

# **FCC Test Report**

Report No.: AGC09264210501FE05

**FCC ID** : 2ARPESRW-002PRO

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: Infrared Remote Control II

**BRAND NAME** : N/A

**MODEL NAME** : SRW-002 PRO

**APPLICANT**: Shenzhen Juku Intelligent Technology Co., Ltd.

FCC Part 15.247

**DATE OF ISSUE** : Jun. 05, 2021

STANDARD(S)

TEST PROCEDURE(S)

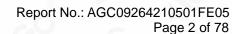
(8)

**REPORT VERSION**: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |  |
|----------------|-------------|---------------|---------------|-----------------|--|
| V1.0           | 1           | Jun. 05, 2021 | Valid         | Initial Release |  |

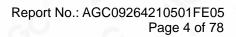
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# **TABLE OF CONTENTS**

| 1. VERIFICATION OF CONFORMITY                     | 5  |
|---|----|
| 2. GENERAL INFORMATION                            | 6  |
| 2.1. PRODUCT DESCRIPTION                          |    |
| 2.2. TABLE OF CARRIER FREQUENCYS                  | 6  |
| 2.3. IEEE 802.11N MODULATION SCHEME               | 7  |
| 2.4. RELATED SUBMITTAL(S) / GRANT (S)             | 7  |
| 2.5. TEST METHODOLOGY                             | 7  |
| 2.6. SPECIAL ACCESSORIES                          |    |
| 2.7. EQUIPMENT MODIFICATIONS                      |    |
| 2.8. ANTENNA REQUIREMENT                          |    |
| 3. MEASUREMENT UNCERTAINTY                        |    |
| 4. DESCRIPTION OF TEST MODES                      |    |
| 5. SYSTEM TEST CONFIGURATION                      |    |
| 5.1. CONFIGURATION OF EUT SYSTEM                  | 11 |
| 5.2. EQUIPMENT USED IN EUT SYSTEM                 | 11 |
| 5.3. SUMMARY OF TEST RESULTS                      |    |
| 6. TEST FACILITY                                  |    |
| 7. OUTPUT POWER                                   | 13 |
| 7.1. MEASUREMENT PROCEDURE                        | 13 |
| 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) | 13 |
| 7.3. LIMITS AND MEASUREMENT RESULT                | 14 |
| 8. BANDWIDTH                                      | 15 |
| 8.1. MEASUREMENT PROCEDURE                        | 15 |
| 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) | 15 |
| 8.3. LIMITS AND MEASUREMENT RESULTS               |    |
| 9. CONDUCTED SPURIOUS EMISSION                    | 27 |
| 9.1. MEASUREMENT PROCEDURE                        | 27 |
| 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) | 27 |
| 9.3. MEASUREMENT EQUIPMENT USEDJN                 |    |
| 9.4. LIMITS AND MEASUREMENT RESULT                | 27 |

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| 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY         | 39 |
|---|----|
| 10.1 MEASUREMENT PROCEDURE                                  | 39 |
| 10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)           | 39 |
| 10.3 MEASUREMENT EQUIPMENT USED                             |    |
| 10.4 LIMITS AND MEASUREMENT RESULT                          | 39 |
| 11. RADIATED EMISSION                                       | 45 |
| 11.1. MEASUREMENT PROCEDURE                                 | 45 |
| 11.2. TEST SETUP  |    |
| 11.3. LIMITS AND MEASUREMENT RESULT                         |    |
| 11.4. TEST RESULT   |    |
| 12. LINE CONDUCTED EMISSION TEST                            | 65 |
| 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST                |    |
| 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST         |    |
| 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST |    |
| 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST       |    |
| 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST           |    |
| APPENDIX A: PHOTOGRAPHS OF TEST SETUP                       | 69 |
| APPENDIX B: PHOTOGRAPHS OF EUT                              | 71 |

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# 1. VERIFICATION OF CONFORMITY

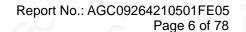
| Applicant                                      | Shenzhen Juku Intelligent Technology Co., Ltd.   |
|--|--|
| Address  | Room 511, Building 11, No.2018, Xuegang North Road, Gangtou Community, Bantian Street, Longgang District, Shenzhen |
| manufacturer                                   | Shenzhen Juku Intelligent Technology Co., Ltd.   |
| Address  | Room 511, Building 11, No.2018, Xuegang North Road, Gangtou Community, Bantian Street, Longgang District, Shenzhen |
| Factory  | Shenzhen Juku Intelligent Technology Co., Ltd.   |
| Address  | Room 511, Building 11, No.2018, Xuegang North Road, Gangtou Community, Bantian Street, Longgang District, Shenzhen |
| Product Designation Infrared Remote Control II |  |
| Brand Name                                     | N/A  |
| Test Model                                     | SRW-002 PRO  |
| Date of test                                   | May 26, 2021 to Jun. 05, 2021  |
| Deviation                                      | No any deviation from the test method  |
| Condition of Test Sample                       | Normal   |
| Test Result                                    | Pass   |
| Report Template                                | AGCRT-US-BGN/RF  |
| 10   |  |

# We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (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 radiated emission limits of FCC Rules Part 15.247.

| Prepared By | John Zerry                        |               |
|-------------|-----------------------------------|---------------|
| SGC -       | John Zeng<br>Project Engineer     | Jun. 05, 2021 |
| Reviewed By | Max Zhang                         |               |
| F. FO.      | Max Zhang<br>Reviewer             | Jun. 05, 2021 |
| Approved By | Formestico                        |               |
|             | Forrest Lei<br>Authorized Officer | Jun. 05, 2021 |

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# 2. GENERAL INFORMATION

# 2.1. PRODUCT DESCRIPTION

The EUT is designed as "Infrared Remote Control II". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

| Operation Frequency    | 2.412 GHz~2.462GHz  |
|------------------------|---|
| Output Power (Average) | IEEE 802.11b:15.12dBm; IEEE 802.11g:13.54dBm; IEEE 802.11n(20):12.76dBm |
| Output Power (Peak)    | IEEE 802.11b:17.87dBm; IEEE 802.11g:21.13dBm; IEEE 802.11n(20):20.41dBm |
| Modulation             | DSSS(DBPSK/DQPSK/CCK); OFDM(BPSK/QPSK/16-QAM/64-QAM)                    |
| Number of channels     | 11  |
| Hardware Version       | V2.1  |
| Software Version       | V2.1  |
| Antenna Designation    | PCB antenna (Comply with requirements of the FCC part 15.203)           |
| Antenna Gain           | 1dBi  |
| Power Supply           | DC 5V by adapter  |

## 2.2. TABLE OF CARRIER FREQUENCYS

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| GO C           | <sub>®</sub> 1 | 2412 MHZ  |
|                | 2              | 2417 MHZ  |
|                | 3              | 2422 MHZ  |
| -C             | 4              | 2427 MHZ  |
| 10             | 5              | 2432 MHZ  |
| 2400~2483.5MHZ | 6              | 2437 MHZ  |
| 300 -0         | 7              | 2442 MHZ  |
|                | 8              | 2447 MHZ  |
|                | 9              | 2452 MHZ  |
| NO CO          | 10             | 2457 MHZ  |
|                | 11             | 2462 MHZ  |

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11.

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Page 7 of 78

## 2.3. IEEE 802.11N MODULATION SCHEME

| MCS<br>Index | Nss   Modulation   R   NBPSC |        | BPS | NDBPS |       | Data<br>rate(Mbps)<br>800nsGl |       |       |       |       |
|--------------|------------------------------|--------|-----|-------|-------|-------------------------------|-------|-------|-------|-------|
|              |                              |        |     |       | 20MHz | 40MHz                         | 20MHz | 40MHz | 20MHz | 40MHz |
| 0            | 1                            | BPSK   | 1/2 | 1     | 52    | 108                           | 26    | 54    | 6.5   | 13.5  |
| 1 💿          | 1                            | QPSK   | 1/2 | 2     | 104   | 216                           | 52    | 108   | 13.0  | 27.0  |
| 2            | 1                            | QPSK   | 3/4 | 2     | 104   | 216                           | 78    | 162   | 19.5  | 40.5  |
| 3            | 1                            | 16-QAM | 1/2 | 4     | 208   | 432                           | 104   | 216   | 26.0  | 54.0  |
| 4            | 1                            | 16-QAM | 3/4 | 4     | 208   | 432                           | 156   | 324   | 39.0  | 81.0  |
| 5            | 1                            | 64-QAM | 2/3 | 6     | 312   | 648                           | 208   | 432   | 52.0  | 108.0 |
| 6            | 1                            | 64-QAM | 3/4 | 6     | 312   | 648                           | 234   | 489   | 58.5  | 121.5 |
| 7            | 9 1                          | 64-QAM | 5/6 | 6     | 312   | 648                           | 260   | 540   | 65.0  | 135.0 |

| Symbol | Explanation                             |
|--------|---|
| NSS    | Number of spatial streams               |
| R      | Code rate                               |
| NBPSC  | Number of coded bits per single carrier |
| NCBPS  | Number of coded bits per symbol         |
| NDBPS  | Number of data bits per symbol          |
| GI     | Guard interval                          |

# 2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ARPESRW-002PRO** filing to comply with the FCC Part 15 requirements.

## 2.5. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

## 2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

## 2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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Page 8 of 78

## 2.8. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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Page 9 of 78

# 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

| Item  | Measurement Uncertainty    |  |  |
|---|----------------------------|--|--|
| Uncertainty of Conducted Emission for AC Port | $U_c = \pm 3.1 \text{ dB}$ |  |  |
| Uncertainty of Radiated Emission below 1GHz   | $U_c = \pm 4.0 \text{ dB}$ |  |  |
| Uncertainty of Radiated Emission above 1GHz   | $U_c = \pm 4.8 \text{ dB}$ |  |  |
| Uncertainty of total RF power, conducted      | $U_c = \pm 0.8 \text{ dB}$ |  |  |
| Uncertainty of RF power density, conducted    | $U_c = \pm 2.6 \text{ dB}$ |  |  |
| Uncertainty of spurious emissions, conducted  | U <sub>c</sub> = ±2 %      |  |  |
| Uncertainty of Occupied Channel Bandwidth     | U <sub>c</sub> = ±2 %      |  |  |

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Page 10 of 78

# 4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION            |
|-----|----------------------------------|
| 1   | Low channel transmitting (TX)    |
| 2   | Middle channel transmitting (TX) |
| 3   | High channel transmitting (TX)   |

### Note:

Transmit by 802.11b with Date rate (1/2/5.5/11)

Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54)

Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)

The test channel for 20MHZ bandwidth system is channel 1, 6 and 11.

### Note:

- 1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the EUT is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 3. The test software is the AmebaZ2\_mptool\_1v3 which can set the EUT into the individual test modes.

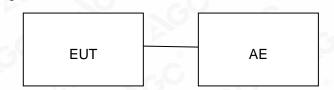
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Page 11 of 78

# 5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure:



# **5.2. EQUIPMENT USED IN EUT SYSTEM**

| Item | Equipment Model No.        |               | ID or Specification | Remark |
|------|----------------------------|---------------|---------------------|--------|
| 1    | Infrared Remote Control II | SRW-002 PRO   | 2ARPESRW-002PRO     | EUT    |
| 2    | Adapter                    | TY0500100E1MN | N/A                 | AE     |
| 3    | control board              | N/A           | USB_TTL             | AE     |

# **5.3. SUMMARY OF TEST RESULTS**

| FCC RULES | DESCRIPTION OF TEST                             | RESULT    |  |
|-----------|---|-----------|--|
| §15.247   | Output Power                                    | Compliant |  |
| §15.247   | 6 dB Bandwidth                                  | Compliant |  |
| §15.247   | Conducted Spurious Emission                     | Compliant |  |
| §15.247   | Maximum Conducted Output Power Spectral Density | Compliant |  |
| §15.209   | Radiated Emission                               | Compliant |  |
| §15.247   | Band Edges                                      | Compliant |  |
| §15.207   | Line Conduction Emission                        | Compliant |  |

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Page 12 of 78

# 6. TEST FACILITY

| Test Site                         | Attestation of Global Compliance (Shenzhen) Co., Ltd   |  |  |  |
|-----------------------------------|--|--|--|--|
| Location                          | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |  |  |  |
| <b>Designation Number</b>         | CN1259   |  |  |  |
| FCC Test Firm Registration Number | 975832   |  |  |  |
| A2LA Cert. No.                    | 5054.02  |  |  |  |
| Description                       | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA  |  |  |  |

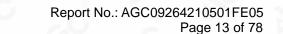
# TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment     | Manufacturer | Model            | S/N    | Cal. Date    | Cal. Due      |
|---------------|--------------|------------------|--------|--------------|---------------|
| TEST RECEIVER | R&S          | ESPI             | 101206 | May 15, 2021 | May 14, 2022  |
| LISN          | R&S          | ESH2-Z5          | 100086 | Jul. 03,2020 | Jul. 02, 2021 |
| Test software | R&S          | ES-K1(Ver.V1.71) | N/A    | N/A          | N/A           |

# **TEST EQUIPMENT OF RADIATED EMISSION TEST**

| Equipment                            | Manufacturer   | Model                | S/N        | Cal. Date     | Cal. Due      |
|--------------------------------------|----------------|----------------------|------------|---------------|---------------|
| TEST RECEIVER                        | R&S            | ESCI                 | 10096      | May 15, 2021  | May 14, 2022  |
| EXA Signal<br>Analyzer               | Aglient        | N9010A               | MY53470504 | Dec. 07, 2020 | Dec. 06, 2021 |
| 2.4GHz Fliter                        | Micro-tronics  | 087                  | N/A        | Mar. 23, 2020 | Mar. 22, 2022 |
| Attenuator                           | Weinachel Corp | 58-30-33             | N/A        | Sep. 03, 2020 | Sep. 02, 2022 |
| Horn antenna                         | SCHWARZBECK    | BBHA 9170            | #768       | Sep.21, 2019  | Sep. 20, 2021 |
| Active loop<br>antenna<br>(9K-30MHz) | ZHINAN         | ZN30900C             | 18051      | May 22, 2020  | May 21, 2022  |
| Double-Ridged<br>Waveguide Horn      | ETS LINDGREN   | 3117                 | 00034609   | Apr. 23, 2021 | Apr. 22, 2022 |
| Broadband<br>Preamplifier            | ETS LINDGREN   | 3117PA               | 00225134   | Sep. 03, 2020 | Sep. 02, 2022 |
| ANTENNA                              | SCHWARZBECK    | VULB9168             | D69250     | Sep. 20, 2019 | Sep. 19, 2021 |
| Test software                        | Tonscend       | JS32-RE<br>(Ver.2.5) | N/A        | N/A           | N/A           |

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# 7. OUTPUT POWER

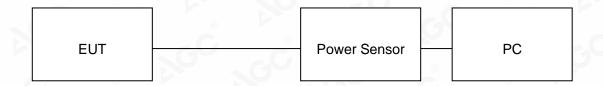
# 7.1. MEASUREMENT PROCEDURE

For average power test:

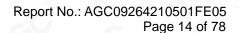
- 1. Connect EUT RF output port to power sensor through an RF attenuator.
- 2. Connect the power sensor to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.

**Note**: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

# 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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# 7.3. LIMITS AND MEASUREMENT RESULT

| Test Data of Conducted Output Power |                       |                     |                     |              |              |
|-------------------------------------|-----------------------|---------------------|---------------------|--------------|--------------|
| Test Mode                           | Test Channel<br>(MHz) | Average Power (dBm) | Peak Power<br>(dBm) | Limits (dBm) | Pass or Fail |
| C                                   | 2412                  | 14.54               | 17.34               | ≪30          | Pass         |
| 802.11b                             | 2437                  | 14.84               | 17.63               | <b>\$</b> 0  | Pass         |
|                                     | 2462                  | 15.12               | 17.87               | <b>\$</b> 0  | Pass         |
| 802.11g                             | 2412                  | 12.81               | 20.40               | <b>≪3</b> 0  | Pass         |
|                                     | 2437                  | 13.25               | 20.90               | <b>\$</b> 0  | Pass         |
|                                     | 2462                  | 13.54               | 21.13               | <b>\$</b> 0  | Pass         |
| 802.11n20                           | 2412                  | 12.13               | 19.75               | ₹30          | Pass         |
|                                     | 2437                  | 12.56               | 20.07               | <b>≪3</b> 0  | Pass         |
|                                     | 2462                  | 12.76               | 20.41               | <b>\$</b> 0  | Pass         |

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## 8. BANDWIDTH

## **8.1. MEASUREMENT PROCEDURE**

#### 6dB bandwidth:

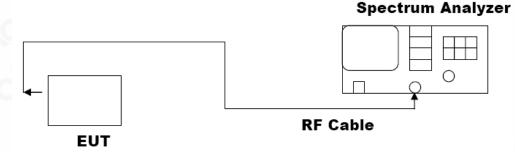
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

## Occupied bandwidth:

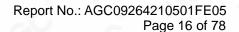
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel
  The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
  bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

# 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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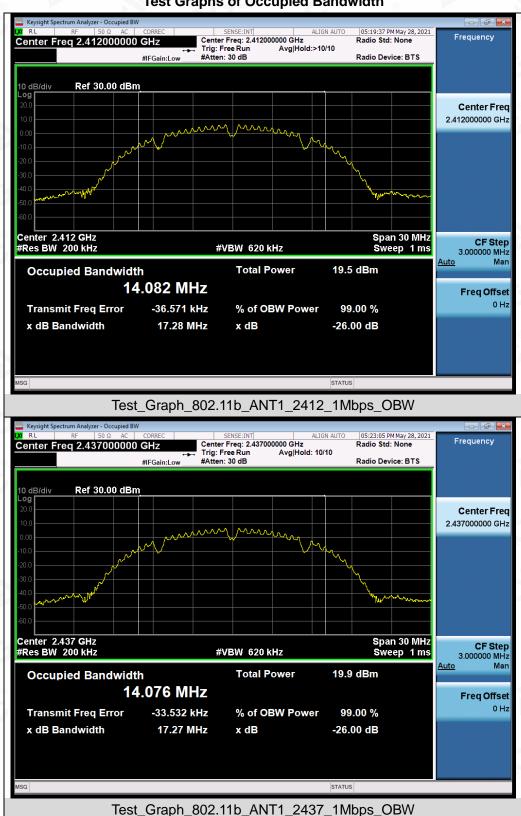
# 8.3. LIMITS AND MEASUREMENT RESULTS

| Test Data of Occupied Bandwidth and DTS Bandwidth |                       |                                 |                         |                 |              |
|---|-----------------------|---------------------------------|-------------------------|-----------------|--------------|
| Test Mode   | Test Channel<br>(MHz) | 99% Occupied<br>Bandwidth (MHz) | -6dB<br>Bandwidth (MHz) | Limits<br>(MHz) | Pass or Fail |
| -G  | 2412                  | 14.082                          | 9.051                   | ₹9.5            | Pass         |
| 802.11b   | 2437                  | 14.076                          | 9.021                   | ∌.5             | Pass         |
|   | 2462                  | 14.081                          | 9.069                   | ∌.5             | Pass         |
| 802.11g   | 2412                  | 16.725                          | 16.35                   | ₹9.5            | Pass         |
|   | 2437                  | 16.605                          | 16.35                   | ₹9.5            | Pass         |
|   | 2462                  | 16.823                          | 16.34                   | ₹0.5            | Pass         |
| . ®   | 2412                  | 17.738                          | 17.58                   | ∌.5             | Pass         |
| 802.11n20   | 2437                  | 17.775                          | 17.57                   | ∌.5             | Pass         |
|   | 2462                  | 17.781                          | 17.58                   | ∌.5             | Pass         |

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# **Test Graphs of Occupied Bandwidth**



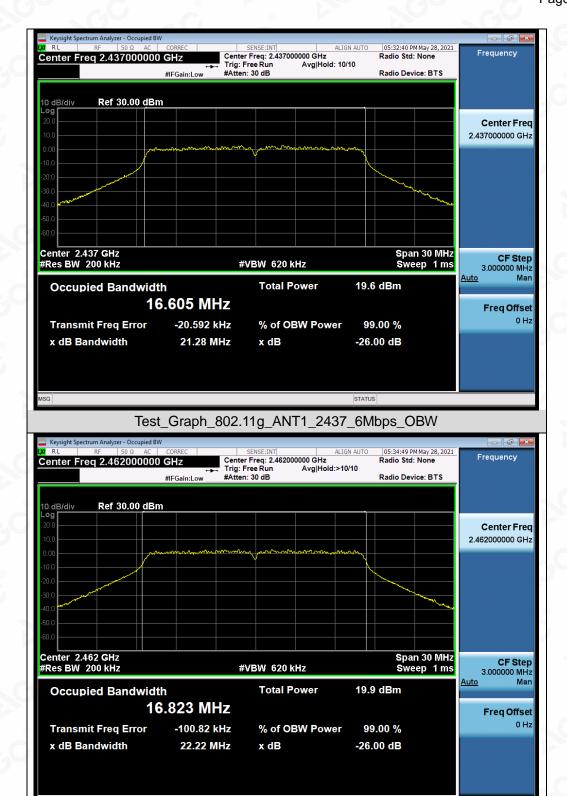
Compliance Pest Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the a/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written and n The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15d the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.





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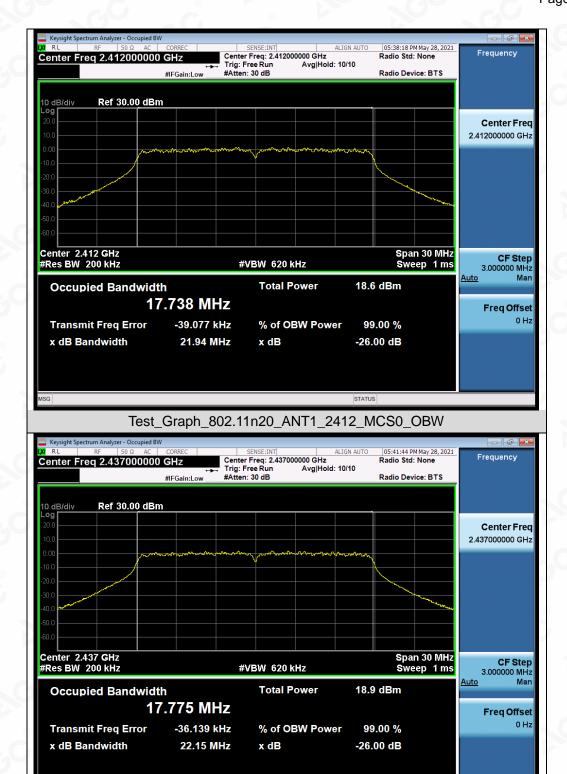




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Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_OBW



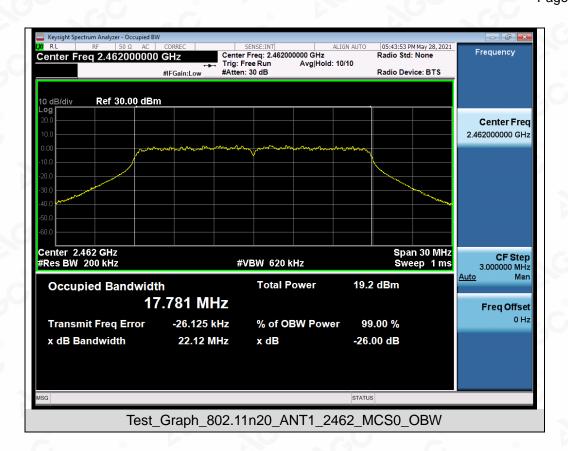


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Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_OBW

the test report.

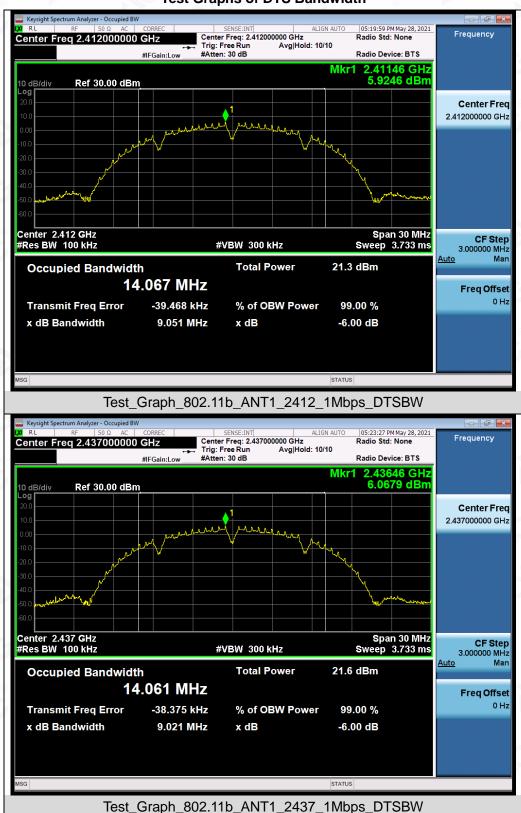




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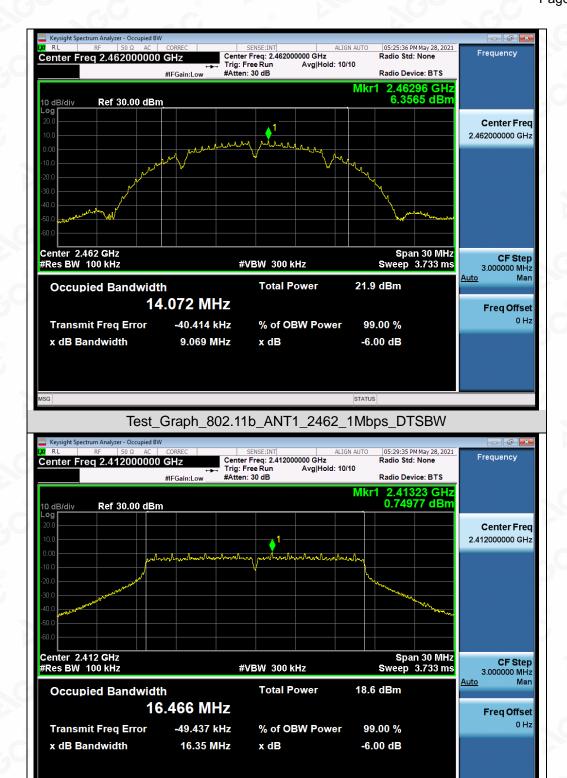


## Test Graphs of DTS Bandwidth



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Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_DTSBW

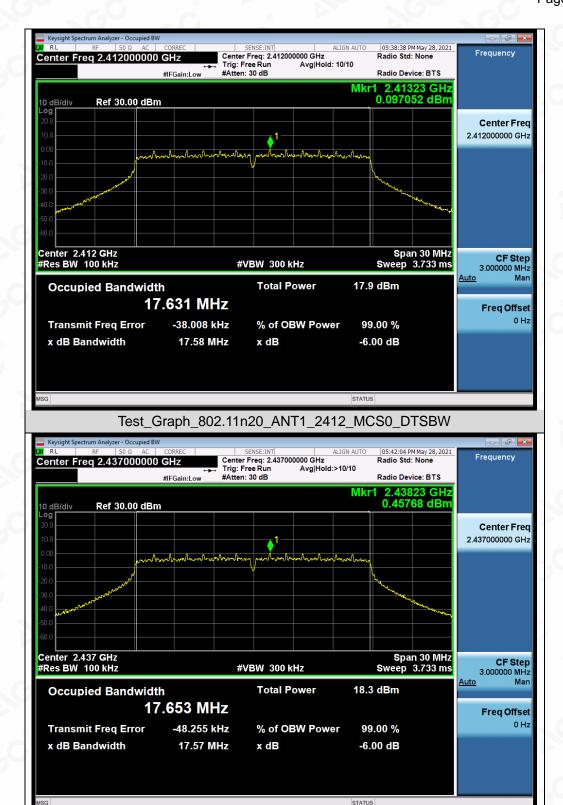




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Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_DTSBW



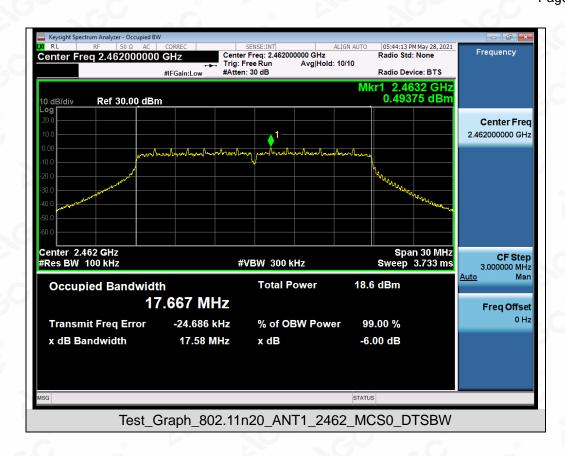


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Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_DTSBW

g/Inspection
The test results
the test report.





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Page 27 of 78

# 9. CONDUCTED SPURIOUS EMISSION

### 9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW>RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW>RBW) are conform to the requirement.

# 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

#### 9.3. MEASUREMENT EQUIPMENT USEDJN

The same as described in section 6.

#### 9.4. LIMITS AND MEASUREMENT RESULT

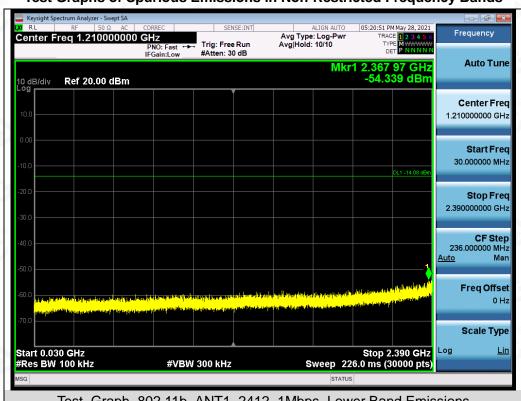
| LIMITS AND MEASUREMENT RESULT   |  |          |  |  |  |  |
|---|--|----------|--|--|--|--|
| Annii alda Limita   | Measurement Result   |          |  |  |  |  |
| Applicable Limits   | Test Data  | Criteria |  |  |  |  |
| In any 100 KHz Bandwidth Outside the  | At least -20dBc than the limit                                 |          |  |  |  |  |
| frequency band in which the spread spectrum   | Specified on the BOTTOM  | PASS     |  |  |  |  |
| intentional radiator is operating, the radio frequency  | Channel  | a.C      |  |  |  |  |
| power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.  In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a)) | At least -20dBc than the limit<br>Specified on the TOP Channel | PASS     |  |  |  |  |

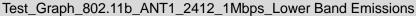
Note: The limits reference level is according to the test plot of -6dB bandwidth.

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# Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



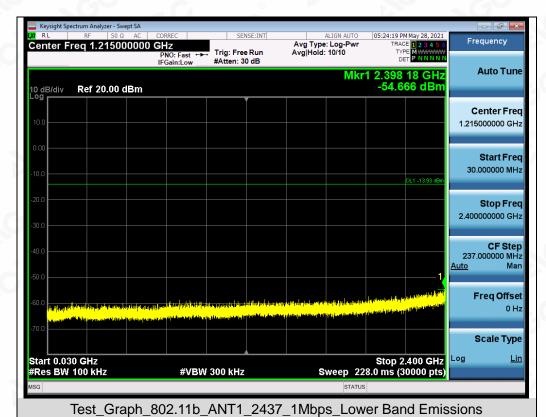




Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_Higher Band Emissions

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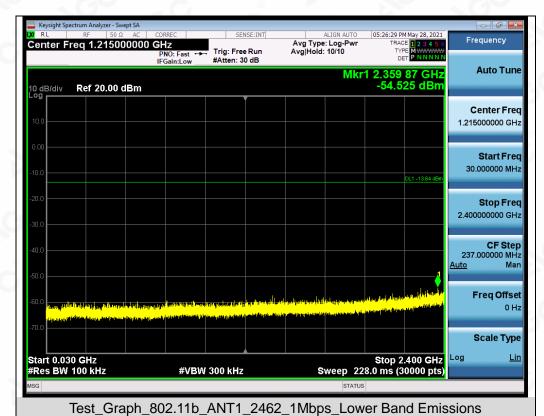






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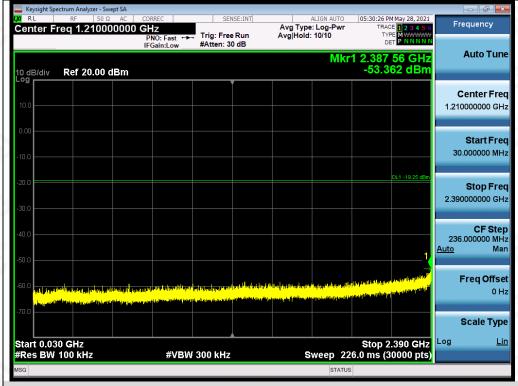




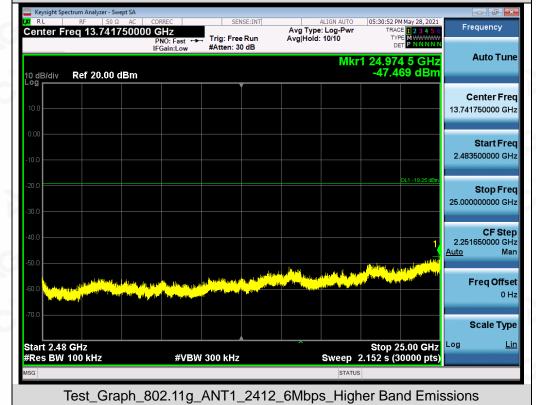


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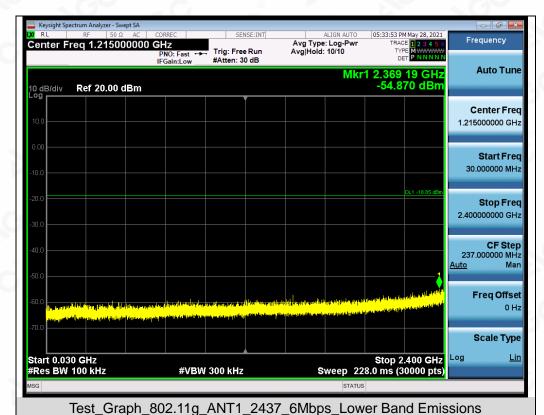






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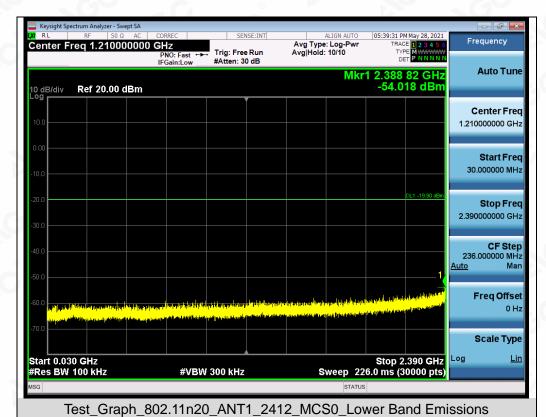




Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_Higher Band Emissions

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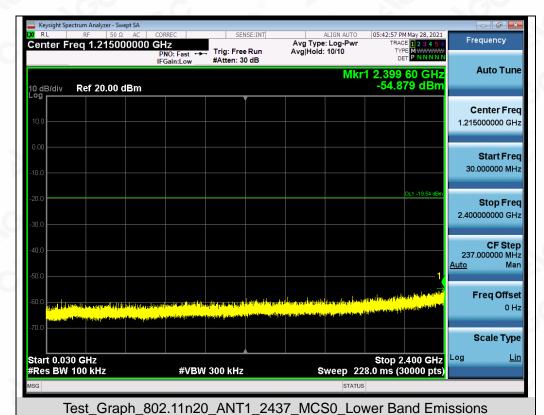






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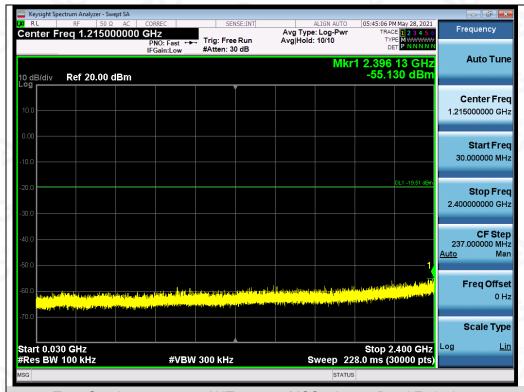




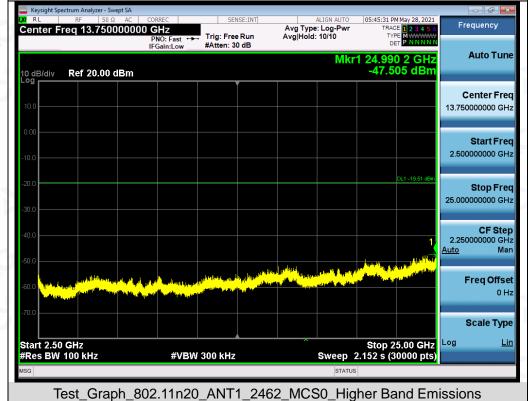


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# Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_Lower Band Edge Emissions

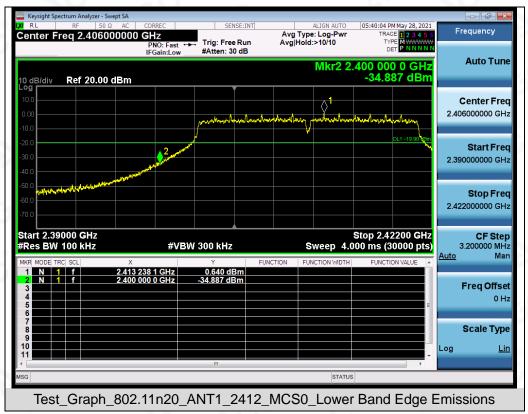


Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_Lower Band Edge Emissions

Compliance Bedicated Fest Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the g/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter The test results uance of the test report. presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15d Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

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Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.

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Page 39 of 78

# 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

## **10.1 MEASUREMENT PROCEDURE**

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the ANSI C63.10 (2013) item 11.10 was used in this testing.

# 10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 8.2.

# **10.3 MEASUREMENT EQUIPMENT USED**

Refer to Section 6.

## **10.4 LIMITS AND MEASUREMENT RESULT**

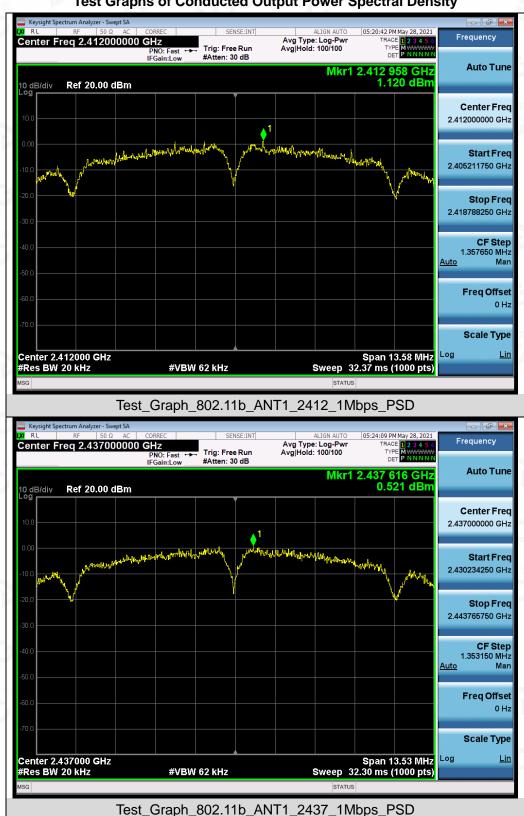
|           | Test Data of Conducted Output Power Spectral Density |                              |                             |                     |              |  |  |
|-----------|--|------------------------------|-----------------------------|---------------------|--------------|--|--|
| Test Mode | Test Channel (MHz)                                   | Power density<br>(dBm/20kHz) | Power density<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Pass or Fail |  |  |
|           | 2412   | 1.120                        | -7.119                      |                     | Pass         |  |  |
| 802.11b   | 2437   | 0.521                        | -7.718                      |                     | Pass         |  |  |
|           | 2462   | 1.879                        | -6.36                       | - \$8               | Pass         |  |  |
| O GC      | 2412   | -3.659                       | -11.898                     |                     | Pass         |  |  |
| 802.11g   | 2437   | -4.235                       | -12.474                     | - \$8               | Pass         |  |  |
|           | 2462   | -4.027                       | -12.266                     | - \$8               | Pass         |  |  |
| 60        | 2412   | -5.788                       | -14.027                     |                     | Pass         |  |  |
| 802.11n20 | 2437   | -5.409                       | -13.648                     |                     | Pass         |  |  |
|           | 2462   | -4.377                       | -12.616                     |                     | Pass         |  |  |

Note: Power density(dBm/3kHz) = Power density(dBm/20kHz) - 10\*log(20/3).

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# **Test Graphs of Conducted Output Power Spectral Density**

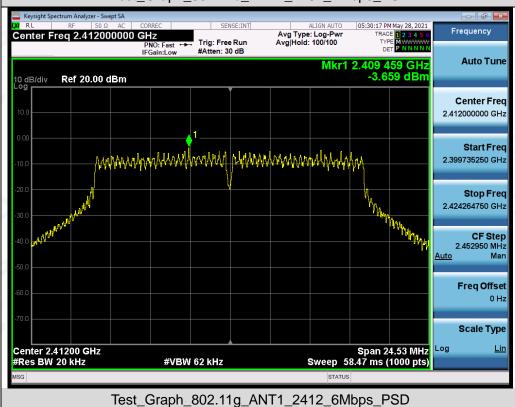


Compliance Dedicated Festing/Inspection Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Any report having not been signed by authorized approver, or having been altered without authorization, or having not been signed by authorized approver, or having been altered without authorization, or having not been signed by authorization of AGC. The test results start is the resert apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of the test report. The test results Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

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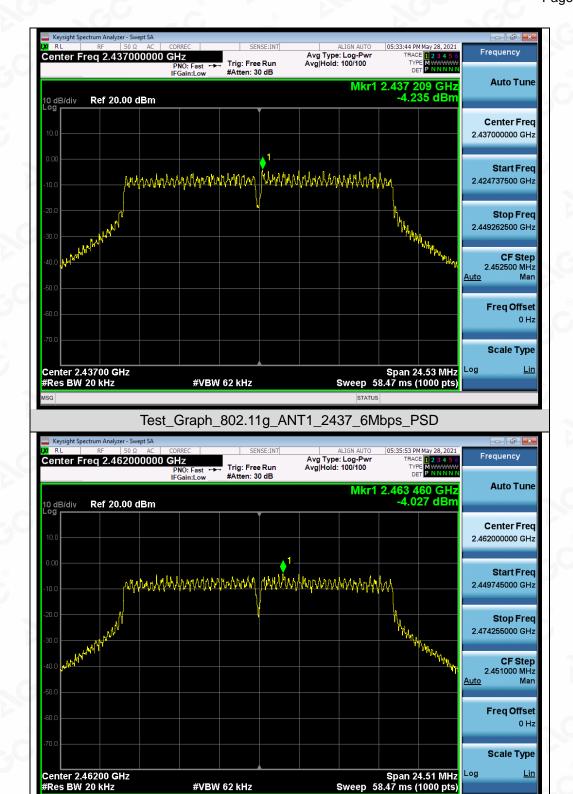






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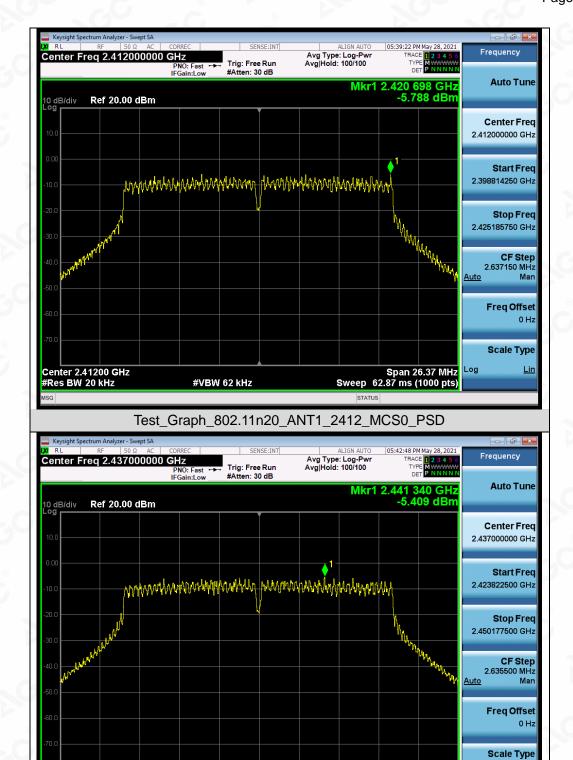


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Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_PSD

**#VBW** 62 kHz





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Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_PSD

**#VBW** 62 kHz

Span 26.36 MHz Sweep 62.87 ms (1000 pts)

Center 2.43700 GHz #Res BW 20 kHz