



FCC TEST REPORT

Test report
On Behalf of
Webee Corporation
For

Smartee G3
Model No.: SM3001, SM3001+, SM3001x, PCHQ1

FCC ID: 2AVI7-91DA3C

Prepared for: Webee Corporation

SUITE# W014. 440 N. Wolfe Road, Sunnyvale, CA 94085

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

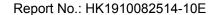
1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street,

Bao'an District, Shenzhen City, China

Date of Test: Oct. 06, 2019 ~Oct. 12, 2019

Date of Report: Oct. 12, 2019

Report Number: HK1910082514-10E





TEST RESULT CERTIFICATION

Applicant's name Webee Corporation

Address SUITE# W014. 440 N. Wolfe Road, Sunnyvale, CA 94085

Manufacture's Name...... Webee Corporation

Address SUITE# W014. 440 N. Wolfe Road, Sunnyvale, CA 94085

Product description

Trade Mark: N/A

Product name...... Smartee G3

Model and/or type reference .: SM3001, SM3001+, SM3001x, PCHQ1

FCC Rules and Regulations Part 15 Subpart C Section 15.407

Standards ANSI C63.10: 2013

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Date of Test

Test Result..... Pass

Testing Engineer :

Gary Qian)
Edan Hu

Technical Manager

(Eden Hu)

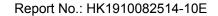
Authorized Signatory:

(Jason Zhou)



TABLE OF CONTENTS

| 1. | Test Result Summary | 4 |
|----|--|----|
| | 1.1. TEST PROCEDURES AND RESULTS | 4 |
| | 1.2. TEST FACILITY | 4 |
| | 1.3. MEASUREMENT UNCERTAINTY | 5 |
| 2. | EUT Description | 6 |
| | 2.1. GENERAL DESCRIPTION OF EUT | 6 |
| | 2.2. OPERATION FREQUENCY EACH OF CHANNEL | 7 |
| | 2.3. OPERATION OF EUT DURING TESTING | 7 |
| | 2.4. DESCRIPTION OF TEST SETUP | 8 |
| 3. | Genera Information | 9 |
| | 3.1. TEST ENVIRONMENT AND MODE | 9 |
| | 3.2. DESCRIPTION OF SUPPORT UNITS | 10 |
| 4. | Test Results and Measurement Data | 11 |
| | 4.1. CONDUCTED EMISSION | 11 |
| | 4.2. MAXIMUM CONDUCTED OUTPUT POWER | 15 |
| | 4.3. 6dB Emission Bandwidth | 17 |
| | 4.4. 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH | 24 |
| | 4.5. Power Spectral Density | 25 |
| | 4.6. BAND EDGE | 32 |
| | 4.7. Spurious Emission | 46 |
| | 4.8. FREQUENCY STABILITY MEASUREMENT | 54 |
| | 4.9. ANTENNA REQUIREMENT | 56 |
| | 4.10. Photographs of Test Setup | 57 |
| | 4 11 PHOTOS OF THE FUT | 59 |





1. Test Result Summary

1.1. TEST PROCEDURES AND RESULTS

| Requirement | CFR 47 Section | Result |
|---|----------------|--------|
| Antenna requirement | §15.203 | PASS |
| AC Power Line Conducted Emission | §15.207 | PASS |
| Maximum Conducted Output Power | §15.407(a) | PASS |
| 6dB Emission Bandwidth | §15.407(e) | PASS |
| 26dB Emission Bandwidth& 99% Occupied Bandwidth | §15.407(a) | N/A |
| Power Spectral Density | §15.407(a) | PASS |
| Band edge | §15.407(a) | PASS |
| Radiated Emission | §15.407(a) | PASS |
| Frequency Stability | §15.407(g) | PASS |

Note:

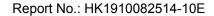
- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

1.2. TEST FACILITY

Test Firm : Shenzhen HUAK Testing Technology Co., Ltd.

Address 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai

Street, Bao'an District, Shenzhen City, China





1.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, 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 %.

| No. | Item | MU | | |
|-----|---------------------------------------|---------|--|--|
| 1 | Conducted Emission | ±2.56dB | | |
| 2 | RF power, conducted | ±0.12dB | | |
| 3 | Spurious emissions, conducted ±0.11dB | | | |
| 4 | All emissions, radiated(<1G) | ±3.92dB | | |
| 5 | All emissions, radiated(>1G) | ±4.28dB | | |
| 6 | Temperature | ±0.1°C | | |
| 7 | Humidity | ±1.0% | | |

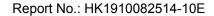




2. EUT Description

2.1. GENERAL DESCRIPTION OF EUT

| Equipment | Smartee G3 |
|------------------------|---|
| Model Name | SM3001 |
| Serial No. | SM3001+, SM3001x, PCHQ1 |
| Trade Mark | N/A |
| Model Difference | All model's the function, software and electric circuit are the same, only with trade mark and model named different. Test sample model: SM3001 |
| FCC ID | 2AVI7-91DA3C |
| Operation Frequency: | IEEE 802.11a:5745-5825MHz |
| Modulation Technology: | IEEE 802.11a: BPSK,QPSK,16QAM,64QAM |
| Modulation Type | OFDM |
| Antenna Type | internal Antenna |
| Antenna Gain | 2dBi |
| Power Source | DC5V/3A From Adapter |
| Power Supply: | DC5V/3A From Adapter |





2.2. Operation Frequency each of channel

| 802.11a/802.11n(HT20) 802.11ac(HT20) | | 802.11n(HT40)/ 802.11ac(HT40) | | 802.11ac(HT80) | |
|---|-----------|----------------------------------|-------------------|----------------|-----------|
| Channel | Frequency | Channel | Channel Frequency | | Frequency |
| 149 | 5745 | 151 | 5755 | 155 | 5775 |
| 153 | 5765 | 159 5790 | | | |
| 157 | 5785 | | | | |
| 161 | 5805 | | | | |
| 165 | 5825 | | | | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

2.3. Operation of EUT during testing

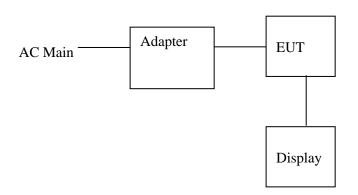
| Band IV (5725 - 5850 MHz) | | | | | | |
|------------------------------|------------------------|-----------------|--|--|--|--|
| For 802.11a/ n HT20/ac HT 20 | | | | | | |
| Channel Number | Channel | Frequency (MHz) | | | | |
| 149 | Low | 5745 | | | | |
| 157 | Mid | 5785 | | | | |
| 165 | High | 5825 | | | | |
| Fo | r 802.11n HT40/ac HT 4 | 40 | | | | |
| Channel Number | Channel | Frequency (MHz) | | | | |
| 151 | Low | 5755 | | | | |
| 159 | High | 5795 | | | | |
| Fo | r 802.11n HT40/ac HT 4 | 40 | | | | |
| Channel Number | Channel | Frequency (MHz) | | | | |
| 155 | - | 5775 | | | | |





2.4. DESCRIPTION OF TEST SETUP

Operation of EUT during Conducted, Radiation testing:



Operation of EUT during Above1GHz Radiation testing:



Adapter information

Model: TEKA018-0503000UK

Input: 100-240V~ 50/60Hz, 0.5Amax

Output: 5V, 3000mA

 Display information Model: 24PFF3661/T3 Input: AC 120V/60Hz





3. Genera Information

3.1. Test environment and mode

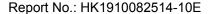
| Operating Environment: | | | | | |
|------------------------|--|--|--|--|--|
| Temperature: | 25.0 °C | | | | |
| Humidity: | 56 % RH | | | | |
| Atmospheric Pressure: | 1010 mbar | | | | |
| Test Mode: | | | | | |
| Engineering mode: | Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 100%) | | | | |

The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case

| was worst case. | | | |
|------------------|---|--|--|
| Mode | Data rate | | |
| 802.11a | 6 Mbps | | |
| Final Test Mode: | | | |
| Operation mode: | Keep the EUT in continuous transmitting with modulation | | |





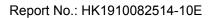
3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Equipment | Model No. | Serial No. | FCC ID | Trade Name | |
|-----------|-----------|------------|--------|------------|--|
| 1 | 1 | 1 | 1 | 1 | |

Note:

- 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.
- 3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



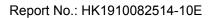


4. Test Results and Measurement Data

4.1. Conducted Emission

4.1.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.207 | | | | |
|-------------------|--|-----------------|-------|--|--|
| Test Method: | ANSI C63.10:2013 | | | | |
| Frequency Range: | 150 kHz to 30 MHz | | | | |
| Receiver setup: | RBW=9 kHz, VBW=30 | kHz, Sweep time | =auto | | |
| Limits: | Frequency range (MHz) Limit (dBuV) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50 | | | | |
| Test Setup: | Reference Plane 40cm 80cm Filter AC power E.U.T AC power Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m | | | | |
| Test Mode: | Tx Mode | | | | |
| Test Procedure: | The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. | | | | |
| Test Result: | PASS | | | | |





4.1.2. Test Instruments

| Conducted Emission Shielding Room Test Site (843) | | | | | | | | |
|---|--------------|--------------------|---------------|------------------|-----------------|--|--|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due | | | |
| Receiver | R&S | ESCI 7 | HKE-010 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| LISN | R&S | ENV216 | HKE-002 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| Coax cable (9KHz-30MHz) | Times | 381806-002 | N/A | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| Conducted test software | Tonscend | TS+ Rev 2.5.0.0 | HKE-081 | N/A | N/A | | | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

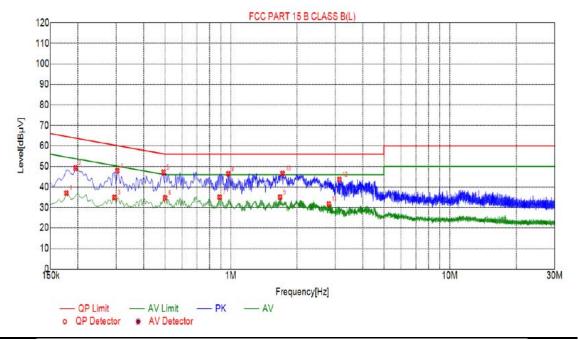


TEST RESULTS

PASS

All the test modes completed for test. only the worst result of AC240V/60Hz(802.11a at 5745MHz) was reported as below:

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)

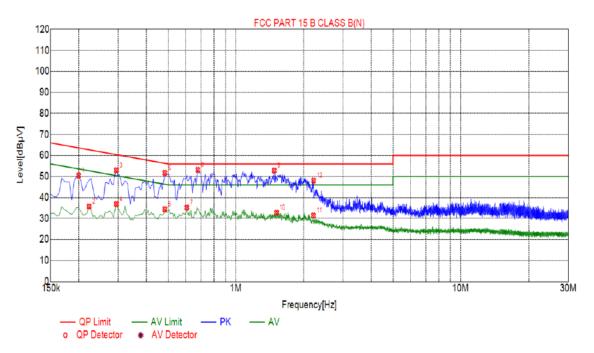


| Sus | Suspected List | | | | | | | | | |
|-----|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|--|--|
| NO. | Freq. [MHz] | Level [dBµV] | Factor [dB] | Limit [dBµV] | Margin [dB] | Reading [dBµV] | Detector | Туре | | |
| 1 | 0.1770 | 36.99 | 10.05 | 54.63 | 17.64 | 26.94 | AV | L | | |
| 2 | 0.1950 | 49.16 | 10.03 | 63.82 | 14.66 | 39.13 | PK | L | | |
| 3 | 0.2940 | 34.91 | 10.03 | 50.41 | 15.50 | 24.88 | AV | L | | |
| 4 | 0.3030 | 47.95 | 10.04 | 60.16 | 12.21 | 37.91 | PK | L | | |
| 5 | 0.4920 | 47.24 | 10.04 | 56.13 | 8.89 | 37.20 | PK | L | | |
| 6 | 0.5010 | 34.64 | 10.04 | 46.00 | 11.36 | 24.60 | AV | L | | |
| 7 | 0.8880 | 35.08 | 10.06 | 46.00 | 10.92 | 25.02 | AV | L | | |
| 8 | 0.9735 | 46.40 | 10.06 | 56.00 | 9.60 | 36.34 | PK | L | | |
| 9 | 1.6755 | 35.04 | 10.13 | 46.00 | 10.96 | 24.91 | AV | L | | |
| 10 | 1.7205 | 46.54 | 10.13 | 56.00 | 9.46 | 36.41 | PK | L | | |
| 11 | 2.8005 | 31.65 | 10.21 | 46.00 | 14.35 | 21.44 | AV | L | | |
| 12 | 3.1290 | 43.69 | 10.23 | 56.00 | 12.31 | 33.46 | PK | L | | |

Remark: Margin = Limit – Level



Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



| Sus | Suspected List | | | | | | | | | |
|-----|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|--|--|
| NO. | Freq. [MHz] | Level [dBµV] | Factor [dB] | Limit [dBµV] | Margin [dB] | Reading [dBµV] | Detector | Туре | | |
| 1 | 0.1995 | 50.52 | 10.03 | 63.63 | 13.11 | 40.49 | PK | N | | |
| 2 | 0.2220 | 35.73 | 10.04 | 52.74 | 17.01 | 25.69 | AV | N | | |
| 3 | 0.2940 | 52.97 | 10.03 | 60.41 | 7.44 | 42.94 | PK | N | | |
| 4 | 0.2940 | 36.87 | 10.03 | 50.41 | 13.54 | 26.84 | AV | N | | |
| 5 | 0.4830 | 34.44 | 10.04 | 46.29 | 11.85 | 24.40 | AV | N | | |
| 6 | 0.4830 | 51.72 | 10.04 | 56.29 | 4.57 | 41.68 | PK | N | | |
| 7 | 0.6045 | 35.20 | 10.05 | 46.00 | 10.80 | 25.15 | AV | N | | |
| 8 | 0.6765 | 53.20 | 10.05 | 56.00 | 2.80 | 43.15 | PK | N | | |
| 9 | 1.4820 | 52.86 | 10.10 | 56.00 | 3.14 | 42.76 | PK | N | | |
| 10 | 1.5180 | 32.74 | 10.11 | 46.00 | 13.26 | 22.63 | AV | N | | |
| 11 | 2.2155 | 31.42 | 10.17 | 46.00 | 14.58 | 21.25 | AV | N | | |
| 12 | 2.2200 | 48.06 | 10.17 | 56.00 | 7.94 | 37.89 | PK | N | | |

Remark: Margin = Limit – Level

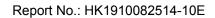




4.2. Maximum Conducted Output Power

4.2.1. Test Specification

| | I | | | | |
|--|--|---|--|--|--|
| Test Requirement: | FCC Part15 E Section | on 15.407(a) | | | |
| Test Method: | KDB789033 D02 Ge Rules v02.r01 Section | neral UNII Test Procedures New on E | | | |
| Limit: | Frequency Band (MHz) | Limit | | | |
| | 5725-5850 | 1 W | | | |
| Test Setup: | Power meter | EUT | | | |
| Test Mode: | Transmitting mode with modulation | | | | |
| Test Procedure: | KDB789033 D02 Rules v02r01 Sec 2. The RF output of I meter by RF cabl compensated to t 3. Set to the maximu EUT transmit con | EUT was connected to the power e and attenuator. The path loss was the results for each measurement. Impower setting and enable the atinuously. | | | |
| Test Result: | PASS | | | | |
| Remark: | Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power | | | | |
| Note: The test double antenn module is the same. | a is simultaneously tr | ansmitted, and the transmitting | | | |





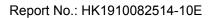
4.2.2. Test Instruments

| RF Test Room | | | | | | | | |
|---------------------------|--------------|----------|---------------|------------------|-----------------|--|--|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due | | | |
| Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| Power meter | Agilent | E4419B | HKE-085 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| Power Sensor | Agilent | E9300A | HKE-086 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| RF cable | Times | 1-40G | HKE-034 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Dec. 28, 2018 | Dec. 26, 2019 | | | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Test Data

| Configuration Band IV (5725 - 5850 MHz) | | | | | | | | |
|--|-----------------|---|-----------------------|--------|--|--|--|--|
| Mode | Test channel | Maximum Conducted Output Power (dBm) | FCC Limit (dBm) | Result | | | | |
| 11a | CH149 | 13.85 | 30 | PASS | | | | |
| 11a | CH157 | 13.46 | 30 | PASS | | | | |
| 11a | CH165 | 13.47 | 30 | PASS | | | | |
| 11n HT20 | CH149 | 12.86 | 30 | PASS | | | | |
| 11n HT20 | CH157 | 12.69 | 30 | PASS | | | | |
| 11n HT20 | CH165 | 12.63 | 30 | PASS | | | | |
| 11n HT40 | CH151 | 12.78 | 30 | PASS | | | | |
| 11n HT40 | CH159 | 12.82 | 30 | PASS | | | | |
| 11ac HT20 | CH149 | 13.63 | 30 | PASS | | | | |
| 11ac HT20 | CH157 | 13.19 | 30 | PASS | | | | |
| 11ac HT20 | CH165 | 13.37 | 30 | PASS | | | | |
| 11ac HT40 | CH151 | 12.17 | 30 | PASS | | | | |
| 11ac HT40 | CH159 | 12.83 | 30 | PASS | | | | |
| 11ac HT80 | CH155 | 11.77 | 30 | PASS | | | | |





4.3. 6dB Emission Bandwidth

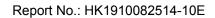
4.3.1. Test Specification

| | FCC CFR47 Part 15 Section 15.407(e) |
|-------------------|---|
| Test Requirement: | 1 00 01 1(47 1 dit 10 000dion 10.407(e) |
| Took Mathadi | KDB789033 D02 General UNII Test Procedures New |
| Test Method: | Rules v02r01 Section C |
| Limit: | >500kHz |
| Test Setup: | |
| | Spectrum Analyzer EUT |
| Test Mode: | Transmitting mode with modulation |
| Test Procedure: | KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. |
| Test Result: | PASS |

4.3.2. Test Instruments

| RF Test Room | | | | | | | | |
|---------------------------|--------------|----------|---------------|------------------|-----------------|--|--|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due | | | |
| Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| RF cable | Times | 1-40G | HKE-034 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Dec. 28, 2018 | Dec. 26, 2019 | | | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





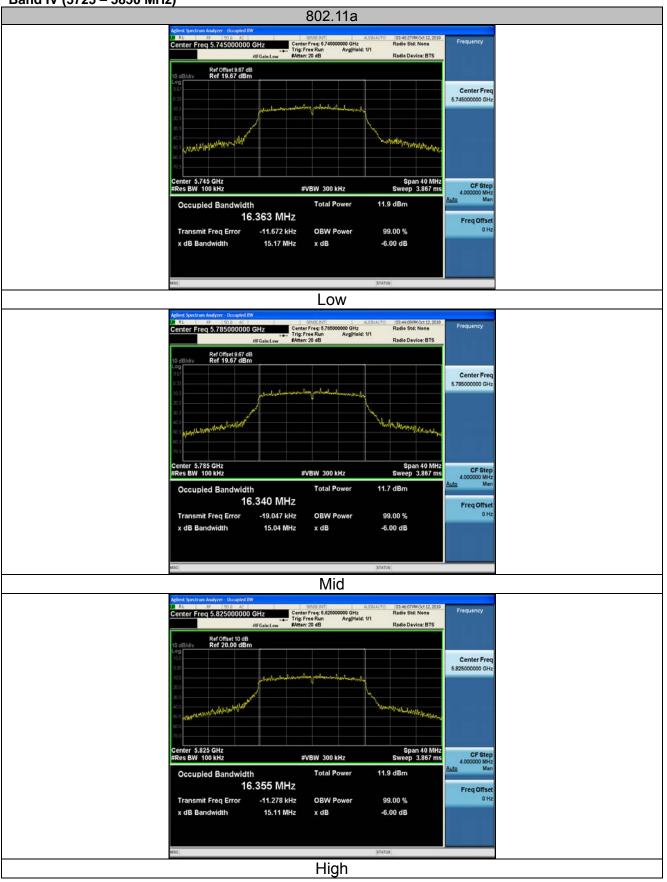
4.3.3. Test data

| Band IV (5725 | - 5850 MHz) | | | | |
|----------------------|--------------|--------------------|----------------------------|-------------|--------|
| Mode | Test channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) | Result |
| 11a | CH149 | 5745 | 15.17 | 0.5 | PASS |
| 11a | CH157 | 5785 | 15.04 | 0.5 | PASS |
| 11a | CH165 | 5825 | 15.11 | 0.5 | PASS |
| 11n HT20 | CH149 | 5745 | 15.28 | 0.5 | PASS |
| 11n HT20 | CH157 | 5785 | 15.16 | 0.5 | PASS |
| 11n HT20 | CH165 | 5825 | 15.09 | 0.5 | PASS |
| 11n HT40 | CH151 | 5755 | 35.17 | 0.5 | PASS |
| 11n HT40 | CH159 | 5795 | 35.18 | 0.5 | PASS |
| 11ac HT20 | CH149 | 5745 | 15.47 | 0.5 | PASS |
| 11ac HT20 | CH157 | 5785 | 15.15 | 0.5 | PASS |
| 11ac HT20 | CH165 | 5825 | 13.86 | 0.5 | PASS |
| 11ac HT40 | CH151 | 5755 | 35.19 | 0.5 | PASS |
| 11ac HT40 | CH159 | 5795 | 35.19 | 0.5 | PASS |
| 11ac HT80 | CH155 | 5775 | 75.32 | 0.5 | PASS |

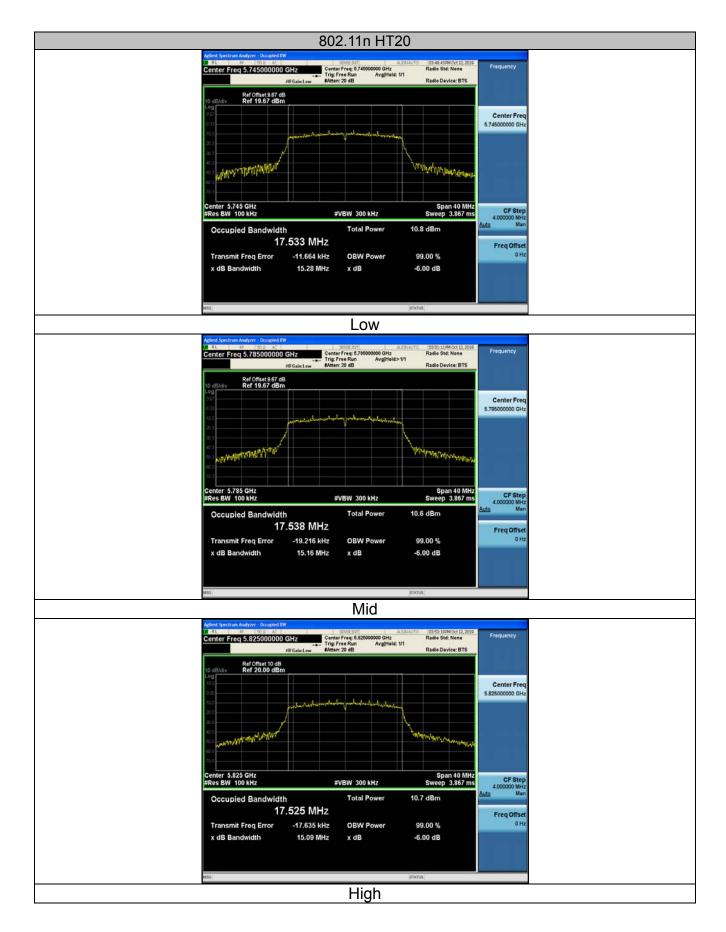
Test plots as follows:



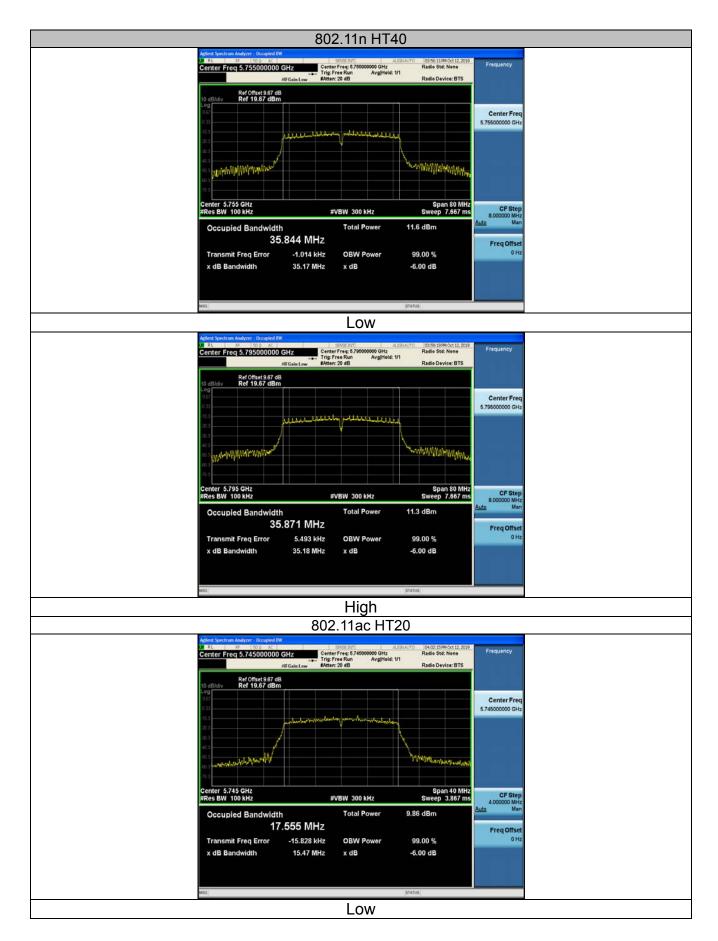
Band IV (5725 - 5850 MHz)



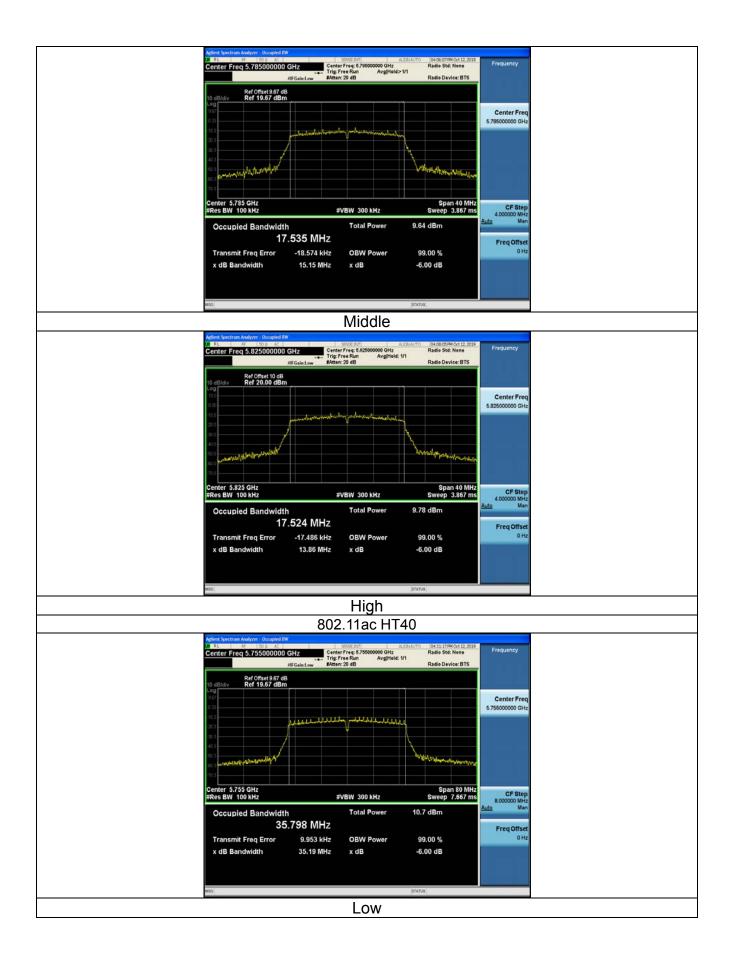




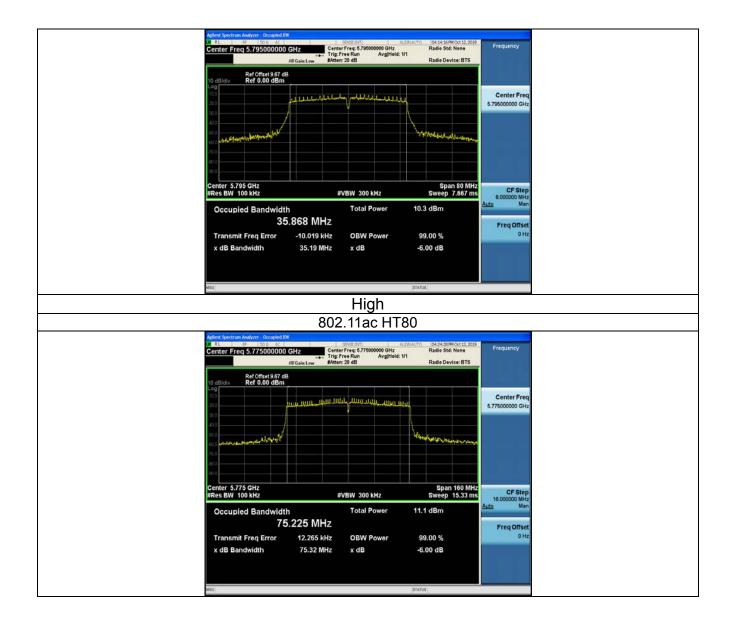
















4.4. 26dB Bandwidth and 99% Occupied Bandwidth

4.4.1. Test Specification

| | 47 CED Dart 45C Continue 45 407 (a) |
|-------------------|---|
| Test Requirement: | 47 CFR Part 15C Section 15.407 (a) |
| Test Method: | KDB789033 D02 General UNII Test Procedures New |
| rest metriod. | Rules v02r01 Section C |
| Limit: | No restriction limits |
| Test Setup: | |
| | Spectrum Analyzer EUT |
| Test Mode: | Transmitting mode with modulation |
| | 1. KDB789033 D02 General UNII Test Procedures New |
| | Rules v02r01 Section C |
| | 2. Set to the maximum power setting and enable the |
| To at Day on Long | EUT transmit continuously. |
| Test Procedure: | 3. Make the measurement with the spectrum analyzer's |
| | resolution bandwidth RBW = 1% EBW, VBW≥3RBW, |
| | In order to make an accurate measurement. |
| | 4. Measure and record the results in the test report. |
| Test Result: | N/A |
| | |

4.4.2. Test Instruments

| RF Test Room | | | | | | | | |
|---------------------------|--------------|----------|---------------|------------------|-----------------|--|--|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due | | | |
| Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| RF cable | Times | 1-40G | HKE-034 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Dec. 28, 2018 | Dec. 26, 2019 | | | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4.4.3. Test Result

N/A





4.5. Power Spectral Density

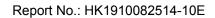
4.5.1. Test Specification

| Test Requirement: | FCC Part15 E Section 15.407 (a) | | | |
|-------------------|--|--|--|--|
| Test Method: | KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F | | | |
| Limit: | KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F ≤11.00dBm/MHz for Band I 5150MHz-5250MHz ≤30.00dBm/500KHz for Band IV 5725MHz-5850MHz The e.i,r,p spectral density for Band I 5150MHz – 5250 MHz should not exceed 10dBm/MHz Fut Transmitting mode with modulation 1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 1. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. 2. Allow the sweeps to continue until the trace stabilizes 3. Use the peak marker function to determine the maximum amplitude level. 4. The E.I.R.P spectral density used radiated test method. 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 | | | |
| Test Setup: | EUT. | | | |
| | | | | |
| Test Mode: | Transmitting mode with modulation | | | |
| Test Procedure: | view the entire emission bandwidth. 1. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. 2. Allow the sweeps to continue until the trace stabilizes. 3. Use the peak marker function to determine the maximum amplitude level. 4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for | | | |
| Test Result: | PASS | | | |

4.5.2. Test Instruments

| RF Test Room | | | | | | | | |
|---------------------------|--------------|----------|---------------|------------------|-----------------|--|--|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due | | | |
| Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| RF cable | Times | 1-40G | HKE-034 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Dec. 28, 2018 | Dec. 26, 2019 | | | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





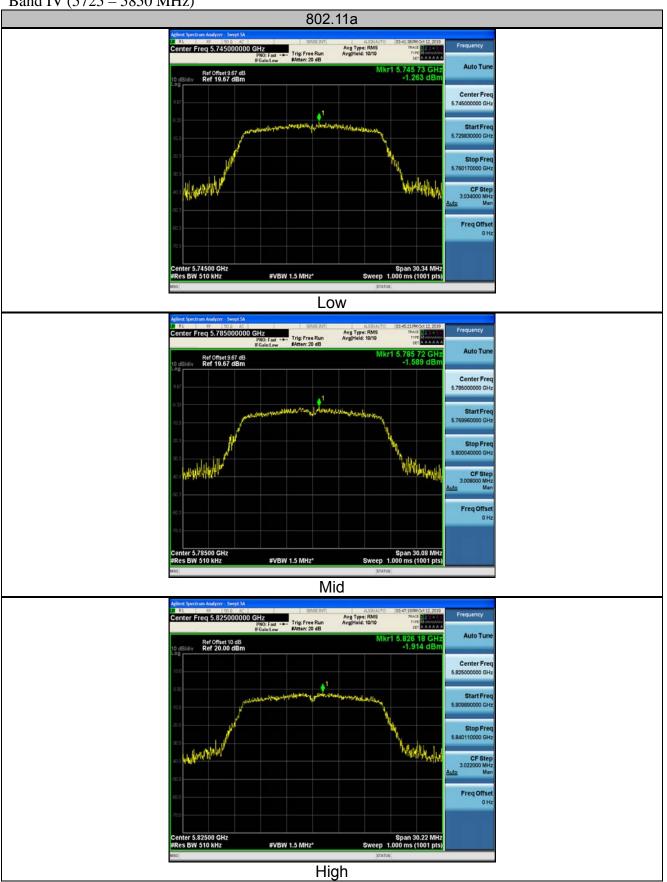
4.5.3. Test data

| Configuratio | n Band IV (5 | 725 - 5850 MHz | :) | | | | |
|--------------|-----------------|-----------------------|--------------------------|--------------------|------------------------------|---------------------------|--------|
| Mode | Test channel | Level [dBm/510kHz] | 10log(1/x) Factor[dB] | 10log(500/ 510) | Power Spectral Density | Limit (dBm/500kH z) | Result |
| 11a | CH149 | -1.26 | 0 | -0.086 | -1.346 | 30 | PASS |
| 11a | CH157 | -1.59 | 0 | -0.086 | -1.676 | 30 | PASS |
| 11a | CH165 | -1.91 | 0 | -0.086 | -1.996 | 30 | PASS |
| 11n HT20 | CH149 | -2.93 | 0 | -0.086 | -3.016 | 30 | PASS |
| 11n HT20 | CH157 | -3.29 | 0 | -0.086 | -3.376 | 30 | PASS |
| 11n HT20 | CH165 | -2.83 | 0 | -0.086 | -2.916 | 30 | PASS |
| 11n HT40 | CH151 | -5.43 | 0 | -0.086 | -5.516 | 30 | PASS |
| 11n HT40 | CH159 | -5.51 | 0 | -0.086 | -5.596 | 30 | PASS |
| 11ac HT20 | CH149 | -3.87 | 0 | -0.086 | -3.956 | 30 | PASS |
| 11ac HT20 | CH157 | -3.06 | 0 | -0.086 | -3.146 | 30 | PASS |
| 11ac HT20 | CH165 | -3.52 | 0 | -0.086 | -3.606 | 30 | PASS |
| 11ac HT40 | CH151 | -6.01 | 0 | -0.086 | -6.096 | 30 | PASS |
| 11ac HT40 | CH159 | -6.45 | 0 | -0.086 | -6.536 | 30 | PASS |
| 11ac HT80 | CH155 | -9.67 | 0 | -0.086 | -9.756 | 30 | PASS |

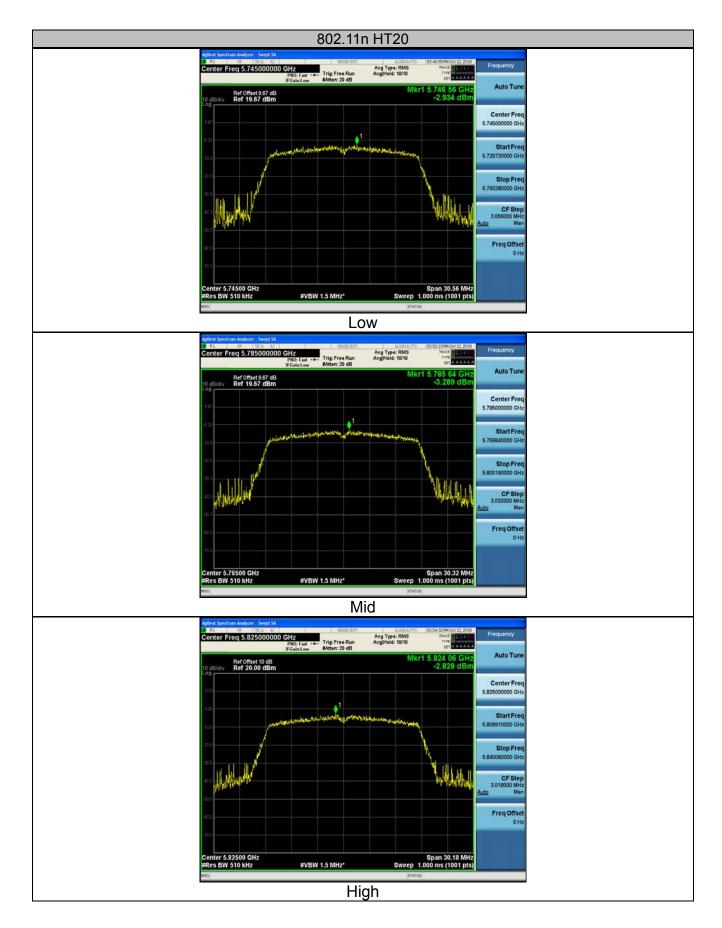
Test plots as follows:



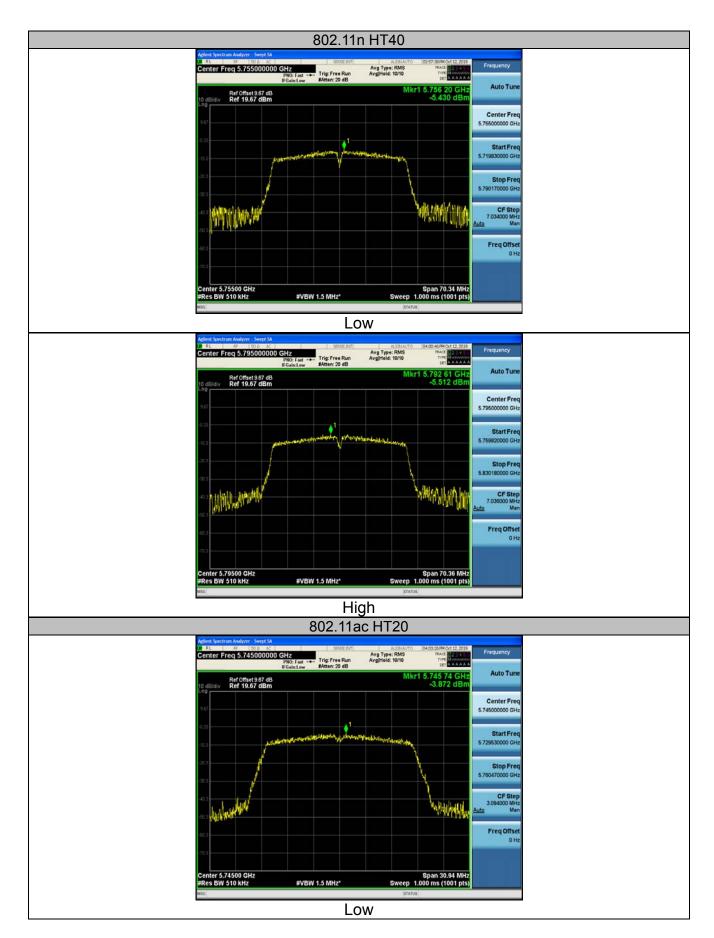
Band IV (5725 – 5850 MHz)



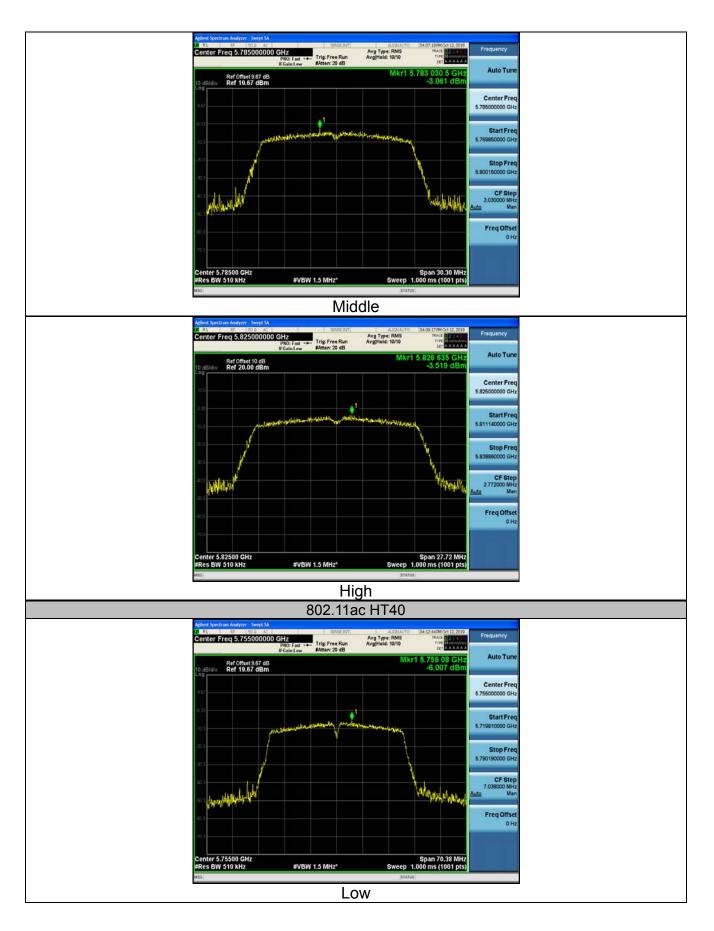




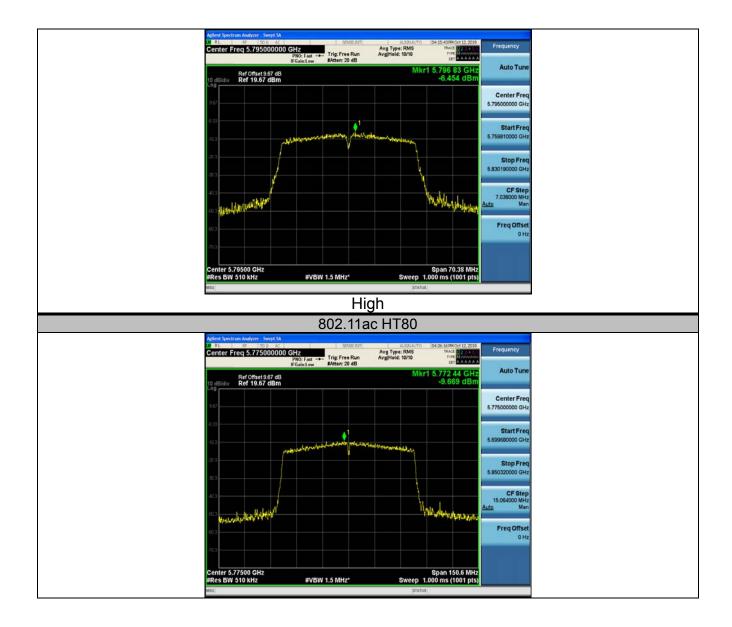










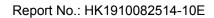




4.6. Band edge

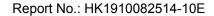
4.6.1. Test Specification

| Test Requirement: | FCC CFR47 Part 15E Section 15.407 |
|-------------------|--|
| Test Method: | ANSI C63.10 2013 |
| | For band I&II&III: $E[dB\mu V/m] = EIRP[dBm] + 95.2=68.2$ $dB\mu V/m$, for $EIRP(dBm) = -27dBm$ For transmitters operating in the 5.725-5.85 GHz band: |
| Limit: | All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. |
| | For band IV(5715-5725MHz&5850-5860MHz): E[dBµV/m] = EIRP[dBm] + 95.2=78.2 dBµV/m, for EIRP(dBm)= -27dBm ; |
| | For band IV(other un-restricted band):E[dBµV/m] = EIRP[dBm] + 95.2=68.2 dBµV/m, for EIRP(dBm)= -27dBm |
| Test Setup: | Ant. feed point 3 m Ground Plane Receiver Amp. |
| Test Mode: | Transmitting mode with modulation |
| Test Procedure: | 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was |





| | turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. |
|--------------|---|
| Test Result: | PASS |





4.6.2. Test Instruments

| Radiated Emission Test Site (966) | | | | | | | | |
|-----------------------------------|-------------|--------------------|------------------|---------------------|-----------------|--|--|--|
| Name of Equipment Manufacturer | | Model | Serial Number | Calibration Date | Calibration Due | | | |
| Receiver | R&S | ESRP3 | HKE-005 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| Preamplifier | EMCI | EMC051845S E | HKE-015 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| Preamplifier | Agilent | 83051A | HKE-016 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| Loop antenna | Schwarzbeck | FMZB 1519 B | HKE-014 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| Broadband antenna | Schwarzbeck | VULB 9163 | HKE-012 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| Horn antenna | Schwarzbeck | 9120D | HKE-013 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| Antenna Mast | Keleto | CC-A-4M | N/A | N/A | N/A | | | |
| Position controller | Taiwan MF | MF7802 | HKE-011 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| Radiated test software | Tonscend | TS+ Rev 2.5.0.0 | HKE-082 | N/A | N/A | | | |
| RF cable (9KHz-1GHz) | Times | 381806-001 | N/A | N/A | N/A | | | |
| Hf antenna | Schwarzbeck | LB-180400-KF | HKE-031 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| RF cable | Tonscend | 1-18G | HKE-099 | Dec. 28, 2018 | Dec. 26, 2019 | | | |
| RF cable | Times | 1-40G | HKE-034 | Dec. 28, 2018 | Dec. 26, 2019 | | | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





4.6.3. Test Data

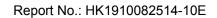
Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|---|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5650 | 58.14 | -2.06 | 56.08 | 68.2 | -12.12 | peak |
| 5650 | 39.63 | -2.06 | 37.57 | 48.2 | -10.63 | AVG |
| 5700 | 87.23 | -1.96 | 85.27 | 105.2 | -19.93 | peak |
| 5700 | 67.59 | -1.96 | 65.63 | 85.2 | -19.57 | AVG |
| 5720 | 90.22 | -2.87 | 87.35 | 110.8 | -23.45 | peak |
| 5720 | 77.56 | -2.87 | 74.69 | 90.8 | -16.11 | AVG |
| 5725 | 105.53 | -2.14 | 103.39 | 122.2 | -18.81 | peak |
| 5725 | 89.65 | -2.14 | 87.51 | 102.2 | -14.69 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|---|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5650 | 59.03 | -2.06 | 56.97 | 68.2 | -11.23 | peak |
| 5650 | 37.89 | -2.06 | 35.83 | 48.2 | -12.37 | AVG |
| 5700 | 89.66 | -1.96 | 87.7 | 105.2 | -17.5 | peak |
| 5700 | 65.19 | -1.96 | 63.23 | 85.2 | -21.97 | AVG |
| 5720 | 95.02 | -2.87 | 92.15 | 110.8 | -18.65 | peak |
| 5720 | 78.64 | -2.87 | 75.77 | 90.8 | -15.03 | AVG |
| 5725 | 108.34 | -2.14 | 106.2 | 122.2 | -16 | peak |
| 5725 | 88.22 | -2.14 | 86.08 | 102.2 | -16.12 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type | |
|----------------|---|--------|----------------|----------|--------|---------------|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | |
| 5850 | 110.11 | -1.97 | 108.14 | 122.2 | -14.06 | peak | |
| 5850 | 87.45 | -1.97 | 85.48 | 102.2 | -16.72 | AVG | |
| 5855 | 95.68 | -2.13 | 93.55 | 110.8 | -17.25 | peak | |
| 5855 | 76.12 | -2.13 | 73.99 | 90.8 | -16.81 | AVG | |
| 5875 | 89.52 | -2.65 | 86.87 | 105.2 | -18.33 | peak | |
| 5875 | 63.74 | -2.65 | 61.09 | 85.2 | -24.11 | AVG | |
| 5925 | 56.29 | -2.28 | 54.01 | 68.2 | -14.19 | peak | |
| 5925 | 38.22 | -2.28 | 35.94 | 48.2 | -12.26 | AVG | |
| Remark: Factor | Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|---|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5850 | 113.78 | -1.97 | 111.81 | 122.2 | -10.39 | peak |
| 5850 | 88.26 | -1.97 | 86.29 | 102.2 | -15.91 | AVG |
| 5855 | 95.49 | -2.13 | 93.36 | 110.8 | -17.44 | peak |
| 5855 | 77.58 | -2.13 | 75.45 | 90.8 | -15.35 | AVG |
| 5875 | 86.15 | -2.65 | 83.5 | 105.2 | -21.7 | peak |
| 5875 | 66.25 | -2.65 | 63.6 | 85.2 | -21.6 | AVG |
| 5925 | 56.78 | -2.28 | 54.5 | 68.2 | -13.7 | peak |
| 5925 | 37.66 | -2.28 | 35.38 | 48.2 | -12.82 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |



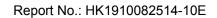


Operation Mode: 802.11n HT20 Mode with 5.8G TX CH Low

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Dotootor Typo | | |
|----------------|---|--------|----------------|----------|--------|---------------|--|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | | |
| 5650 | 57.55 | -2.06 | 55.49 | 68.2 | -12.71 | peak | | |
| 5650 | 38.49 | -2.06 | 36.43 | 48.2 | -11.77 | AVG | | |
| 5700 | 88.37 | -1.96 | 86.41 | 105.2 | -18.79 | peak | | |
| 5700 | 66.42 | -1.96 | 64.46 | 85.2 | -20.74 | AVG | | |
| 5720 | 91.23 | -2.87 | 88.36 | 110.8 | -22.44 | peak | | |
| 5720 | 78.79 | -2.87 | 75.92 | 90.8 | -14.88 | AVG | | |
| 5725 | 102.45 | -2.14 | 100.31 | 122.2 | -21.89 | peak | | |
| 5725 | 87.59 | -2.14 | 85.45 | 102.2 | -16.75 | AVG | | |
| Remark: Factor | Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|----------------|------------------|----------------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5650 | 58.34 | -2.06 | 56.28 | 68.2 | -11.92 | peak |
| 5650 | 38.44 | -2.06 | 36.38 | 48.2 | -11.82 | AVG |
| 5700 | 88.26 | -1.96 | 86.3 | 105.2 | -18.9 | peak |
| 5700 | 64.19 | -1.96 | 62.23 | 85.2 | -22.97 | AVG |
| 5720 | 96.15 | -2.87 | 93.28 | 110.8 | -17.52 | peak |
| 5720 | 79.43 | -2.87 | 76.56 | 90.8 | -14.24 | AVG |
| 5725 | 107.03 | -2.14 | 104.89 | 122.2 | -17.31 | peak |
| 5725 | 87.48 | -2.14 | 85.34 | 102.2 | -16.86 | AVG |
| Remark: Factor | = Antenna Factor | + Cable Loss - | Pre-amplifier. | | | |



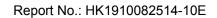


Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type | | |
|----------------|---|--------|----------------|----------|--------|---------------|--|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | | |
| 5850 | 106.13 | -1.97 | 104.16 | 122.2 | -18.04 | peak | | |
| 5850 | 68.32 | -1.97 | 66.35 | 102.2 | -35.85 | AVG | | |
| 5855 | 94.15 | -2.13 | 92.02 | 110.8 | -18.78 | peak | | |
| 5855 | 77.12 | -2.13 | 74.99 | 90.8 | -15.81 | AVG | | |
| 5875 | 88.59 | -2.65 | 85.94 | 105.2 | -19.26 | peak | | |
| 5875 | 64.03 | -2.65 | 61.38 | 85.2 | -23.82 | AVG | | |
| 5925 | 57.49 | -2.28 | 55.21 | 68.2 | -12.99 | peak | | |
| 5925 | 39.16 | -2.28 | 36.88 | 48.2 | -11.32 | AVG | | |
| Remark: Factor | Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type | | |
|----------------|---|--------|----------------|----------|--------|---------------|--|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | | |
| 5850 | 110.06 | -1.97 | 108.09 | 122.2 | -14.11 | peak | | |
| 5850 | 87.88 | -1.97 | 85.91 | 102.2 | -16.29 | AVG | | |
| 5855 | 96.12 | -2.13 | 93.99 | 110.8 | -16.81 | peak | | |
| 5855 | 78.45 | -2.13 | 76.32 | 90.8 | -14.48 | AVG | | |
| 5875 | 85.39 | -2.65 | 82.74 | 105.2 | -22.46 | peak | | |
| 5875 | 67.88 | -2.65 | 65.23 | 85.2 | -19.97 | AVG | | |
| 5925 | 88.37 | -2.28 | 86.09 | 68.2 | 17.89 | peak | | |
| 5925 | 36.49 | -2.28 | 34.21 | 48.2 | -13.99 | AVG | | |
| Remark: Factor | Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | | |



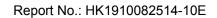


Operation Mode: 802.11n40 Mode with 5.8G TX CH Low

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Dotootor Typo | | |
|----------------|---|--------|----------------|----------|--------|---------------|--|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | | |
| 5650 | 57.18 | -2.06 | 55.12 | 68.2 | -13.08 | peak | | |
| 5650 | 36.25 | -2.06 | 34.19 | 48.2 | -14.01 | AVG | | |
| 5700 | 90.22 | -1.96 | 88.26 | 105.2 | -16.94 | peak | | |
| 5700 | 71.38 | -1.96 | 69.42 | 85.2 | -15.78 | AVG | | |
| 5720 | 93.66 | -2.87 | 90.79 | 110.8 | -20.01 | peak | | |
| 5720 | 66.78 | -2.87 | 63.91 | 90.8 | -26.89 | AVG | | |
| 5725 | 112.45 | -2.14 | 110.31 | 122.2 | -11.89 | peak | | |
| 5725 | 90.7 | -2.14 | 88.56 | 102.2 | -13.64 | AVG | | |
| Remark: Factor | Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Dotactor Type | | |
|----------------|---|--------|----------------|----------|--------|---------------|--|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | | |
| 5650 | 61.34 | -2.06 | 59.28 | 68.2 | -8.92 | peak | | |
| 5650 | 36.76 | -2.06 | 34.7 | 48.2 | -13.5 | AVG | | |
| 5700 | 94.25 | -1.96 | 92.29 | 105.2 | -12.91 | peak | | |
| 5700 | 70.85 | -1.96 | 68.89 | 85.2 | -16.31 | AVG | | |
| 5720 | 90.47 | -2.87 | 87.6 | 110.8 | -23.2 | peak | | |
| 5720 | 77.65 | -2.87 | 74.78 | 90.8 | -16.02 | AVG | | |
| 5725 | 112.44 | -2.14 | 110.3 | 122.2 | -11.9 | peak | | |
| 5725 | 80.46 | -2.14 | 78.32 | 102.2 | -23.88 | AVG | | |
| Remark: Factor | Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | | |

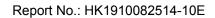




Operation Mode: TX CH High with 5.8G Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type | | |
|----------------|--|--------|----------------|----------|--------|---------------|--|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | | |
| 5850 | 110.05 | -1.97 | 108.08 | 122.2 | -14.12 | peak | | |
| 5850 | 91.13 | -1.97 | 89.16 | 102.2 | -13.04 | AVG | | |
| 5855 | 94.27 | -2.13 | 92.14 | 110.8 | -18.66 | peak | | |
| 5855 | 77.68 | -2.13 | 75.55 | 90.8 | -15.25 | AVG | | |
| 5875 | 89.22 | -2.65 | 86.57 | 105.2 | -18.63 | peak | | |
| 5875 | 67.34 | -2.65 | 64.69 | 85.2 | -20.51 | AVG | | |
| 5925 | 54.89 | -2.28 | 52.61 | 68.2 | -15.59 | peak | | |
| 5925 | 37.65 | -2.28 | 35.37 | 48.2 | -12.83 | AVG | | |
| Remark: Factor | emark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Dotootor Typo |
|----------------|------------------|----------------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5850 | 108.16 | -1.97 | 106.19 | 122.2 | -16.01 | peak |
| 5850 | 94.36 | -1.97 | 92.39 | 102.2 | -9.81 | AVG |
| 5855 | 93.52 | -2.13 | 91.39 | 110.8 | -19.41 | peak |
| 5855 | 75.15 | -2.13 | 73.02 | 90.8 | -17.78 | AVG |
| 5875 | 85.31 | -2.65 | 82.66 | 105.2 | -22.54 | peak |
| 5875 | 63.01 | -2.65 | 60.36 | 85.2 | -24.84 | AVG |
| 5925 | 53.64 | -2.28 | 51.36 | 68.2 | -16.84 | peak |
| 5925 | 37.56 | -2.28 | 35.28 | 48.2 | -12.92 | AVG |
| Remark: Factor | = Antenna Factor | + Cable Loss – | Pre-amplifier. | | | |



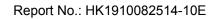


Operation Mode: 802.11ac HT20 Mode with 5.8G TX CH Low

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Dotootor Typo | | |
|----------------|---|--------|----------------|----------|--------|---------------|--|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | | |
| 5650 | 57.88 | -2.06 | 55.82 | 68.2 | -12.38 | peak | | |
| 5650 | 38.16 | -2.06 | 36.1 | 48.2 | -12.1 | AVG | | |
| 5700 | 88.45 | -1.96 | 86.49 | 105.2 | -18.71 | peak | | |
| 5700 | 68.92 | -1.96 | 66.96 | 85.2 | -18.24 | AVG | | |
| 5720 | 92.26 | -2.87 | 89.39 | 110.8 | -21.41 | peak | | |
| 5720 | 73.58 | -2.87 | 70.71 | 90.8 | -20.09 | AVG | | |
| 5725 | 111.32 | -2.14 | 109.18 | 122.2 | -13.02 | peak | | |
| 5725 | 88.23 | -2.14 | 86.09 | 102.2 | -16.11 | AVG | | |
| Remark: Factor | Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type | | |
|----------------|---|--------|----------------|----------|--------|---------------|--|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | | |
| 5650 | 57.26 | -2.06 | 55.2 | 68.2 | -13 | peak | | |
| 5650 | 38.15 | -2.06 | 36.09 | 48.2 | -12.11 | AVG | | |
| 5700 | 91.64 | -1.96 | 89.68 | 105.2 | -15.52 | peak | | |
| 5700 | 69.11 | -1.96 | 67.15 | 85.2 | -18.05 | AVG | | |
| 5720 | 95.48 | -2.87 | 92.61 | 110.8 | -18.19 | peak | | |
| 5720 | 76.09 | -2.87 | 73.22 | 90.8 | -17.58 | AVG | | |
| 5725 | 113.65 | -2.14 | 111.51 | 122.2 | -10.69 | peak | | |
| 5725 | 91.37 | -2.14 | 89.23 | 102.2 | -12.97 | AVG | | |
| Remark: Factor | Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | | |





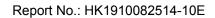
Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Turns |
|-----------|---------------|--------|----------------|----------|--------|----------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5850 | 110.66 | -1.97 | 108.69 | 122.2 | -13.51 | peak |
| 5850 | 89.15 | -1.97 | 87.18 | 102.2 | -15.02 | AVG |
| 5855 | 94.23 | -2.13 | 92.1 | 110.8 | -18.7 | peak |
| 5855 | 79.62 | -2.13 | 77.49 | 90.8 | -13.31 | AVG |
| 5875 | 87.12 | -2.65 | 84.47 | 105.2 | -20.73 | peak |
| 5875 | 68.03 | -2.65 | 65.38 | 85.2 | -19.82 | AVG |
| 5925 | 54.47 | -2.28 | 52.19 | 68.2 | -16.01 | peak |
| 5925 | 38.56 | -2.28 | 36.28 | 48.2 | -11.92 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Dotootor Typo | | |
|----------------|---|--------|----------------|----------|--------|---------------|--|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | | |
| 5850 | 111.12 | -1.97 | 109.15 | 122.2 | -13.05 | peak | | |
| 5850 | 87.69 | -1.97 | 85.72 | 102.2 | -16.48 | AVG | | |
| 5855 | 90.24 | -2.13 | 88.11 | 110.8 | -22.69 | peak | | |
| 5855 | 76.03 | -2.13 | 73.9 | 90.8 | -16.9 | AVG | | |
| 5875 | 85.78 | -2.65 | 83.13 | 105.2 | -22.07 | peak | | |
| 5875 | 72.63 | -2.65 | 69.98 | 85.2 | -15.22 | AVG | | |
| 5925 | 56.98 | -2.28 | 54.7 | 68.2 | -13.5 | peak | | |
| 5925 | 38.79 | -2.28 | 36.51 | 48.2 | -11.69 | AVG | | |
| Remark: Factor | Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | | |



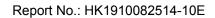


Operation Mode: 802.11ac HT40 Mode with 5.8G TX CH Low

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Dotactor Type |
|----------------|------------------|----------------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5650 | 56.17 | -2.06 | 54.11 | 68.2 | -14.09 | peak |
| 5650 | 37.59 | -2.06 | 35.53 | 48.2 | -12.67 | AVG |
| 5700 | 88.75 | -1.96 | 86.79 | 105.2 | -18.41 | peak |
| 5700 | 67.25 | -1.96 | 65.29 | 85.2 | -19.91 | AVG |
| 5720 | 94.28 | -2.87 | 91.41 | 110.8 | -19.39 | peak |
| 5720 | 75.16 | -2.87 | 72.29 | 90.8 | -18.51 | AVG |
| 5725 | 110.32 | -2.14 | 108.18 | 122.2 | -14.02 | peak |
| 5725 | 90.85 | -2.14 | 88.71 | 102.2 | -13.49 | AVG |
| Remark: Factor | = Antenna Factor | + Cable Loss - | Pre-amplifier. | | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type | | | |
|----------------|---|--------|----------------|----------|--------|---------------|--|--|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | | | |
| 5650 | 57.02 | -2.06 | 54.96 | 68.2 | -13.24 | peak | | | |
| 5650 | 37.42 | -2.06 | 35.36 | 48.2 | -12.84 | AVG | | | |
| 5700 | 88.69 | -1.96 | 86.73 | 105.2 | -18.47 | peak | | | |
| 5700 | 67.45 | -1.96 | 65.49 | 85.2 | -19.71 | AVG | | | |
| 5720 | 94.28 | -2.87 | 91.41 | 110.8 | -19.39 | peak | | | |
| 5720 | 75.88 | -2.87 | 73.01 | 90.8 | -17.79 | AVG | | | |
| 5725 | 110.12 | -2.14 | 107.98 | 122.2 | -14.22 | peak | | | |
| 5725 | 90.02 | -2.14 | 87.88 | 102.2 | -14.32 | AVG | | | |
| Remark: Factor | Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | | | |





Operation Mode: TX CH High with 5.8G

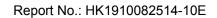
Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type | | | |
|----------------|---|--------|----------------|----------|--------|---------------|--|--|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | | | |
| 5850 | 110.15 | -1.97 | 108.18 | 122.2 | -14.02 | peak | | | |
| 5850 | 93.14 | -1.97 | 91.17 | 102.2 | -11.03 | AVG | | | |
| 5855 | 92.82 | -2.13 | 90.69 | 110.8 | -20.11 | peak | | | |
| 5855 | 75.36 | -2.13 | 73.23 | 90.8 | -17.57 | AVG | | | |
| 5875 | 88.52 | -2.65 | 85.87 | 105.2 | -19.33 | peak | | | |
| 5875 | 65.13 | -2.65 | 62.48 | 85.2 | -22.72 | AVG | | | |
| 5925 | 54.99 | -2.28 | 52.71 | 68.2 | -15.49 | peak | | | |
| 5925 | 37.94 | -2.28 | 35.66 | 48.2 | -12.54 | AVG | | | |
| Remark: Factor | Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | | | |

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type | | | |
|----------------|---|--------|----------------|----------|--------|---------------|--|--|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | | | |
| 5850 | 112.32 | -1.97 | 110.35 | 122.2 | -11.85 | peak | | | |
| 5850 | 90.35 | -1.97 | 88.38 | 102.2 | -13.82 | AVG | | | |
| 5855 | 90.47 | -2.13 | 88.34 | 110.8 | -22.46 | peak | | | |
| 5855 | 70.65 | -2.13 | 68.52 | 90.8 | -22.28 | AVG | | | |
| 5875 | 87.16 | -2.65 | 84.51 | 105.2 | -20.69 | peak | | | |
| 5875 | 64.35 | -2.65 | 61.7 | 85.2 | -23.5 | AVG | | | |
| 5925 | 55.88 | -2.28 | 53.6 | 68.2 | -14.6 | peak | | | |
| 5925 | 35.03 | -2.28 | 32.75 | 48.2 | -15.45 | AVG | | | |
| Remark: Factor | Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | | | |

Page 44 of 59



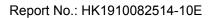


Operation Mode: 802.11ac80 Mode with 5.8G TX CH Low

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Dotootor Typo |
|----------------|------------------|----------------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5650 | 57.33 | -2.06 | 55.27 | 68.2 | -12.93 | peak |
| 5650 | 38.56 | -2.06 | 36.5 | 48.2 | -11.7 | AVG |
| 5700 | 88.02 | -1.96 | 86.06 | 105.2 | -19.14 | peak |
| 5700 | 67.55 | -1.96 | 65.59 | 85.2 | -19.61 | AVG |
| 5720 | 94.27 | -2.87 | 91.4 | 110.8 | -19.4 | peak |
| 5720 | 76.38 | -2.87 | 73.51 | 90.8 | -17.29 | AVG |
| 5725 | 110.32 | -2.14 | 108.18 | 122.2 | -14.02 | peak |
| 5725 | 90.48 | -2.14 | 88.34 | 102.2 | -13.86 | AVG |
| Remark: Factor | = Antenna Factor | + Cable Loss - | Pre-amplifier. | | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|----------------|------------------|----------------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5650 | 59.05 | -2.06 | 56.99 | 68.2 | -11.21 | peak |
| 5650 | 36.78 | -2.06 | 34.72 | 48.2 | -13.48 | AVG |
| 5700 | 91.23 | -1.96 | 89.27 | 105.2 | -15.93 | peak |
| 5700 | 67.25 | -1.96 | 65.29 | 85.2 | -19.91 | AVG |
| 5720 | 94.66 | -2.87 | 91.79 | 110.8 | -19.01 | peak |
| 5720 | 70.36 | -2.87 | 67.49 | 90.8 | -23.31 | AVG |
| 5725 | 114.32 | -2.14 | 112.18 | 122.2 | -10.02 | peak |
| 5725 | 94.65 | -2.14 | 92.51 | 102.2 | -9.69 | AVG |
| Remark: Factor | = Antenna Factor | + Cable Loss – | Pre-amplifier. | | | |



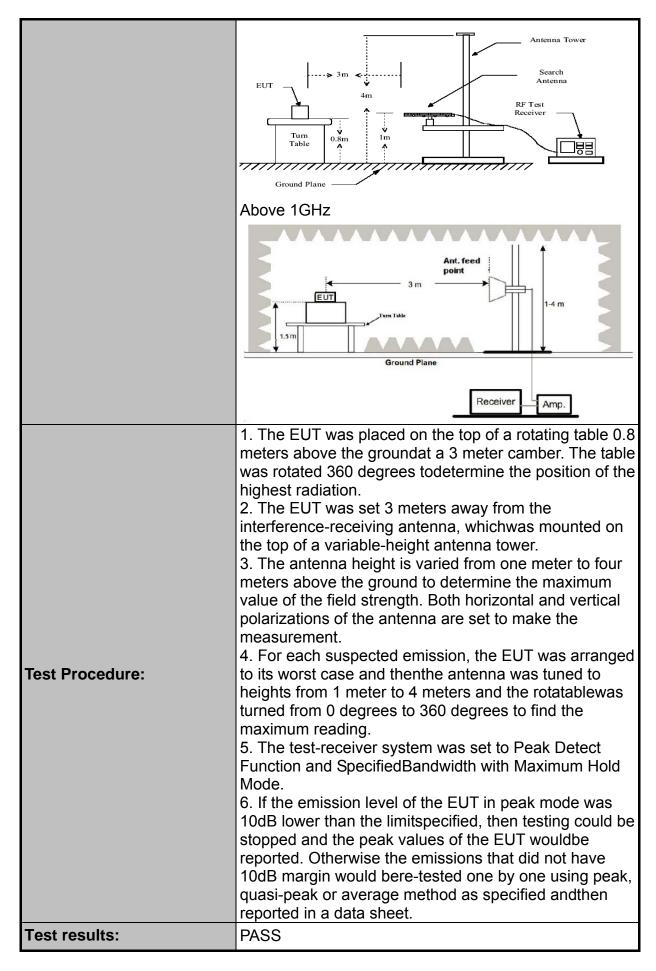


4.7. Spurious Emission

4.7.1.1. Test Specification

| Test Requirement: | FCC CFR47 | Part 15 S | Section 15. | 407 & 1 | 5.209 & 15.205 |
|-----------------------|--|-----------|-------------|--|--|
| Test Method: | KDB 789033 | D02 v02 | r01 | | |
| Frequency Range: | 9kHz to 40G | Hz | | | |
| Measurement Distance: | 3 m | | | | |
| Antenna Polarization: | Horizontal & | Vertical | | | |
| Operation mode: | Transmitting | mode wit | th modulati | ion | |
| Receiver Setup: | 9kHz- 150kHz Quasi-peak 200Hz 1kHz Quasi- 150kHz- Quasi-peak 9kHz 30kHz Quasi- 30MHz 30MHz-1GHz Quasi-peak 120KHz 300KHz Quasi- Above 1GHz Peak 1MHz 3MHz Pea | | | Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak Value Average Value | |
| Limit: | per FCC Par | t15.205 s | hall compl | y with th t forth i | estricted bands e n § 15.209 as Measurement Distance (meters) 300 30 30 3 3 3 3 Detector Peak Average |
| Test setup: | II Above 1G | | | | |







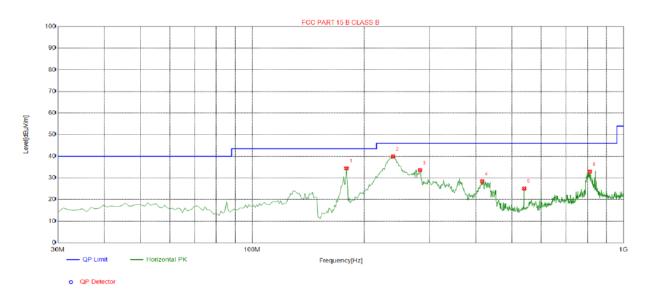


4.7.2. Test Data

Remark: All the test modes completed for test. The worst case of Radiated Emission is CH 149; the test data of this mode was reported.

Below 1GHz

Horizontal

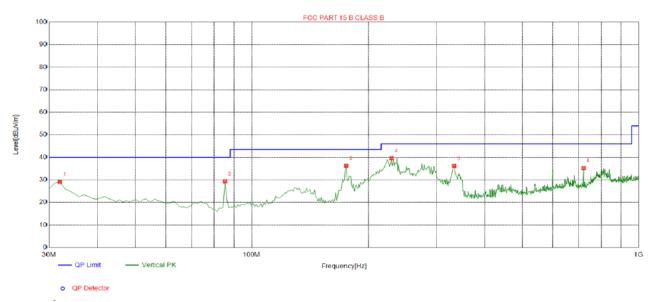


| Susp | ected List | | | | | | | | |
|------|------------|--------|----------|----------|----------|--------|--------|-------|------------|
| NO | Freq. | Factor | Reading | Level | Limit | Margin | Height | Angle | Dolovity |
| | [MHz] | [dB] | [dBµV/m] | [dBµV/m] | [dBµV/m] | [dB] | [cm] | [°] | Polarity |
| 1 | 179.3800 | -16.88 | 51.28 | 34.40 | 43.50 | 9.10 | 100 | 226 | Horizontal |
| 2 | 239.5200 | -13.88 | 53.83 | 39.95 | 46.00 | 6.05 | 100 | 319 | Horizontal |
| 3 | 283.1700 | -13.12 | 46.75 | 33.63 | 46.00 | 12.37 | 100 | 325 | Horizontal |
| 4 | 416.0600 | -10.11 | 38.50 | 28.39 | 46.00 | 17.61 | 100 | 1 | Horizontal |
| 5 | 540.2200 | -7.20 | 32.29 | 25.09 | 46.00 | 20.91 | 100 | 332 | Horizontal |
| 6 | 811.8200 | -2.91 | 35.76 | 32.85 | 46.00 | 13.15 | 100 | 348 | Horizontal |

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level



Vertical



| Susp | Suspected List | | | | | | | | | |
|------|----------------|--------|----------|----------|----------|--------|--------|-------|----------|--|
| NO | Freq. | Factor | Reading | Level | Limit | Margin | Height | Angle | Dolority | |
| | [MHz] | [dB] | [dBµV/m] | [dBµV/m] | [dBµV/m] | [dB] | [cm] | [°] | Polarity | |
| 1 | 31.9400 | -16.26 | 45.38 | 29.12 | 40.00 | 10.88 | 100 | 38 | Vertical | |
| 2 | 85.2900 | -18.20 | 47.56 | 29.36 | 40.00 | 10.64 | 100 | 191 | Vertical | |
| 3 | 175.5000 | -17.06 | 53.34 | 36.28 | 43.50 | 7.22 | 100 | 286 | Vertical | |
| 4 | 229.8200 | -14.32 | 53.94 | 39.62 | 46.00 | 6.38 | 100 | 18 | Vertical | |
| 5 | 333.6100 | -11.61 | 47.80 | 36.19 | 46.00 | 9.81 | 100 | 18 | Vertical | |
| 6 | 720.6400 | -4.70 | 39.93 | 35.23 | 46.00 | 10.77 | 100 | 236 | Vertical | |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Note: radiated emission which above the 15.209 is from unintentional part, which will be subject to 15.109





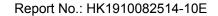
Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

| Frequency (MHz) | Level@3m (dBµV/m) | Limit@3m (dBµV/m) |
|-----------------|-------------------|-------------------|
| | - | - |
| | | |
| | | |
| | | |

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

^{2.} The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement





Above 1GHz

LOW CH 149 (802.11 a Mode with 5.8G)/5745

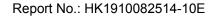
Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Dotootor Typo |
|----------------|------------------|----------------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 3647 | 64.72 | -4.59 | 60.13 | 74 | -13.87 | peak |
| 3647 | 47.25 | -4.59 | 42.66 | 54 | -11.34 | AVG |
| 11570 | 51.36 | 4.21 | 55.57 | 74 | -18.43 | peak |
| 11570 | 38.55 | 4.21 | 42.76 | 54 | -11.24 | AVG |
| Remark: Factor | = Antenna Factor | + Cable Loss – | Pre-amplifier. | | | |

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 3647 | 63.17 | -4.59 | 58.58 | 74 | -15.42 | peak |
| 3647 | 48.66 | -4.59 | 44.07 | 54 | -9.93 | AVG |
| 11570 | 55.78 | 4.21 | 59.99 | 74 | -14.01 | peak |
| 11570 | 37.46 | 4.21 | 41.67 | 54 | -12.33 | AVG |
| | | | | | | |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



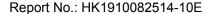


MID CH157 (802.11 a Mode with 5.8G)/5785

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|---|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 3647 | 60.16 | -4.59 | 55.57 | 74 | -18.43 | peak |
| 3647 | 48.63 | -4.59 | 44.04 | 54 | -9.96 | AVG |
| 11570 | 54.79 | 4.21 | 59 | 74 | -15 | peak |
| 11570 | 40.22 | 4.21 | 44.43 | 54 | -9.57 | AVG |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type | |
|----------------|---|--------|----------------|----------|--------|---------------|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | |
| 3647 | 60.44 | -4.59 | 55.85 | 74 | -18.15 | peak | |
| 3647 | 48.63 | -4.59 | 44.04 | 54 | -9.96 | AVG | |
| 11570 | 51.55 | 4.21 | 55.76 | 74 | -18.24 | peak | |
| 11570 | 37.65 | 4.21 | 41.86 | 54 | -12.14 | AVG | |
| Remark: Factor | Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. | | | | | | |





HIGH CH 165 (802.11a Mode with 5.8G)/5825

Horizontal:

| Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|---------------|-----------------------------------|---|---|---|--|
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 61.78 | -4.59 | 57.19 | 74 | -16.81 | peak |
| 49.65 | -4.59 | 45.06 | 54 | -8.94 | AVG |
| 55.23 | 4.84 | 60.07 | 74 | -13.93 | peak |
| 39.64 | 4.84 | 44.48 | 54 | -9.52 | AVG |
| | (dBµV) 61.78 49.65 55.23 | (dBµV) (dB) 61.78 -4.59 49.65 -4.59 55.23 4.84 | (dBμV) (dB) (dBμV/m) 61.78 -4.59 57.19 49.65 -4.59 45.06 55.23 4.84 60.07 | (dBμV) (dB) (dBμV/m) (dBμV/m) 61.78 -4.59 57.19 74 49.65 -4.59 45.06 54 55.23 4.84 60.07 74 | (dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 61.78 -4.59 57.19 74 -16.81 49.65 -4.59 45.06 54 -8.94 55.23 4.84 60.07 74 -13.93 |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Dotactor Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 3647 | 58.06 | -4.59 | 53.47 | 74 | -20.53 | peak |
| 3647 | 48.65 | -4.59 | 44.06 | 54 | -9.94 | AVG |
| 11650 | 51.44 | 4.84 | 56.28 | 74 | -17.72 | peak |
| 11650 | 38.69 | 4.84 | 43.53 | 54 | -10.47 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



4.8. Frequency Stability Measurement

4.8.1. Test Specification

| Test Requirement: | FCC Part15 Section 15.407(g) | | | | |
|-------------------|--|--|--|--|--|
| Test Method: | ANSI C63.10: 2013 | | | | |
| Limit: | The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. | | | | |
| Test Setup: | Spectrum Analyzer EUT AC/DC Power supply | | | | |
| Test Procedure: | The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record. | | | | |
| Test Result: | PASS | | | | |
| Remark: | N/A | | | | |

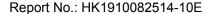




Test Result as follows:

| Mode | Voltage (V) | FHL (5745MHz) | Deviation (KHz) | FHH (5825MHz) | Deviation (KHz) |
|-----------|----------------|------------------|--------------------|------------------|--------------------|
| 5.8G Band | 5V | 5744.996 | 19 | 5824.976 | 24 |
| | 5.5V | 5745.030 | 15 | 5825.031 | 31 |
| | 4.5V | 5745.012 | 14 | 5824.988 | 12 |

| Mode | Temperature (°C) | FHL (5745MHz) | Deviation (KHz) | FHH (5825MHz) | Deviation (KHz) |
|-----------|---------------------|------------------|--------------------|------------------|--------------------|
| | -30 | 5744.997 | 33 | 5824.962 | 14 |
| | -20 | 5744.997 | 18 | 5824.988 | 19 |
| | -10 | 5744.953 | 29 | 5825.037 | 28 |
| 5.8G Band | 0 | 5745.043 | 22 | 5825.049 | 13 |
| | 10 | 5744.950 | 13 | 5825.015 | 15 |
| | 20 | 5745.012 | 8 | 5824.967 | 16 |
| | 30 | 5744.972 | 25 | 5825.028 | 21 |
| | 40 | 5744.998 | 21 | 5825.043 | 21 |
| | 50 | 5745.048 | 17 | 5825.016 | 18 |





4.9. ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

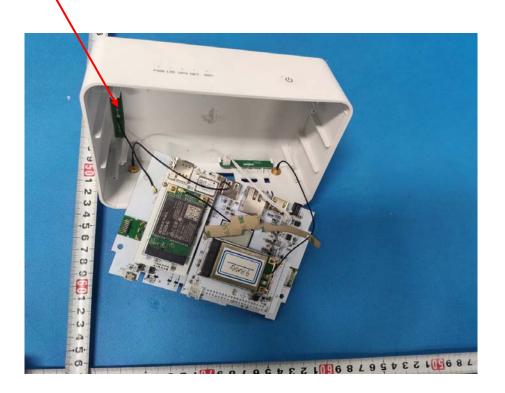
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a Internal antenna, The directional gains of antenna used for transmitting is 2dBi.



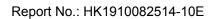




4.10. Photographs of Test Setup

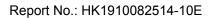














4.11. PHOTOS OF THE EUT

Reference to the reporter : ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----