

# **FCC Test Report**

Report No.: AGC10648200601FE05

FCC ID : 2AXBN-CG1

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: Wireless Smart Battery Camera

BRAND NAME : N/A

**MODEL NAME** : CG1, CG1NF, CG1NS, CG1NA

**APPLICANT**: SHENZHEN CYTON Intelligence Technology CO.,LTD

**DATE OF ISSUE** : Aug. 10, 2020

STANDARD(S)

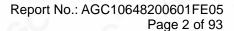
TEST PROCEDURE(S) : FCC Part 15.247

**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           | /           | Aug. 10, 2020 | Valid         | Initial Release |

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## **TABLE OF CONTENTS**

| 1. VERIFICATION OF CONFORMITY                     | 5    |
|---|------|
| 2. GENERAL INFORMATION                            | 6    |
| 2.1. PRODUCT DESCRIPTION                          | 6    |
| 2.2. TABLE OF CARRIER FREQUENCYS                  |      |
| 2.3. IEEE 802.11N MODULATION SCHEME               |      |
| 2.4. RELATED SUBMITTAL(S) / GRANT (S)             |      |
| 2.5. TEST METHODOLOGY                             |      |
| 2.6. SPECIAL ACCESSORIES                          |      |
| 2.7. EQUIPMENT MODIFICATIONS                      | 7    |
| 2.8. ANTENNA REQUIREMENT                          | 8    |
| 3. MEASUREMENT UNCERTAINTY                        | 9    |
| 4. DESCRIPTION OF TEST MODES                      | CO 2 |
|   |      |
| 5. SYSTEM TEST CONFIGURATION                      | 11   |
| 5.1. CONFIGURATION OF EUT SYSTEM                  | 11   |
| 5.2. EQUIPMENT USED IN EUT SYSTEM                 | 11   |
| 5.3. SUMMARY OF TEST RESULTS                      | 11   |
| 6. TEST FACILITY                                  | 12   |
|   |      |
| 7. OUTPUT POWER                                   | 13   |
| 7.1. MEASUREMENT PROCEDURE                        | 13   |
| 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) |      |
| 7.3. LIMITS AND MEASUREMENT RESULT                |      |
| 8. 6 DB BANDWIDTH                                 |      |
| 8. 6 DB BANDWIDTH                                 | 16   |
| 8.1. MEASUREMENT PROCEDURE                        | 16   |
| 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) | 16   |
| 8.3. LIMITS AND MEASUREMENT RESULTS               | 17   |
| 9 CONDUCTED SPURIOUS EMISSION                     | 25   |

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| 9.1. MEASUREMENT PROCEDURE                                  | 25 |
|---|----|
| 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)           | 25 |
| 9.3. MEASUREMENT EQUIPMENT USEDJN                           | 25 |
| 9.4. LIMITS AND MEASUREMENT RESULT                          | 25 |
| 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY         | 44 |
| 10.1 MEASUREMENT PROCEDURE                                  | 44 |
| 10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)           |    |
| 10.3 MEASUREMENT EQUIPMENT USED                             |    |
| 10.4 LIMITS AND MEASUREMENT RESULT                          | 44 |
| 11. RADIATED EMISSION                                       | 52 |
| 11.1. MEASUREMENT PROCEDURE                                 | 52 |
| 11.2. TEST SETUP  |    |
| 11.3. LIMITS AND MEASUREMENT RESULT                         | 54 |
| 11.4. TEST RESULT   | 54 |
| 12. BAND EDGE EMISSION                                      | 60 |
| 12.1. MEASUREMENT PROCEDURE                                 | 60 |
| 12.2. TEST SET-UP   |    |
| 12.3. TEST RESULT   |    |
| 13. FCC LINE CONDUCTED EMISSION TEST                        | 77 |
| 13.1. LIMITS OF LINE CONDUCTED EMISSION TEST                | 77 |
| 13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST         |    |
| 13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST |    |
| 13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST       |    |
| 13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST           |    |
|   |    |
| APPENDIX A: PHOTOGRAPHS OF TEST SETUP                       | 81 |
| APPENDIX B. PHOTOGRAPHS OF FUT                              | 82 |

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## 1. VERIFICATION OF CONFORMITY

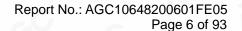
| .,                       |   |
|--------------------------|---|
| Applicant                | SHENZHEN CYTON Intelligence Technology CO.,LTD  |
| Address                  | F/L 601, Building K, Jinchangda, No. 2000089, Shangwei industrial zone, Zhangkengjing community, Guanhu street, Longhua District, Shenzhen, China |
| manufacturer             | SHENZHEN CYTON Intelligence Technology CO.,LTD  |
| Address                  | F/L 601, Building K, Jinchangda, No. 2000089, Shangwei industrial zone, Zhangkengjing community, Guanhu street, Longhua District, Shenzhen, China |
| Factory                  | SHENZHEN CYTON Intelligence Technology CO.,LTD  |
| Address                  | F/L 601, Building K, Jinchangda, No. 2000089, Shangwei industrial zone, Zhangkengjing community, Guanhu street, Longhua District, Shenzhen, China |
| Product Designation      | Wireless Smart Battery Camera   |
| Brand Name               | N/A   |
| Test Model               | CG1   |
| Series Model             | CG1NF, CG1NS, CG1NA   |
| Difference description   | CG1 is fully functional, CG1NF does not carry white light, CG1NS does not carry G_SENSOR, CG1NA does not carry white light and G_SENSOR           |
| Date of test             | Jul. 27, 2020 to Aug. 10, 2020  |
| Deviation                | No any deviation from the test method   |
| Condition of Test Sample | Normal  |
| Test Result              | Pass  |
| Report Template          | AGCRT-US-BGN/RF   |
|                          |   |

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 | sky dong                            |               |
|-------------|-------------------------------------|---------------|
| P. P.       | Sky Dong<br>(Project Engineer)      | Aug. 10, 2020 |
| Reviewed By | Max Zhang                           | CC CC         |
|             | Max Zhang<br>(Reviewer)             | Aug. 10, 2020 |
| Approved By | Formaties                           |               |
| 8           | Forrest Lei<br>(Authorized Officer) | Aug. 10, 2020 |

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### 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

The EUT is designed as "Wireless Smart Battery Camera". 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:13.49dBm; IEEE 802.11g:12.96dBm;<br>IEEE 802.11n(20):12.99dBm; IEEE 802.11n(40):12.94dBm |
| Modulation            | DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)   |
| Number of channels    | 11  |
| Hardware Version      | V5  |
| Software Version      | 0.1.5   |
| Antenna Designation   | hardware antenna  |
| Antenna Gain          | 2.35dBi   |
| Power Supply          | DC 5V by adapter or DC 3.6V by battery  |

### 2.2. TABLE OF CARRIER FREQUENCYS

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
|                | 100            | 2412 MHZ  |
|                | 2              | 2417 MHZ  |
| NO GO          | 3              | 2422 MHZ  |
|                | 4              | 2427 MHZ  |
| 2C 2°          | 5              | 2432 MHZ  |
| 2400~2483.5MHZ | 6              | 2437 MHZ  |
|                | 7              | 2442 MHZ  |
| GO CO          | 8              | 2447 MHZ  |
| NO CO          | 9              | 2452 MHZ  |
| 8              | 10             | 2457 MHZ  |
|                | 11             | 2462 MHZ  |

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11, For 40MHZ bandwidth system use Channel 3 to Channel 9

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Report No.: AGC10648200601FE05

Page 7 of 93

#### 2.3. IEEE 802.11N MODULATION SCHEME

| MCS<br>Index | Nss | Modulation | R   | NBPSC | NCBPS |       | NDBPS |       |       | ata<br>Mbps)<br>nsGl |
|--------------|-----|------------|-----|-------|-------|-------|-------|-------|-------|----------------------|
|              |     |            |     |       | 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: 2AXBN-CG1** 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

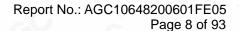
#### 2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

#### 2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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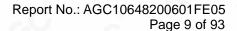




#### 2.8. ANTENNA REQUIREMENT

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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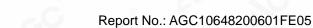


### 3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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Page 10 of 93



#### 4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|-----|-----------------------|
| 1   | Low channel TX        |
| 2   | Middle channel TX     |
| 3   | High channel TX       |
| 4   | Normal operating      |

#### 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)

Transmit by 802.11n (40MHz) with Date rate (13.5/27/40.5/54/81/108/121.5/135)

#### 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 SecureCRTPortable\_V7.0.4.537 which can set the EUT into the individual test modes.

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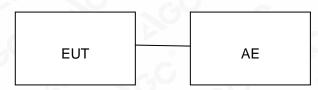


Report No.: AGC10648200601FE05

Page 11 of 93

# 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    | Wireless Smart Battery Camera | CG1           | 2AXBN-CG1           | EUT    |
| 2    | Adapter                       | TY0500100E1MN | DC 5V               | AE     |
| 3    | Charger line                  | G258          | N/A                 | A.E    |
| 4    | TF card                       | M203          | N/A                 | A.E    |
| 5    | Control Box                   | N/A           | USB-TTL             | A.E    |

### **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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### 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 |
| Designation Number                | CN1259   |
| FCC Test Firm Registration Number | 975832   |
| A2LA Cert. No.                    | 5054.02  |
| Description                       | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA  |

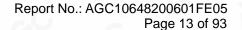
## TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment     | Manufacturer | Model            | S/N    | Cal. Date     | Cal. Due      |
|---------------|--------------|------------------|--------|---------------|---------------|
| TEST RECEIVER | R&S          | ESPI             | 101206 | May 15, 2020  | May 14, 2022  |
| LISN          | R&S          | ESH2-Z5          | 100086 | Aug. 26, 2019 | Aug. 25, 2020 |
| 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, 2020  | May 14, 2022  |
| EXA Signal<br>Analyzer               | Aglient        | N9010A               | MY53470504 | Dec. 12, 2019 | Dec. 11, 2020 |
| Power sensor                         | Aglient        | U2021XA              | MY54110007 | Sep. 10, 2019 | Sep. 09, 2020 |
| 2.4GHz Fliter                        | Micro-tronics  | 087                  | N/A        | Feb. 26, 2020 | Feb. 25, 2021 |
| Attenuator                           | Weinachel Corp | 58-30-33             | N/A        | Sep. 09, 2019 | Sep. 08, 2020 |
| 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  |
| Active loop<br>antenna<br>(9K-30MHz) | ZHINAN         | ZN30900C             | 00034609   | May. 17, 2019 | May. 16, 2021 |
| Double-Ridged<br>Waveguide Horn      | ETS LINDGREN   | 3117                 | 00034609   | May. 17, 2019 | May. 16, 2021 |
| Broadband<br>Preamplifier            | ETS LINDGREN   | 3117PA               | 00225134   | Oct. 15, 2019 | Oct. 16, 2020 |
| 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

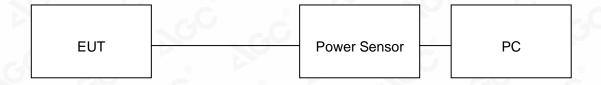
### 7.1. MEASUREMENT PROCEDURE

For average power test:

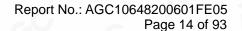
- 1. Connect EUT RF output port to power sensor through an RF attenuator.
- 2. Connect the power sensor to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.

**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) AVERAGE POWER SETUP



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## 7.3. LIMITS AND MEASUREMENT RESULT

| TEST ITEM | OUTPUT POWER             |
|-----------|--------------------------|
| TEST MODE | 802.11b with data rate 1 |

| Frequency<br>(GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|--------------------|---------------------|-------------------------|--------------|
| 2.412              | 13.49               | 30                      | Pass         |
| 2.437              | 13.20               | 30                      | Pass         |
| 2.462              | 13.25               | 30                      | Pass         |

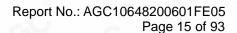
| TEST ITEM | OUTPUT POWER             | 0    |    | 10 |
|-----------|--------------------------|------|----|----|
| TEST MODE | 802.11g with data rate 6 | 1 CO | -6 | 8  |

| Frequency<br>(GHz) | Average Power<br>(dBm) | Applicable Limits (dBm) | Pass or Fail |
|--------------------|------------------------|-------------------------|--------------|
| 2.412              | 12.73                  | 30                      | Pass         |
| 2.437              | 12.96                  | 30                      | Pass         |
| 2.462              | 12.77                  | 30                      | Pass         |

| TEST ITEM | OUTPUT POWER                  | (6) |   | NO |
|-----------|-------------------------------|-----|---|----|
| TEST MODE | 802.11n 20 with data rate 6.5 | GC  | 8 | 8  |

| Frequency<br>(GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|--------------------|---------------------|-------------------------|--------------|
| 2.412              | 12.69               | 30                      | Pass         |
| 2.437              | 12.99               | 30                      | Pass         |
| 2.462              | 12.58               | 30                      | Pass         |

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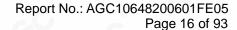




| TEST ITEM | OUTPUT POWER                   | C | 8  | (6) |  |
|-----------|--------------------------------|---|----|-----|--|
| TEST MODE | 802.11n 40 with data rate 13.5 |   | Co | C.C |  |

| Frequency<br>(GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|--------------------|---------------------|-------------------------|--------------|
| 2.422              | 12.94               | 30                      | Pass         |
| 2.437              | 12.80               | 30                      | Pass         |
| 2.452              | 12.70               | 30                      | Pass         |

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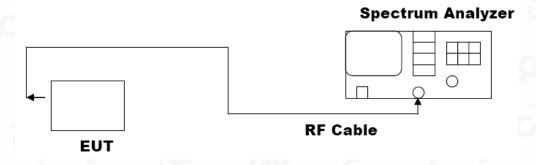
### 8. 6 DB BANDWIDTH

### **8.1. MEASUREMENT PROCEDURE**

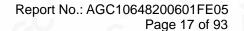
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW ≫ × RBW.
- 4. Set SPA Trace 1 Max hold, then View.

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

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



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## 8.3. LIMITS AND MEASUREMENT RESULTS

| TEST ITEM | 6DB BANDWIDTH             | -6 | (8)            |  |
|-----------|---------------------------|----|----------------|--|
| TEST MODE | 802.11b with data rate 11 | 10 | Q <sub>C</sub> |  |

| LIMITS AND MEASUREMENT RESULT |                   |         |          |  |
|-------------------------------|-------------------|---------|----------|--|
| Applicable Limits             | Applicable Limits |         |          |  |
|                               | Test Dat          | a (MHz) | Criteria |  |
| >500KHZ                       | Low Channel       | 9.066   | PASS     |  |
|                               | Middle Channel    | 9.058   | PASS     |  |
|                               | High Channel      | 9.060   | PASS     |  |

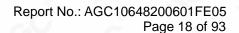
| TEST ITEM | 6DB BANDWIDTH             | 0 |     |     |
|-----------|---------------------------|---|-----|-----|
| TEST MODE | 802.11g with data rate 54 |   | a.C | (8) |

| LIMITS AND MEASUREMENT RESULT |                   |       |          |  |
|-------------------------------|-------------------|-------|----------|--|
| Applicable Limits             | Applicable Limits |       |          |  |
|                               | Test Data         | (MHz) | Criteria |  |
|                               | Low Channel       | 16.56 | PASS     |  |
| >500KHZ                       | Middle Channel    | 16.55 | PASS     |  |
|                               | High Channel      | 16.55 | PASS     |  |

| TEST ITEM | 6DB BANDWIDTH                | NO | _ GC |
|-----------|------------------------------|----|------|
| TEST MODE | 802.11n 20 with data rate 65 |    |      |

| LIMITS AND MEASUREMENT RESULT |                   |           |          |  |
|-------------------------------|-------------------|-----------|----------|--|
| Applicable Limits             | Applicable Limits |           |          |  |
|                               | Test Da           | ata (MHz) | Criteria |  |
|                               | Low Channel       | 17.76     | PASS     |  |
| >500KHZ                       | Middle Channel    | 17.75     | PASS     |  |
|                               | High Channel      | 17.72     | PASS     |  |

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| TEST ITEM | 6DB BANDWIDTH                 | 5 | 8              | (8) |  |
|-----------|-------------------------------|---|----------------|-----|--|
| TEST MODE | 802.11n 40 with data rate 135 |   | G <sub>O</sub> | CO  |  |

| LIMITS AND MEASUREMENT RESULT |                   |         |          |  |
|-------------------------------|-------------------|---------|----------|--|
| Applicable Limits             | Applicable Limits |         |          |  |
|                               | Test Date         | a (MHz) | Criteria |  |
| 0 .00                         | Low Channel       | 36.49   | PASS     |  |
| >500KHZ                       | Middle Channel    | 36.48   | PASS     |  |
|                               | High Channel      | 36.48   | PASS     |  |

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## 802.11b TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



**802.11g TEST RESULT**TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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## 802.11n (20) TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



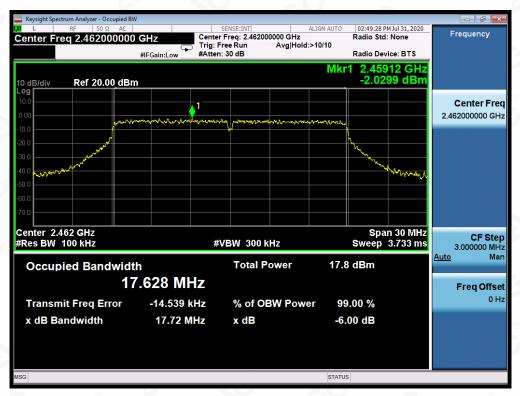
#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



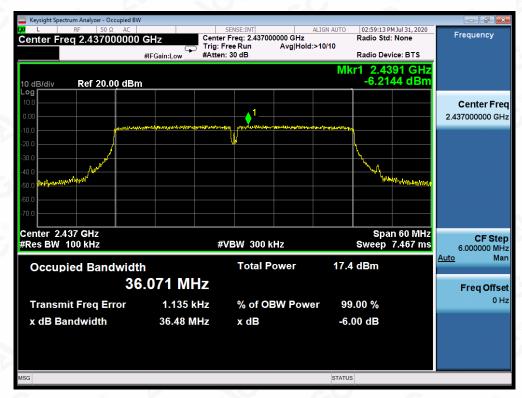
802.11n (40) TEST RESULT
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



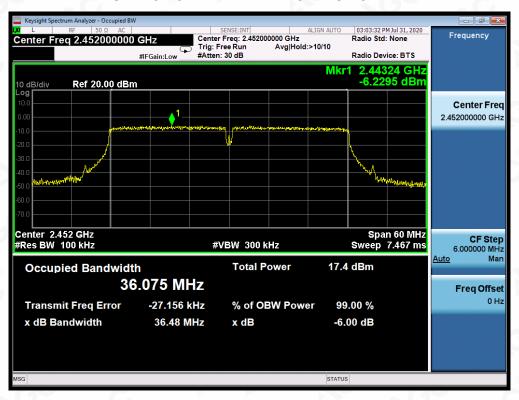
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Report No.: AGC10648200601FE05

Page 25 of 93

### 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

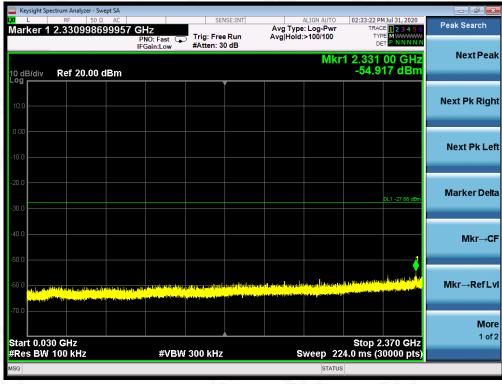
| LIMITS AND MEASUREMENT RESULT  |   |          |  |  |  |
|--|---|----------|--|--|--|
| Annii abla Limita  | Measurement Result  |          |  |  |  |
| Applicable Limits  | Test Data   | Criteria |  |  |  |
| In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum   | At least -30dBc than the limit<br>Specified on the BOTTOM Channel | PASS     |  |  |  |
| intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 30 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 -30dBc 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 PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11b FOR MODULATION IN LOW CHANNEL



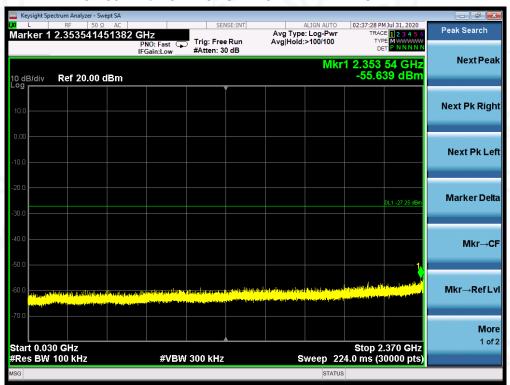


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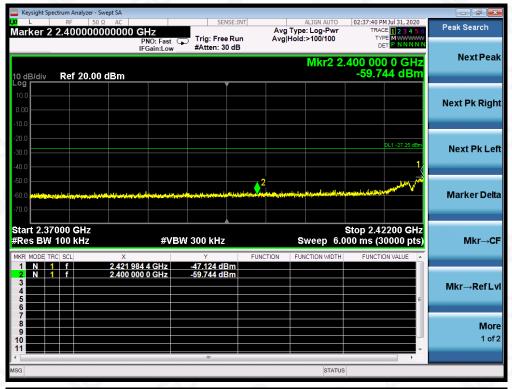


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



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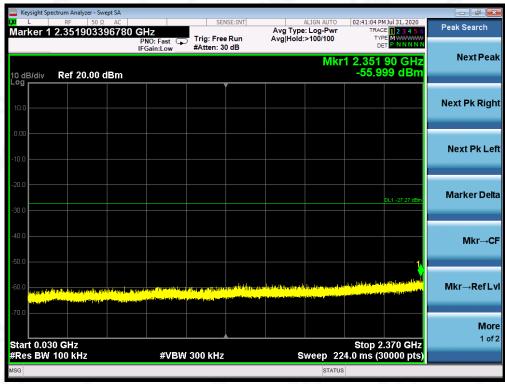


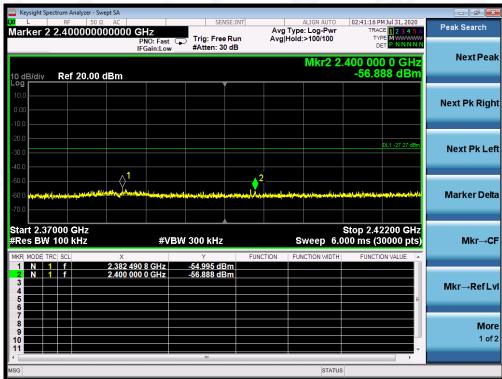


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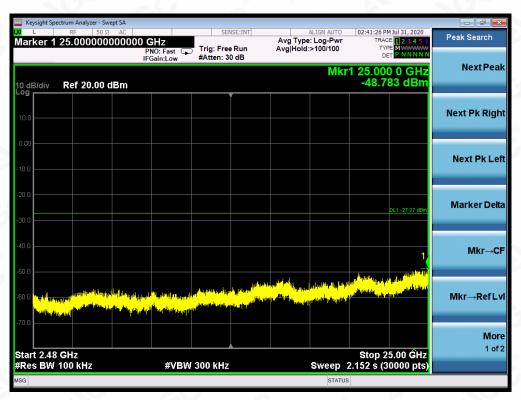
# TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN HIGH CHANNEL



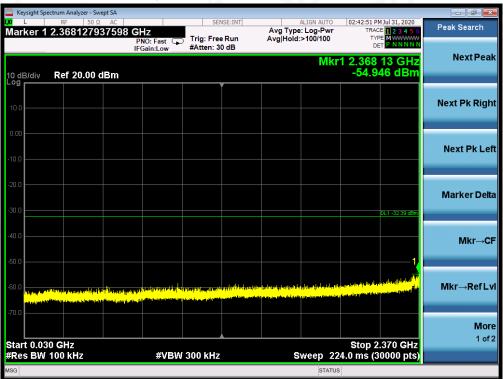


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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL



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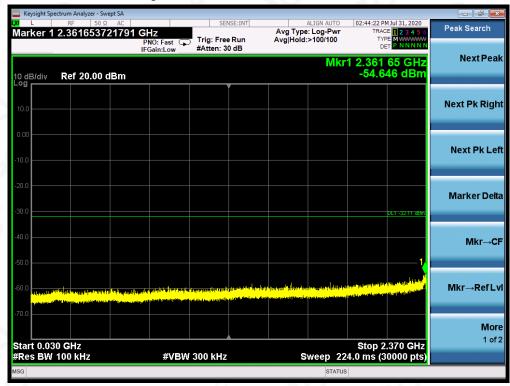




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## TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL





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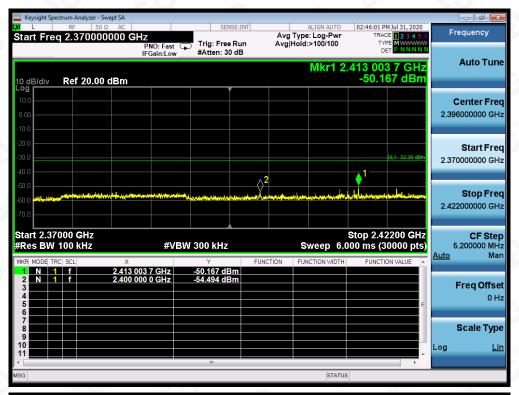


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11g FOR MODULATION IN HIGH CHANNEL



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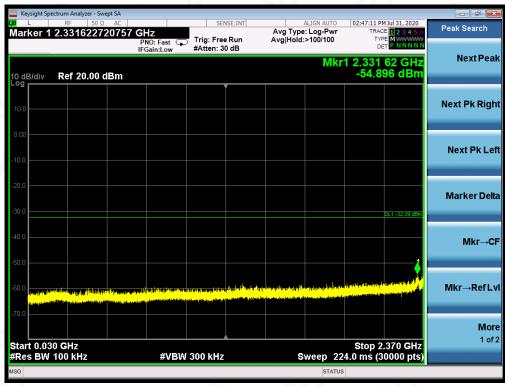




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## TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL





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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL



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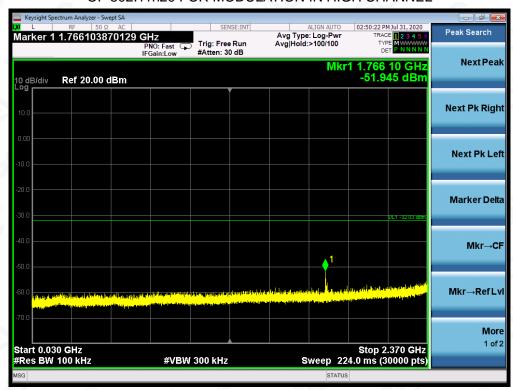


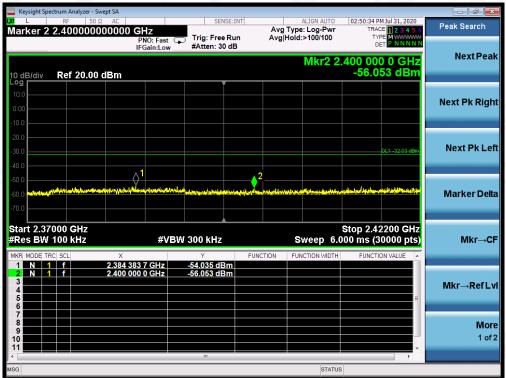




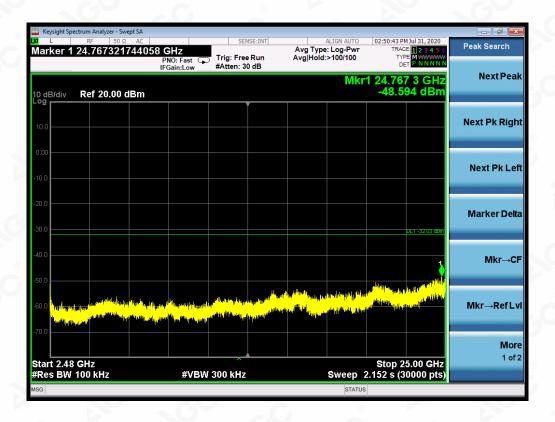


# TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL

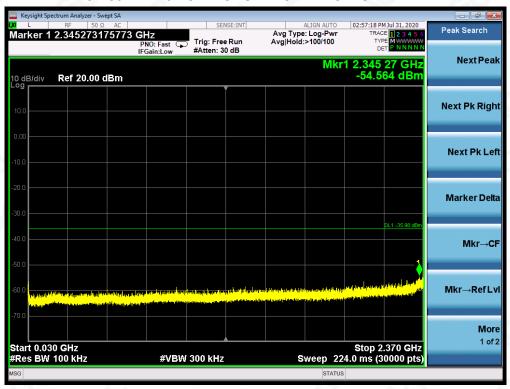








# TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n40 FOR MODULATION IN LOW CHANNEL



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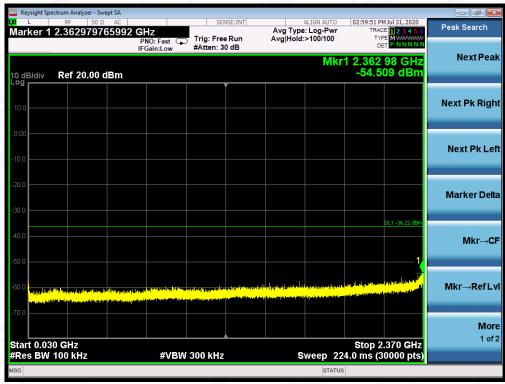








# TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL









TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN HIGH CHANNEL



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Report No.: AGC10648200601FE05

Page 44 of 93

## 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 AVGPSD-1 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.

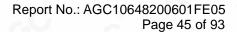
### **10.4 LIMITS AND MEASUREMENT RESULT**

| TEST ITEM | POWER SPECTRAL DENSITY   |
|-----------|--------------------------|
| TEST MODE | 802.11b with data rate 1 |

| Channel No.    | Power density<br>(dBm/20kHz) | Limit<br>(dBm/3kHz) | Result |
|----------------|------------------------------|---------------------|--------|
| Low Channel    | -2.809                       | 8                   | Pass   |
| Middle Channel | -2.438                       | 8                   | Pass   |
| High Channel   | -2.485                       | 8                   | Pass   |

| TEST ITEM | POWER SPECTRAL DENSITY   |  |     |
|-----------|--------------------------|--|-----|
| TEST MODE | 802.11g with data rate 6 |  | (3) |

| Channel No.    | Power density<br>(dBm/20kHz) | Limit<br>(dBm/3kHz) | Result |
|----------------|------------------------------|---------------------|--------|
| Low Channel    | -5.063                       | 8                   | Pass   |
| Middle Channel | -4.994                       | 8                   | Pass   |
| High Channel   | -5.854                       | 8                   | Pass   |



g/Inspection
The test results
the test report.



| TEST ITEM | POWER SPECTRAL DENSITY        |
|-----------|-------------------------------|
| TEST MODE | 802.11n 20 with data rate 6.5 |

| Channel No.    | Power density<br>(dBm/20kHz) | Limit<br>(dBm/3kHz) | Result |
|----------------|------------------------------|---------------------|--------|
| Low Channel    | -6.089                       | 8                   | Pass   |
| Middle Channel | -5.628                       | 8                   | Pass   |
| High Channel   | -6.024                       | 8                   | Pass   |

| TEST ITEM | POWER SPECTRAL DENSITY         |  |
|-----------|--------------------------------|--|
| TEST MODE | 802.11n 40 with data rate 13.5 |  |

| Channel No.    | Power density<br>(dBm/20kHz) | Limit<br>(dBm/3kHz) | Result |
|----------------|------------------------------|---------------------|--------|
| Low Channel    | -8.697                       | 8                   | Pass   |
| Middle Channel | -8.313                       | 8                   | Pass   |
| High Channel   | -8.312                       | 8                   | Pass   |



# 802.11b TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



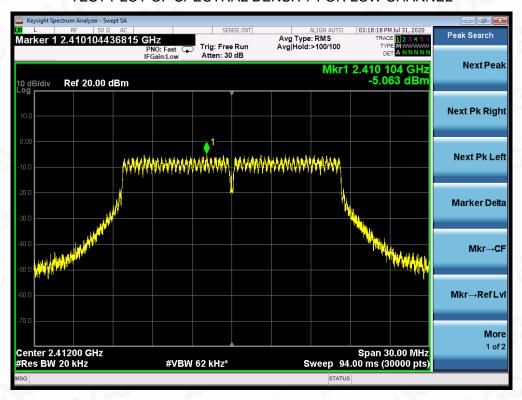
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Dedicated Festivo/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC 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 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



## TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

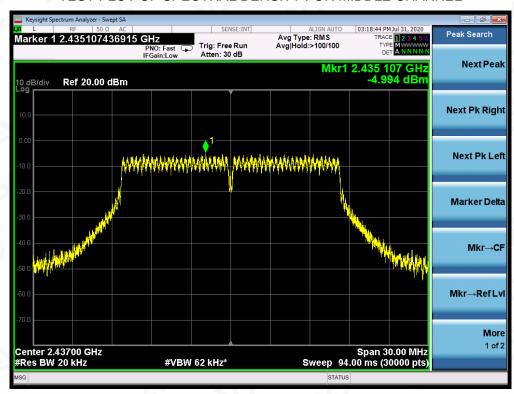


802.11g TEST RESULT
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

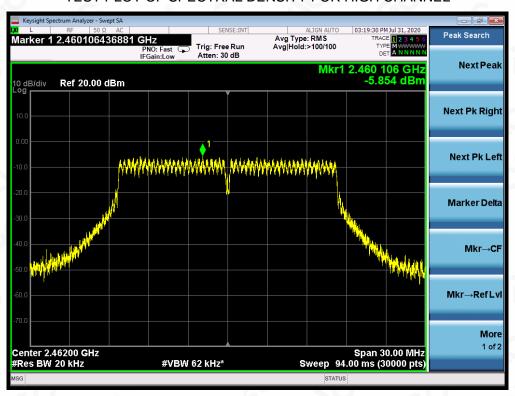




## TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

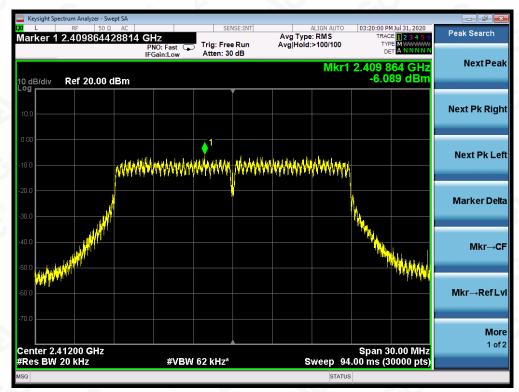


#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

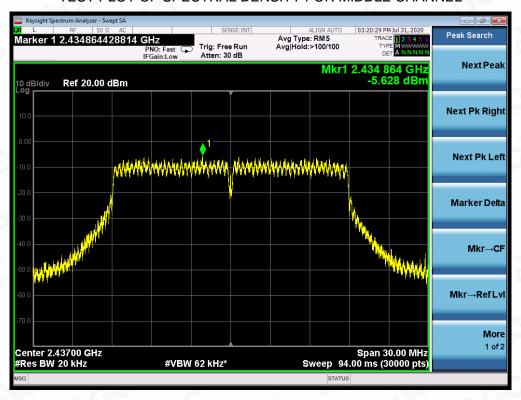




# 802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

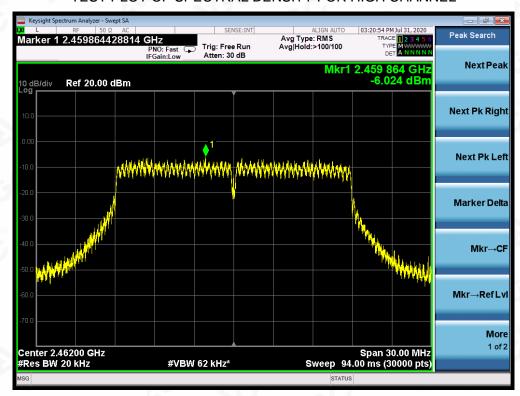


### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL





## TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



802.11n 40 TEST RESULT
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

