0	24.17	Peak	127.00	200	Vertical	Pass
4**	7935.536	40.91	54.0	13.09	AV	127.00	200	Vertical	Pass
5	12490.904	55.50	74.0	18.50	Peak	52.00	100	Vertical	Pass
5**	12490.904	43.81	54.0	10.19	AV	52.00	100	Vertical	Pass
6	17099.964	56.21	74.0	17.79	Peak	16.00	100	Vertical	Pass
6**	17099.964	44.69	54.0	9.31	AV	16.00	100	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	1576.555	37.34	74.0	36.66	Peak	310.00	400	Horizontal	Pass
1**	1576.555	28.53	54.0	25.47	AV	310.00	400	Horizontal	Pass
2	4375.384	48.04	74.0	25.96	Peak	17.00	300	Horizontal	Pass
2**	4375.384	38.27	54.0	15.73	AV	17.00	300	Horizontal	Pass
3	5095.689	50.89	74.0	23.11	Peak	185.00	200	Horizontal	Pass
3**	5095.689	40.95	54.0	13.05	AV	185.00	200	Horizontal	Pass
4	7522.017	45.74	74.0	28.26	Peak	124.00	400	Horizontal	Pass
4**	7522.017	37.46	54.0	16.55	AV	124.00	400	Horizontal	Pass
5	11886.667	47.66	74.0	26.34	Peak	279.00	300	Horizontal	Pass
5**	11886.667	38.64	54.0	15.36	AV	279.00	300	Horizontal	Pass
6	15582.803	49.79	74.0	24.22	Peak	116.00	300	Horizontal	Pass
6**	15582.803	40.89	54.0	13.11	AV	116.00	300	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	1160.709	50.06	74.0	23.94	Peak	218.00	300	Vertical	Pass
1**	1160.709	31.75	54.0	22.25	AV	218.00	300	Vertical	Pass
2	1335.515	48.89	74.0	25.11	Peak	202.00	100	Vertical	Pass
2**	1335.515	35.85	54.0	18.16	AV	202.00	100	Vertical	Pass
3	4928.653	49.84	74.0	24.16	Peak	39.00	200	Vertical	Pass
3**	4928.653	38.05	54.0	15.95	AV	39.00	200	Vertical	Pass
4	7940.707	49.74	74.0	24.26	Peak	210.00	400	Vertical	Pass
4**	7940.707	40.77	54.0	13.23	AV	210.00	400	Vertical	Pass
5	12494.117	55.29	74.0	18.71	Peak	218.00	400	Vertical	Pass
5**	12494.117	43.76	54.0	10.24	AV	218.00	400	Vertical	Pass
6	17098.149	55.92	74.0	18.08	Peak	235.00	300	Vertical	Pass
6**	17098.149	44.61	54.0	9.39	AV	235.00	300	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	1579.835	37.32	74.0	36.68	Peak	173.00	200	Horizontal	Pass
1**	1579.835	28.37	54.0	25.63	AV	173.00	200	Horizontal	Pass
2	4369.580	47.83	74.0	26.17	Peak	345.00	100	Horizontal	Pass
2**	4369.580	38.08	54.0	15.93	AV	345.00	100	Horizontal	Pass
3	5091.877	50.85	74.0	23.15	Peak	98.00	200	Horizontal	Pass
3**	5091.877	40.81	54.0	13.20	AV	98.00	200	Horizontal	Pass
4	7522.549	45.53	74.0	28.47	Peak	257.00	200	Horizontal	Pass
4**	7522.549	37.35	54.0	16.65	AV	257.00	200	Horizontal	Pass
5	11889.260	47.39	74.0	26.61	Peak	141.00	400	Horizontal	Pass
5**	11889.260	38.38	54.0	15.62	AV	141.00	400	Horizontal	Pass
6	15582.690	49.53	74.0	24.47	Peak	44.00	200	Horizontal	Pass
6**	15582.690	40.81	54.0	13.19	AV	44.00	200	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	1160.167	49.83	74.0	24.17	Peak	3.00	100	Vertical	Pass
1**	1160.167	31.62	54.0	22.38	AV	3.00	100	Vertical	Pass
2	1331.462	48.60	74.0	25.40	Peak	109.00	400	Vertical	Pass
2**	1331.462	35.55	54.0	18.45	AV	109.00	400	Vertical	Pass
3	4933.524	49.59	74.0	24.41	Peak	179.00	200	Vertical	Pass
3**	4933.524	37.82	54.0	16.18	AV	179.00	200	Vertical	Pass
4	7938.881	49.52	74.0	24.48	Peak	258.00	400	Vertical	Pass
4**	7938.881	40.76	54.0	13.24	AV	258.00	400	Vertical	Pass
5	12495.978	55.07	74.0	18.93	Peak	329.00	200	Vertical	Pass
5**	12495.978	43.57	54.0	10.44	AV	329.00	200	Vertical	Pass
6	17104.774	55.65	74.0	18.35	Peak	94.00	100	Vertical	Pass
6**	17104.774	44.36	54.0	9.64	AV	94.00	100	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	1579.039	37.14	74.0	36.86	Peak	84.00	300	Horizontal	Pass
1**	1579.039	28.09	54.0	25.92	AV	84.00	300	Horizontal	Pass
2	4371.621	47.76	74.0	26.24	Peak	232.00	100	Horizontal	Pass
2**	4371.621	37.95	54.0	16.05	AV	232.00	100	Horizontal	Pass
3	5097.788	50.61	74.0	23.39	Peak	234.00	200	Horizontal	Pass
3**	5097.788	40.74	54.0	13.26	AV	234.00	200	Horizontal	Pass
4	7522.165	45.52	74.0	28.48	Peak	128.00	200	Horizontal	Pass
4**	7522.165	37.35	54.0	16.65	AV	128.00	200	Horizontal	Pass
5	11887.656	47.26	74.0	26.74	Peak	186.00	300	Horizontal	Pass
5**	11887.656	38.12	54.0	15.88	AV	186.00	300	Horizontal	Pass
6	15585.169	49.44	74.0	24.56	Peak	197.00	100	Horizontal	Pass
6**	15585.169	40.79	54.0	13.21	AV	197.00	100	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	1161.810	49.74	74.0	24.26	Peak	180.00	400	Vertical	Pass
1**	1161.810	31.58	54.0	22.42	AV	180.00	400	Vertical	Pass
2	1333.919	48.53	74.0	25.47	Peak	50.00	300	Vertical	Pass
2**	1333.919	35.36	54.0	18.64	AV	50.00	300	Vertical	Pass
3	4926.784	49.39	74.0	24.61	Peak	57.00	200	Vertical	Pass
3**	4926.784	37.74	54.0	16.26	AV	57.00	200	Vertical	Pass
4	7938.190	49.49	74.0	24.51	Peak	167.00	100	Vertical	Pass
4**	7938.190	40.55	54.0	13.45	AV	167.00	100	Vertical	Pass
5	12490.705	55.07	74.0	18.93	Peak	166.00	200	Vertical	Pass
5**	12490.705	43.46	54.0	10.54	AV	166.00	200	Vertical	Pass
6	17105.820	55.50	74.0	18.50	Peak	57.00	200	Vertical	Pass
6**	17105.820	44.10	54.0	9.90	AV	57.00	200	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	1574.230	36.88	74.0	37.12	Peak	286.00	200	Horizontal	Pass
1**	1574.230	28.07	54.0	25.93	AV	286.00	200	Horizontal	Pass
2	4373.275	47.73	74.0	26.27	Peak	305.00	100	Horizontal	Pass
2**	4373.275	37.69	54.0	16.31	AV	305.00	100	Horizontal	Pass
3	5096.811	50.34	74.0	23.66	Peak	20.00	200	Horizontal	Pass
3**	5096.811	40.58	54.0	13.42	AV	20.00	200	Horizontal	Pass
4	7520.216	45.33	74.0	28.67	Peak	329.00	300	Horizontal	Pass
4**	7520.216	37.25	54.0	16.75	AV	329.00	300	Horizontal	Pass
5	11885.644	47.14	74.0	26.86	Peak	28.00	200	Horizontal	Pass
5**	11885.644	38.11	54.0	15.89	AV	28.00	200	Horizontal	Pass
6	15583.083	49.26	74.0	24.75	Peak	212.00	300	Horizontal	Pass
6**	15583.083	40.62	54.0	13.38	AV	212.00	300	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	1156.710	49.46	74.0	24.54	Peak	147.00	200	Vertical	Pass
1**	1156.710	31.56	54.0	22.44	AV	147.00	200	Vertical	Pass
2	1336.694	48.51	74.0	25.49	Peak	176.00	200	Vertical	Pass
2**	1336.694	35.36	54.0	18.64	AV	176.00	200	Vertical	Pass
3	4928.532	49.17	74.0	24.83	Peak	86.00	200	Vertical	Pass
3**	4928.532	37.73	54.0	16.27	AV	86.00	200	Vertical	Pass
4	7936.953	49.26	74.0	24.74	Peak	243.00	100	Vertical	Pass
4**	7936.953	40.30	54.0	13.70	AV	243.00	100	Vertical	Pass
5	12493.089	54.92	74.0	19.08	Peak	351.00	300	Vertical	Pass
5**	12493.089	43.16	54.0	10.84	AV	351.00	300	Vertical	Pass
6	17104.437	55.38	74.0	18.62	Peak	221.00	100	Vertical	Pass
6**	17104.437	44.09	54.0	9.91	AV	221.00	100	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	1576.182	36.69	74.0	37.31	Peak	322.00	100	Horizontal	Pass
1**	1576.182	27.86	54.0	26.14	AV	322.00	100	Horizontal	Pass
2	4369.671	47.56	74.0	26.44	Peak	48.00	100	Horizontal	Pass
2**	4369.671	37.56	54.0	16.44	AV	48.00	100	Horizontal	Pass
3	5096.798	50.20	74.0	23.80	Peak	353.00	200	Horizontal	Pass
3**	5096.798	40.29	54.0	13.71	AV	353.00	200	Horizontal	Pass
4	7525.124	45.17	74.0	28.84	Peak	267.00	400	Horizontal	Pass
4**	7525.124	37.16	54.0	16.84	AV	267.00	400	Horizontal	Pass
5	11887.282	47.00	74.0	27.01	Peak	136.00	400	Horizontal	Pass
5**	11887.282	37.89	54.0	16.11	AV	136.00	400	Horizontal	Pass
6	15588.442	49.13	74.0	24.87	Peak	194.00	100	Horizontal	Pass
6**	15588.442	40.42	54.0	13.58	AV	194.00	100	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	1162.896	49.43	74.0	24.57	Peak	173.00	200	Vertical	Pass
1**	1162.896	31.30	54.0	22.70	AV	173.00	200	Vertical	Pass
2	1332.823	48.29	74.0	25.71	Peak	308.00	100	Vertical	Pass
2**	1332.823	35.08	54.0	18.93	AV	308.00	100	Vertical	Pass
3	4932.627	49.08	74.0	24.92	Peak	11.00	200	Vertical	Pass
3**	4932.627	37.59	54.0	16.41	AV	11.00	200	Vertical	Pass
4	7934.967	49.25	74.0	24.75	Peak	176.00	400	Vertical	Pass
4**	7934.967	40.24	54.0	13.76	AV	176.00	400	Vertical	Pass
5	12490.339	54.77	74.0	19.23	Peak	103.00	200	Vertical	Pass
5**	12490.339	42.91	54.0	11.09	AV	103.00	200	Vertical	Pass
6	17104.755	55.15	74.0	18.85	Peak	13.00	100	Vertical	Pass
6**	17104.755	43.97	54.0	10.03	AV	13.00	100	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	1573.011	36.49	74.0	37.51	Peak	219.00	400	Horizontal	Pass
1**	1573.011	27.56	54.0	26.44	AV	219.00	400	Horizontal	Pass
2	4374.644	47.54	74.0	26.46	Peak	145.00	100	Horizontal	Pass
2**	4374.644	37.48	54.0	16.52	AV	145.00	100	Horizontal	Pass
3	5096.849	50.00	74.0	24.00	Peak	279.00	200	Horizontal	Pass
3**	5096.849	40.05	54.0	13.95	AV	279.00	200	Horizontal	Pass
4	7525.058	44.95	74.0	29.05	Peak	66.00	400	Horizontal	Pass
4**	7525.058	36.99	54.0	17.01	AV	66.00	400	Horizontal	Pass
5	11887.599	46.78	74.0	27.22	Peak	287.00	200	Horizontal	Pass
5**	11887.599	37.68	54.0	16.32	AV	287.00	200	Horizontal	Pass
6	15587.267	48.87	74.0	25.13	Peak	58.00	100	Horizontal	Pass
6**	15587.267	40.29	54.0	13.71	AV	58.00	100	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	1163.286	49.40	74.0	24.60	Peak	158.00	200	Vertical	Pass
1**	1163.286	31.05	54.0	22.95	AV	158.00	200	Vertical	Pass
2	1338.363	48.14	74.0	25.86	Peak	154.00	100	Vertical	Pass
2**	1338.363	34.82	54.0	19.18	AV	154.00	100	Vertical	Pass
3	4926.416	48.89	74.0	25.12	Peak	23.00	200	Vertical	Pass
3**	4926.416	37.50	54.0	16.50	AV	23.00	200	Vertical	Pass
4	7942.332	49.07	74.0	24.94	Peak	32.00	200	Vertical	Pass
4**	7942.332	40.14	54.0	13.86	AV	32.00	200	Vertical	Pass
5	12495.207	54.74	74.0	19.26	Peak	311.00	200	Vertical	Pass
5**	12495.207	42.81	54.0	11.19	AV	311.00	200	Vertical	Pass
6	17098.567	54.89	74.0	19.11	Peak	139.00	100	Vertical	Pass
6**	17098.567	43.95	54.0	10.05	AV	139.00	100	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	1578.488	37.45	74.0	36.55	Peak	118.00	200	Horizontal	Pass
1**	1578.488	28.33	54.0	25.67	AV	118.00	200	Horizontal	Pass
2	4368.813	48.02	74.0	25.98	Peak	79.00	300	Horizontal	Pass
2**	4368.813	38.31	54.0	15.69	AV	79.00	300	Horizontal	Pass
3	5090.903	50.91	74.0	23.09	Peak	253.00	200	Horizontal	Pass
3**	5090.903	41.15	54.0	12.85	AV	253.00	200	Horizontal	Pass
4	7524.708	45.76	74.0	28.24	Peak	258.00	300	Horizontal	Pass
4**	7524.708	37.44	54.0	16.56	AV	258.00	300	Horizontal	Pass
5	11889.603	47.60	74.0	26.40	Peak	215.00	100	Horizontal	Pass
5**	11889.603	38.74	54.0	15.26	AV	215.00	100	Horizontal	Pass
6	15588.935	49.76	74.0	24.25	Peak	241.00	100	Horizontal	Pass
6**	15588.935	40.82	54.0	13.18	AV	241.00	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	1161.691	50.28	74.0	23.72	Peak	19.00	400	Vertical	Pass
1**	1161.691	31.67	54.0	22.33	AV	19.00	400	Vertical	Pass
2	1333.110	48.86	74.0	25.14	Peak	289.00	100	Vertical	Pass
2**	1333.110	35.77	54.0	18.23	AV	289.00	100	Vertical	Pass
3	4931.668	49.92	74.0	24.09	Peak	135.00	200	Vertical	Pass
3**	4931.668	38.20	54.0	15.80	AV	135.00	200	Vertical	Pass
4	7940.311	49.68	74.0	24.32	Peak	315.00	200	Vertical	Pass
4**	7940.311	40.80	54.0	13.20	AV	315.00	200	Vertical	Pass
5	12491.240	55.41	74.0	18.59	Peak	66.00	200	Vertical	Pass
5**	12491.240	43.77	54.0	10.23	AV	66.00	200	Vertical	Pass
6	17099.665	56.20	74.0	17.80	Peak	126.00	400	Vertical	Pass
6**	17099.665	44.58	54.0	9.42	AV	126.00	400	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
U-NII-3	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass

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

Test Data and Plots

U-NII-1 11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5143.947	56.84	74.0	17.16	Peak	215.00	300	Horizontal	Pass
1**	5143.947	43.23	54.0	10.77	AV	215.00	300	Horizontal	Pass
2	5150.000	59.32	74.0	14.68	Peak	101.00	100	Horizontal	Pass
2**	5150.000	45.24	54.0	8.76	AV	101.00	100	Horizontal	Pass

U-NII-1 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.60	74.0	18.40	Peak	13.00	100	Horizontal	Pass
1**	5350.000	45.10	54.0	8.90	AV	13.00	100	Horizontal	Pass
2	5396.837	56.99	74.0	17.01	Peak	80.00	300	Horizontal	Pass
2**	5396.837	44.48	54.0	9.52	AV	80.00	300	Horizontal	Pass

U-NII-1 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5146.005	57.14	74.0	16.86	Peak	3.00	200	Horizontal	Pass
1**	5146.005	43.55	54.0	10.45	AV	3.00	200	Horizontal	Pass
2	5150.000	59.06	74.0	14.94	Peak	358.00	200	Horizontal	Pass
2**	5150.000	43.50	54.0	10.50	AV	358.00	200	Horizontal	Pass

U-NII-1 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.95	74.0	18.05	Peak	51.00	100	Horizontal	Pass
1**	5350.000	44.29	54.0	9.71	AV	51.00	100	Horizontal	Pass
2	5395.554	56.80	74.0	17.20	Peak	217.00	200	Horizontal	Pass
2**	5395.554	44.00	54.0	10.00	AV	217.00	200	Horizontal	Pass

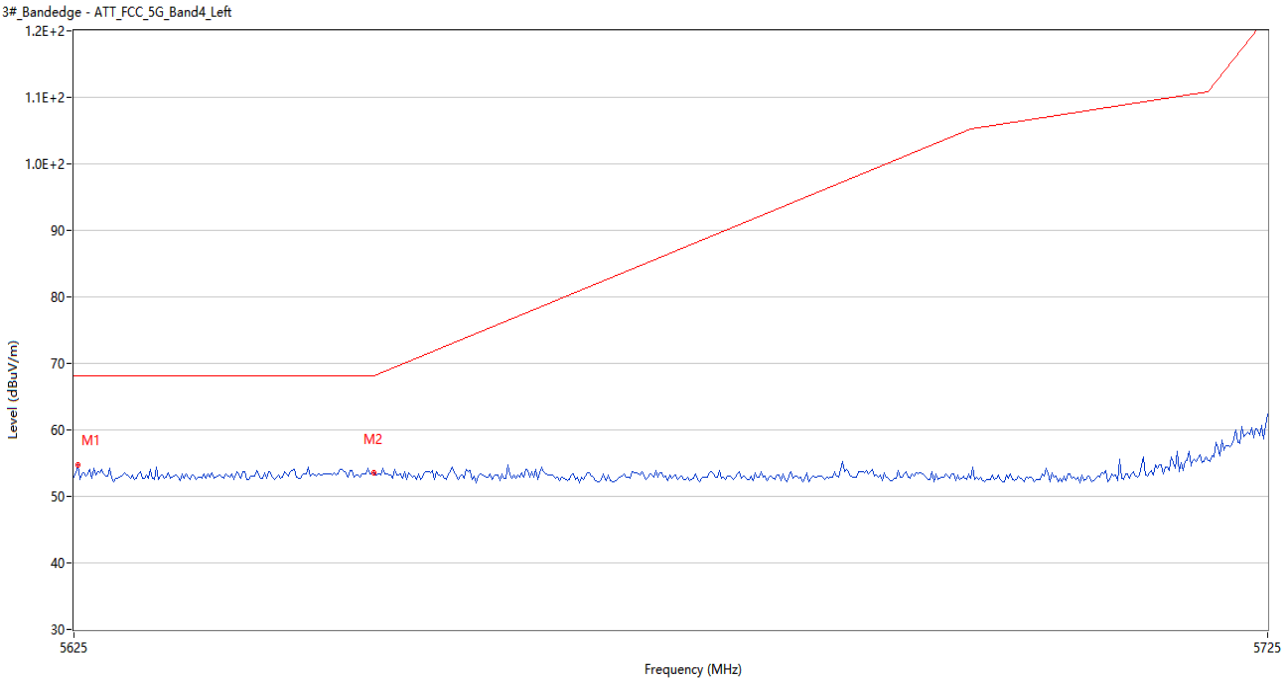
U-NII-1 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5146.086	61.59	74.0	12.41	Peak	68.00	100	Horizontal	Pass
1**	5146.086	44.52	54.0	9.48	AV	68.00	100	Horizontal	Pass
2	5150.000	59.31	74.0	14.69	Peak	252.00	100	Horizontal	Pass
2**	5150.000	44.48	54.0	9.52	AV	252.00	100	Horizontal	Pass

U-NII-1 11n40 High Channel

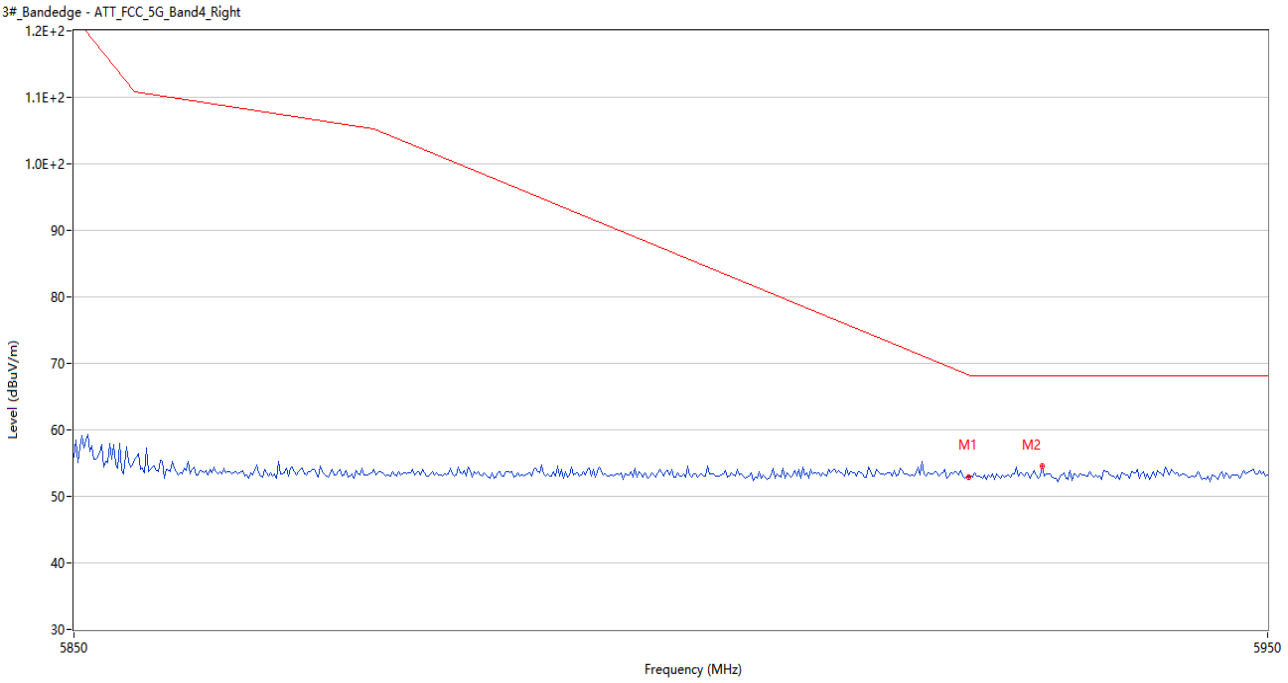
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.27	74.0	17.73	Peak	57.00	100	Horizontal	Pass
1**	5350.000	43.86	54.0	10.14	AV	57.00	100	Horizontal	Pass
2	5395.812	56.69	74.0	17.31	Peak	45.00	100	Horizontal	Pass
2**	5395.812	43.82	54.0	10.18	AV	45.00	100	Horizontal	Pass

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	5623.848	56.53	68.2	11.67	Peak	303.00	300	Horizontal	Pass
2	5650.000	53.47	68.2	14.74	Peak	303.00	300	Horizontal	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	5925.000	55.01	68.2	13.19	Peak	310.00	300	Horizontal	Pass
2	5943.406	57.44	68.2	10.76	Peak	328.00	300	Horizontal	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	5623.370	52.864	68.2	15.34	Peak	357.00	100	Horizontal	Pass
2	5650.000	53.805	68.2	14.40	Peak	357.00	100	Horizontal	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	5925.000	55.613	68.2	12.59	Peak	82.00	300	Horizontal	Pass
2	5944.492	54.893	68.2	13.31	Peak	339.00	200	Horizontal	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	5620.790	52.574	68.2	15.63	Peak	12.00	100	Horizontal	Pass
2	5650.000	51.005	68.2	17.20	Peak	12.00	100	Horizontal	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	5925.000	56.503	68.2	11.70	Peak	207.00	200	Horizontal	Pass
2	5946.234	52.013	68.2	16.19	Peak	126.00	100	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-EE26040641-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26040641-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26040641-AI.PDF”.

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--END OF REPORT--