

TEST REPORT

Product Name: Wireless Access PointModel Number: RG-RAP6202(G)FCC ID: 2AX5J-RAP6202G

Prepared for Address	::	Ruijie Networks Co., Ltd. Building 19, Juyuanzhou Industrial Park, No.618 Jinshan Road, CangshanDistrict, Fuzhou, Fujian, China			
Prepared by Address	::	EMTEK (SHENZHEN) CO., LTD. Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Tel: (0755) 26954280 Fax: (0755) 26954282			
Report Number Date(s) of Tests Date of Issue		ENS2211290160W00201R December 08, 2022 to December 30, 2022 December 30, 2022			



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Modified Information

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2211290160W00201R	/	Original Report



TEST RESULT CERTIFICATION

Applicant	:	Ruijie Networks Co., Ltd.	
Address	:	Building 19, Juyuanzhou Industrial Park, No.618 Jinshan Road, CangshanDistrict, Fuzhou, Fujian, China	
Manufacturer	:	Ruijie Networks Co., Ltd.	
Address	:	Building 19, Juyuanzhou Industrial Park, No.618 Jinshan Road, CangshanDistrict, Fuzhou, Fujian, China	
EUT	:	Wireless Access Point	
Model Name	:	RG-RAP6202(G)	
Trademark	:		

Measurement Procedure Used:

APPLICABLE STANDARDS			
STANDARD TEST RESULT			
FCC 47 CFR Part 2 , Subpart J FCC 47 CFR Part 15 , Subpart C	PASS		

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.247.

The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	December 08, 2022 to December 30, 2022
Prepared by	:	Una Yu Una Yu/Editor
Reviewer	:	The the SHENZHEN,
		Joe Xia/Supervisor
Approved & Authorized Signe	r:	
		Lisa Wang/Manager ESTING



1 EUT TECHNICAL DESCRIPTION

Characteristics	Description			
Product	Wireless Access Point			
Model Number	RG-RAP6202(G)			
IEEE 802.11 WLAN Mode Supported	 № 802.11b № 802.11g № 802.11n(20MHz channel bandwidth) № 802.11n(40MHz channel bandwidth) 			
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n			
Operating Frequency Range	2412-2462MHz for 802.11b/g/n(HT20) 2422-2452MHz for 802.11b/g/n(HT40)			
Number of Channels	11 channels for 802.11b/g/n(HT20) 7 Channels for 802.11n(HT40)			
Antenna Type	Integrated Antenna			
Antenna Gain	Ant 1: 3.67dBi, Ant 2: 2.92dBi			
Power Supply	DC 48V by POE adapter DC 12V by Power adapter			
Temperature Range	-30°C ~65°C			



2 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark	
15.247(a)(2)	DTS (6dB) Bandwidth	PASS		
15.247(b)(3)	Maximum Peak Conducted Output Power	PASS		
15.247(e)	Maximum Power Spectral Density Level	PASS		
15.247(d)	Unwanted Emission Into Non-Restricted Frequency Bands	PASS		
15.247(d) 15.209	Unwanted Emission Into Restricted Frequency Bands (conducted)	PASS		
15.247(d) 15.209	Radiated Spurious Emission	PASS		
15.207	Conducted Emission Test	PASS		
15.247(b)	Antenna Application	PASS		
	NOTE1: N/A (Not Applicable). NOTE2: According to FCC OET KDB 558074, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.			

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AX5J-RAP6202G filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.



3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

3.2 MEASUREMENT EQUIPMENT USED

For Conducted Emission Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESCI	101384	2022/5/14	1Year
AMN	Rohde & Schwarz	ENV216	101161	2022/5/14	1Year

For Spurious Emissions Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	II Test Receiver Rohde & Schwarz		100154	2022/5/14	1Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	100967	2022/5/14	1Year
Pre-Amplifie	Lunar EM	LNA30M3G-25	J101000007 0	2022/5/14	1Year
Pre-Amplifier	HP	8447F	2944A07999	2022/5/14	1Year
Pre-Amplifie	SKET	LNPA_0118G-45	SK20190518 01	2022/5/14	1Year
Pre-Amplifie Lunar EM		LNA1G18-48	J1011131010 001	2022/5/14	1Year
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2021/6/12	2 Year
Bilog Antenna	Schwarzbeck	VULB9163	659	2021/8/22	2 Year
Bilog Antenna	Schwarzbeck	VULB9163	712	2021/7/5	2 Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1177	2021/6/12	2 Year
Horn antenna	Schwarzbeck	BBHA9170	9170-399	2021/6/12	2 Year
Wideband Radio Communication Tester	R&S	CMW500	140822	2022/5/15	1Year
Thermometer	Hegao	HTC-1	1	2022/5/17	1Year

For Other Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval		
Signal Analyzer	Agilent	N9010A	MY53470879	2022/5/14	1Year		
Vector Signal Generater	Agilent	N5182B	MY53050878	2022/5/14	1Year		
Analog Signal Generator	Agilent	N5171B	MY53050553	2022/5/14	1Year		
Power Meter	Agilent	PS-X10-100	\	2022/5/15	1Year		
Blocking Box	THEDA	AD211	TW5451140	2022/5/14	1Year		
Switchgroup	THEDA	ETF-025(VASC6)	TW5451008	N/A	N/A		
MIMO Matrix Switch	THEDA	4P5TM18	TW5451009	N/A	N/A		
Thermometer	Hegao	HTC-1	\	2022/5/17	1Year		



3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

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Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)			
1	2412	5	2432	9	2452			
2	2417	6	2437	10	2457			
3	2422	7	2442	11	2462			
4	2427	8	2447					

Frequency and Channel list for 802.11 b/g/n(HT20):

Test Frequency and Channel for 802.11 b/g/n(HT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462

Multi-antenna correlation:

	V	Transmit Signals are Correlated
	V	Directional gain = 10 log[(10 ^{G1/20} + 10 ^{G2/20} + + 10 ^{GN/20})2 /N _{ANT}] dBi
		All Transmit Signals are Completely Uncorrelated
	Directional gain = 10 log[(10 ^{G1/10} + 10 ^{G2/10} + + 10 ^{GN/10)})/N _{ANT}] dBi	

ANT1+ANT2:

Directional gain = 10 log [(10^{3.67/20} + 10^{2.92/20})²/2] dBi=6.31 dBi



4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at:

EMTEK (Shenzhen) Co., Ltd.

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

4.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods".

4.3 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description EMC Lab.	 Accredited by CNAS The Certificate Registration Number is L2291 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017) Accredited by FCC Designation Number: CN1204 Test Firm Registration Number: 882943
	Accredited by A2LA The Certificate Number is 4321.01
	Accredited by Industry Canada The Conformity Assessment Body Identifier is CN0008
Name of Firm Site Location	 EMTEK (SHENZHEN) CO., LTD. Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China



5 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0dB
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5°C
Humidity	±3%

Measurement Uncertainty for a level of Confidence of 95%.



6 SETUP OF EQUIPMENT UNDER TEST

6.1 RADIO FREQUENCY TEST SETUP 1

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



6.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360° , and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360° , and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360° , and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Measurements shall be taken, using the following steps, at a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment (see RSS-Gen for applicable versions of ANSI and CISPR standards). (1) Line the ground plane with absorbers between the transmitter and the receive antenna to minimize reflections. The absorbers used should have a minimum-rated attenuation of 20 dB through the measurement frequency range of interest. The absorbers shall be positioned to replicate the layout used when compliance with the applicable acceptability criterion was achieved, as set forth in the aforementioned standards on site validation.

(2) Set the height of the receive antenna to 1.5 m. The receive antenna must be one that was designed and fabricated to operate over the entire frequency range of interest, for example, an appropriate standard gain horn.

(3) The distance between the receive antenna and the radiating source shall be sufficient in order to ensure far-field conditions.

(4) Mount the transmitter at a height of 1.5 m.

(5) Configure the device under test (DUT) to produce the maximum power spectral density as measured while assessing compliance with Section 6.2.2 (i.e. channel frequency, modulation type and data rate). If the DUT is equipped with a detachable antenna and the antenna is intended for remote installation (i.e.



tower-mounted), the DUT may be substituted with a suitable signal generator. The level and frequency settings on the generator shall be set so as to reproduce the maximum power spectral density, measured within a 1 MHz bandwidth, obtained while assessing compliance to Section 6.2.2. (6) Position the transmitter or the radiating antenna so that elevation pattern measurements can be taken.

(7) Find the 0° reference point in the horizontal plane.

(8) Care should be taken when positioning the receive antenna to avoid cross-polarization. Antennas of known mounting polarization should be assessed with the receive antenna oriented in the same polarity. If the polarization of the transmit antenna is unknown or the transmit antenna can be mounted in either polarization, e.i.r.p. measurements should be performed to find which mounting polarity provides the highest e.i.r.p. value. Testing shall be carried out with the receive antenna and the DUT mounted in each polarity.

(9) The emission shall be centred on the display of the spectrum analyzer with the following settings: i. If the power spectral density of the DUT was assessed with a peak detector and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a peak detector with a resolution bandwidth and video bandwidth of 1 MHz.

ii. If the power spectral density of the DUT was assessed using a sample detector with power averaging and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a sample detector, configured to produce 100 power averages and set with a resolution bandwidth, as well as a video bandwidth of 1 MHz.

iii. If the antenna can be detached from the DUT, a continuous wave (CW) signal equal to that of the power spectral density measurement may be used, the spectrum analyzer shall be set to peak detector with a resolution bandwidth and video bandwidth of 1 MHz.

(10) Rotate the turntable 360° recording the field strength at each step. Throughout the main beam of the antenna, the step size shall be kept to a maximum of 1°.

Once outside the main beam of the antenna, the maximum step size shall be as follows, when compared to the requirements of Section 6.2.2:

i. Between 0° and 8°, maximum step size of 2°;

ii. Between 8° and 40°, maximum step size of 4°;

iii. Between 40° and 45°, maximum step size of 1°;

iv. Between 45° and 90°, maximum step size of 5°.

Once the mask reaches 90°, the mask will be inverted and the step size will follow in the same manner as above.

For the purpose of this procedure, the main beam of the antenna is defined as the 3 dB beamwidth. (11) Convert the measured field strength values in terms of e.i.r.p. density (dBW/1 MHz) using the following equation:

e.i.r.p density(dBW/MHz)=10log((E*r)²/30)

E = field strength in V/m

r = measurement distance in metres

(12) Plot the results against the emission mask with reference to the horizontal plane.

(13) Using the plot, the 0° can be rotated to determine the worst-case installation tilt angle.

(14) Testing shall be performed using the highest gain antenna for every antenna type, if applicable.

(15) Antenna type(s), antenna model number(s), and worst-case tilt angle(s) necessary to remain

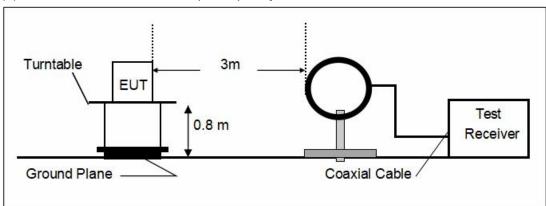
compliant with the elevation mask requirement set forth in Section 6.2.2(3) of RSS-247 shall be clearly indicated in the user manual.

The following figure is an example of a polar elevation mask measured using the Method 1 reference to $dB\mu V/m$ at 3 m.

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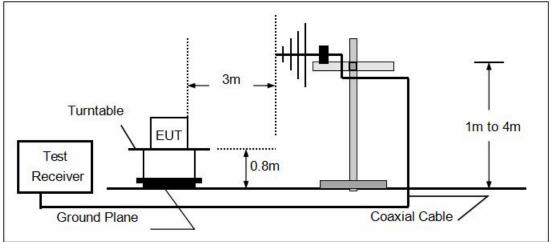
EMTEK (Shenzhen) Co., Ltd. Add: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Http://www.emtek.com.cn E-mail: cs.rep@emtek.com.cn



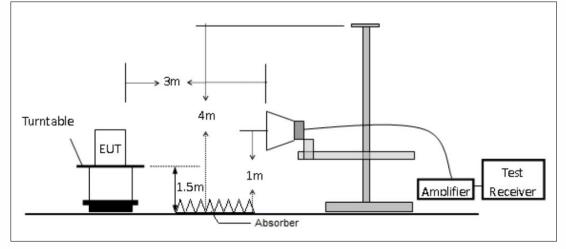


(a) Radiated Emission Test Set-Up, Frequency Below 30MHz

(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



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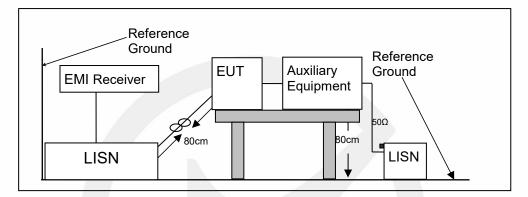


6.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

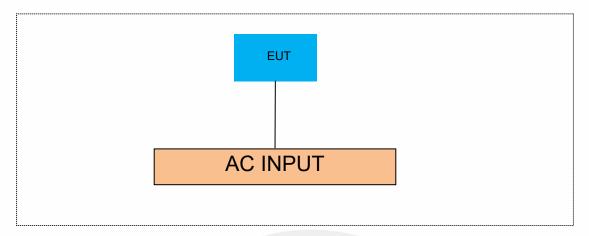
Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.8 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.





6.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



6.5 SUPPORT EQUIPMENT

POE Adapter	:	Model: PSA16U-480(POE) Input: 100-240V~0.4A, 50-60Hz		
		Output: 48V, 0.32A CE, FCC		
Power Adapter	•	Model: RD1201500-C55-198GB Input: 100-240V~50/60Hz, 0.6A Output: 12V, 1.5A		

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



7 **TEST REQUIREMENTS**

7.1 MINIMUM (6DB) OCCUPIED BANDWIDTH

7.1.1 Applicable Standard

According to FCC Part15.247 (a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02.

7.1.2 **Conformance Limit**

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

7.1.3 **Test Configuration**

Test according to clause 6.1 radio frequency test setup 1.

7.1.4 **Test Procedure**

The EUT was operating in WIFI mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 100 kHz.

Set the video bandwidth (VBW) =300 kHz.

Set Span=2 times OBW.

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

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. Measure and record the results in the test report.

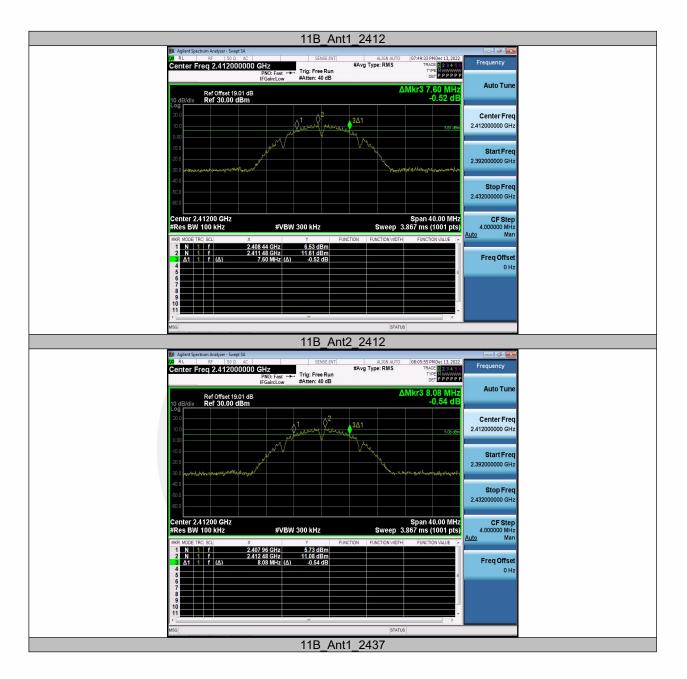
7.1.5 Test Results

Temperature :	25 ℃	ATM Pressure::	1011 mbar
Humidity :	45 %	Test By:	ZXR



TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant1	2412	7.600	2408.440	2416.040	0.5	PASS
	Ant2	2412	8.080	2407.960	2416.040	0.5	PASS
11B	Ant1	2437	8.080	2432.960	2441.040	0.5	PASS
ПD	Ant2	2437	8.040	2433.000	2441.040	0.5	PASS
	Ant1	2462	8.040	2458.000	2466.040	0.5	PASS
	Ant2	2462	8.040	2457.960	2466.000	0.5	PASS
	Ant1	2412	13.960	2405.080	2419.040	0.5	PASS
	Ant2	2412	13.120	2405.760	2418.880	0.5	PASS
11G	Ant1	2437	15.360	2428.880	2444.240	0.5	PASS
ПG	Ant2	2437	12.520	2431.960	2444.480	0.5	PASS
	Ant1	2462	12.520	2454.520	2467.040	0.5	PASS
	Ant2	2462	14.800	2454.720	2469.520	0.5	PASS
	Ant1	2412	12.880	2406.600	2419.480	0.5	PASS
	Ant2	2412	15.640	2404.480	2420.120	0.5	PASS
11N20MIMO	Ant1	2437	15.120	2429.440	2444.560	0.5	PASS
	Ant2	2437	15.680	2429.440	2445.120	0.5	PASS
	Ant1	2462	11.840	2455.520	2467.360	0.5	PASS
	Ant2	2462	15.680	2453.840	2469.520	0.5	PASS
	Ant1	2422	33.840	2404.480	2438.320	0.5	PASS
1111/00/000	Ant2	2422	35.040	2404.480	2439.520	0.5	PASS
	Ant1	2437	33.840	2419.480	2453.320	0.5	PASS
11N40MIMO	Ant2	2437	33.840	2420.680	2454.520	0.5	PASS
-	Ant1	2452	35.040	2434.480	2469.520	0.5	PASS
	Ant2	2452	35.040	2434.480	2469.520	0.5	PASS









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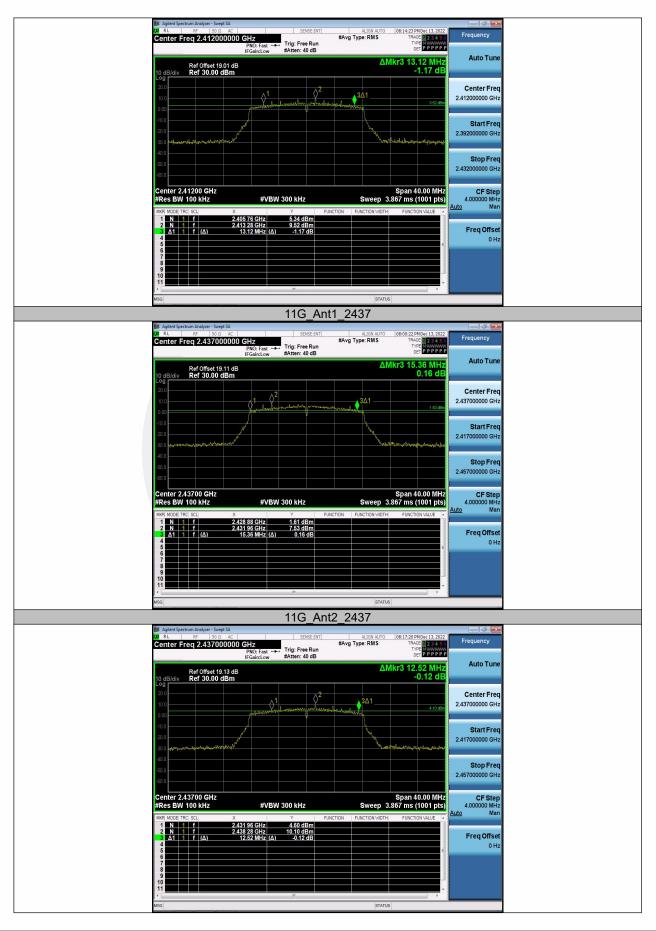






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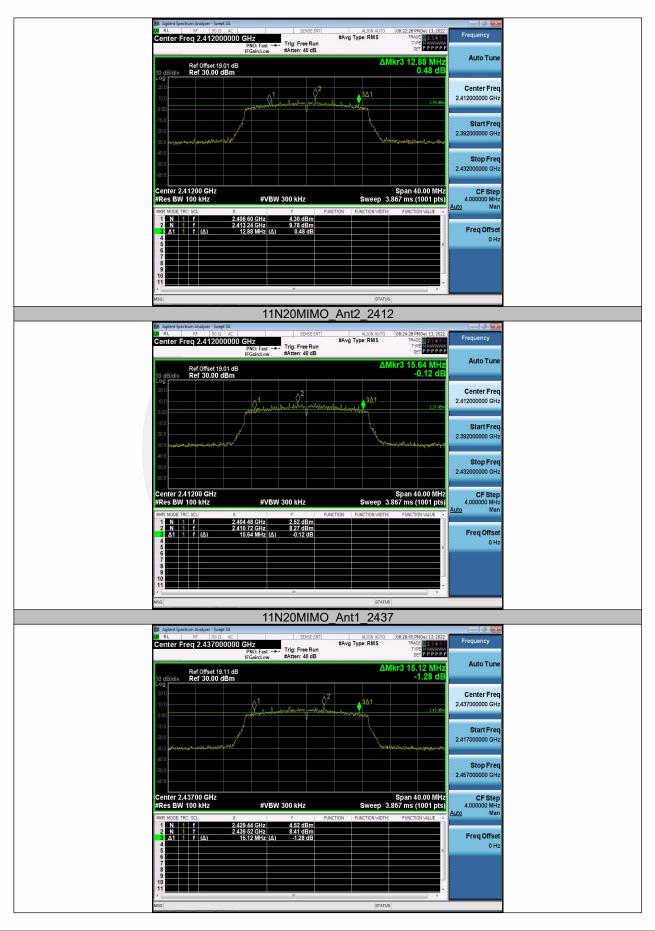
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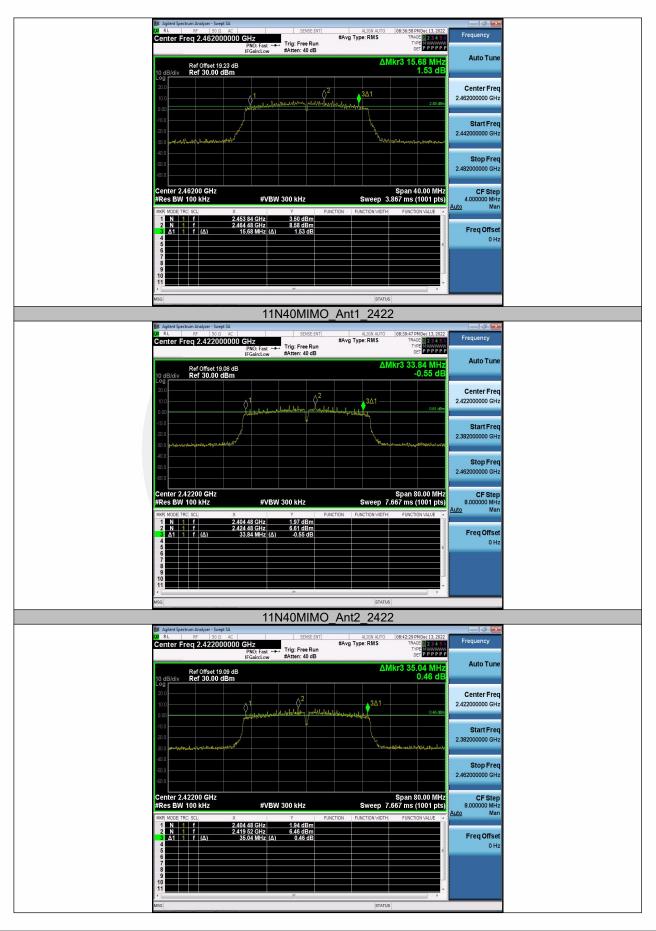






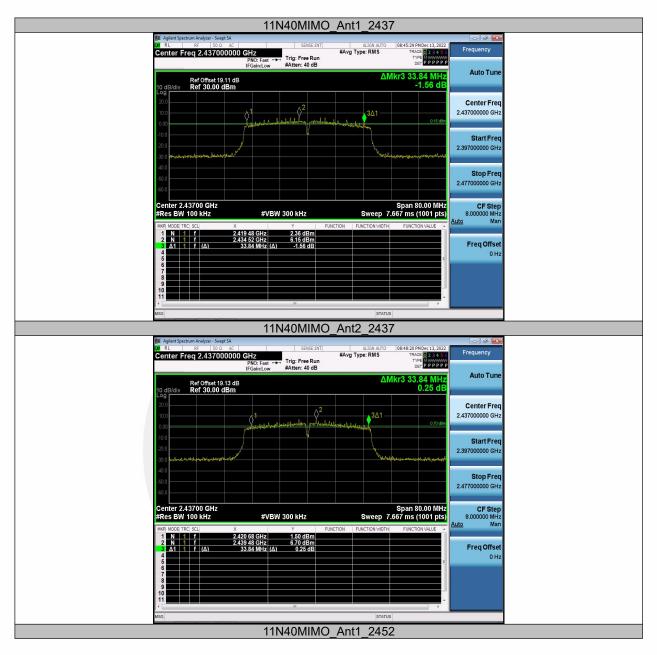






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7.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

7.2.1 Applicable Standard

According to FCC Part15.247 (b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02.

7.2.2 Conformance Limit

The maximum conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

7.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup.

7.2.4 Test Procedure

a) Set span to at least 1.5 times the OBW.

b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

c) Set VBW \geq 3 x RBW.

d) Number of points in sweep $\ge 2 \times \text{span}$ / RBW. (This gives bin-to-bin spacing \le RBW/2, so that narrowband signals are not lost between frequency bins.)

e) Sweep time = auto.

f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

According to FCC Part 15.247(b)(4):

Conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: If antenna Gain exceeds 6 dBi, then Output power Limit=30-(Gain- 6).

7.2.5 Test Results

Temperature :	25 ℃	ATM Pressure:	1011 mbar
Humidity :	45 %	Test By:	ZXR

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Software Power Setting:				
11B	0D			
11G	0D			
11N20	0D			
11N40	0D			

TestMode	Antenna	Frequen cy[MHz]	Peak Powert[dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
	Ant1	2412	16.12	29.69	19.79	35.69	PASS
	Ant2	2412	15.45	29.69	18.37	35.69	PASS
440	Ant1	2437	15.73	29.69	19.40	35.69	PASS
11B	Ant2	2437	15.80	29.69	18.72	35.69	PASS
	Ant1	2462	16.42	29.69	20.09	35.69	PASS
	Ant2	2462	15.97	29.69	18.89	35.69	PASS
	Ant1	2412	15.78	29.69	19.45	35.69	PASS
	Ant2	2412	15.11	29.69	18.03	35.69	PASS
11G	Ant1	2437	15.27	29.69	18.94	35.69	PASS
IIG	Ant2	2437	15.40	29.69	18.32	35.69	PASS
	Ant1	2462	16.03	29.69	19.70	35.69	PASS
	Ant2	2462	15.55	29.69	18.47	35.69	PASS
	Ant1	2412	15.40	29.69	19.07	35.69	PASS
	Ant2	2412	14.76	29.69	17.68	35.69	PASS
	total	2412	18.10	29.69	21.44	35.69	PASS
11N20MI	Ant1	2437	14.68	29.69	18.35	35.69	PASS
MO	Ant2	2437	14.88	29.69	17.80	35.69	PASS
IVIO	total	2437	17.79	29.69	21.09	35.69	PASS
	Ant1	2462	15.21	29.69	18.88	35.69	PASS
	Ant2	2462	14.93	29.69	17.85	35.69	PASS
	total	2462	18.08	29.69	21.41	35.69	PASS
	Ant1	2422	14.63	29.69	18.30	35.69	PASS
	Ant2	2422	14.34	29.69	17.26	35.69	PASS
	total	2422	17.50	29.69	20.82	35.69	PASS
11N40MI	Ant1	2437	14.20	29.69	17.87	35.69	PASS
MO	Ant2	2437	14.37	29.69	17.29	35.69	PASS
	total	2437	17.30	29.69	20.60	35.69	PASS
	Ant1	2452	14.74	29.69	18.41	35.69	PASS
l l	Ant2	2452	14.31	29.69	17.23	35.69	PASS
	total	2452	17.54	29.69	20.87	35.69	PASS









Report No. ENS2211290160W00201R



