

# FCC Radio Test Report

## FCC ID: 2AX4E-Q10107L

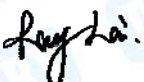
### Original Grant

**Report No.** : TB-FCC176113  
**Applicant** : Vitek Electronics International Co., Ltd  
**Equipment Under Test (EUT)**  
**EUT Name** : 10.1inch Tablet PC  
**Model No.** : Q10107L-ME  
**Series Model No.** VK1001G, VK1002G, VK1003G, VK1004G, VK1005G, VK1006G, VK1007G, VK1008G  
**Brand Name** : AOC, VTEX  
**Sample ID** : TBBJ-20200916-08-5#& TBBJ-20200916-08-6#  
**Receipt Date** : 2020-09-14  
**Test Date** : 2020-09-15 to 2020-11-17  
**Issue Date** : 2020-11-18  
**Standards** : FCC Part 15, Subpart E 15.407  
**Test Method** : ANSI C63.10: 2013  
**Conclusions** : **PASS**

In the configuration tested, the EUT complied with the standards specified above,  
The EUT technically complies with the FCC and IC requirements

**Test/Witness Engineer** :  Jack Deng

**Test/Witness Engineer** :  Ivan Su

**Approved& Authorized** :  Ray Lai



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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## Revision History

| Report No.   | Version | Description             | Issued Date |
|--------------|---------|-------------------------|-------------|
| TB-FCC176113 | Rev.01  | Initial issue of report | 2020-11-18  |
|              |         |                         |             |
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|              |         |                         |             |
|              |         |                         |             |

# 1. General Information about EUT

## 1.1 Client Information

|                     |   |                                                                                                 |
|---------------------|---|-------------------------------------------------------------------------------------------------|
| <b>Applicant</b>    | : | Vitek Electronics International Co., Ltd                                                        |
| <b>Address</b>      | : | Room 1104, 11/F., Witty Commercial Building, 1A-1L, Tung Choit St, Mong Kok, Kowloon, Hong Kong |
| <b>Manufacturer</b> | : | Vitek Electronics International Co., Ltd                                                        |
| <b>Address</b>      | : | Room 1104, 11/F., Witty Commercial Building, 1A-1L, Tung Choit St, Mong Kok, Kowloon, Hong Kong |

## 1.2 General Description of EUT (Equipment Under Test)

|                            |   |                                                                                                                                                        |
|----------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT Name</b>            | : | 10.1inch Tablet PC                                                                                                                                     |
| <b>Models No.</b>          | : | Q10107L-ME , VK1001G, VK1002G, VK1003G, VK1004G, VK1005G, VK1006G, VK1007G, VK1008G                                                                    |
| <b>Model Difference</b>    | : | All these models are identical in the same PCB, layout and electrical circuit, The only difference is appearance.                                      |
| <b>Product Description</b> | : | Operation Frequency:<br>U-NII-1: 5180MHz~5240MHz                                                                                                       |
|                            |   | Antenna Gain: 2.1dBi PIFA Antenna                                                                                                                      |
|                            |   | Modulation Type:<br>802.11a: OFDM (QPSK, BPSK, 16QAM)<br>802.11n: OFDM (QPSK, BPSK, 16QAM, 64QAM)<br>802.11ac: OFDM (QPSK, BPSK, 16QAM, 64QAM, 256QAM) |
|                            |   | Bit Rate of Transmitter:<br>802.11a: 6/9/12/18/24/36/48/54 Mbps<br>802.11n: up to 150Mbps<br>802.11ac: at most 433.3 Mbps                              |
| <b>Power Rating</b>        | : | Adapter(HTY15-0502000U)<br>Input: AC 100-240V, 50/60Hz<br>Output: DC 5V 2A<br>DC 3.7V by 5000mAh Li-ion battery                                        |
| <b>Software Version</b>    | : | android 10.0 S107                                                                                                                                      |
| <b>Hardware Version</b>    | : | S706-9863A                                                                                                                                             |
| <b>Remark</b>              | : | The adapter and antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.                             |

### Note:

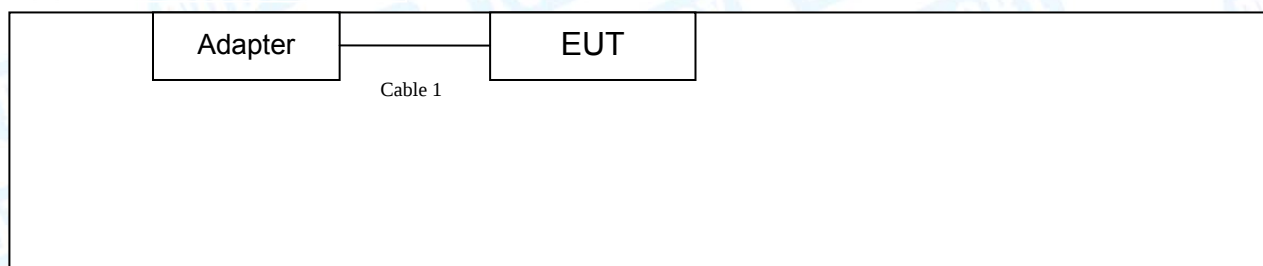
- (1) This Test Report is FCC Part 15, Subpart E(15.407) for 802.11a/n/ac, the test procedure follows the KDB 789033 D02 General U-NII Test Procedures New Rules v02r01. More detailed features description, please refer to the manufacturer's specifications or the User's Manual.

(2) Channel List:

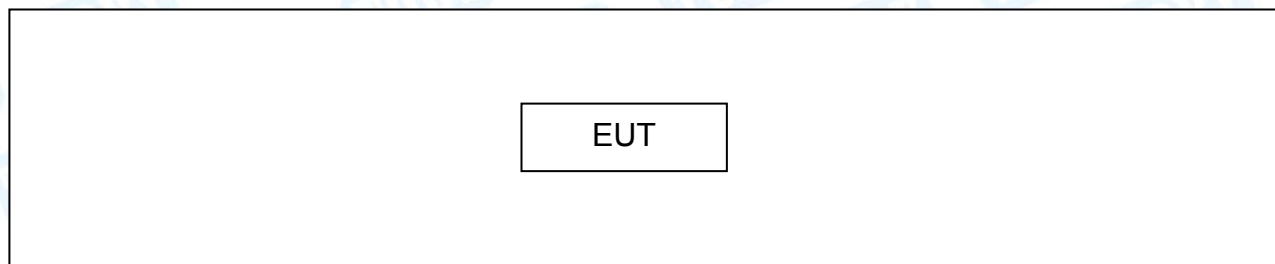
| Frequency Band                                                                                                                       | Channel No. | Frequency | Channel No. | Frequency |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-------------|-----------|
| 5180~5240MHz<br>(U-NII-1)                                                                                                            | 36          | 5180 MHz  | 44          | 5220 MHz  |
|                                                                                                                                      | 38          | 5190 MHz  | 46          | 5230 MHz  |
|                                                                                                                                      | 40          | 5200 MHz  | 48          | 5240 MHz  |
|                                                                                                                                      | 42          | 5210 MHz  |             |           |
| For 20 MHz Bandwidth, use channel 36, 40, 44, 48. For 40 MHz Bandwidth, use channel 38, 46.<br>For 80 MHz Bandwidth, use channel 42. |             |           |             |           |

### 1.3 Block Diagram Showing the Configuration of System Tested

#### Charging + TX Mode



#### TX Mode



### 1.4 Description of Support Units

The EUT has been test as an independent unit.

## 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

| For Conducted Test           |                 |                                               |
|------------------------------|-----------------|-----------------------------------------------|
| Final Test Mode              |                 | Description                                   |
| Mode 1                       |                 | Charging + TX a Mode(5180MHz)                 |
| For Radiated Test Below 1GHz |                 |                                               |
| Final Test Mode              |                 | Description                                   |
| Mode 2                       |                 | Charging + TX a Mode(5180MHz)                 |
| For Radiated Test Above 1GHz |                 |                                               |
| Test Band                    | Final Test Mode | Description                                   |
| U-NII-1                      | Mode 3          | TX Mode 802.11a Mode Channel 36/40/48         |
|                              | Mode 4          | TX Mode 802.11n(HT20) Mode Channel 36/40/48   |
|                              | Mode 5          | TX Mode 802.11ac(VHT20) Mode Channel 36/40/48 |
|                              | Mode 6          | TX Mode 802.11n(HT40) Mode Channel 38/46      |
|                              | Mode 7          | TX Mode 802.11ac(VHT40) Mode Channel 38/46    |
|                              | Mode 8          | TX Mode 802.11ac(VHT80) Mode Channel 42       |

### Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

802.11a Mode: OFDM (6 Mbps)  
802.11n (HT20) Mode: MCS 0  
802.11n (HT40) Mode: MCS 0  
802.11ac(VHT20) Mode: MCS 0  
802.11ac(VHT40) Mode: MCS 0  
802.11ac(VHT80) Mode: MCS 0

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable unit; it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

## 1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

| Test Software: Engineering mode(***83781***) |                 |            |
|----------------------------------------------|-----------------|------------|
| Test Mode: Continuously transmitting         |                 |            |
| U-NII-1                                      |                 |            |
| Mode                                         | Frequency (MHz) | Parameters |
| 802.11a                                      | 5180            | DEF        |
|                                              | 5200            | DEF        |
|                                              | 5240            | DEF        |
| 802.11n(HT20)                                | 5180            | DEF        |
|                                              | 5200            | DEF        |
|                                              | 5240            | DEF        |
| 802.11ac(VHT20)                              | 5180            | DEF        |
|                                              | 5200            | DEF        |
|                                              | 5240            | DEF        |
| 802.11n(HT40)                                | 5190            | DEF        |
|                                              | 5230            | DEF        |
| 802.11ac(VHT40)                              | 5190            | DEF        |
|                                              | 5230            | DEF        |
| 802.11ac(VHT80)                              | 5210            | DEF        |

## 1.7 Measurement Uncertainty

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

| Test Item          | Parameters                                        | Expanded Uncertainty ( $U_{Lab}$ ) |
|--------------------|---------------------------------------------------|------------------------------------|
| Conducted Emission | Level Accuracy:<br>9kHz~150kHz<br>150kHz to 30MHz | $\pm 3.50$ dB<br>$\pm 3.10$ dB     |
| Radiated Emission  | Level Accuracy:<br>9kHz to 30 MHz                 | $\pm 4.60$ dB                      |
| Radiated Emission  | Level Accuracy:<br>30MHz to 1000 MHz              | $\pm 4.50$ dB                      |
| Radiated Emission  | Level Accuracy:<br>Above 1000MHz                  | $\pm 4.20$ dB                      |

## 1.8 Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at: 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

### **A2LA Certificate No.: 4750.01**

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351.

### **IC Registration No.: (11950A)**

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A.

## 2. Test Summary

| FCC Part 15 Subpart E(15.407)                                                                         |                                        |                                            |          |        |
|-------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|----------|--------|
| Standard Section                                                                                      | Test Item                              | Test Sample(s)                             | Judgment | Remark |
| FCC                                                                                                   |                                        |                                            |          |        |
| 15.203                                                                                                | Antenna Requirement                    | TBBJ-20200916-08-5#                        | PASS     | N/A    |
| 15.207                                                                                                | Conducted Emission                     | TBBJ-20200916-08-6#                        | PASS     | N/A    |
| 15.407(b)                                                                                             | Band Edge Emissions                    | TBBJ-20200916-08-5#                        | PASS     | N/A    |
| 15.407(a)                                                                                             | 26dB Bandwidth&99% Bandwidth           | TBBJ-20200916-08-5#                        | PASS     | N/A    |
| 15.407(e)                                                                                             | 6dB Bandwidth                          | TBBJ-20200916-08-5#                        | PASS     | N/A    |
| 15.407(a)                                                                                             | AVG Output Power                       | TBBJ-20200916-08-5#                        | PASS     | N/A    |
| 15.407(a)                                                                                             | Power Spectral Density                 | TBBJ-20200916-08-6#                        | PASS     | N/A    |
| 15.209<br>15.407(b)                                                                                   | Transmitter Radiated Spurious Emission | TBBJ-20200916-08-5#<br>TBBJ-20200916-08-6# | PASS     | N/A    |
| 15.407(a)                                                                                             | Peak Excursion                         | TBBJ-20200916-08-5#                        | PASS     | N/A    |
| 15.407(g)                                                                                             | Frequency Stability                    | TBBJ-20200916-08-5#                        | PASS     | N/A    |
| <b>Note:</b> "/" for no requirement for this test item.<br>N/A is an abbreviation for Not Applicable. |                                        |                                            |          |        |

## 3. Test Software

| Test Item                | Test Software | Manufacturer | Version No. |
|--------------------------|---------------|--------------|-------------|
| Conducted Emission       | EZ-EMC        | EZ           | CDI-03A2    |
| Radiation Emission       | EZ-EMC        | EZ           | FA-03A2RE   |
| RF Conducted Measurement | MTS-8310      | MWRFtest     | V2.0.0.0    |

## 4. Test Equipment

| Conducted Emission Test    |                                  |                   |               |               |               |
|----------------------------|----------------------------------|-------------------|---------------|---------------|---------------|
| Equipment                  | Manufacturer                     | Model No.         | Serial No.    | Last Cal.     | Cal. Due Date |
| EMI Test Receiver          | Rohde & Schwarz                  | ESCI              | 100321        | Jul. 06, 2020 | Jul. 05, 2021 |
| RF Switching Unit          | Compliance Direction Systems Inc | RSU-A4            | 34403         | Jul. 06, 2020 | Jul. 05, 2021 |
| AMN                        | SCHWARZBECK                      | NNBL 8226-2       | 8226-2/164    | Jul. 06, 2020 | Jul. 05, 2021 |
| LISN                       | Rohde & Schwarz                  | ENV216            | 101131        | Jul. 06, 2020 | Jul. 05, 2021 |
| Radiation Emission Test    |                                  |                   |               |               |               |
| Equipment                  | Manufacturer                     | Model No.         | Serial No.    | Last Cal.     | Cal. Due Date |
| Spectrum Analyzer          | Agilent                          | E4407B            | MY45106456    | Jul. 06, 2020 | Jul. 05, 2021 |
| EMI Test Receiver          | Rohde & Schwarz                  | ESPI              | 100010/007    | Jul. 06, 2020 | Jul. 05, 2021 |
| Spectrum Analyzer          | Rohde & Schwarz                  | FSV40-N           | 102197        | Jul. 06, 2020 | Jul. 05, 2021 |
| Bilog Antenna              | ETS-LINDGREN                     | 3142E             | 00117537      | Mar.01, 2020  | Feb. 28, 2022 |
| Horn Antenna               | ETS-LINDGREN                     | 3117              | 00143207      | Mar.01, 2020  | Feb. 28, 2022 |
| Horn Antenna               | ETS-LINDGREN                     | BBHA 9170         | BBHA9170582   | Mar.01, 2020  | Feb. 28, 2022 |
| Loop Antenna               | SCHWARZBECK                      | FMZB 1519 B       | 1519B-059     | Jul. 07, 2020 | Jul. 06, 2021 |
| Pre-amplifier              | Sonoma                           | 310N              | 185903        | Mar.01, 2020  | Feb. 28, 2021 |
| Pre-amplifier              | HP                               | 8449B             | 3008A00849    | Mar.01, 2020  | Feb. 28, 2021 |
| Pre-amplifier              | SKET                             | LNPA_1840G-50     | SK201904032   | Mar.01, 2020  | Feb. 28, 2021 |
| Cable                      | HUBER+SUHNER                     | 100               | SUCOFLEX      | Mar.01, 2020  | Feb. 28, 2021 |
| Positioning Controller     | ETS-LINDGREN                     | 2090              | N/A           | N/A           | N/A           |
| Antenna Conducted Emission |                                  |                   |               |               |               |
| Equipment                  | Manufacturer                     | Model No.         | Serial No.    | Last Cal.     | Cal. Due Date |
| Spectrum Analyzer          | Agilent                          | E4407B            | MY45106456    | Jul. 06, 2020 | Jul. 05, 2021 |
| Spectrum Analyzer          | Rohde & Schwarz                  | ESPI              | 100010/007    | Jul. 06, 2020 | Jul. 05, 2021 |
| MXA Signal Analyzer        | Agilent                          | N9020A            | MY49100060    | Sep. 11, 2020 | Sep. 10, 2021 |
| Vector Signal Generator    | Agilent                          | N5182A            | MY50141294    | Sep. 11, 2020 | Sep. 10, 2021 |
| Analog Signal Generator    | Agilent                          | N5181A            | MY50141953    | Sep. 11, 2020 | Sep. 10, 2021 |
| RF Power Sensor            | DARE!! Instruments               | RadiPowerRPR3006W | 17100015SNO26 | Sep. 11, 2020 | Sep. 10, 2021 |
|                            | DARE!! Instruments               | RadiPowerRPR3006W | 17100015SNO29 | Sep. 11, 2020 | Sep. 10, 2021 |
|                            | DARE!! Instruments               | RadiPowerRPR3006W | 17100015SNO31 | Sep. 11, 2020 | Sep. 10, 2021 |
|                            | DARE!! Instruments               | RadiPowerRPR3006W | 17100015SNO33 | Sep. 11, 2020 | Sep. 10, 2021 |

## 5. Conducted Emission Test

## 5.1 Test Standard and Limit

### 5.1.1 Test Standard

FCC Part 15.207

### 5.1.2 Test Limit

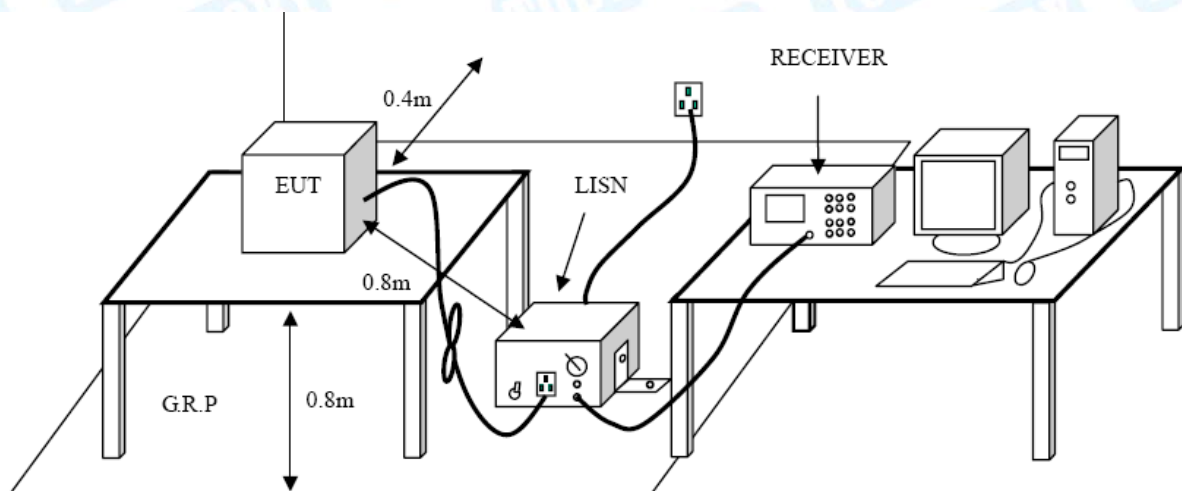
### Conducted Emission Test Limit

| Frequency     | Maximum RF Line Voltage (dBμV) |               |
|---------------|--------------------------------|---------------|
|               | Quasi-peak Level               | Average Level |
| 150kHz~500kHz | 66 ~ 56 *                      | 56 ~ 46 *     |
| 500kHz~5MHz   | 56                             | 46            |
| 5MHz~30MHz    | 60                             | 50            |

Notes:

- (1) \*Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

## 5.2 Test Setup



### 5.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

### 5.4 Deviation From Test Standard

No deviation

### 5.5 EUT Operating Mode

Please refer to the description of test mode.

### 5.6 Test Data

Please refer to the Attachment A.

## 6. Radiated Emission Test

### 6.1 Test Standard and Limit

- 6.1.1 Test Standard  
FCC Part 15.209  
6.1.2 Test Limit

**Radiated Emission Limits (9kHz~1000MHz)**

| Frequency (MHz) | Field Strength (microvolt/meter) | Measurement Distance (meters) |
|-----------------|----------------------------------|-------------------------------|
| 0.009~0.490     | 2400/F(KHz)                      | 300                           |
| 0.490~1.705     | 24000/F(KHz)                     | 30                            |
| 1.705~30.0      | 30                               | 30                            |
| 30~88           | 100                              | 3                             |
| 88~216          | 150                              | 3                             |
| 216~960         | 200                              | 3                             |
| Above 960       | 500                              | 3                             |

**Radiated Emission Limit (Above 1000MHz)**

| Frequency (MHz) | Distance of 3m (dBuV/m) |         |
|-----------------|-------------------------|---------|
|                 | Peak                    | Average |
| Above 1000      | 74                      | 54      |

**Note:**

- (1) The tighter limit applies at the band edges.  
(2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

Limits of unwanted emission out of the restricted bands

| Frequency (MHz) | EIRP Limits (dBm) | Equivalent Field Strength at 3m (dBuV/m) |
|-----------------|-------------------|------------------------------------------|
| 5150~5250       | -27               | 68.3                                     |
| 5250~5350       | -27               | 68.3                                     |
| 5470~5725       | -27               | 68.3                                     |
| 5725~5825       | -27(Note 2)       | 68.3                                     |
|                 | 10(Note 2)        | 105.3                                    |
|                 | 15.6(Note 2)      | 110.9                                    |
|                 | 27(Note 2)        | 122.3                                    |

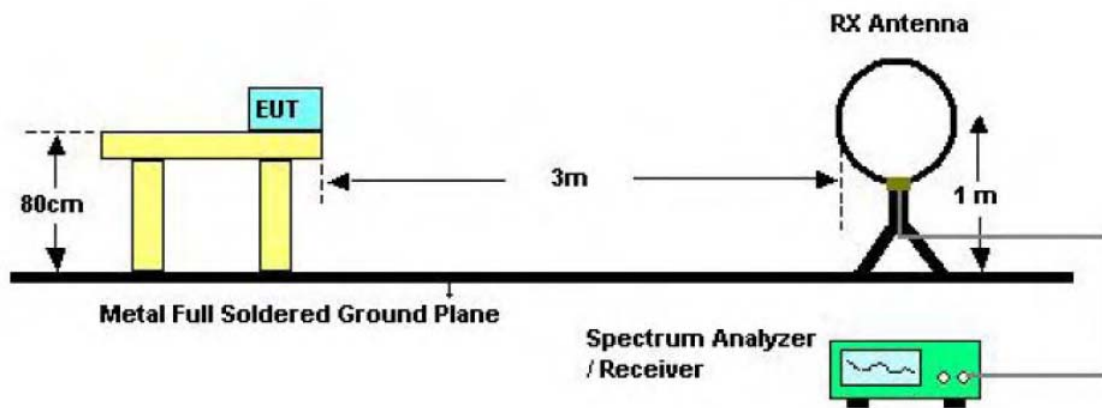
**NOTE:**

1, The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

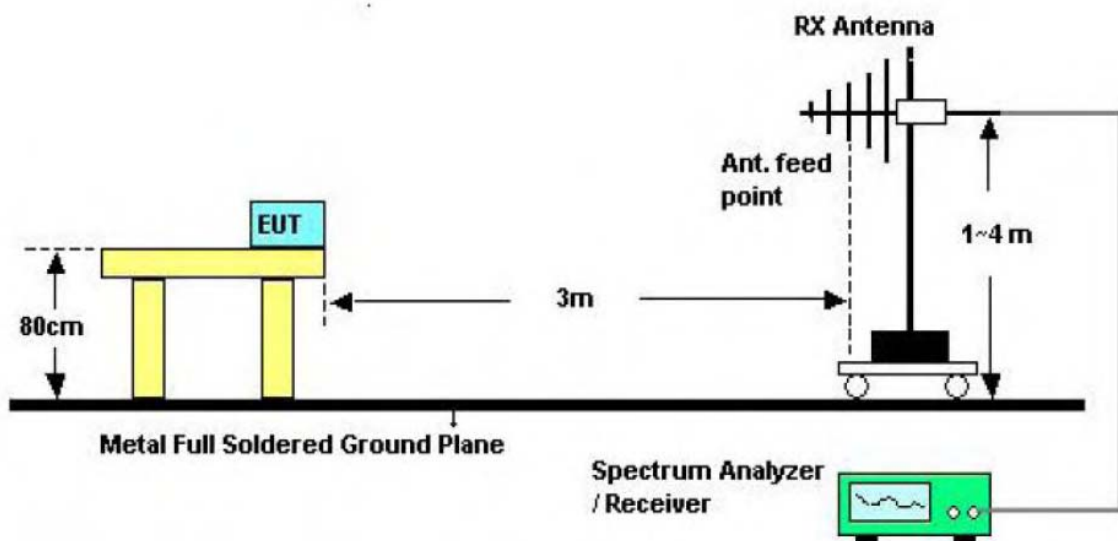
$$E = \frac{1000000\sqrt{30P}}{3} \text{ uV/m, where P is the eirp (Watts)}$$

2, According to FCC 16-24, 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 25MHz 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 27dBm/MHz at the band edge.

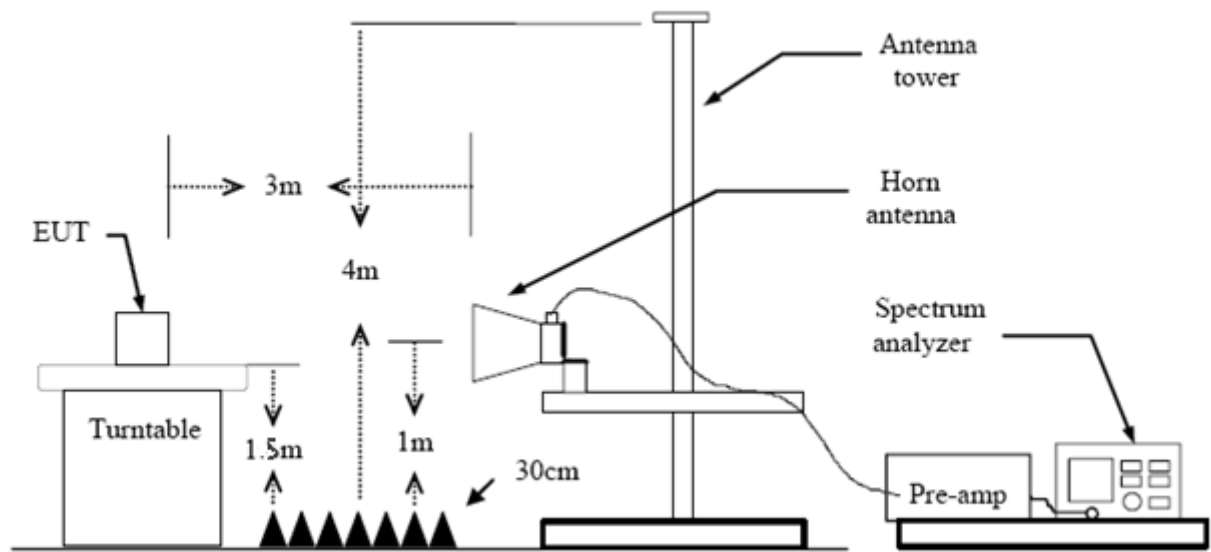
## 6.2 Test Setup



### Below 30MHz Test Setup



### Below 1000MHz Test Setup



Above 1GHz Test Setup

### 6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical Antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Below 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

#### 6.4 Deviation From Test Standard

No deviation

#### 6.5 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

#### 6.6 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Please refer to the Attachment B.

## 7. Band Edge Emissions

### 7.1 Test Standard and Limit

7.1.1 Test Standard  
FCC Part 15.407(b)

#### 7.1.2 Test Limit

Limits of unwanted emission out of the restricted bands

| Frequency (MHz) | EIRP Limits (dBm) | Equivalent Field Strength at 3m (dBuV/m) |
|-----------------|-------------------|------------------------------------------|
| 5150~5250       | -27               | 68.3                                     |
| 5250~5350       | -27               | 68.3                                     |
| 5470~5725       | -27               | 68.3                                     |
| 5725~5825       | -27(Note 2)       | 68.3                                     |
|                 | 10(Note 2)        | 105.3                                    |
|                 | 15.6(Note 2)      | 110.9                                    |
|                 | 27(Note 2)        | 122.3                                    |

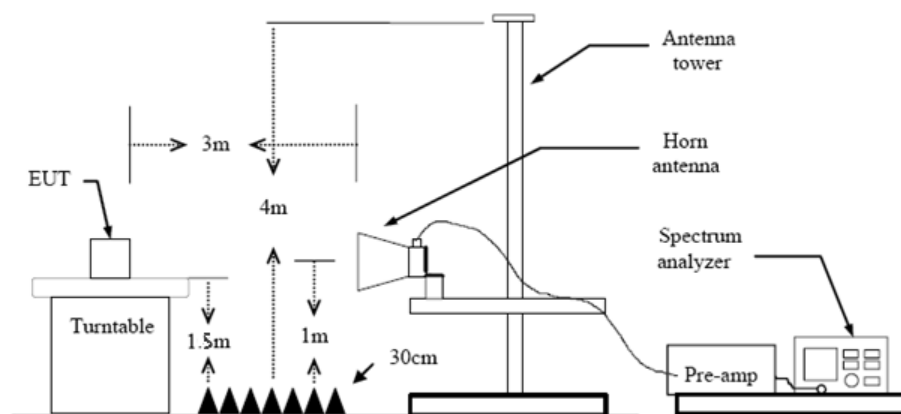
NOTE:

1, The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \text{ uV/m, where P is the eirp (Watts)}$$

2, According to FCC 16-24, 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 25MHz 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 27dBm/MHz at the band edge.

### 7.2 Test Setup



### 7.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical Antenna 0re set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

### 7.4 Deviation From Test Standard

No deviation

### 7.5 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

### 7.6 Test Data

Please refer to the Attachment C.

## 8. Bandwidth Test

### 8.1 Test Standard and Limit

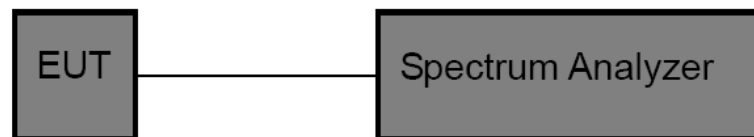
#### 8.1.1 Test Standard

FCC Part 15.407

#### 8.1.2 Test Limit

| FCC Part 15 Subpart C(15.407)/RSS-210 |         |                       |
|---------------------------------------|---------|-----------------------|
| Test Item                             | Limit   | Frequency Range (MHz) |
| 26 Bandwidth                          | N/A     | 5150~5250             |
|                                       |         | 5250~5350             |
|                                       |         | 5500~5700             |
| 6 dB Bandwidth                        | >500kHz | 5725~5850             |

### 8.2 Test Setup



### 8.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The setting of the spectrum analyser as below:

| 26dB Bandwidth Test |                                            |
|---------------------|--------------------------------------------|
| Spectrum Parameters | Setting                                    |
| Attenuation         | Auto                                       |
| Span                | >26 dB Bandwidth                           |
| RBW                 | Approximately 1% of the emission bandwidth |
| VBW                 | VBW>RBW                                    |
| Detector            | Peak                                       |
| Trace               | Max Hold                                   |
| Sweep Time          | Auto                                       |

| 6dB Bandwidth Test          |                     |
|-----------------------------|---------------------|
| Spectrum Parameters         | Setting             |
| Attenuation                 | Auto                |
| Span                        | >6 dB Bandwidth     |
| RBW                         | 100 kHz             |
| VBW                         | VBW>=3*RBW          |
| Detector                    | Peak                |
| Trace                       | Max Hold            |
| Sweep Time                  | Auto                |
| 99% Occupied Bandwidth Test |                     |
| Spectrum Parameters         | Setting             |
| Attenuation                 | Auto                |
| RBW                         | 1% to 5% of the OBW |
| VBW                         | ≥ 3RBW              |
| Detector                    | Peak                |
| Trace                       | Max Hold            |

#### 8.4 Deviation From Test Standard

No deviation

#### 8.5 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

#### 8.6 Test Data

Please refer to the Attachment D.

## 9. Output Power Test

### 9.1 Test Standard and Limit

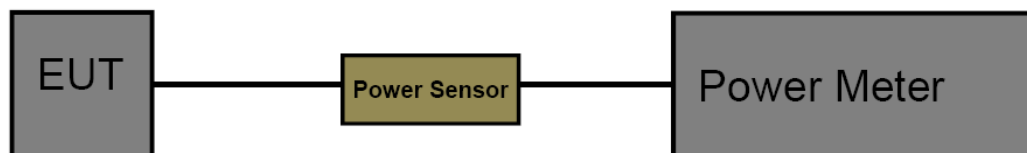
#### 9.1.1 Test Standard

FCC Part 15.407 (a)

#### 9.1.2 Test Limit

| FCC Part 15 Subpart E(15.407)/RSS-210 |                                                                |                      |
|---------------------------------------|----------------------------------------------------------------|----------------------|
| Test Item                             | Limit                                                          | Frequency Range(MHz) |
| Conducted Output Power                | Fixed: 1 Watt (30dBm)<br>Mobile and Portable:<br>250mW (24dBm) | 5150~5250            |
|                                       | 250mW (24dBm)                                                  | 5250~5350            |
|                                       | 250mW (24dBm)                                                  | 5500~5700            |
|                                       | 1 Watt (30dBm)                                                 | 5725~5850            |

### 9.2 Test Setup



### 9.3 Test Procedure

The measurement is according to section 3 of KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

The EUT was connected to RF power meter via a broadband power sensor as show the block above.

### 9.4 Deviation From Test Standard

No deviation

### 9.5 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

### 9.6 Test Date

Please refer to the Attachment E.

## 10. Power Spectral Density Test

### 10.1 Test Standard and Limit

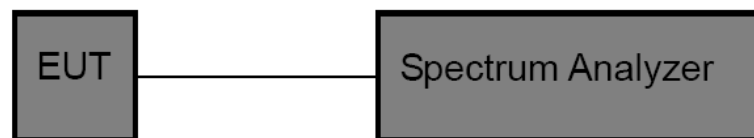
#### 10.1.1 Test Standard

FCC Part 15.407 (a)

#### 10.1.2 Test Limit

| FCC Part 15 Subpart E(15.407) |                                                                               |                      |
|-------------------------------|-------------------------------------------------------------------------------|----------------------|
| Test Item                     | Limit                                                                         | Frequency Range(MHz) |
| Power Spectral Density        | Other than Mobile and Portable : 17dBm/MHz<br>Mobile and Portable : 11dBm/MHz | 5150~5250            |
|                               | 11dBm/MHz                                                                     | 5250~5350            |
|                               | 11dBm/MHz                                                                     | 5500~5700            |
|                               | 30dBm/500kHz                                                                  | 5725~5850            |

### 9.2 Test Setup



### 10.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser centre frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW)(alternatively, the entire 99% OBW) of the signal.
- (4) Set the RBW to: 1 MHz
- (5) Set the VBW to: 3 MHz
- (6) Detector: RMS
- (7) Trace: Max Hold
- (7) Sweep time: auto
- (8) Trace average at least 100 traces in power averaging.

- (9) User the peak marker function to determine the maximum amplitude level within the RBW.  
Apply correction to the result if different RBW is used.

#### 10.4 Deviation From Test Standard

No deviation

#### 10.5 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

#### 10.6 Test Data

Please refer to the Attachment F.

## 11. Frequency Stability Measurement

### 11.1 Test Standard and Limit

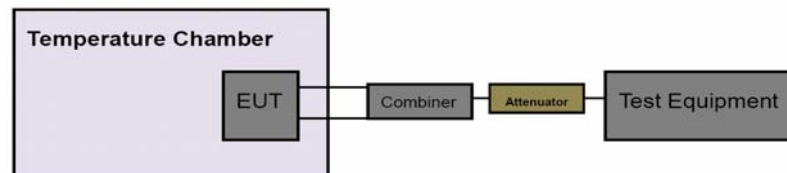
#### 11.1.1 Test Standard

FCC Part 15.407

#### 11.1.2 Test Limit

| FCC Part 15 Subpart C(15.407) |                                                                                                                                                                                                                            |                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Test Item                     | Limit                                                                                                                                                                                                                      | Frequency Range(MHz) |
| Peak Excursion Measurement    | Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual | 5150~5250            |
|                               |                                                                                                                                                                                                                            | 5250~5350            |
|                               |                                                                                                                                                                                                                            | 5500~5700            |
|                               |                                                                                                                                                                                                                            | 5725~5850            |

### 11.2 Test Setup



### 11.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser centre frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) of the signal.
- (4) Set the RBW to: 10 kHz, VBW=10 kHz with peak detector and maxhold settings.
- (5) The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- (6) Extreme temperature is 0°C~50°C

### 11.4 Deviation From Test Standard

No deviation

### 11.5 EUT Operating Condition

The EUT was set to continuously transmitting in continuously un-modulation transmitting mode.

### 11.6 Test Data

Please refer to the Attachment G.

## 12. Antenna Requirement

### 12.1 Standard Requirement

#### 12.1.1 Standard

FCC Part 15.203

#### 12.1.2 Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 12.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 2.1dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

### 12.3 Deviation From Test Standard

No deviation

### 12.4 Result

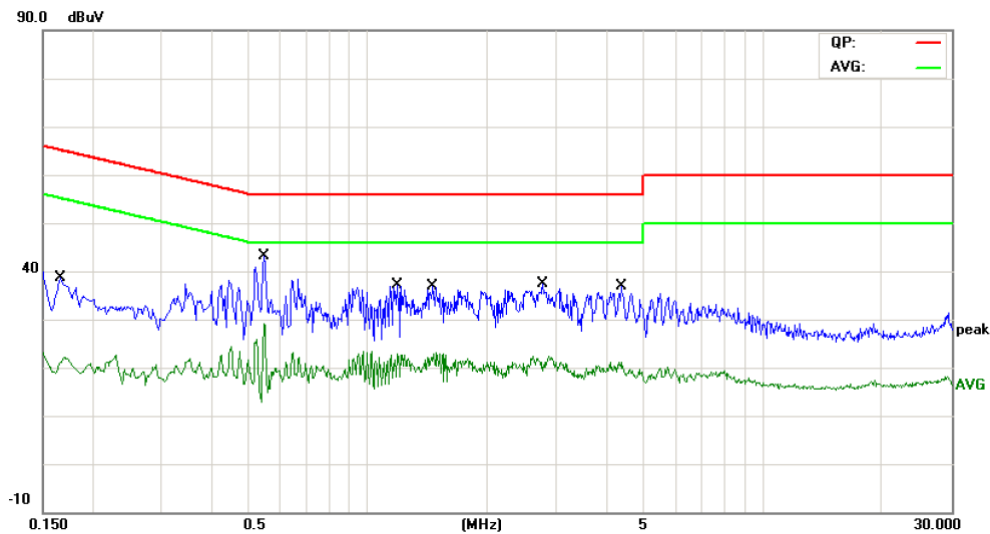
The EUT antennas are PIFA Antenna. It complies with the standard requirement.

| Antenna Type                                                   |
|----------------------------------------------------------------|
| <input checked="" type="checkbox"/> Permanent attached antenna |
| <input type="checkbox"/> Unique connector antenna              |
| <input type="checkbox"/> Professional installation antenna     |

## Attachment A-- Conducted Emission Test Data

Remark: All channels have been tested and Shows only the worst channels.

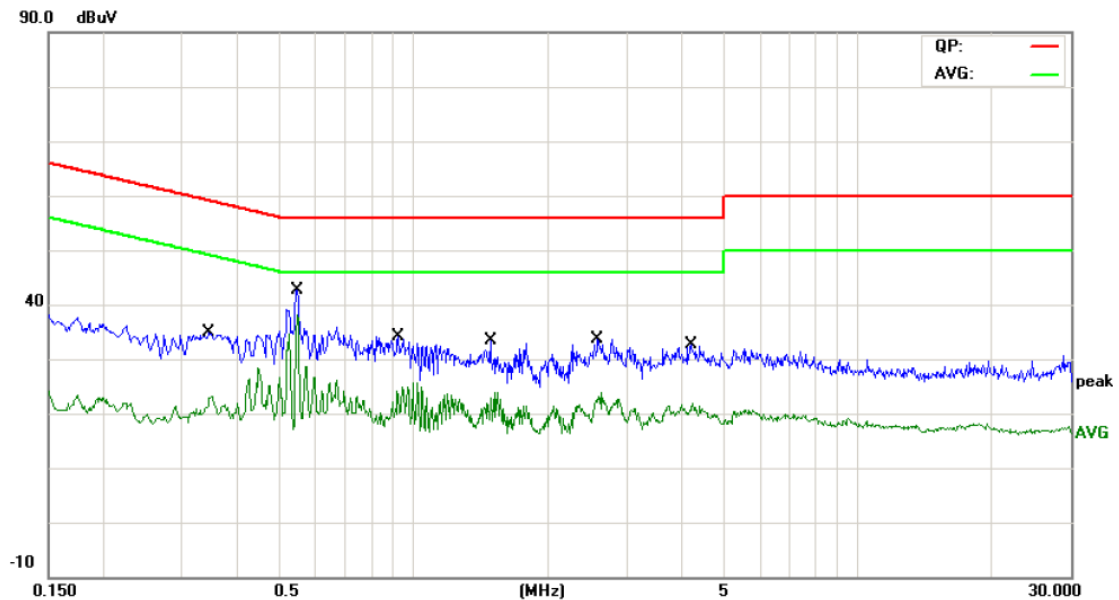
|               |                              |                    |     |
|---------------|------------------------------|--------------------|-----|
| Temperature:  | 24.8 °C                      | Relative Humidity: | 42% |
| Test Voltage: | AC 120V/60 Hz                |                    |     |
| Terminal:     | Line                         |                    |     |
| Test Mode:    | TX 802.11a Mode CH36         |                    |     |
| Remark:       | Only worse case is reported. |                    |     |



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit | Over   |          |
|-----|-----|--------|---------------|----------------|--------------|-------|--------|----------|
|     |     | MHz    | dBuV          | dB             | dBuV         | dBuV  | dB     | Detector |
| 1   |     | 0.1660 | 28.88         | 9.70           | 38.58        | 65.15 | -26.57 | QP       |
| 2   |     | 0.1660 | 11.33         | 9.70           | 21.03        | 55.15 | -34.12 | AVG      |
| 3   | *   | 0.5460 | 33.49         | 9.70           | 43.19        | 56.00 | -12.81 | QP       |
| 4   |     | 0.5460 | 19.47         | 9.70           | 29.17        | 46.00 | -16.83 | AVG      |
| 5   |     | 1.1898 | 27.36         | 9.78           | 37.14        | 56.00 | -18.86 | QP       |
| 6   |     | 1.1898 | 12.98         | 9.78           | 22.76        | 46.00 | -23.24 | AVG      |
| 7   |     | 1.4618 | 27.02         | 9.75           | 36.77        | 56.00 | -19.23 | QP       |
| 8   |     | 1.4618 | 11.58         | 9.75           | 21.33        | 46.00 | -24.67 | AVG      |
| 9   |     | 2.7700 | 27.48         | 9.85           | 37.33        | 56.00 | -18.67 | QP       |
| 10  |     | 2.7700 | 9.60          | 9.85           | 19.45        | 46.00 | -26.55 | AVG      |
| 11  |     | 4.3619 | 27.08         | 9.90           | 36.98        | 56.00 | -19.02 | QP       |
| 12  |     | 4.3619 | 9.99          | 9.90           | 19.89        | 46.00 | -26.11 | AVG      |

Emission Level= Read Level+ Correct Factor

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 24.8 °C                     | Relative Humidity: | 42% |
| Test Voltage: | AC 120V/60 Hz               |                    |     |
| Terminal:     | Neutral                     |                    |     |
| Test Mode:    | TX 802.11a Mode CH36        |                    |     |
| Remark:       | Only worse case is reported |                    |     |



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit | Over   |          |
|-----|-----|--------|---------------|----------------|--------------|-------|--------|----------|
|     |     | MHz    | dBuV          | dB             | dBuV         | dBuV  | dB     | Detector |
| 1   |     | 0.3458 | 25.11         | 9.80           | 34.91        | 59.06 | -24.15 | QP       |
| 2   |     | 0.3458 | 13.02         | 9.80           | 22.82        | 49.06 | -26.24 | AVG      |
| 3   |     | 0.5460 | 32.92         | 9.80           | 42.72        | 56.00 | -13.28 | QP       |
| 4   | *   | 0.5460 | 28.28         | 9.80           | 38.08        | 46.00 | -7.92  | AVG      |
| 5   |     | 0.9220 | 24.27         | 9.80           | 34.07        | 56.00 | -21.93 | QP       |
| 6   |     | 0.9220 | 13.85         | 9.80           | 23.65        | 46.00 | -22.35 | AVG      |
| 7   |     | 1.4858 | 23.47         | 9.80           | 33.27        | 56.00 | -22.73 | QP       |
| 8   |     | 1.4899 | 13.12         | 9.80           | 22.92        | 46.00 | -23.08 | AVG      |
| 9   |     | 2.5819 | 23.78         | 9.80           | 33.58        | 56.00 | -22.42 | QP       |
| 10  |     | 2.5819 | 12.42         | 9.80           | 22.22        | 46.00 | -23.78 | AVG      |
| 11  |     | 4.1939 | 22.70         | 9.80           | 32.50        | 56.00 | -23.50 | QP       |
| 12  |     | 4.1939 | 11.12         | 9.80           | 20.92        | 46.00 | -25.08 | AVG      |

Emission Level= Read Level+ Correct Factor

## Attachment B-- Radiated Emission Test Data

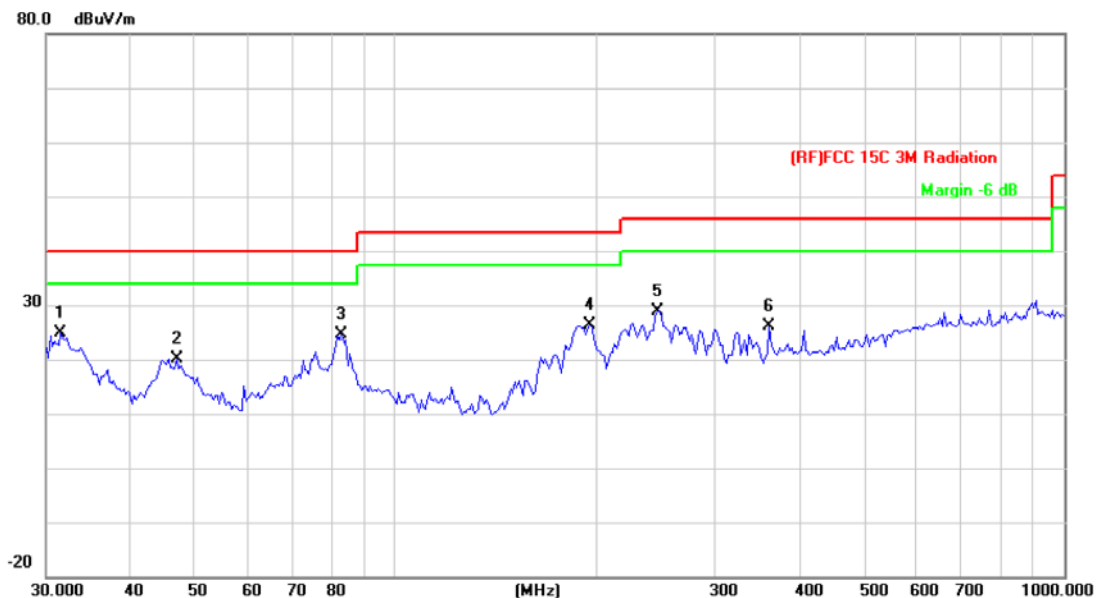
### 9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

### 30MHz~1GHz

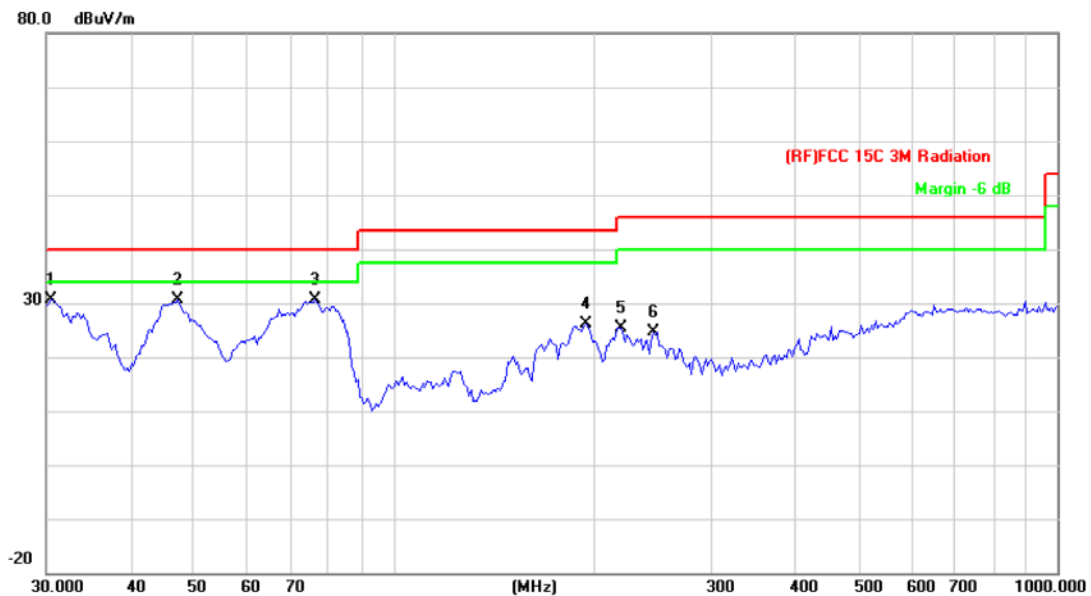
|               |                                   |                    |     |
|---------------|-----------------------------------|--------------------|-----|
| Temperature:  | 24.6 °C                           | Relative Humidity: | 43% |
| Test Voltage: | AC 120V/60Hz                      |                    |     |
| Ant. Pol.     | Horizontal                        |                    |     |
| Test Mode:    | TX 802.11a Mode 5180MHz (U-NII-1) |                    |     |
| Remark:       | Only worse case is reported       |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------|------------|----------|
| 1   | *   | 31.5093      | 38.92                    | -14.08                    | 24.84                      | 40.00           | -15.16     | peak     |
| 2   |     | 46.9947      | 42.25                    | -22.07                    | 20.18                      | 40.00           | -19.82     | peak     |
| 3   |     | 82.9385      | 47.01                    | -22.28                    | 24.73                      | 40.00           | -15.27     | peak     |
| 4   |     | 195.1365     | 46.16                    | -19.87                    | 26.29                      | 43.50           | -17.21     | peak     |
| 5   |     | 245.9507     | 46.41                    | -17.44                    | 28.97                      | 46.00           | -17.03     | peak     |
| 6   |     | 361.7139     | 40.14                    | -14.09                    | 26.05                      | 46.00           | -19.95     | peak     |

Emission Level= Read Level+ Correct Factor

|               |                                   |                    |     |
|---------------|-----------------------------------|--------------------|-----|
| Temperature:  | 24.6 °C                           | Relative Humidity: | 43% |
| Test Voltage: | AC 120V/60Hz                      |                    |     |
| Ant. Pol.     | Vertical                          |                    |     |
| Test Mode:    | TX 802.11a Mode 5180MHz (U-NII-1) |                    |     |
| Remark:       | Only worse case is reported.      |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 30.4237      | 43.86                    | -13.27                    | 30.59                      | 40.00           | -9.41      | peak     |
| 2   | *   | 47.3253      | 52.78                    | -22.18                    | 30.60                      | 40.00           | -9.40      | peak     |
| 3   |     | 76.2442      | 53.34                    | -22.82                    | 30.52                      | 40.00           | -9.48      | peak     |
| 4   |     | 195.1365     | 46.03                    | -19.87                    | 26.16                      | 43.50           | -17.34     | peak     |
| 5   |     | 219.8446     | 44.28                    | -18.87                    | 25.41                      | 46.00           | -20.59     | peak     |
| 6   |     | 245.9507     | 41.98                    | -17.44                    | 24.54                      | 46.00           | -21.46     | peak     |

Emission Level= Read Level+ Correct Factor

### 5180MHz-5240MHz(U-NII-1)

|               |                                                                                                           |                    |     |
|---------------|-----------------------------------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                                                     | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                                                   |                    |     |
| Ant. Pol.     | Horizontal                                                                                                |                    |     |
| Test Mode:    | TX 802.11a Mode 5180MHz (U-NII-1)                                                                         |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. Only worse case is reported. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB     | Detector |
| 1   | *   | 10359.740 | 22.05         | 20.50          | 42.55        | 54.00  | -11.45 | AVG      |
| 2   |     | 10360.100 | 31.68         | 20.50          | 52.18        | 68.30  | -16.12 | peak     |

Emission Level= Read Level+ Correct Factor

|               |                                                                                                           |                    |     |
|---------------|-----------------------------------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                                                     | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                                                   |                    |     |
| Ant. Pol.     | Vertical                                                                                                  |                    |     |
| Test Mode:    | TX 802.11a Mode 5180MHz (U-NII-1)                                                                         |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. Only worse case is reported. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB     | Detector |
| 1   |     | 10360.560 | 31.72         | 20.50          | 52.22        | 68.30  | -16.08 | peak     |
| 2   | *   | 10360.560 | 22.65         | 20.50          | 43.15        | 54.00  | -10.85 | AVG      |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Horizontal                                                                   |                    |     |
| Test Mode:    | TX 802.11a Mode 5200MHz (U-NII-1)                                            |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   | *   | 10400.120 | 22.77         | 20.56          | 43.33       | 54.00  | -10.67 | AVG      |
| 2   |     | 10400.320 | 33.06         | 20.56          | 53.62       | 68.30  | -14.68 | peak     |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Vertical                                                                     |                    |     |
| Test Mode:    | TX 802.11a Mode 5200MHz (U-NII-1)                                            |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 10399.688 | 32.28         | 20.56          | 52.84       | 68.30  | -15.46 | peak     |
| 2   | *   | 10400.400 | 22.52         | 20.56          | 43.08       | 54.00  | -10.92 | AVG      |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Horizontal                                                                   |                    |     |
| Test Mode:    | TX 802.11a Mode 5240MHz (U-NII-1)                                            |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB     | Detector |
| 1   | *   | 10480.820 | 21.98         | 20.68          | 42.66        | 54.00  | -11.34 | AVG      |
| 2   |     | 10481.200 | 32.49         | 20.68          | 53.17        | 68.30  | -15.13 | peak     |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Vertical                                                                     |                    |     |
| Test Mode:    | TX 802.11a Mode 5240MHz (U-NII-1)                                            |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB     | Detector |
| 1   |     | 10480.600 | 32.37         | 20.68          | 53.05        | 68.30  | -15.25 | peak     |
| 2   | *   | 10480.600 | 22.48         | 20.68          | 43.16        | 54.00  | -10.84 | AVG      |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Horizontal                                                                   |                    |     |
| Test Mode:    | TX 802.11n(HT20) Mode 5180MHz (U-NII-1)                                      |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |
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| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Vertical                                                                     |                    |     |
| Test Mode:    | TX 802.11n(HT20) Mode 5180MHz (U-NII-1)                                      |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |
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|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Horizontal                                                                   |                    |     |
| Test Mode:    | TX 802.11n(HT20) Mode 5200MHz (U-NII-1)                                      |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB     | Detector |
| 1   | *   | 10399.610 | 22.85         | 20.56          | 43.41        | 54.00  | -10.59 | AVG      |
| 2   |     | 10400.500 | 32.60         | 20.56          | 53.16        | 68.30  | -15.14 | peak     |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Vertical                                                                     |                    |     |
| Test Mode:    | TX 802.11n(HT20) Mode 5200MHz (U-NII-1)                                      |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 10400.580 | 31.51         | 20.56          | 52.07       | 68.30  | -16.23 | peak     |
| 2   | *   | 10400.580 | 22.59         | 20.56          | 43.15       | 54.00  | -10.85 | AVG      |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Horizontal                                                                   |                    |     |
| Test Mode:    | TX 802.11n(HT20) Mode 5240MHz (U-NII-1)                                      |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over        |
|-----|-----|-----------|---------------|----------------|--------------|--------|-------------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB Detector |
| 1   |     | 10480.374 | 34.35         | 20.68          | 55.03        | 68.30  | -13.27 peak |
| 2   | *   | 10480.611 | 23.68         | 20.68          | 44.36        | 54.00  | -9.64 AVG   |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Vertical                                                                     |                    |     |
| Test Mode:    | TX 802.11n(HT20) Mode 5240MHz (U-NII-1)                                      |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over        |
|-----|-----|-----------|---------------|----------------|--------------|--------|-------------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB          |
| 1   |     | 10480.220 | 32.95         | 20.68          | 53.63        | 68.30  | -14.67 peak |
| 2   | *   | 10480.220 | 22.23         | 20.68          | 42.91        | 54.00  | -11.09 AVG  |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Horizontal                                                                   |                    |     |
| Test Mode:    | TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)                                    |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB     | Detector |
| 1   |     | 10360.300 | 33.18         | 20.50          | 53.68        | 68.30  | -14.62 | peak     |
| 2   | *   | 10361.120 | 19.55         | 20.50          | 40.05        | 54.00  | -13.95 | AVG      |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Vertical                                                                     |                    |     |
| Test Mode:    | TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)                                    |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 10360.150 | 32.66         | 20.50          | 53.16       | 68.30  | -15.14 | peak     |
| 2   | *   | 10360.150 | 19.58         | 20.50          | 40.08       | 54.00  | -13.92 | AVG      |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Horizontal                                                                   |                    |     |
| Test Mode:    | TX 802.11ac(VHT20) Mode 5200MHz (U-NII-1)                                    |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB     | Detector |
| 1   | *   | 10399.331 | 20.64         | 20.56          | 41.20        | 54.00  | -12.80 | AVG      |
| 2   |     | 10400.480 | 32.05         | 20.56          | 52.61        | 68.30  | -15.69 | peak     |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Vertical                                                                     |                    |     |
| Test Mode:    | TX 802.11ac(VHT20) Mode 5200MHz (U-NII-1)                                    |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 10400.380 | 32.69         | 20.56          | 53.25       | 68.30  | -15.05 | peak     |
| 2   | *   | 10400.412 | 20.93         | 20.56          | 41.49       | 54.00  | -12.51 | AVG      |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Horizontal                                                                   |                    |     |
| Test Mode:    | TX 802.11 ac(VHT20) Mode 5240MHz (U-NII-1)                                   |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over        |
|-----|-----|-----------|---------------|----------------|--------------|--------|-------------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB Detector |
| 1   |     | 10480.331 | 33.47         | 20.68          | 54.15        | 68.30  | -14.15 peak |
| 2   | *   | 10481.230 | 20.59         | 20.68          | 41.27        | 54.00  | -12.73 AVG  |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Vertical                                                                     |                    |     |
| Test Mode:    | TX 802.11ac(VHT20) Mode 5240MHz (U-NII-1)                                    |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB     | Detector |
| 1   | *   | 10479.341 | 20.52         | 20.68          | 41.20        | 54.00  | -12.80 | AVG      |
| 2   |     | 10480.160 | 32.80         | 20.68          | 53.48        | 68.30  | -14.82 | peak     |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Horizontal                                                                   |                    |     |
| Test Mode:    | TX 802.11n(HT40) Mode 5190MHz (U-NII-1)                                      |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over        |
|-----|-----|-----------|---------------|----------------|--------------|--------|-------------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB Detector |
| 1   |     | 10380.000 | 31.88         | 20.53          | 52.41        | 68.30  | -15.89 peak |
| 2   | *   | 10380.000 | 23.28         | 20.53          | 43.81        | 54.00  | -10.19 AVG  |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Vertical                                                                     |                    |     |
| Test Mode:    | TX 802.11n(HT40) Mode 5190MHz (U-NII-1)                                      |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 10380.740 | 31.75         | 20.53          | 52.28       | 68.30  | -16.02 | peak     |
| 2   | *   | 10380.740 | 22.80         | 20.53          | 43.33       | 54.00  | -10.67 | AVG      |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Horizontal                                                                   |                    |     |
| Test Mode:    | TX 802.11n(HT40) Mode 5230MHz (U-NII-1)                                      |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 10460.190 | 32.46         | 20.65          | 53.11       | 68.30  | -15.19 | peak     |
| 2   | *   | 10460.190 | 21.43         | 20.65          | 42.08       | 54.00  | -11.92 | AVG      |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Vertical                                                                     |                    |     |
| Test Mode:    | TX 802.11n(HT40) Mode 5230MHz (U-NII-1)                                      |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 10460.280 | 32.36         | 20.65          | 53.01       | 68.30  | -15.29 | peak     |
| 2   | *   | 10460.280 | 22.85         | 20.65          | 43.50       | 54.00  | -10.50 | AVG      |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Horizontal                                                                   |                    |     |
| Test Mode:    | TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)                                    |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB     | Detector |
| 1   |     | 10380.266 | 32.64         | 20.53          | 53.17        | 68.30  | -15.13 | peak     |
| 2   | *   | 10381.405 | 20.63         | 20.53          | 41.16        | 54.00  | -12.84 | AVG      |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Vertical                                                                     |                    |     |
| Test Mode:    | TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)                                    |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB     | Detector |
| 1   | *   | 10480.100 | 20.38         | 20.68          | 41.06        | 54.00  | -12.94 | AVG      |
| 2   |     | 10480.200 | 32.01         | 20.68          | 52.69        | 68.30  | -15.61 | peak     |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Horizontal                                                                   |                    |     |
| Test Mode:    | TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1)                                    |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB     | Detector |
| 1   | *   | 10459.220 | 20.83         | 20.65          | 41.48        | 54.00  | -12.52 | AVG      |
| 2   |     | 10460.352 | 32.59         | 20.65          | 53.24        | 68.30  | -15.06 | peak     |

Emission Level= Read Level+ Correct Factor

|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Vertical                                                                     |                    |     |
| Test Mode:    | TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1)                                    |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |

| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|-----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz       | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB     | Detector |
| 1   |     | 10460.322 | 32.96         | 20.65          | 53.61        | 68.30  | -14.69 | peak     |
| 2   | *   | 10461.066 | 20.58         | 20.65          | 41.23        | 54.00  | -12.77 | AVG      |

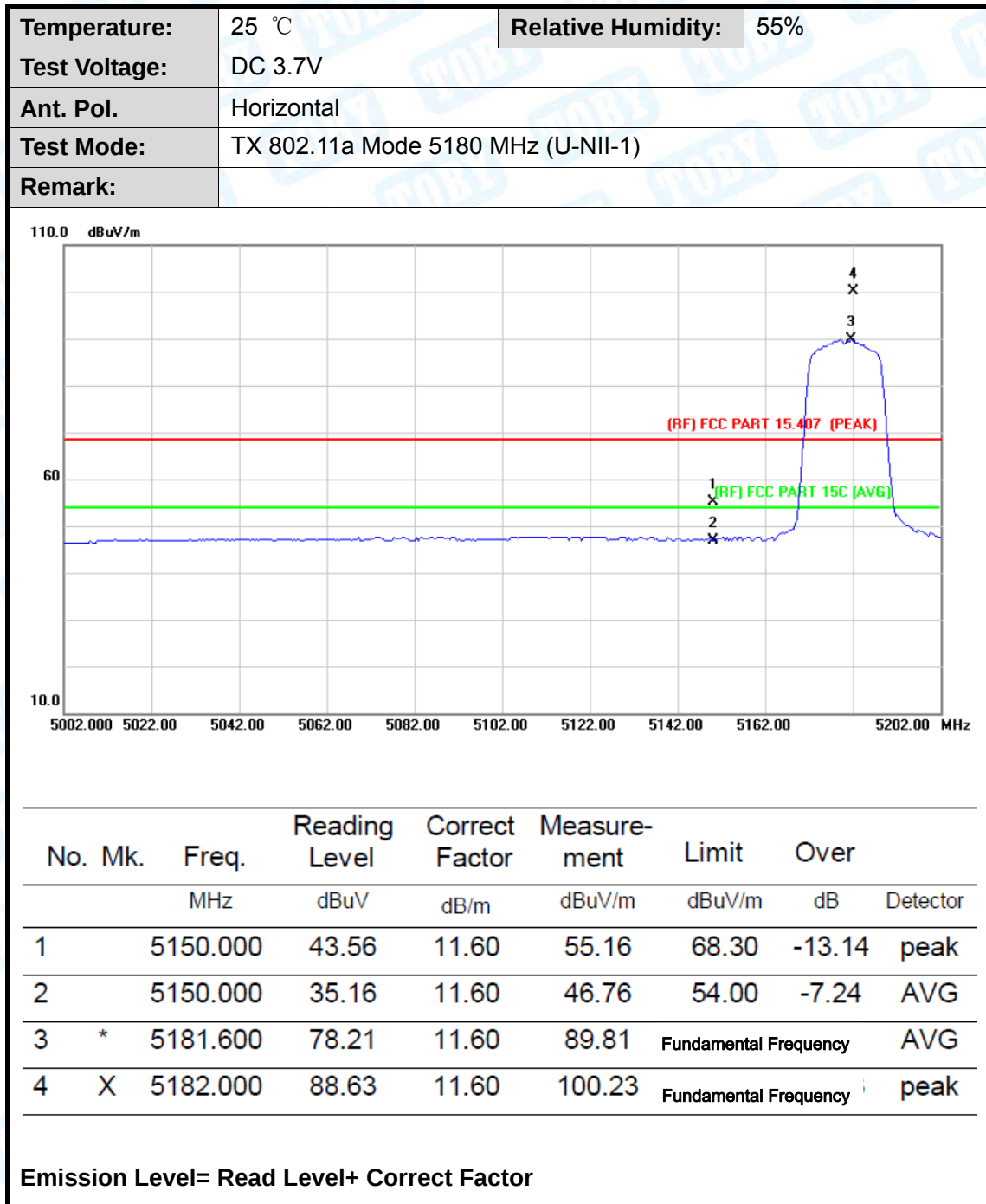
Emission Level= Read Level+ Correct Factor

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|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Horizontal                                                                   |                    |     |
| Test Mode:    | TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1)                                    |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |
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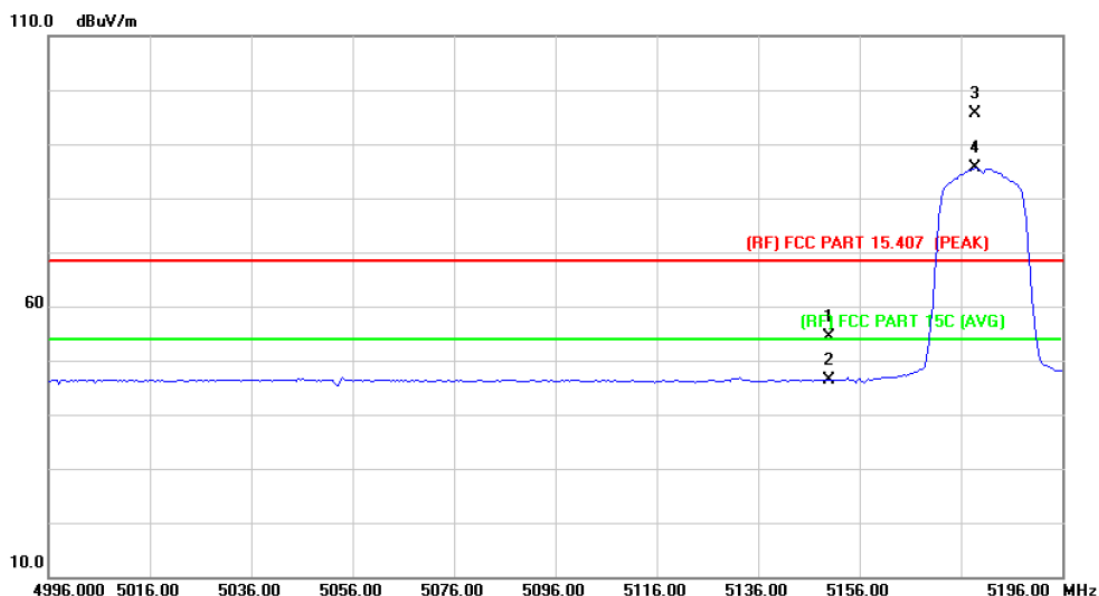
|               |                                                                              |                    |     |
|---------------|------------------------------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                                        | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                                      |                    |     |
| Ant. Pol.     | Vertical                                                                     |                    |     |
| Test Mode:    | TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1)                                    |                    |     |
| Remark:       | No report for the emission which more than 15 dB below the prescribed limit. |                    |     |
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# Attachment C-- Restricted Bands Requirement and Band-edge Test Data

## (1) Radiation Test



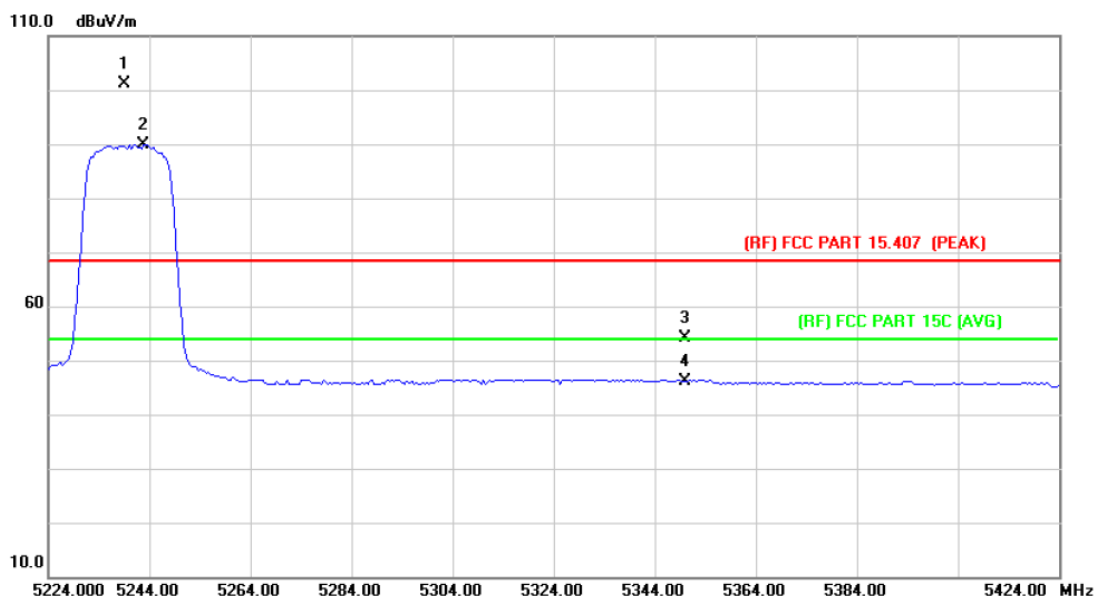
|               |                                    |                    |     |
|---------------|------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                              | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                            |                    |     |
| Ant. Pol.     | Vertical                           |                    |     |
| Test Mode:    | TX 802.11a Mode 5180 MHz (U-NII-1) |                    |     |
| Remark:       |                                    |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   |     | 5150.000     | 42.68                    | 11.60                     | 54.28                      | 68.30                 | -14.02     | peak     |
| 2   |     | 5150.000     | 34.76                    | 11.60                     | 46.36                      | 54.00                 | -7.64      | AVG      |
| 3   | X   | 5178.800     | 84.00                    | 11.60                     | 95.60                      | Fundamental Frequency |            | peak     |
| 4   | *   | 5178.800     | 74.14                    | 11.60                     | 85.74                      | Fundamental Frequency |            | AVG      |

Emission Level= Read Level+ Correct Factor

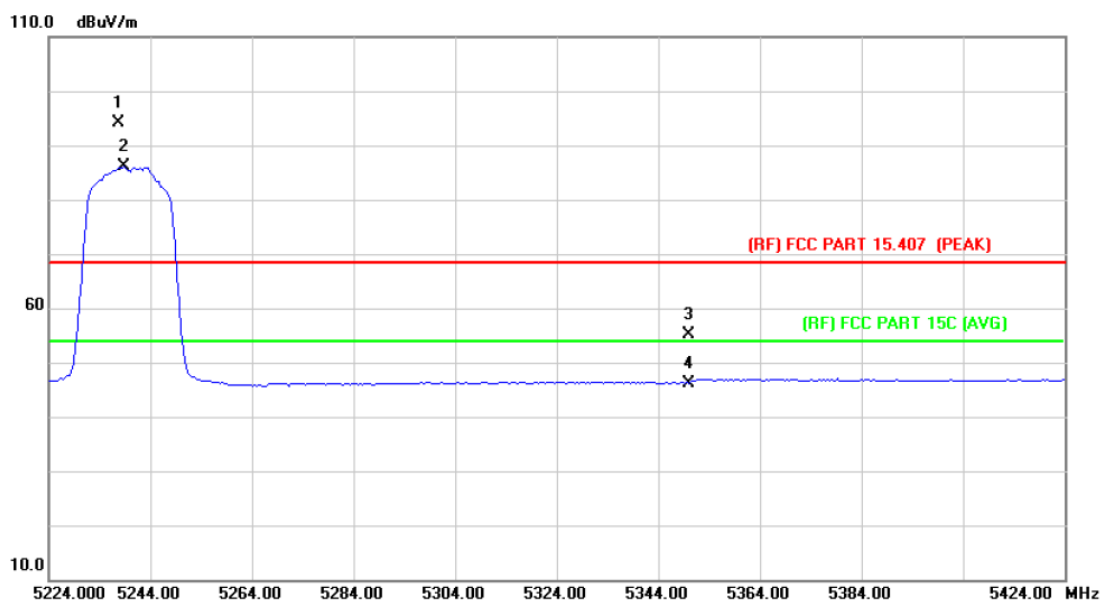
|               |                                    |                    |     |
|---------------|------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                              | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                            |                    |     |
| Ant. Pol.     | Horizontal                         |                    |     |
| Test Mode:    | TX 802.11a Mode 5240 MHz (U-NII-1) |                    |     |
| Remark:       |                                    |                    |     |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit                 | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-----------------------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m                | dB     | Detector |
| 1   | X   | 5239.200 | 89.49         | 11.56          | 101.05      | Fundamental Frequency |        | peak     |
| 2   | *   | 5242.800 | 78.38         | 11.57          | 89.95       | Fundamental Frequency |        | AVG      |
| 3   |     | 5350.000 | 42.63         | 11.54          | 54.17       | 68.30                 | -14.13 | peak     |
| 4   |     | 5350.000 | 34.62         | 11.54          | 46.16       | 54.00                 | -7.84  | AVG      |

Emission Level= Read Level+ Correct Factor

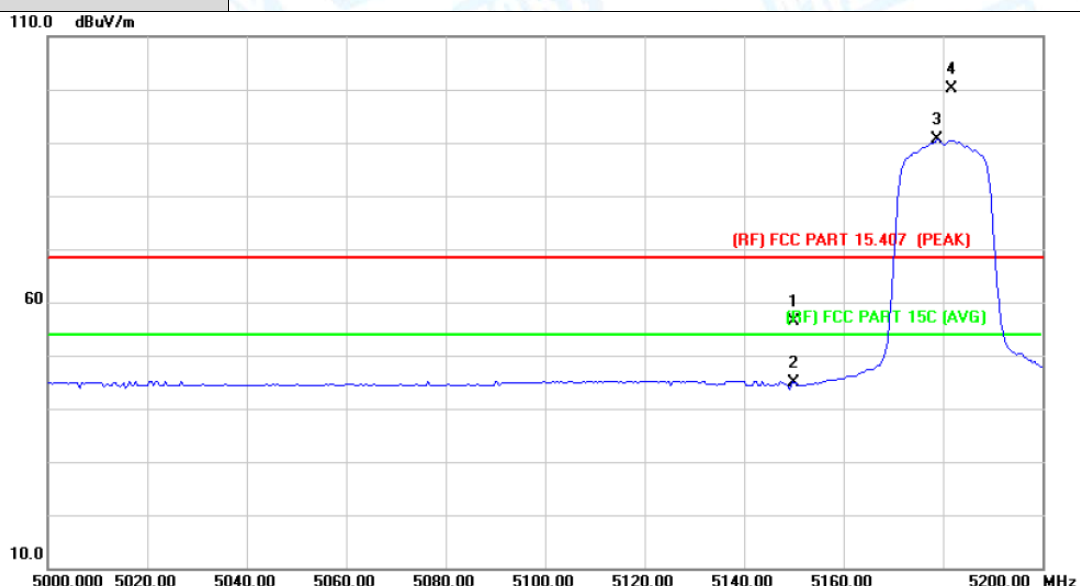
|               |                                    |                    |     |
|---------------|------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                              | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                            |                    |     |
| Ant. Pol.     | Vertical                           |                    |     |
| Test Mode:    | TX 802.11a Mode 5240 MHz (U-NII-1) |                    |     |
| Remark:       |                                    |                    |     |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit                 | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-----------------------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m                | dB     | Detector |
| 1   | X   | 5237.600 | 82.61         | 11.57          | 94.18       | Fundamental Frequency |        | peak     |
| 2   | *   | 5238.800 | 74.58         | 11.56          | 86.14       | Fundamental Frequency |        | AVG      |
| 3   |     | 5350.000 | 43.50         | 11.54          | 55.04       | 68.30                 | -13.26 | peak     |
| 4   |     | 5350.000 | 34.66         | 11.54          | 46.20       | 54.00                 | -7.80  | AVG      |

Emission Level= Read Level+ Correct Factor

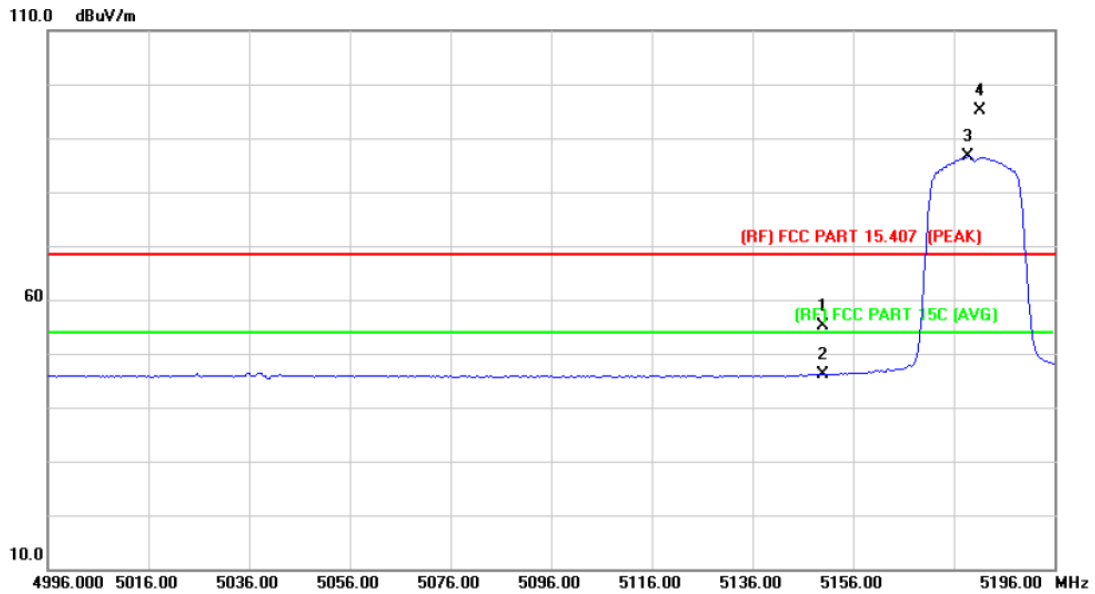
|               |                                          |                    |     |
|---------------|------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                    | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                  |                    |     |
| Ant. Pol.     | Horizontal                               |                    |     |
| Test Mode:    | TX 802.11n(HT20) Mode 5180 MHz (U-NII-1) |                    |     |
| Remark:       |                                          |                    |     |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit                 | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-----------------------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m                | dB     | Detector |
| 1   |     | 5150.000 | 44.74         | 11.60          | 56.34       | 68.30                 | -11.96 | peak     |
| 2   |     | 5150.000 | 33.26         | 11.60          | 44.86       | 54.00                 | -9.14  | AVG      |
| 3   | *   | 5178.800 | 78.92         | 11.60          | 90.52       | Fundamental Frequency |        | AVG      |
| 4   | X   | 5181.600 | 88.64         | 11.60          | 100.24      | Fundamental Frequency |        | peak     |

Emission Level= Read Level+ Correct Factor

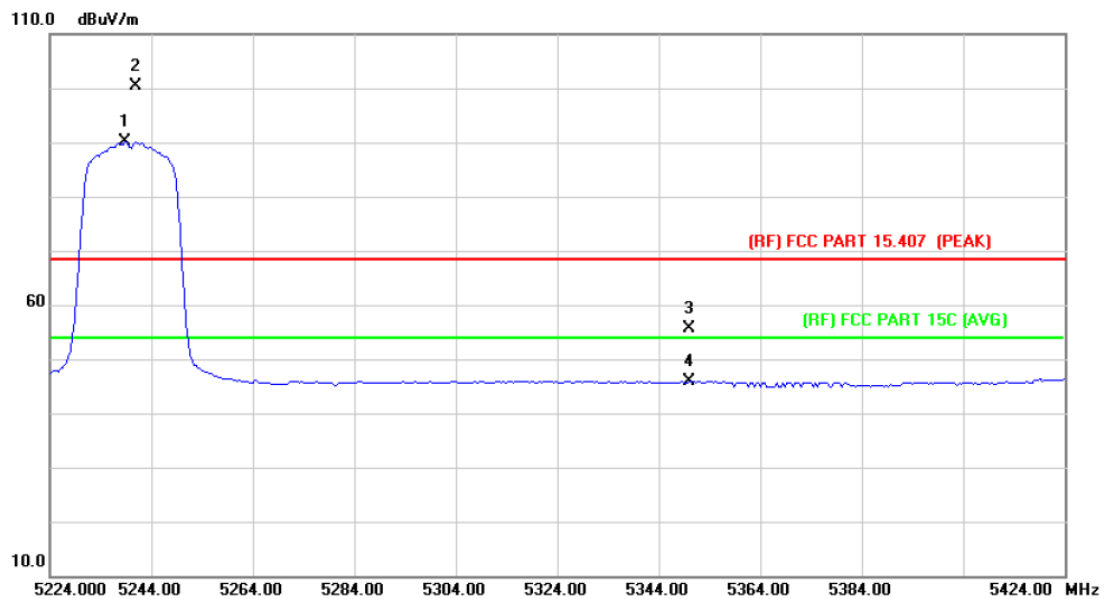
|               |                                          |                    |     |
|---------------|------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                    | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                  |                    |     |
| Ant. Pol.     | Vertical                                 |                    |     |
| Test Mode:    | TX 802.11n(HT20) Mode 5180 MHz (U-NII-1) |                    |     |
| Remark:       |                                          |                    |     |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit                 | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-----------------------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m                | dB     | Detector |
| 1   |     | 5150.000 | 43.48         | 11.60          | 55.08       | 68.30                 | -13.22 | peak     |
| 2   |     | 5150.000 | 34.54         | 11.60          | 46.14       | 54.00                 | -7.86  | AVG      |
| 3   | *   | 5178.800 | 75.15         | 11.60          | 86.75       | Fundamental Frequency |        | AVG      |
| 4   | X   | 5181.200 | 83.64         | 11.60          | 95.24       | Fundamental Frequency |        | peak     |

Emission Level= Read Level+ Correct Factor

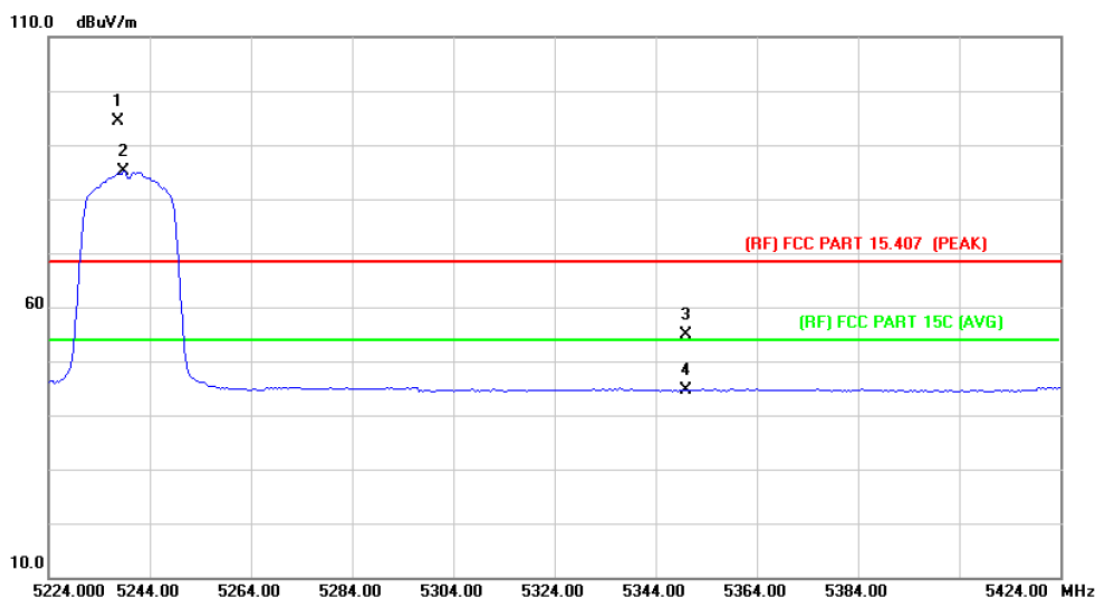
|               |                                          |                    |     |
|---------------|------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                    | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                  |                    |     |
| Ant. Pol.     | Horizontal                               |                    |     |
| Test Mode:    | TX 802.11n(HT20) Mode 5240 MHz (U-NII-1) |                    |     |
| Remark:       |                                          |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   | *   | 5238.800     | 78.58                    | 11.56                     | 90.14                      | Fundamental Frequency |            | AVG      |
| 2   | X   | 5240.800     | 88.81                    | 11.57                     | 100.38                     | Fundamental Frequency |            | peak     |
| 3   |     | 5350.000     | 43.98                    | 11.54                     | 55.52                      | 68.30                 | -12.78     | peak     |
| 4   |     | 5350.000     | 34.22                    | 11.54                     | 45.76                      | 54.00                 | -8.24      | AVG      |

Emission Level= Read Level+ Correct Factor

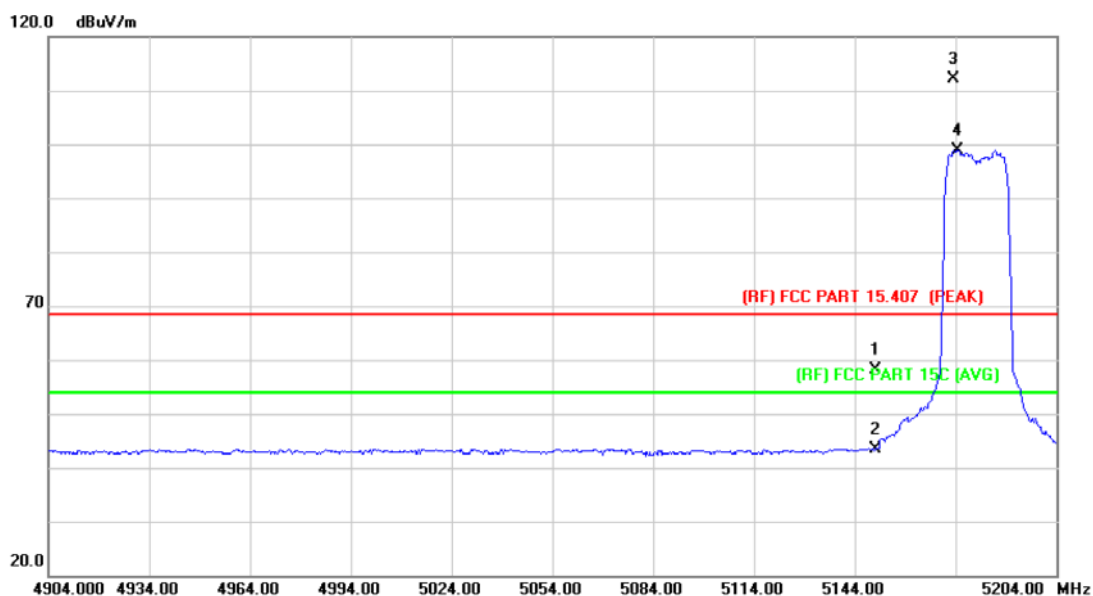
|               |                                          |                    |     |
|---------------|------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                    | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                  |                    |     |
| Ant. Pol.     | Vertical                                 |                    |     |
| Test Mode:    | TX 802.11n(HT20) Mode 5240 MHz (U-NII-1) |                    |     |
| Remark:       |                                          |                    |     |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit                 | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-----------------------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m                | dB     | Detector |
| 1   | X   | 5237.600 | 82.70         | 11.57          | 94.27       | Fundamental Frequency |        | peak     |
| 2   | *   | 5238.800 | 73.49         | 11.56          | 85.05       | Fundamental Frequency |        | AVG      |
| 3   |     | 5350.000 | 43.26         | 11.54          | 54.80       | 68.30                 | -13.50 | peak     |
| 4   |     | 5350.000 | 33.12         | 11.54          | 44.66       | 54.00                 | -9.34  | AVG      |

Emission Level= Read Level+ Correct Factor

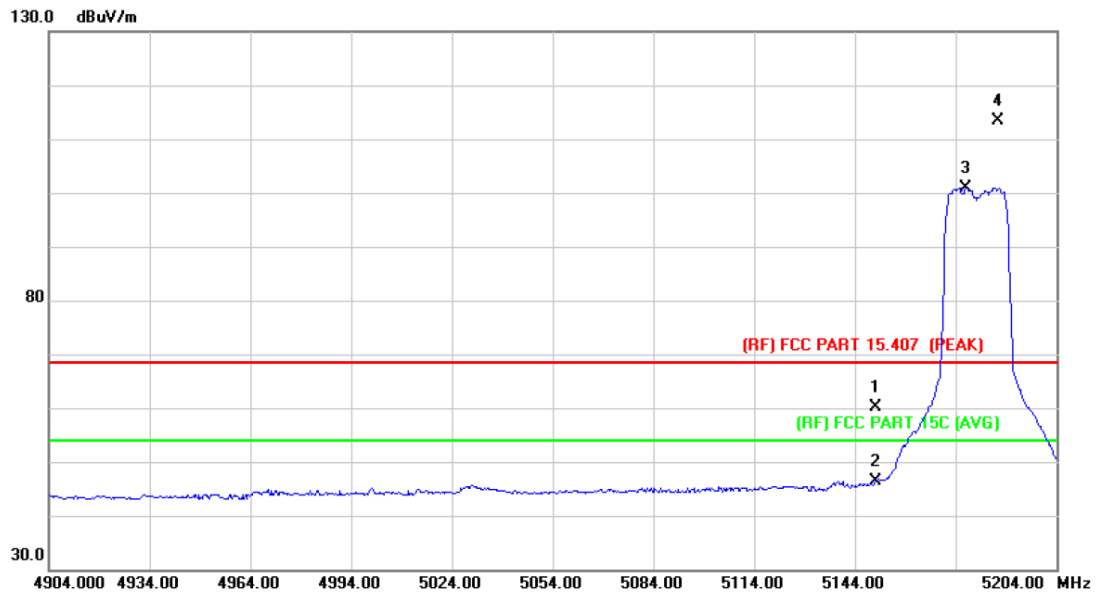
|               |                                            |                    |     |
|---------------|--------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                      | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                    |                    |     |
| Ant. Pol.     | Horizontal                                 |                    |     |
| Test Mode:    | TX 802.11ac(VHT20) Mode 5180 MHz (U-NII-1) |                    |     |
| Remark:       |                                            |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   |     | 5150.000     | 44.66                    | 13.54                     | 58.20                      | 68.30                 | -10.10     | peak     |
| 2   |     | 5150.000     | 29.94                    | 13.54                     | 43.48                      | 54.00                 | -10.52     | AVG      |
| 3   | X   | 5173.280     | 98.73                    | 13.52                     | 112.25                     | Fundamental Frequency |            | peak     |
| 4   | *   | 5174.600     | 85.39                    | 13.52                     | 98.91                      | Fundamental Frequency |            | AVG      |

Emission Level= Read Level+ Correct Factor

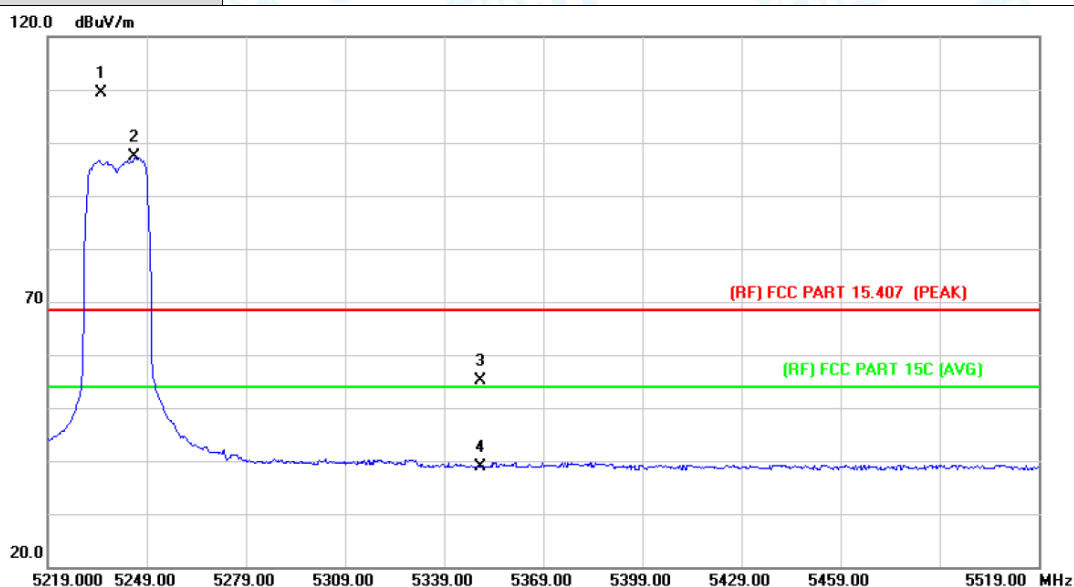
|               |                                            |                    |     |
|---------------|--------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                      | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                    |                    |     |
| Ant. Pol.     | Vertical                                   |                    |     |
| Test Mode:    | TX 802.11ac(VHT20) Mode 5180 MHz (U-NII-1) |                    |     |
| Remark:       |                                            |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   |     | 5150.000     | 46.64                    | 13.54                     | 60.18                      | 68.30                 | -8.12      | peak     |
| 2   |     | 5150.000     | 32.88                    | 13.54                     | 46.42                      | 54.00                 | -7.58      | AVG      |
| 3   | *   | 5177.000     | 87.40                    | 13.52                     | 100.92                     | Fundamental Frequency |            | AVG      |
| 4   | X   | 5186.470     | 99.74                    | 13.52                     | 113.26                     | Fundamental Frequency |            | peak     |

Emission Level= Read Level+ Correct Factor

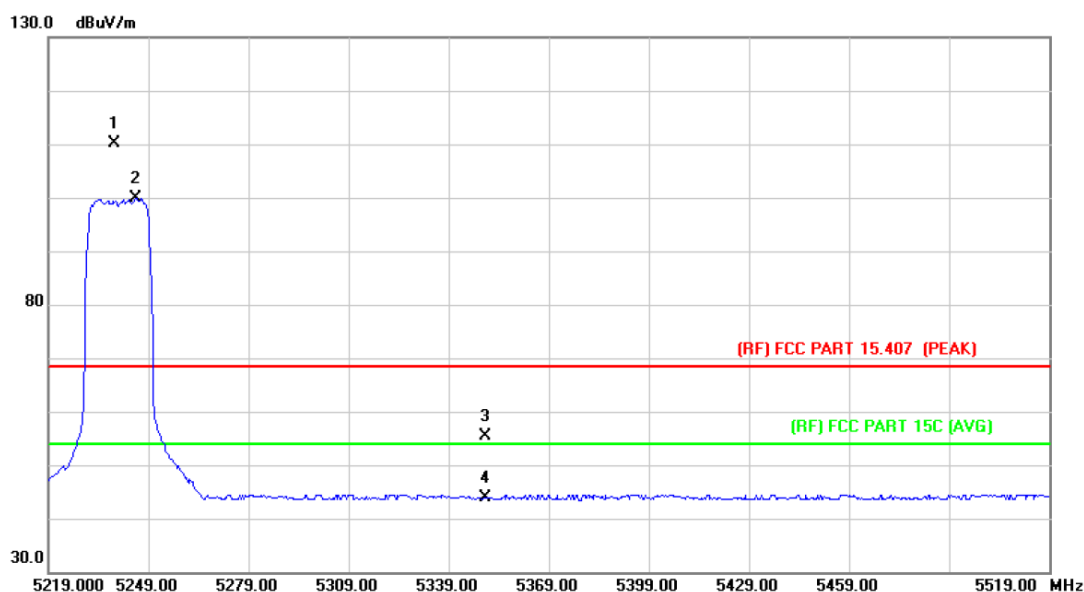
|               |                                            |                    |     |
|---------------|--------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                      | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                    |                    |     |
| Ant. Pol.     | Horizontal                                 |                    |     |
| Test Mode:    | TX 802.11ac(VHT20) Mode 5240 MHz (U-NII-1) |                    |     |
| Remark:       |                                            |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   | X   | 5235.330     | 95.81                    | 13.48                     | 109.29                     | Fundamental Frequency |            | peak     |
| 2   | *   | 5245.400     | 83.90                    | 13.47                     | 97.37                      | Fundamental Frequency |            | AVG      |
| 3   |     | 5350.000     | 41.70                    | 13.40                     | 55.10                      | 68.30                 | -13.20     | peak     |
| 4   |     | 5350.000     | 25.41                    | 13.40                     | 38.81                      | 54.00                 | -15.19     | AVG      |

Emission Level= Read Level+ Correct Factor

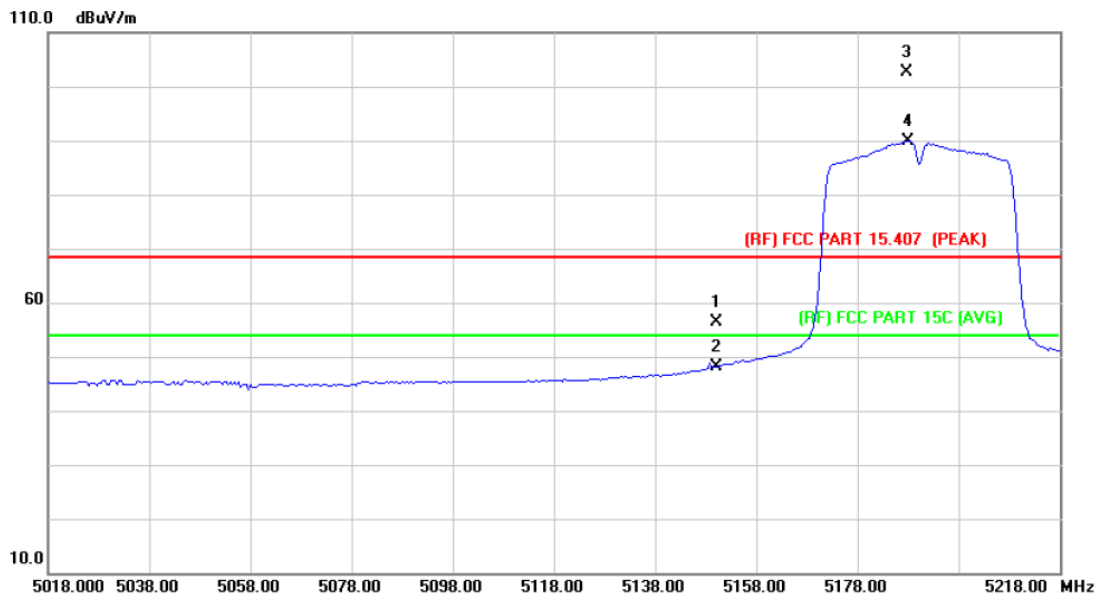
|               |                                            |                    |     |
|---------------|--------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                      | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                    |                    |     |
| Ant. Pol.     | Vertical                                   |                    |     |
| Test Mode:    | TX 802.11ac(VHT20) Mode 5240 MHz (U-NII-1) |                    |     |
| Remark:       |                                            |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   | X   | 5238.930     | 96.69                    | 13.47                     | 110.16                     | Fundamental Frequency |            | peak     |
| 2   | *   | 5245.400     | 86.50                    | 13.47                     | 99.97                      | Fundamental Frequency |            | AVG      |
| 3   |     | 5350.000     | 41.89                    | 13.40                     | 55.29                      | 68.30                 | -13.01     | peak     |
| 4   |     | 5350.000     | 30.56                    | 13.40                     | 43.96                      | 54.00                 | -10.04     | AVG      |

Emission Level= Read Level+ Correct Factor

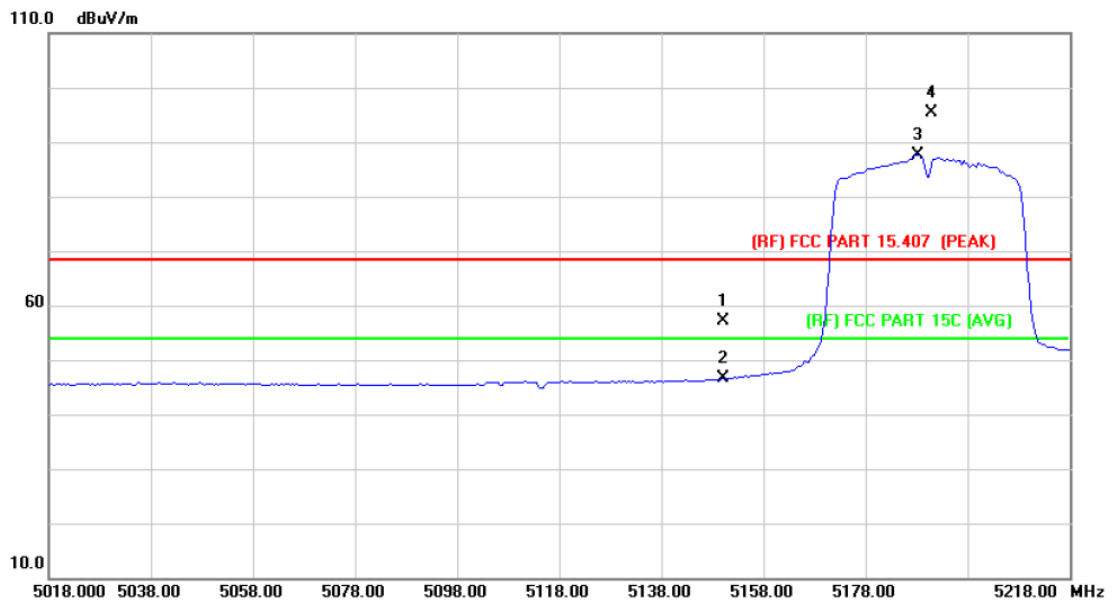
|               |                                          |                    |     |
|---------------|------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                    | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                  |                    |     |
| Ant. Pol.     | Horizontal                               |                    |     |
| Test Mode:    | TX 802.11n(HT40) Mode 5190 MHz (U-NII-1) |                    |     |
| Remark:       |                                          |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   |     | 5150.000     | 44.67                    | 11.60                     | 56.27                      | 68.30                 | -12.03     | peak     |
| 2   |     | 5150.000     | 36.48                    | 11.60                     | 48.08                      | 54.00                 | -5.92      | AVG      |
| 3   | X   | 5187.600     | 90.97                    | 11.59                     | 102.56                     | Fundamental Frequency |            | peak     |
| 4   | *   | 5188.000     | 78.31                    | 11.58                     | 89.89                      | Fundamental Frequency |            | AVG      |

Emission Level= Read Level+ Correct Factor

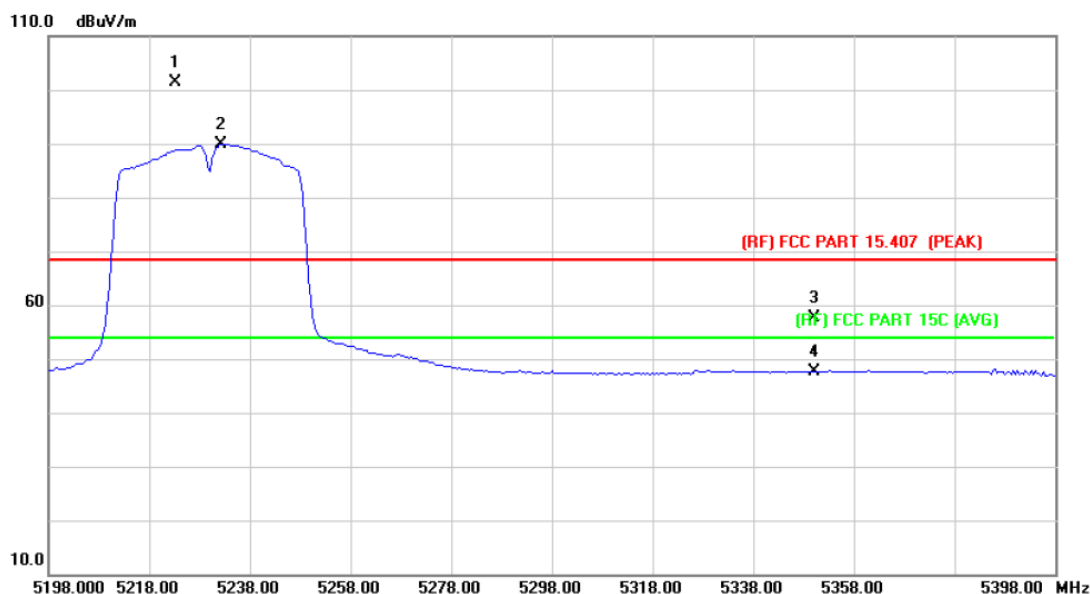
|               |                                          |                    |     |
|---------------|------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                    | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                  |                    |     |
| Ant. Pol.     | Vertical                                 |                    |     |
| Test Mode:    | TX 802.11n(HT40) Mode 5190 MHz (U-NII-1) |                    |     |
| Remark:       |                                          |                    |     |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit                 | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-----------------------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m                | dB     | Detector |
| 1   |     | 5150.000 | 45.51         | 11.60          | 57.11       | 68.30                 | -11.19 | peak     |
| 2   |     | 5150.000 | 34.96         | 11.60          | 46.56       | 54.00                 | -7.44  | AVG      |
| 3   | *   | 5188.400 | 76.10         | 11.58          | 87.68       | Fundamental Frequency |        | AVG      |
| 4   | X   | 5190.800 | 83.82         | 11.58          | 95.40       | Fundamental Frequency |        | peak     |

Emission Level= Read Level+ Correct Factor

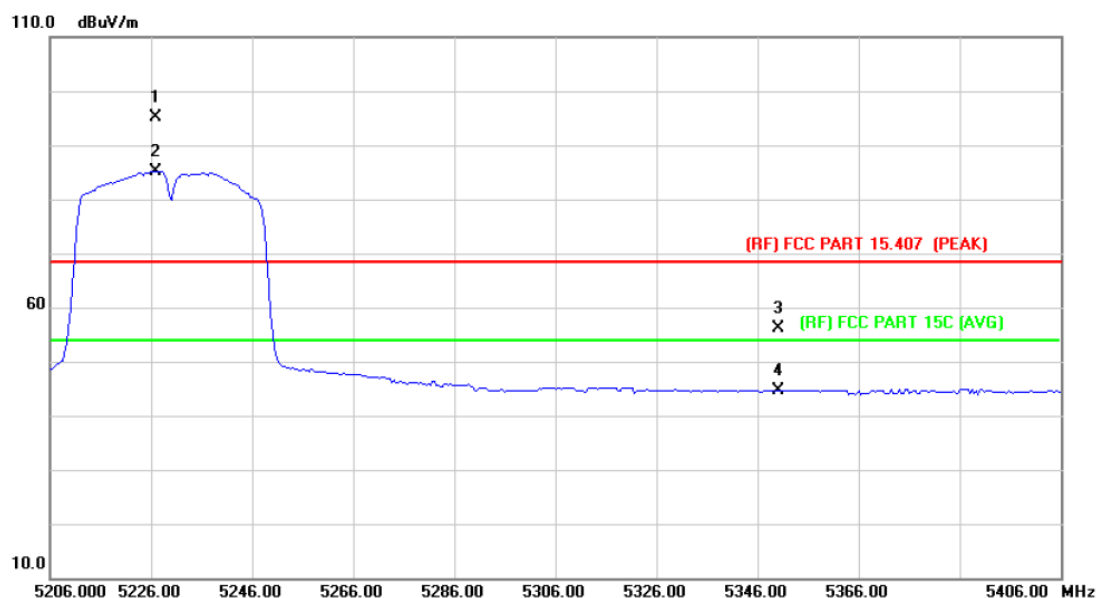
|               |                                          |                    |     |
|---------------|------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                    | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                  |                    |     |
| Ant. Pol.     | Horizontal                               |                    |     |
| Test Mode:    | TX 802.11n(HT40) Mode 5230 MHz (U-NII-1) |                    |     |
| Remark:       |                                          |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   | X   | 5223.200     | 89.72                    | 11.58                     | 101.30                     | Fundamental Frequency |            | peak     |
| 2   | *   | 5232.400     | 78.39                    | 11.58                     | 89.97                      | Fundamental Frequency |            | AVG      |
| 3   |     | 5350.000     | 46.08                    | 11.54                     | 57.62                      | 68.30                 | -10.68     | peak     |
| 4   |     | 5350.000     | 36.19                    | 11.54                     | 47.73                      | 54.00                 | -6.27      | AVG      |

Emission Level= Read Level+ Correct Factor

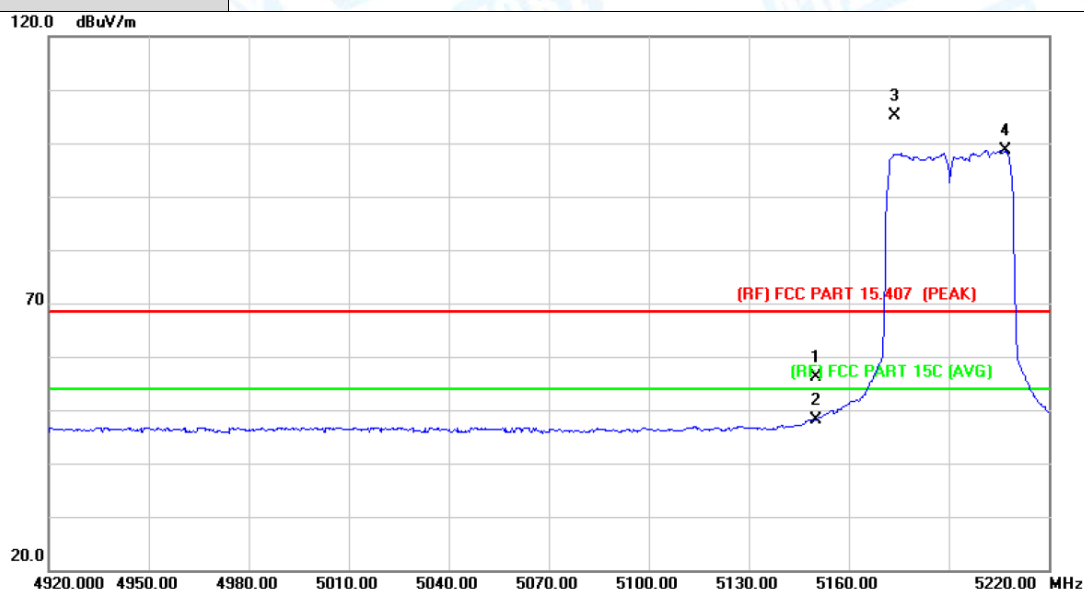
|               |                                          |                    |     |
|---------------|------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                    | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                  |                    |     |
| Ant. Pol.     | Vertical                                 |                    |     |
| Test Mode:    | TX 802.11n(HT40) Mode 5230 MHz (U-NII-1) |                    |     |
| Remark:       |                                          |                    |     |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit                 | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-----------------------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m                | dB     | Detector |
| 1   | X   | 5226.800 | 83.50         | 11.58          | 95.08       | Fundamental Frequency |        | peak     |
| 2   | *   | 5226.800 | 73.66         | 11.58          | 85.24       | Fundamental Frequency |        | AVG      |
| 3   |     | 5350.000 | 44.56         | 11.54          | 56.10       | 68.30                 | -12.20 | peak     |
| 4   |     | 5350.000 | 33.08         | 11.54          | 44.62       | 54.00                 | -9.38  | AVG      |

Emission Level= Read Level+ Correct Factor

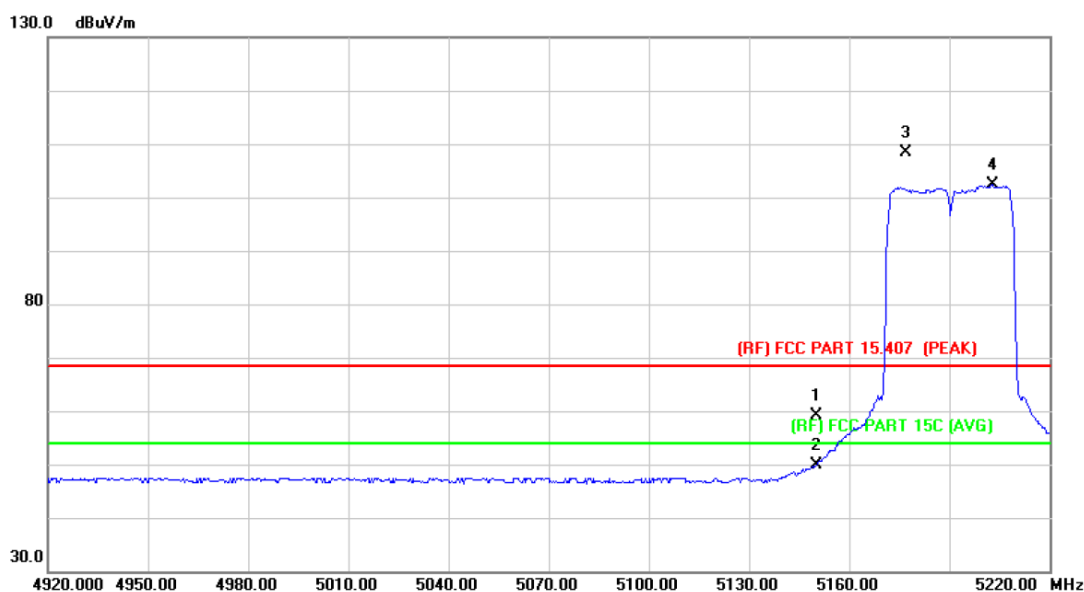
|               |                                            |                    |     |
|---------------|--------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                      | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                    |                    |     |
| Ant. Pol.     | Horizontal                                 |                    |     |
| Test Mode:    | TX 802.11ac(VHT40) Mode 5190 MHz (U-NII-1) |                    |     |
| Remark:       |                                            |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   |     | 5150.000     | 42.68                    | 13.54                     | 56.22                      | 68.30                 | -12.08     | peak     |
| 2   |     | 5150.000     | 34.62                    | 13.54                     | 48.16                      | 54.00                 | -5.84      | AVG      |
| 3   | X   | 5173.700     | 91.52                    | 13.52                     | 105.04                     | Fundamental Frequency |            | peak     |
| 4   | *   | 5207.100     | 85.10                    | 13.50                     | 98.60                      | Fundamental Frequency |            | AVG      |

Emission Level= Read Level+ Correct Factor

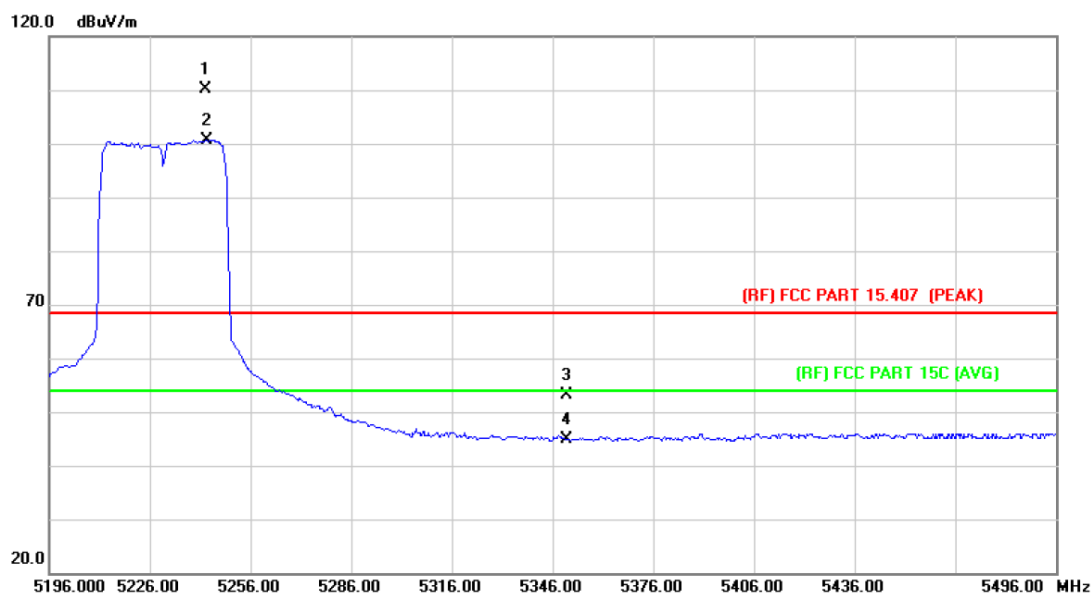
|               |                                            |                    |     |
|---------------|--------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                      | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                    |                    |     |
| Ant. Pol.     | Vertical                                   |                    |     |
| Test Mode:    | TX 802.11ac(VHT40) Mode 5190 MHz (U-NII-1) |                    |     |
| Remark:       |                                            |                    |     |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit                      | Over        |
|-----|-----|----------|---------------|----------------|-------------|----------------------------|-------------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m                     | dB Detector |
| 1   |     | 5150.000 | 45.60         | 13.54          | 59.14       | 68.30                      | -9.16 peak  |
| 2   |     | 5150.000 | 36.26         | 13.54          | 49.80       | 54.00                      | -4.20 AVG   |
| 3   | X   | 5176.990 | 94.78         | 13.52          | 108.30      | Fundamental Frequency peak |             |
| 4   | *   | 5202.900 | 88.90         | 13.51          | 102.41      | Fundamental Frequency AVG  |             |

Emission Level= Read Level+ Correct Factor

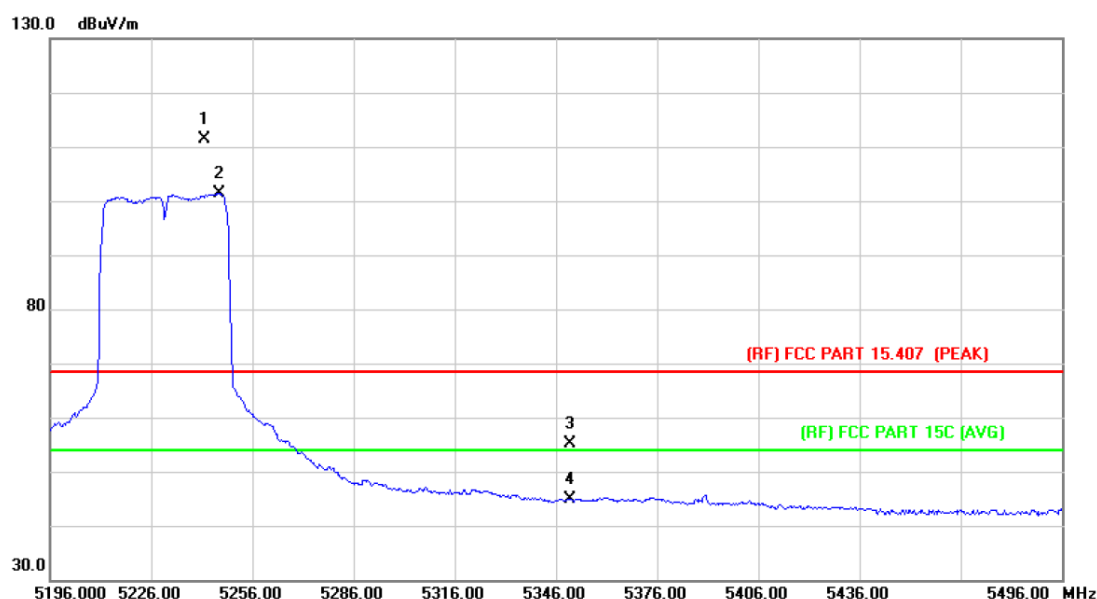
|               |                                            |                    |     |
|---------------|--------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                      | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                    |                    |     |
| Ant. Pol.     | Horizontal                                 |                    |     |
| Test Mode:    | TX 802.11ac(VHT40) Mode 5230 MHz (U-NII-1) |                    |     |
| Remark:       |                                            |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   | X   | 5242.600     | 96.73                    | 13.48                     | 110.21                     | Fundamental Frequency |            | peak     |
| 2   | *   | 5242.800     | 87.16                    | 13.48                     | 100.64                     | Fundamental Frequency |            | AVG      |
| 3   |     | 5350.000     | 39.72                    | 13.40                     | 53.12                      | 68.30                 | -15.18     | peak     |
| 4   |     | 5350.000     | 31.51                    | 13.40                     | 44.91                      | 54.00                 | -9.09      | AVG      |

Emission Level= Read Level+ Correct Factor

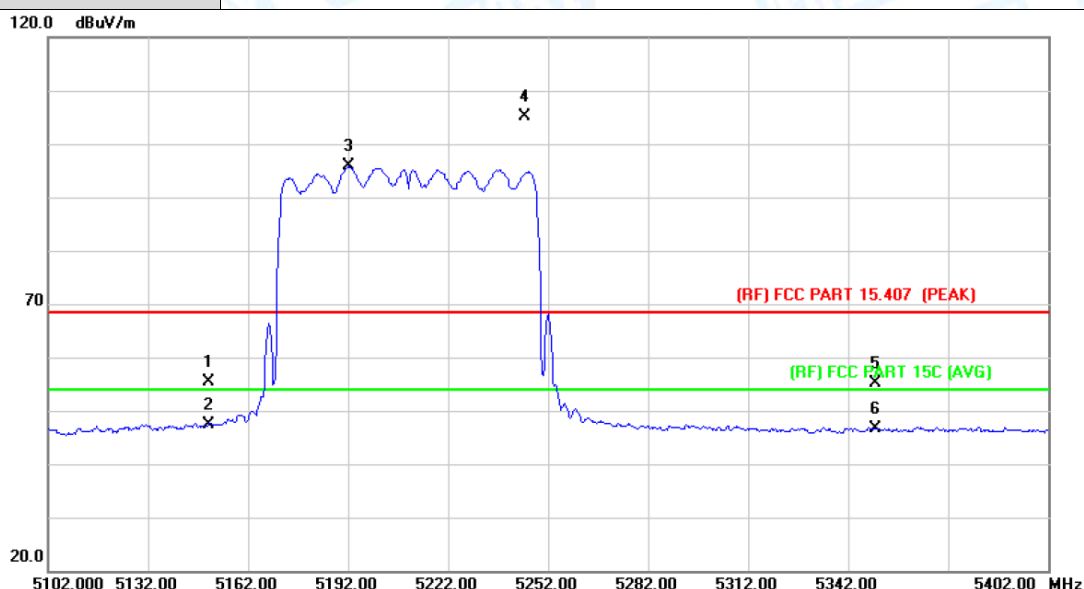
|               |                                            |                    |     |
|---------------|--------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                      | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                    |                    |     |
| Ant. Pol.     | Vertical                                   |                    |     |
| Test Mode:    | TX 802.11ac(VHT40) Mode 5230 MHz (U-NII-1) |                    |     |
| Remark:       |                                            |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   | X   | 5241.700     | 97.87                    | 13.48                     | 111.35                     | Fundamental Frequency | 5          | peak     |
| 2   | *   | 5246.100     | 87.86                    | 13.47                     | 101.33                     | Fundamental Frequency | 3          | AVG      |
| 3   |     | 5350.000     | 41.76                    | 13.40                     | 55.16                      | 68.30                 | -13.14     | peak     |
| 4   |     | 5350.000     | 31.41                    | 13.40                     | 44.81                      | 54.00                 | -9.19      | AVG      |

Emission Level= Read Level+ Correct Factor

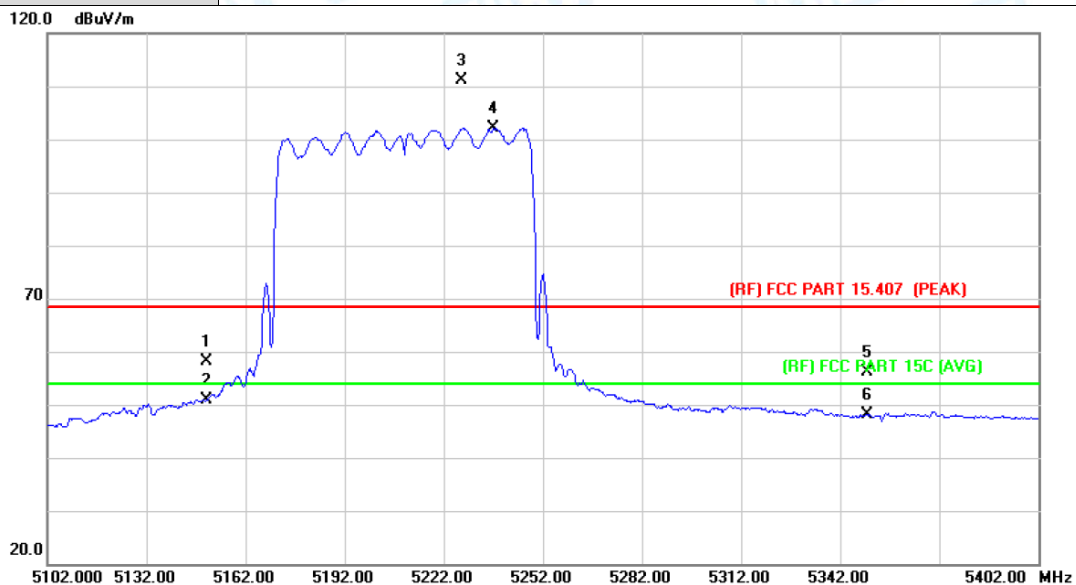
|               |                                            |                    |     |
|---------------|--------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                      | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                    |                    |     |
| Ant. Pol.     | Horizontal                                 |                    |     |
| Test Mode:    | TX 802.11ac(VHT80) Mode 5210 MHz (U-NII-1) |                    |     |
| Remark:       |                                            |                    |     |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit                 | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-----------------------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m                | dB     | Detector |
| 1   |     | 5150.000 | 41.73         | 13.54          | 55.27       | 68.30                 | -13.03 | peak     |
| 2   |     | 5150.000 | 33.74         | 13.54          | 47.28       | 54.00                 | -6.72  | AVG      |
| 3   | *   | 5192.000 | 82.25         | 13.51          | 95.76       | Fundamental Frequency |        | AVG      |
| 4   | X   | 5245.110 | 91.59         | 13.47          | 105.06      | Fundamental Frequency |        | peak     |
| 5   |     | 5350.000 | 41.68         | 13.40          | 55.08       | 68.30                 | -13.22 | peak     |
| 6   |     | 5350.000 | 33.30         | 13.40          | 46.70       | 54.00                 | -7.30  | AVG      |

Emission Level= Read Level+ Correct Factor

|               |                                            |                    |     |
|---------------|--------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                      | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                    |                    |     |
| Ant. Pol.     | Vertical                                   |                    |     |
| Test Mode:    | TX 802.11ac(VHT80) Mode 5210 MHz (U-NII-1) |                    |     |
| Remark:       |                                            |                    |     |

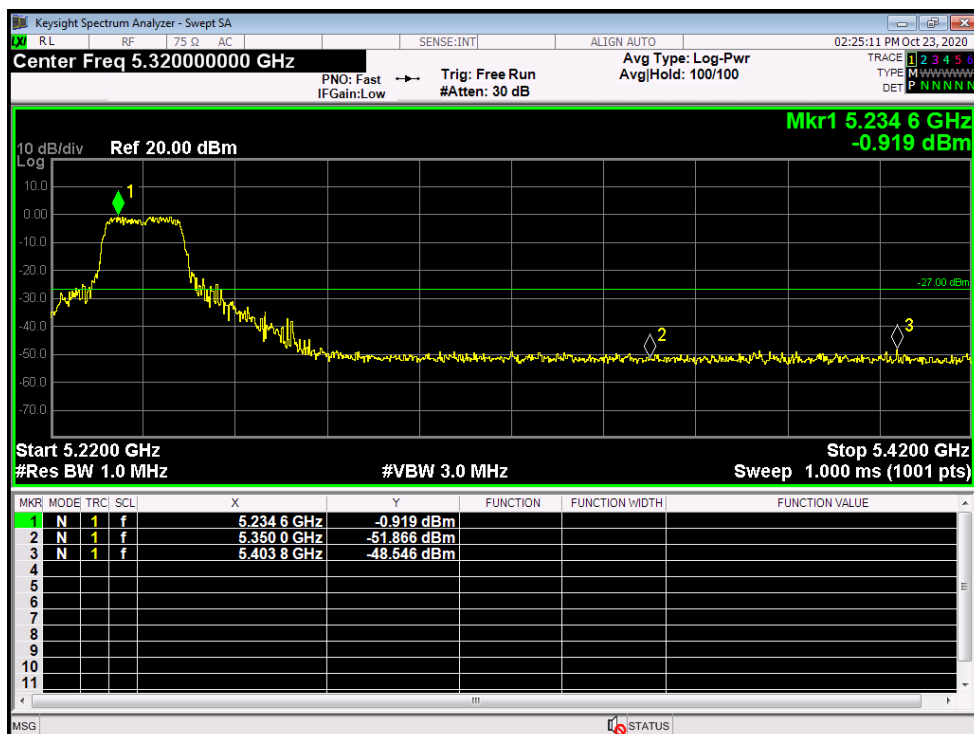
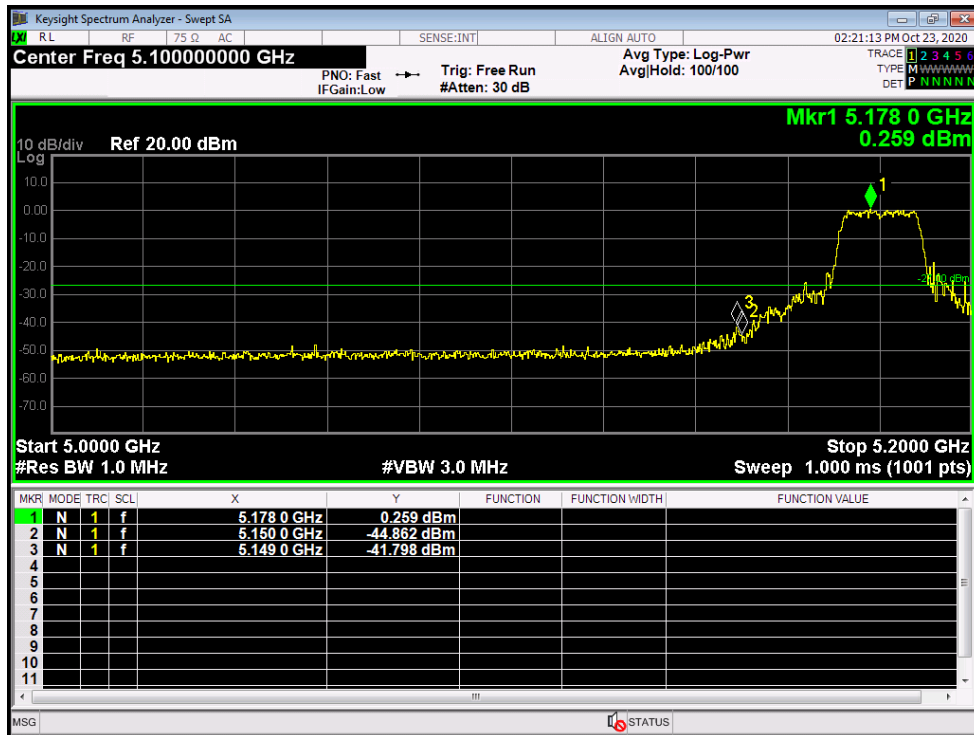


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   |     | 5150.000     | 44.70                    | 13.54                     | 58.24                      | 68.30                 | -10.06     | peak     |
| 2   |     | 5150.000     | 37.34                    | 13.54                     | 50.88                      | 54.00                 | -3.12      | AVG      |
| 3   | X   | 5227.420     | 97.74                    | 13.49                     | 111.23                     | Fundamental Frequency |            | peak     |
| 4   | *   | 5237.000     | 88.69                    | 13.48                     | 102.17                     | Fundamental Frequency |            | AVG      |
| 5   |     | 5350.000     | 42.79                    | 13.40                     | 56.19                      | 68.30                 | -12.11     | peak     |
| 6   |     | 5350.000     | 34.77                    | 13.40                     | 48.17                      | 54.00                 | -5.83      | AVG      |

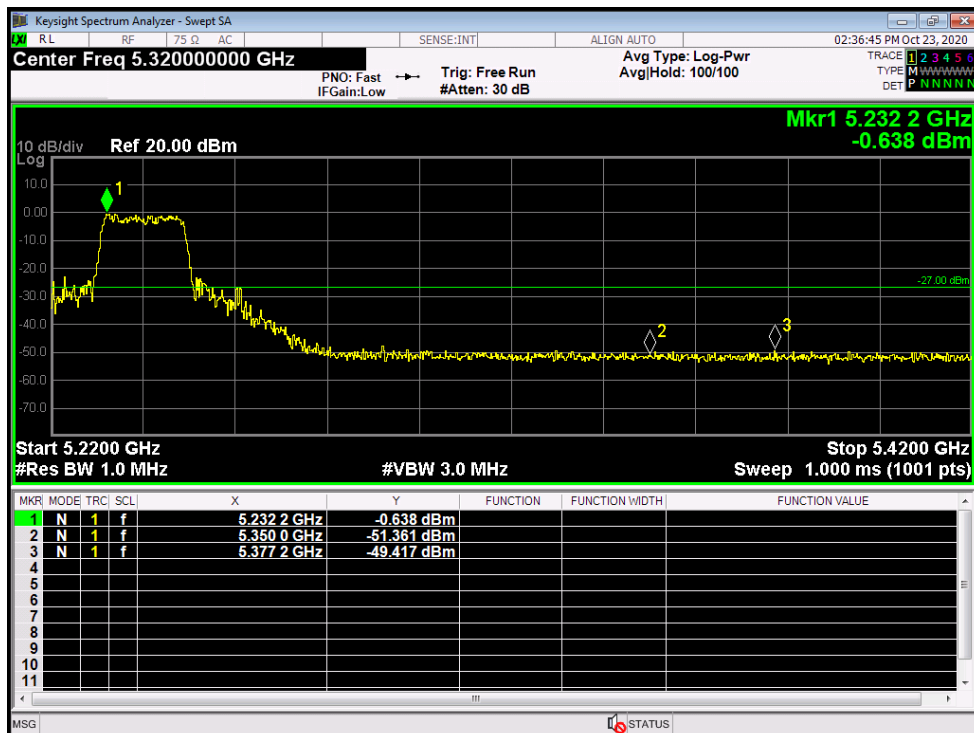
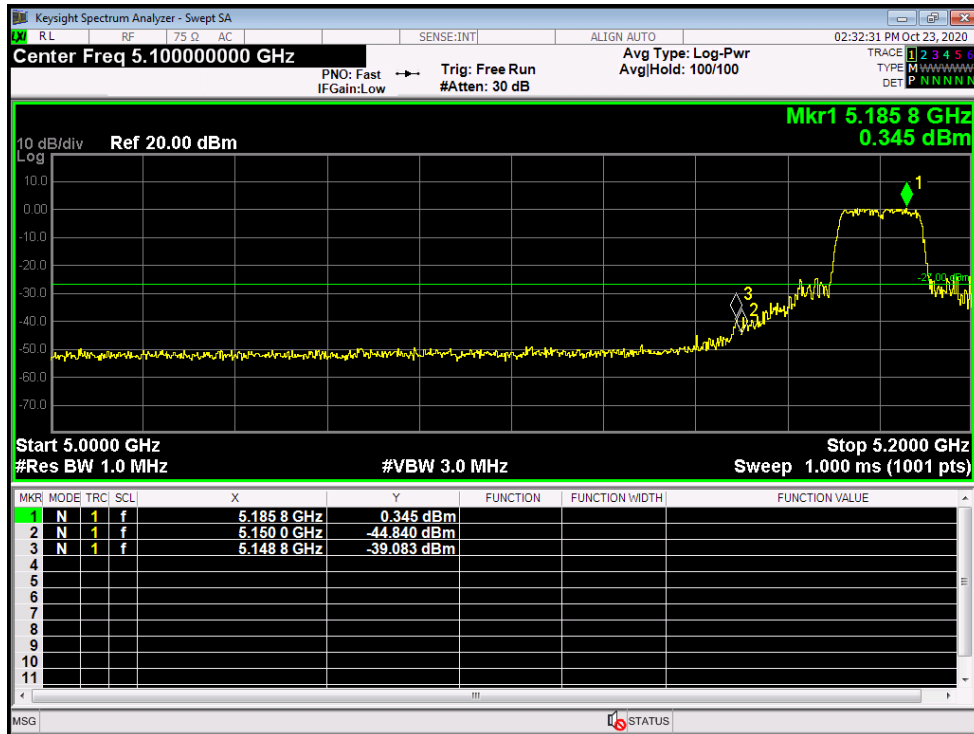
Emission Level= Read Level+ Correct Factor

(1) Conducted Test

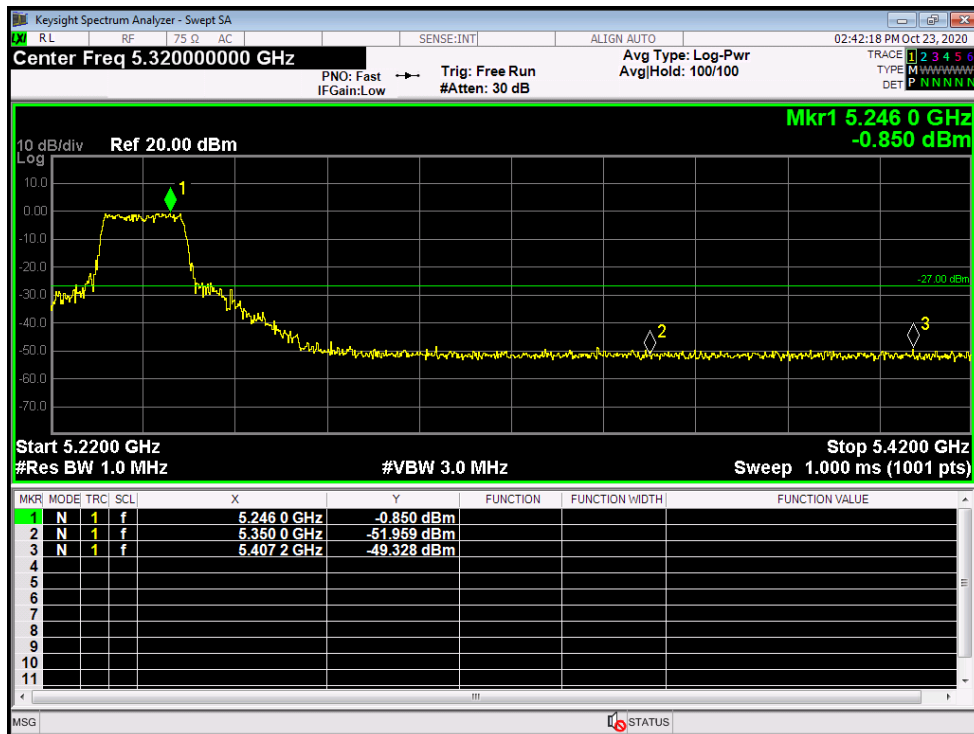
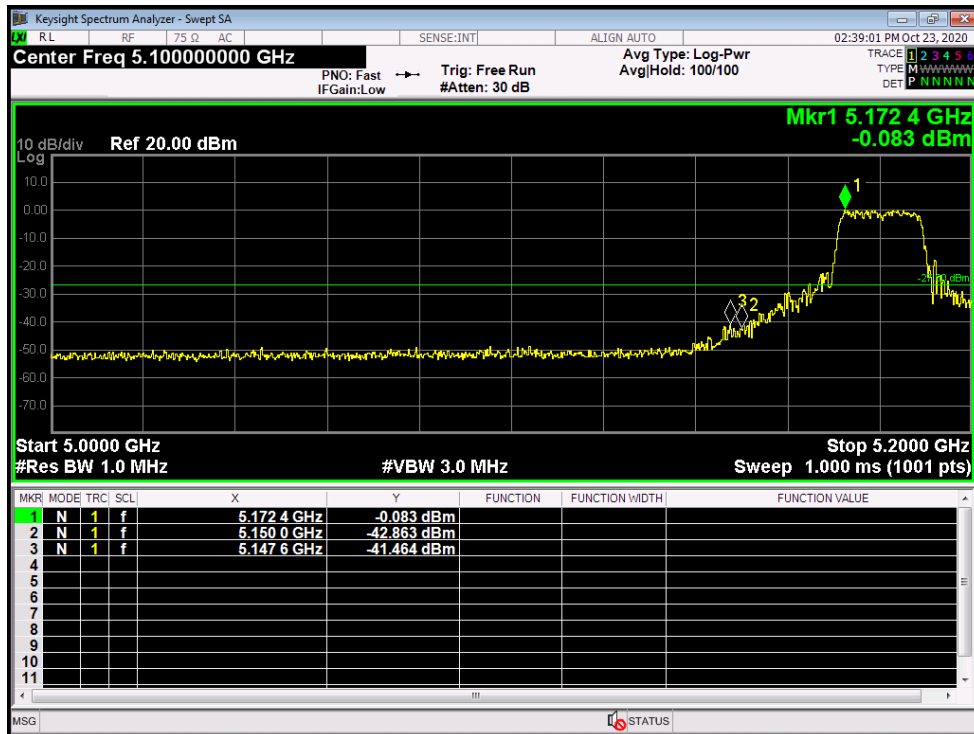
|               |                                                         |                    |     |
|---------------|---------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                   | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                 |                    |     |
| Test Mode:    | TX 802.11a mode(U-NII-1) / 5180MHz&5240MHz              |                    |     |
| Remark:       | The EUT is programmed in continuously transmitting mode |                    |     |



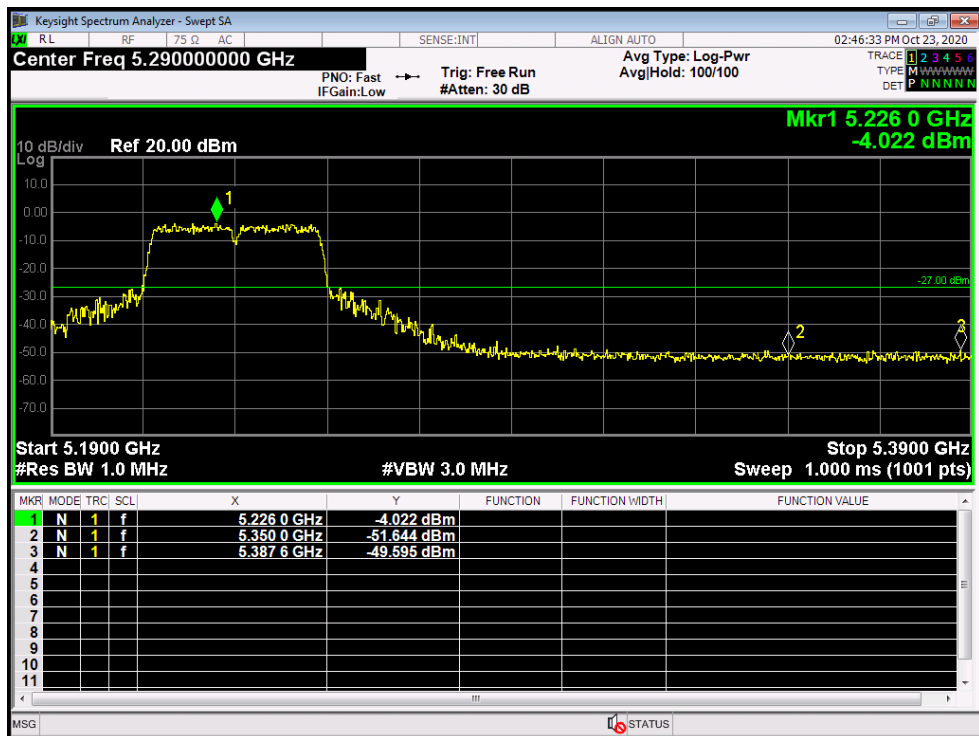
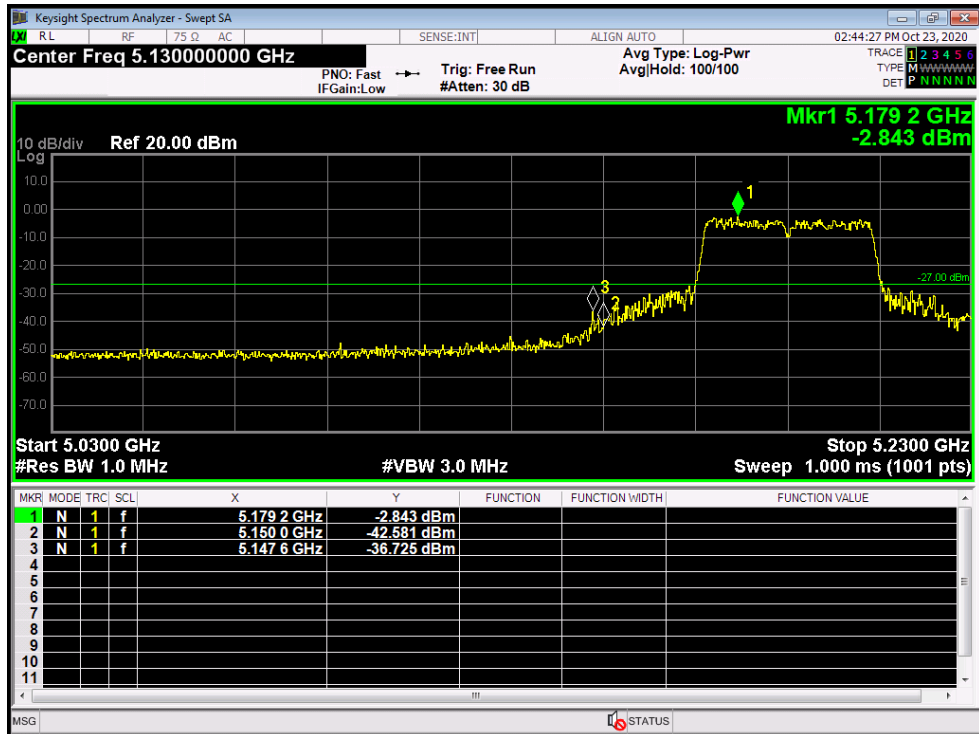
|               |                                                         |                    |     |
|---------------|---------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                   | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                 |                    |     |
| Test Mode:    | TX 802.11n(HT20) mode(U-NII-1) / 5180MHz&5240MHz        |                    |     |
| Remark:       | The EUT is programmed in continuously transmitting mode |                    |     |



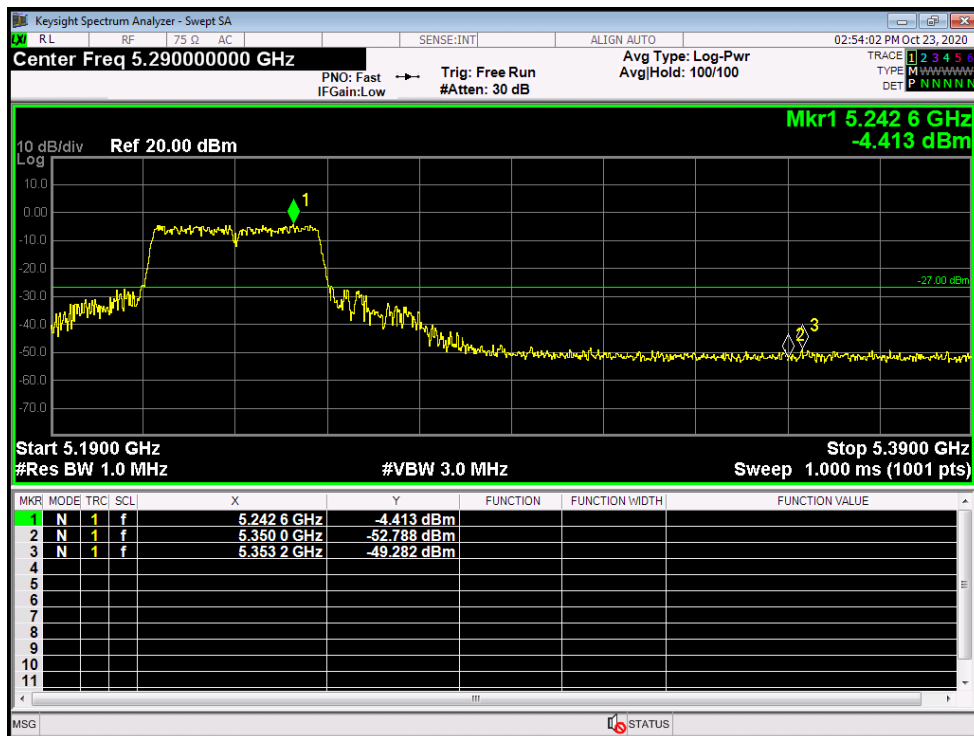
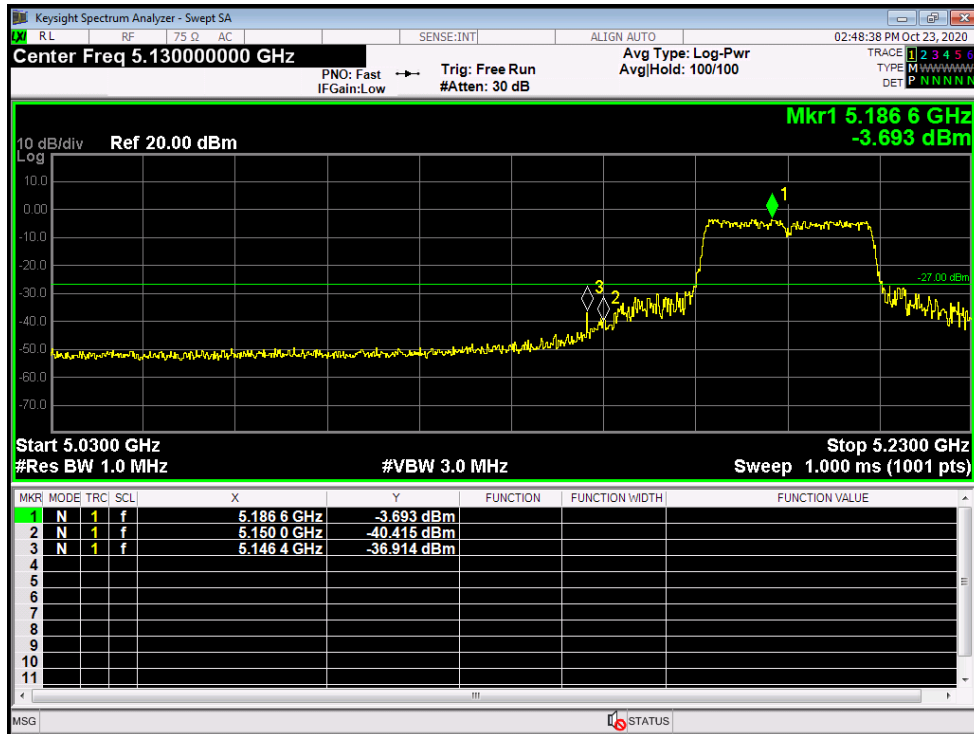
|               |                                                         |                    |     |
|---------------|---------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                   | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                 |                    |     |
| Test Mode:    | TX 802.11ac(VHT20) mode(U-NII-1) / 5180MHz&5240MHz      |                    |     |
| Remark:       | The EUT is programmed in continuously transmitting mode |                    |     |



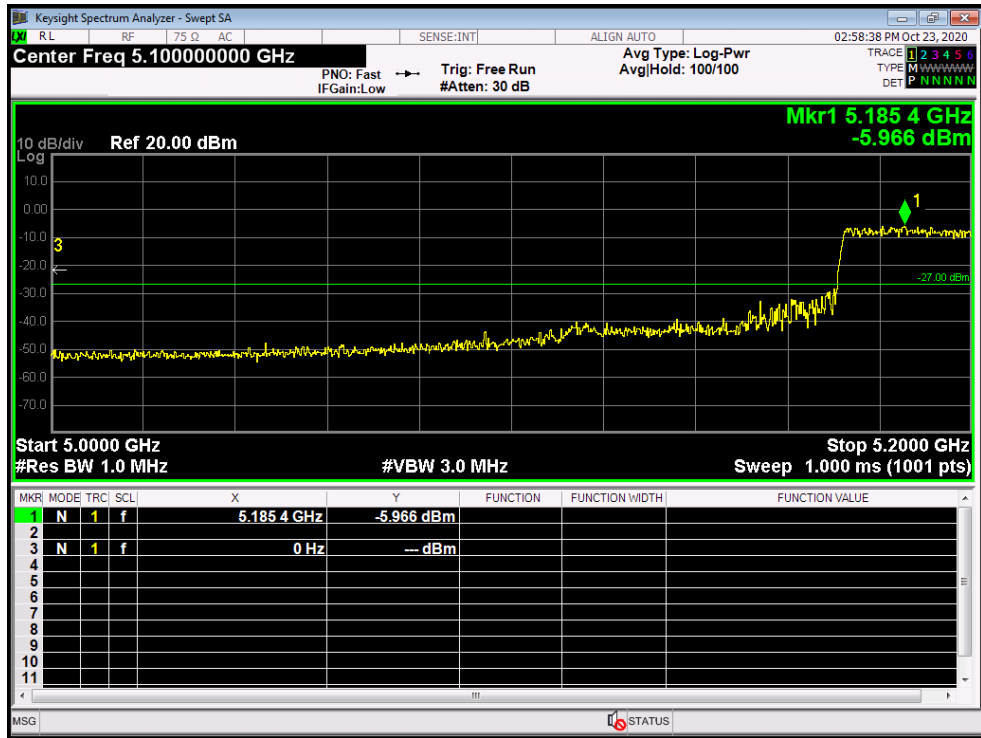
|               |                                                         |                    |     |
|---------------|---------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                   | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                 |                    |     |
| Test Mode:    | TX 802.11n(HT40) mode(U-NII-1) / 5190MHz&5230MHz        |                    |     |
| Remark:       | The EUT is programmed in continuously transmitting mode |                    |     |



|               |                                                         |                    |     |
|---------------|---------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                   | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                 |                    |     |
| Test Mode:    | TX 802.11ac(VHT40) mode(U-NII-1) / 5190MHz&5230MHz      |                    |     |
| Remark:       | The EUT is programmed in continuously transmitting mode |                    |     |



|               |                                                         |                    |     |
|---------------|---------------------------------------------------------|--------------------|-----|
| Temperature:  | 25 °C                                                   | Relative Humidity: | 55% |
| Test Voltage: | DC 3.7V                                                 |                    |     |
| Test Mode:    | TX 802.11ac(VHT80) mode(U-NII-1) / 5210MHz              |                    |     |
| Remark:       | The EUT is programmed in continuously transmitting mode |                    |     |



## Attachment D--Bandwidth Test Data

|               |                           |                      |                     |
|---------------|---------------------------|----------------------|---------------------|
| Temperature:  | 25 °C                     | Relative Humidity:   | 55%                 |
| Test Voltage: | DC 3.7V                   |                      |                     |
| Test Mode:    | TX 802.11a Mode (U-NII-1) |                      |                     |
| Channel       | Frequency (MHz)           | 26dB Bandwidth (MHz) | 99% Bandwidth (MHz) |
| 36            | 5180                      | 23.86                | 16.664              |
| 40            | 5200                      | 23.07                | 16.628              |
| 48            | 5240                      | 25.89                | 16.662              |

802.11a Mode

5180 MHz

Keysight Spectrum Analyzer - Occupied BW

R L RF 75 Ω AC

SENSE:INT

ALIGN AUTO

02:20:59 PM Oct 23, 2020

Center Freq 5.180000000 GHz

Center Freq: 5.180000000 GHz

Trig: Free Run

Avg|Hold: 100/100

Radio Std: None

#IF Gain: Low

#Atten: 30 dB

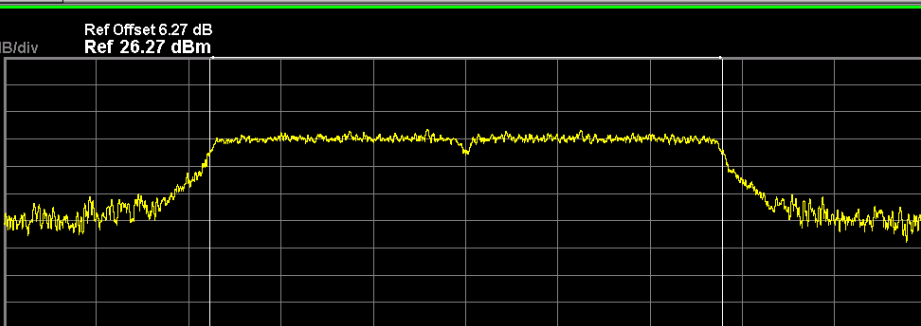
Radio Device: BTS

10 dB/div

Log

Ref Offset 6.27 dB

Ref 26.27 dBm



Center 5.18 GHz

#Res BW 200 kHz

#VBW 620 kHz

Span 30 MHz

Sweep 1.333 ms

Occupied Bandwidth

16.664 MHz

Total Power

15.4 dBm

Transmit Freq Error

18.816 kHz

% of OBW Power

99.00 %

x dB Bandwidth

23.86 MHz

x dB

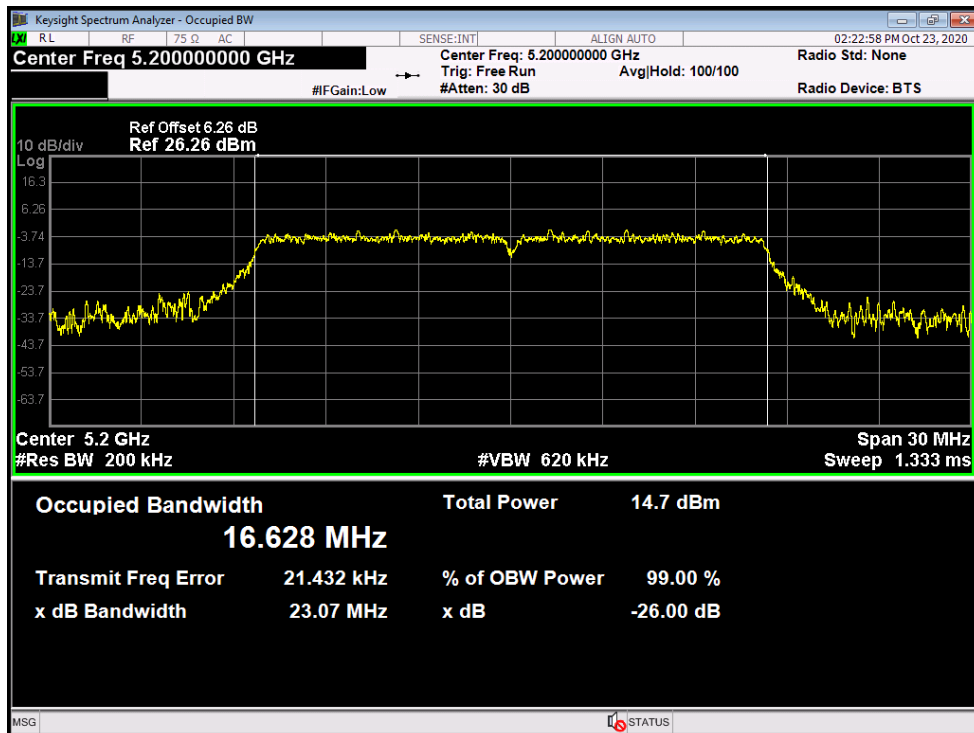
-26.00 dB

MSG

STATUS

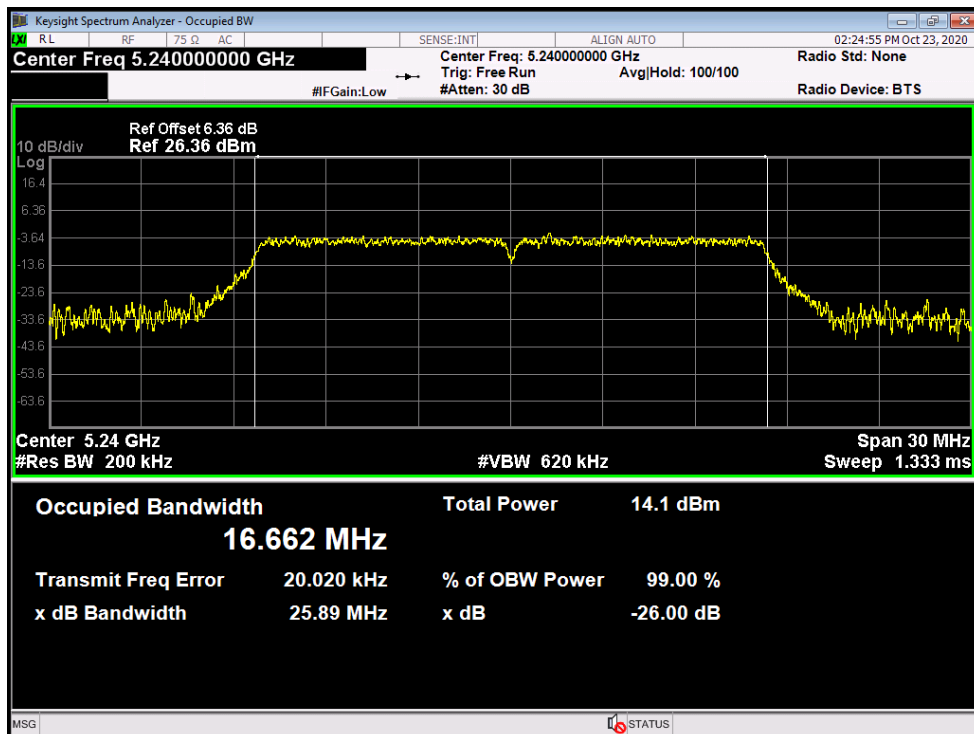
**802.11a Mode**

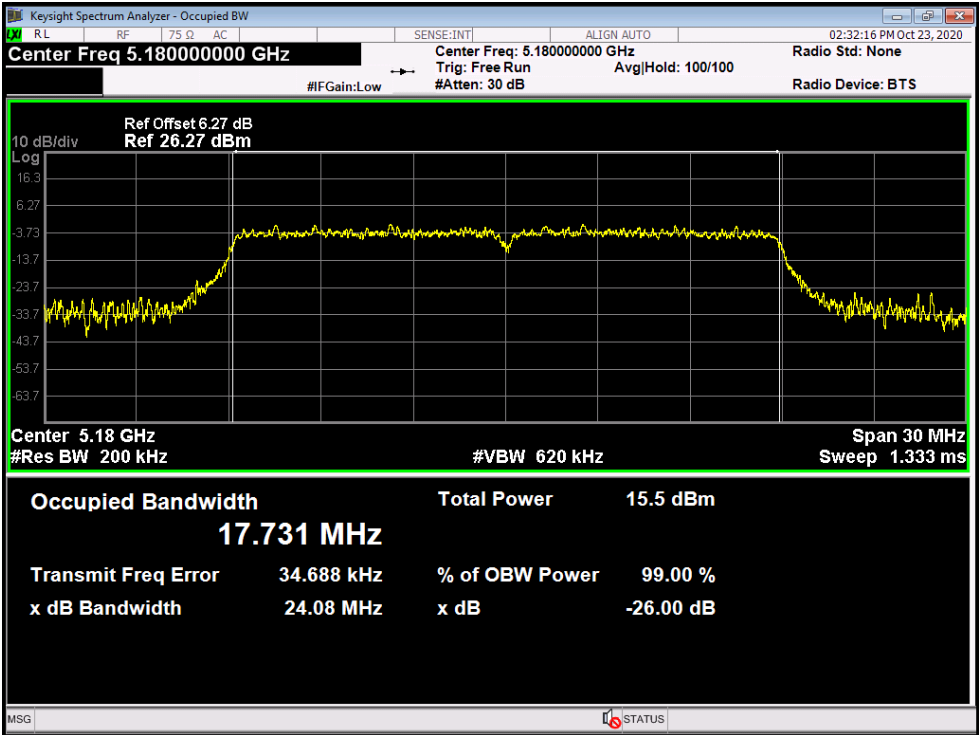
**5200 MHz**



**802.11a Mode**

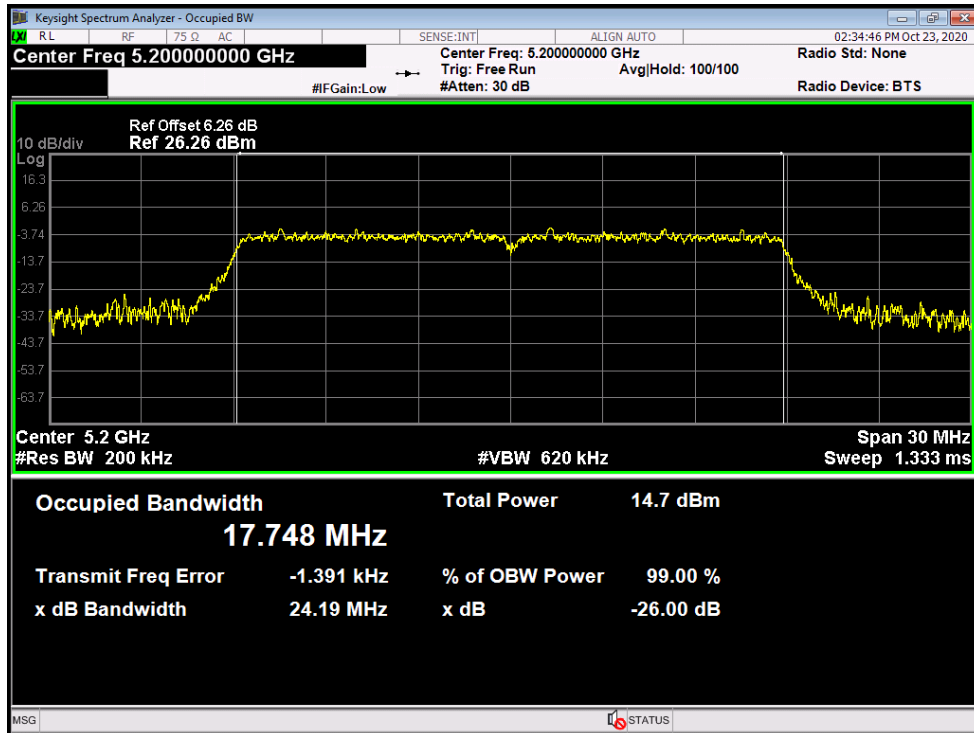
**5240 MHz**



| Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 25 °C                           | Relative Humidity:   | 55%                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------|---------------------|
| Test Voltage:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DC 3.7V                         |                      |                     |
| Test Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TX 802.11n(HT20) Mode (U-NII-1) |                      |                     |
| Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Frequency (MHz)                 | 26dB Bandwidth (MHz) | 99% Bandwidth (MHz) |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5180                            | 24.08                | 17.731              |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5200                            | 24.19                | 17.748              |
| 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5240                            | 27.25                | 17.781              |
| 802.11n(HT20) Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |                      |                     |
| 5180 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |                      |                     |
|  <p>The screenshot shows a Keysight Spectrum Analyzer interface. The main display is a log-frequency plot with a yellow signal trace. The center frequency is 5.18000000 GHz. The occupied bandwidth is 17.731 MHz. The total power is 15.5 dBm. The transmit frequency error is 34.688 kHz. The x dB bandwidth is 24.08 MHz. The % of OBW power is 99.00%. The x dB value is -26.00 dB. The span is 30 MHz. The sweep is 1.333 ms. The resolution bandwidth is 200 kHz. The video bandwidth is 620 kHz. The reference offset is 6.27 dB. The reference level is 26.27 dBm. The radio device is BTS. The radio standard is None. The trigger is Free Run. The average hold is 100/100. The attenuation is 30 dB. The sense is INT. The align is AUTO. The time is 02:32:16 PM Oct 23, 2020.</p> |                                 |                      |                     |

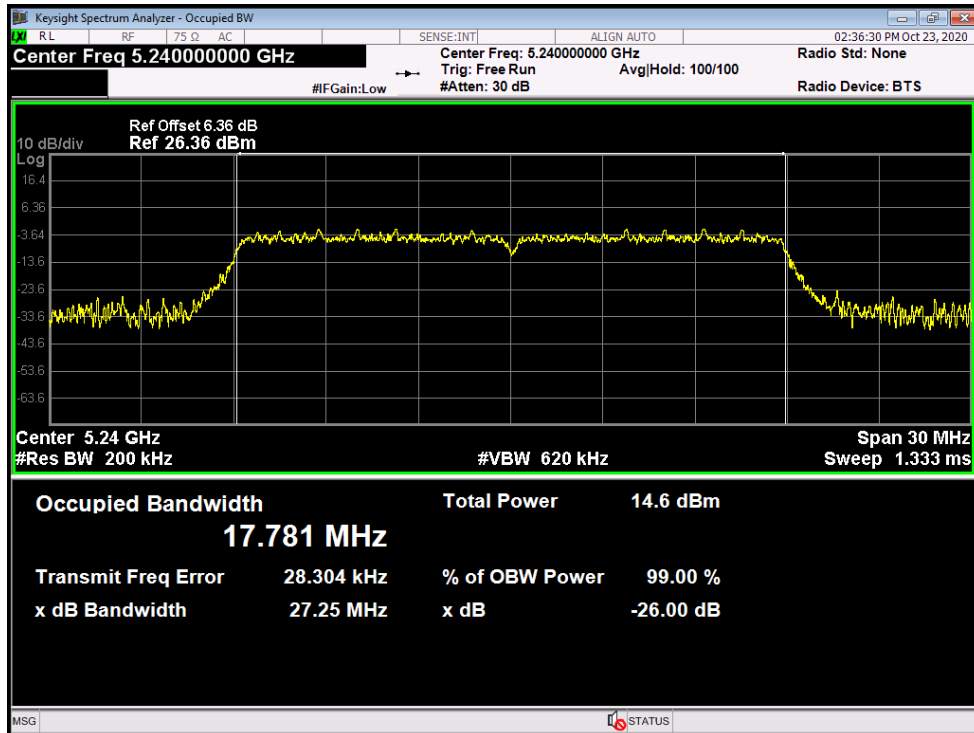
**802.11n(HT20) Mode**

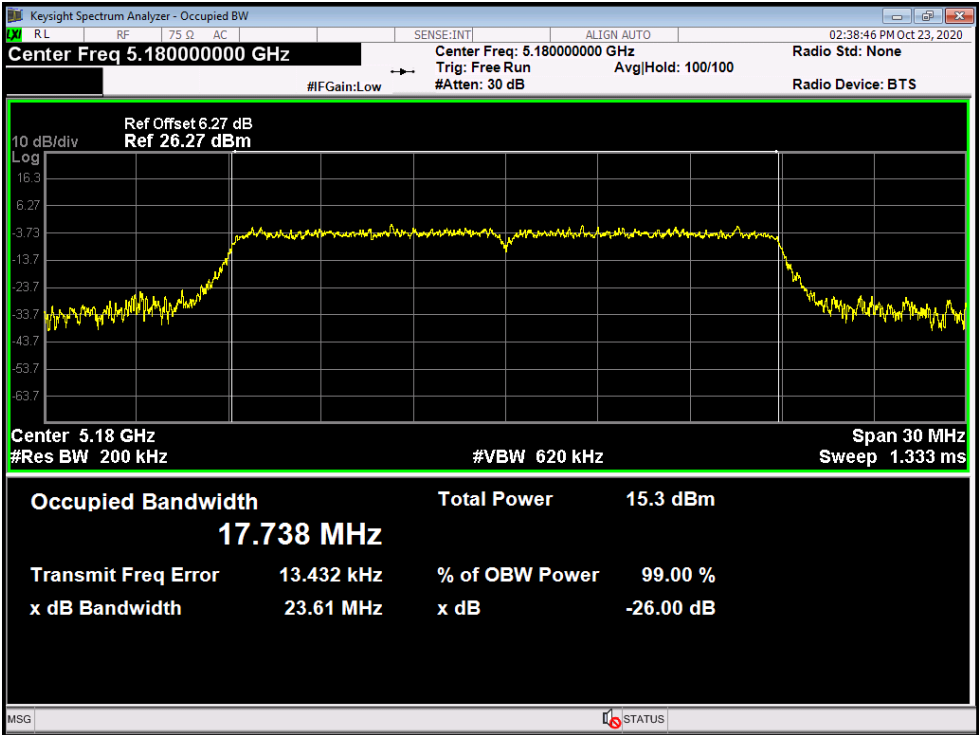
**5200 MHz**



**802.11n(HT20) Mode**

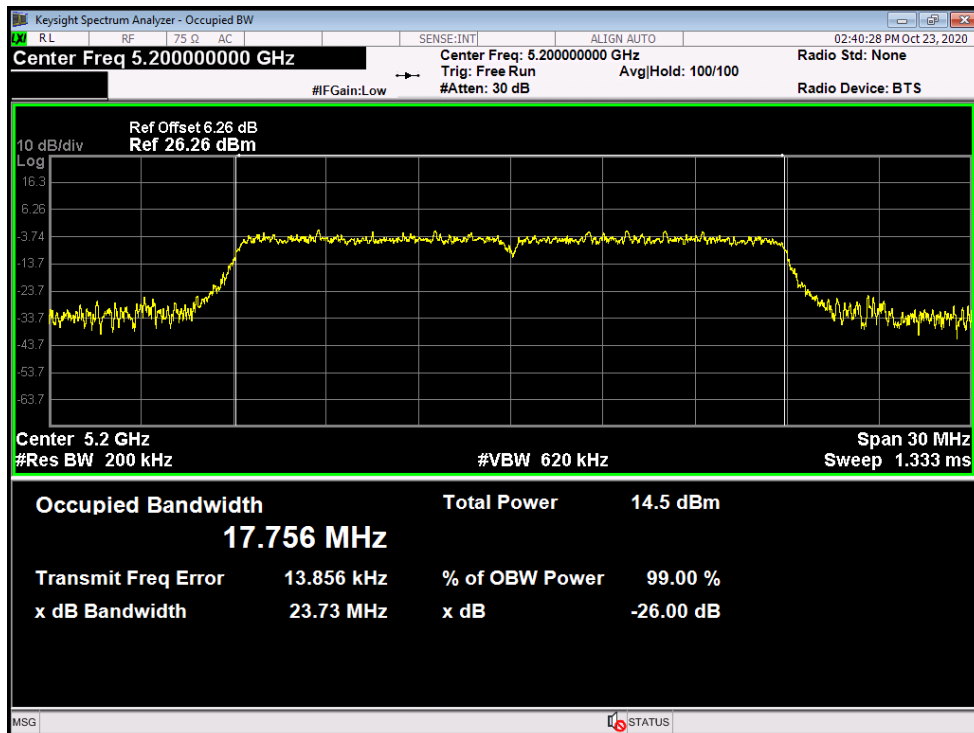
**5240 MHz**



| Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25 °C                             | Relative Humidity:   | 55%                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------|---------------------|
| Test Voltage:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DC 3.7V                           |                      |                     |
| Test Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TX 802.11ac(VHT20) Mode (U-NII-1) |                      |                     |
| Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Frequency (MHz)                   | 26dB Bandwidth (MHz) | 99% Bandwidth (MHz) |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5180                              | 23.61                | 17.738              |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5200                              | 23.73                | 17.756              |
| 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5240                              | 24.29                | 17.744              |
| 802.11ac(VHT20) Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                      |                     |
| 5180 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                      |                     |
|  <p>The screenshot displays a Keysight Spectrum Analyzer interface. The main plot shows a signal centered at 5.18 GHz with a span of 30 MHz. The signal is characterized by a flat top and sloped sides, typical of a modulated signal. The y-axis represents power in dBm, ranging from -63.7 to 16.3. The x-axis represents frequency in MHz. The 'Occupied Bandwidth' is highlighted as 17.738 MHz. Other parameters shown include 'Total Power' of 15.3 dBm, 'Transmit Freq Error' of 13.432 kHz, and '% of OBW Power' of 99.00%.</p> |                                   |                      |                     |

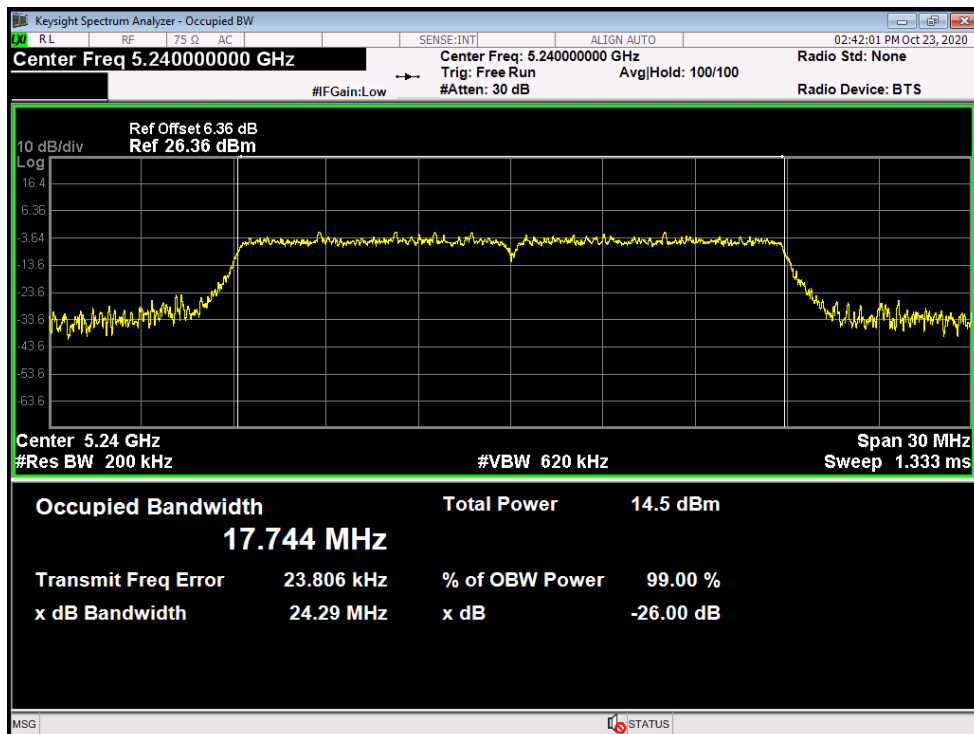
**802.11ac(VHT20) Mode**

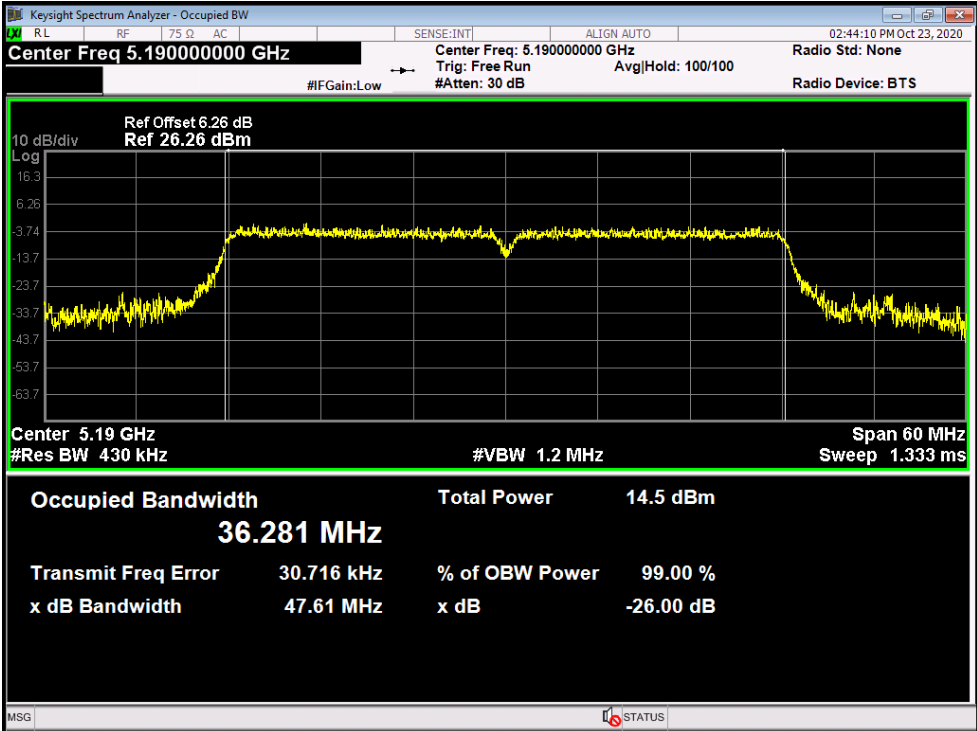
**5200 MHz**



**802.11ac(VHT20) Mode**

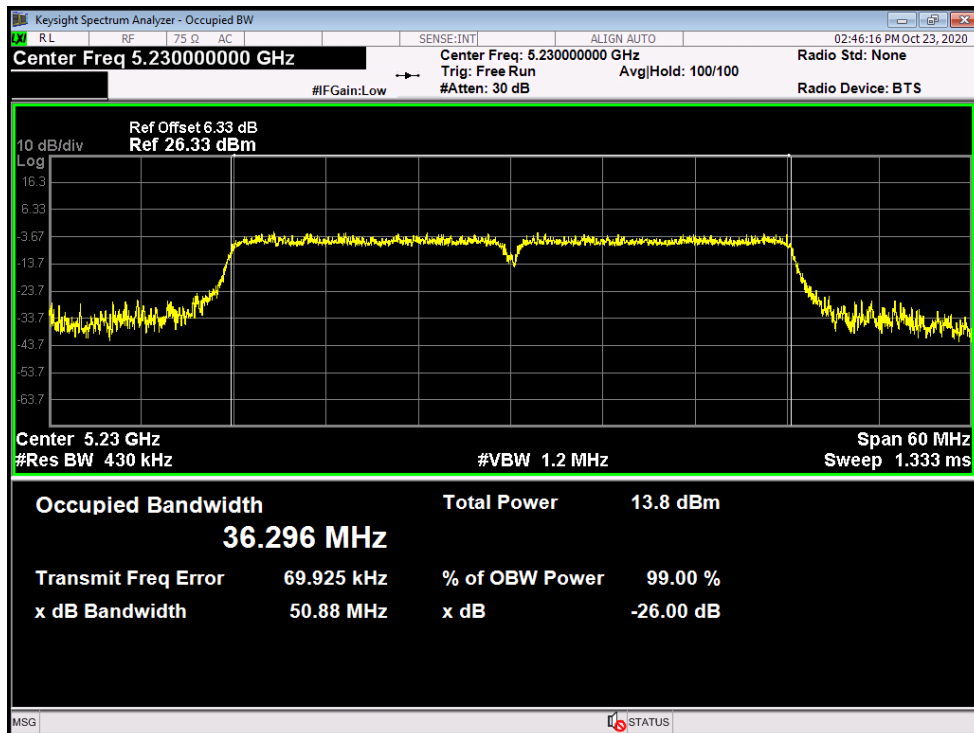
**5240 MHz**

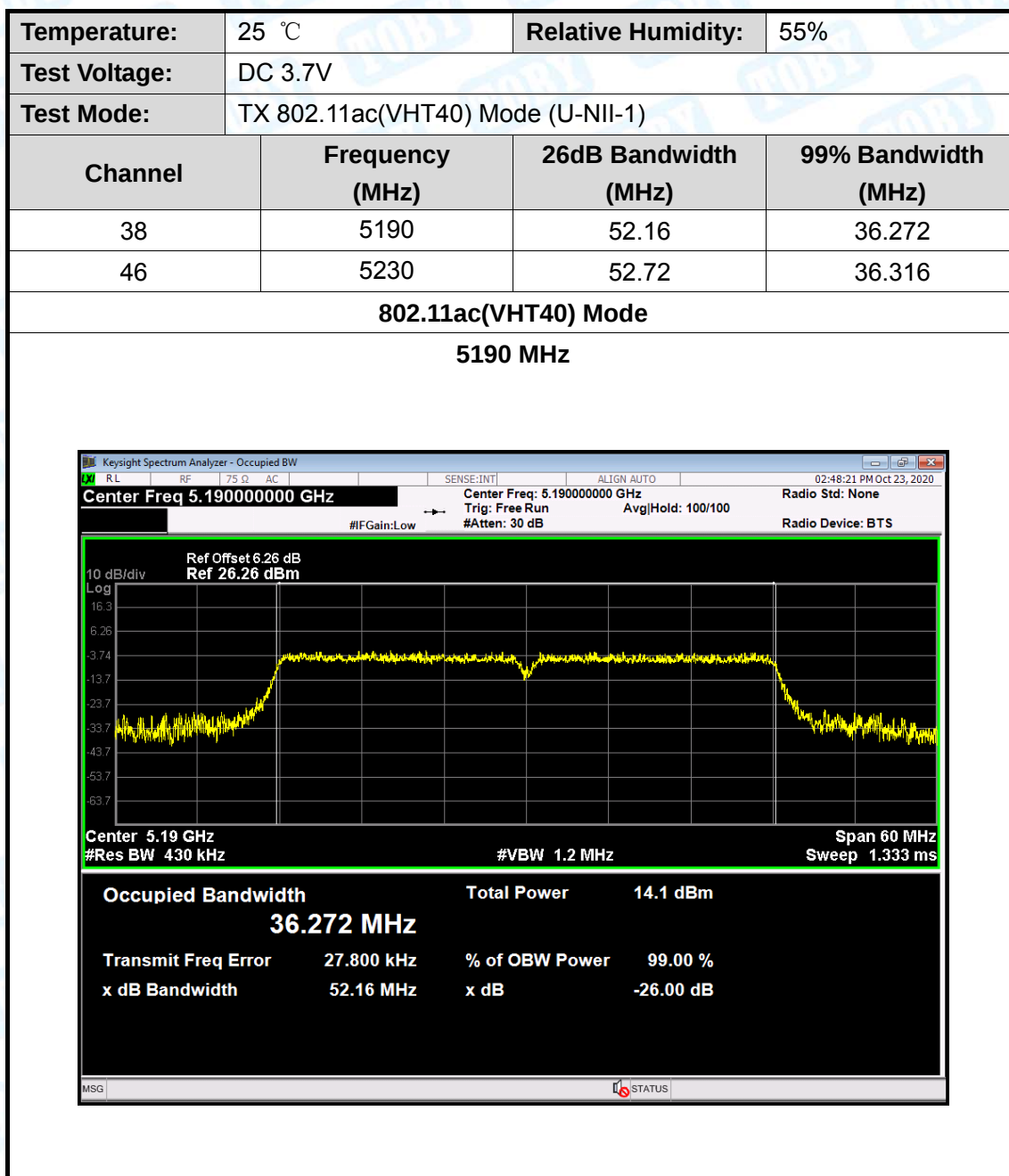


| Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25 °C                           | Relative Humidity:   | 55%                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------|---------------------|
| Test Voltage:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DC 3.7V                         |                      |                     |
| Test Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TX 802.11N(HT40) Mode (U-NII-1) |                      |                     |
| Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Frequency (MHz)                 | 26dB Bandwidth (MHz) | 99% Bandwidth (MHz) |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5190                            | 47.61                | 36.281              |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5230                            | 50.88                | 36.296              |
| 802.11N(HT40) Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |                      |                     |
| 5190 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                      |                     |
|  <p>Keysight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 5.190000000 GHz</p> <p>Center Freq: 5.190000000 GHz</p> <p>Trig: Free Run</p> <p>#Gain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 6.26 dB</p> <p>Ref 26.26 dBm</p> <p>Center 5.19 GHz</p> <p>#Res BW 430 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 60 MHz</p> <p>Sweep 1.333 ms</p> <p>Occupied Bandwidth 36.281 MHz</p> <p>Total Power 14.5 dBm</p> <p>Transmit Freq Error 30.716 kHz</p> <p>% of OBW Power 99.00 %</p> <p>x dB Bandwidth 47.61 MHz</p> <p>x dB -26.00 dB</p> |                                 |                      |                     |

**802.11N(HT40) Mode**

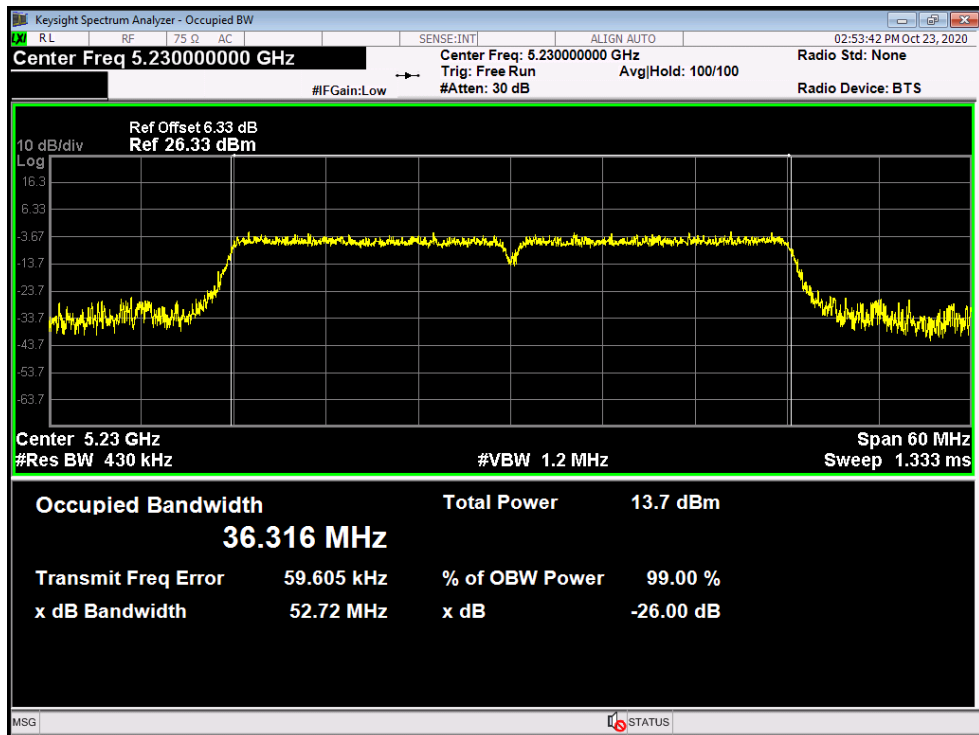
**5230 MHz**

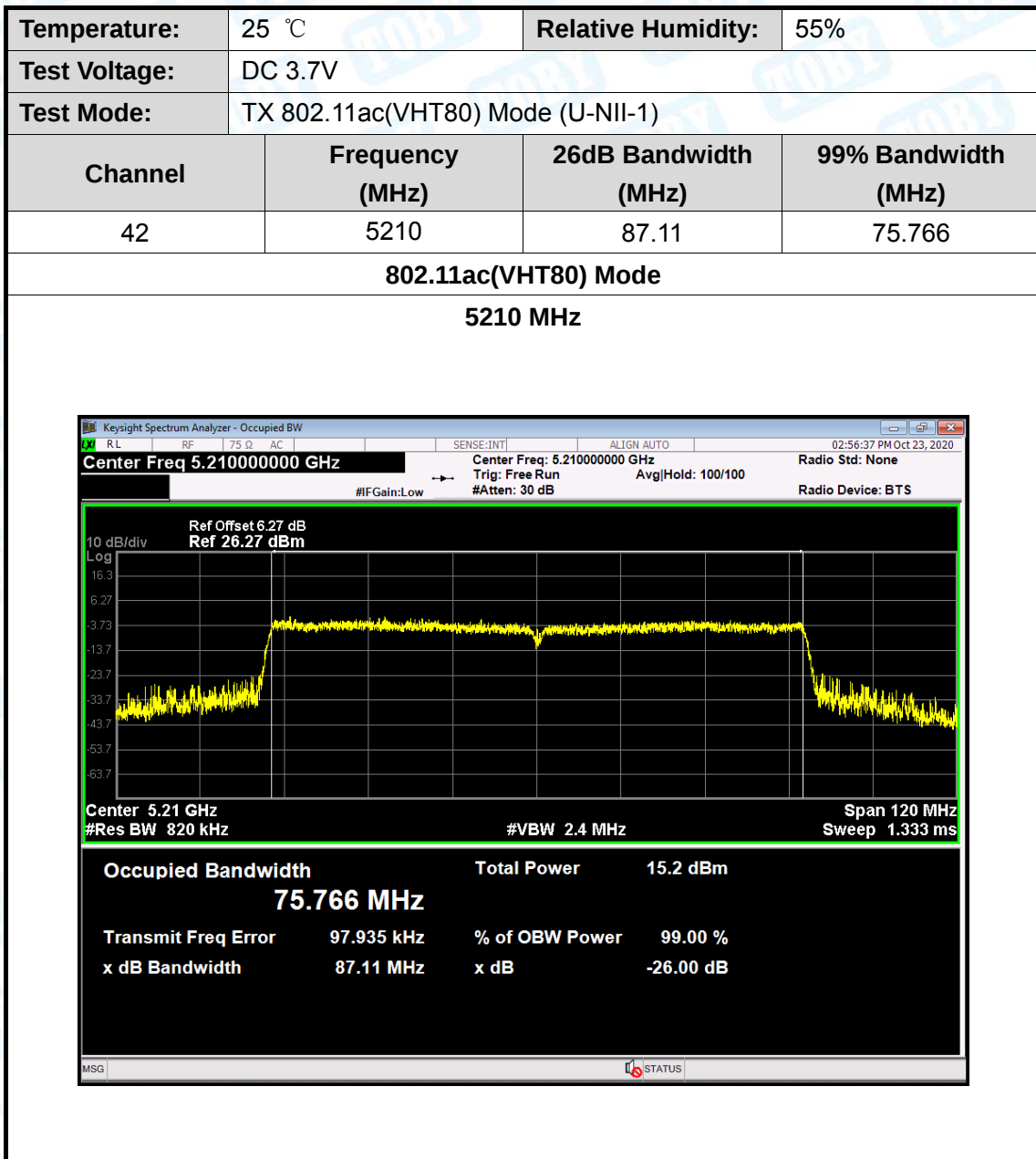




**802.11ac(VHT40) Mode**

**5230 MHz**



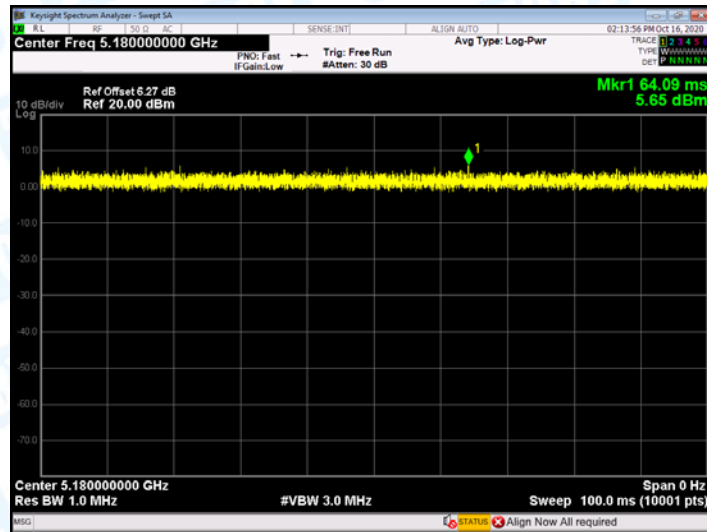


## Attachment E--AVG Output Power Test Data

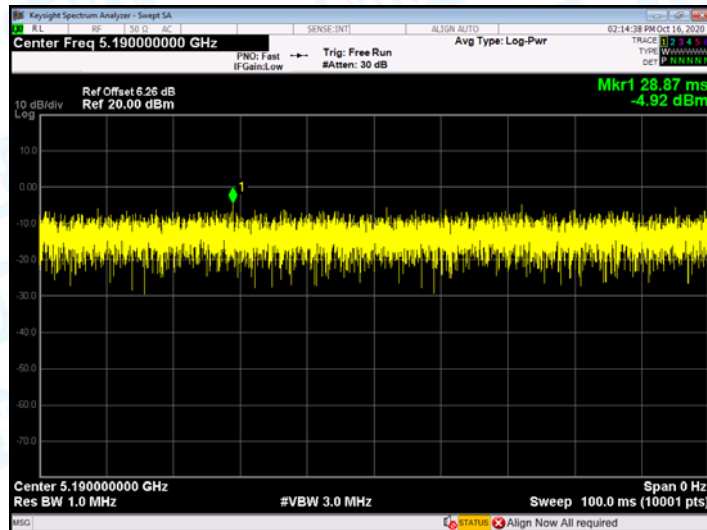
| Temperature:                                                                                    | 25 °C           | Relative Humidity:    | 55%              |                   |             |  |
|-------------------------------------------------------------------------------------------------|-----------------|-----------------------|------------------|-------------------|-------------|--|
| Test Voltage:                                                                                   | DC 3.7V         |                       |                  |                   |             |  |
| U-NII-1                                                                                         |                 |                       |                  |                   |             |  |
| Test Mode                                                                                       | Frequency (MHz) | Test Data             |                  |                   | Limit (dBm) |  |
|                                                                                                 |                 | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) |             |  |
| 802.11a                                                                                         | 5180            | 8.61                  | 0                | 8.61              | 24          |  |
|                                                                                                 | 5200            | 7.71                  | 0                | 7.71              |             |  |
|                                                                                                 | 5240            | 8.37                  | 0                | 8.37              |             |  |
| 802.11n (HT20)                                                                                  | 5180            | 8.58                  | 0                | 8.58              |             |  |
|                                                                                                 | 5200            | 7.77                  | 0                | 7.77              |             |  |
|                                                                                                 | 5240            | 8.11                  | 0                | 8.11              |             |  |
| 802.11ac (VHT20)                                                                                | 5180            | 8.76                  | 0                | 8.76              |             |  |
|                                                                                                 | 5200            | 8.15                  | 0                | 8.15              |             |  |
|                                                                                                 | 5240            | 8.45                  | 0                | 8.45              |             |  |
| 802.11n (HT40)                                                                                  | 5190            | 7.28                  | 0                | 7.28              |             |  |
|                                                                                                 | 5230            | 6.39                  | 0                | 6.39              |             |  |
| 802.11 ac(VHT40)                                                                                | 5190            | 7.13                  | 0                | 7.13              |             |  |
|                                                                                                 | 5230            | 6.78                  | 0                | 6.78              |             |  |
| 802.11 ac(VHT80)                                                                                | 5210            | 5.86                  | 0                | 5.86              |             |  |
| Result: PASS                                                                                    |                 |                       |                  |                   |             |  |
| Remark:<br>the Directional Gain=2.1dBi<6 dBi.<br>So P <sub>out</sub> =P <sub>limit</sub> =24dBm |                 |                       |                  |                   |             |  |

| Test Mode                  |                  | Duty cycle |
|----------------------------|------------------|------------|
| U-NII-1                    | 802.11 a         | >98%       |
|                            | 802.11 n(HT20)   |            |
|                            | 802.11 ac(VHT20) |            |
|                            | 802.11 n(HT40)   |            |
|                            | 802.11 ac(VHT40) |            |
|                            | 802.11 ac(VHT80) |            |
| Please see the next plots. |                  |            |

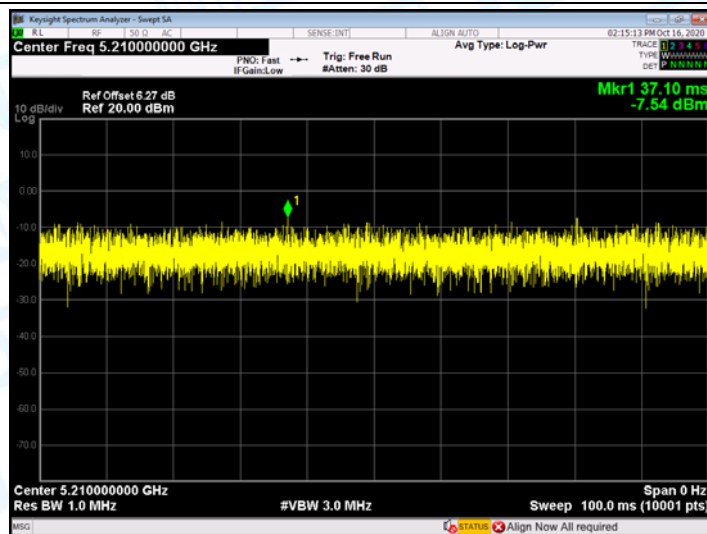
### 802.11 a



### 802.11 n(HT40)



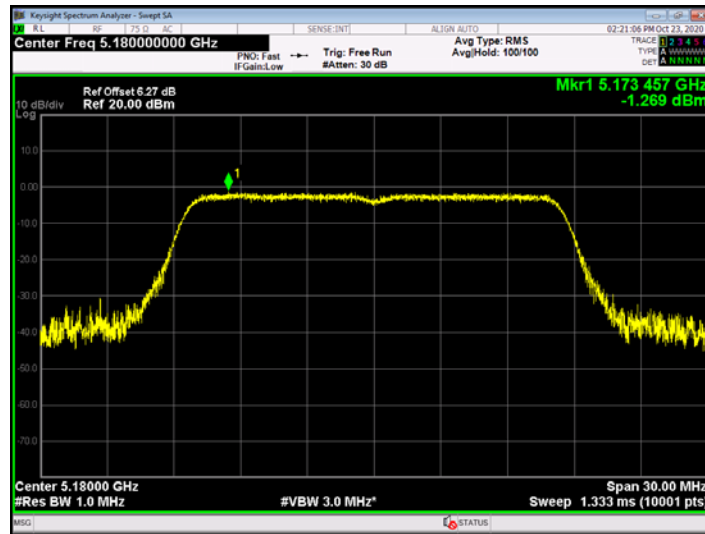
### 802.11 ac(VHT80)



## Attachment F-- Power Spectral Density Test Data

| Temperature:                                                                             | 25 °C           | Relative Humidity:      | 55%             |
|------------------------------------------------------------------------------------------|-----------------|-------------------------|-----------------|
| Test Voltage:                                                                            | DC 3.7V         |                         |                 |
| U-NII-1                                                                                  |                 |                         |                 |
| Test Mode                                                                                | Frequency (MHz) | Test Data               | Limit (dBm/MHz) |
|                                                                                          |                 | Power Density (dBm/MHz) |                 |
| 802.11a                                                                                  | 5180            | -1.269                  | 11              |
|                                                                                          | 5200            | -2.111                  |                 |
|                                                                                          | 5240            | -2.632                  |                 |
| 802.11n (HT20)                                                                           | 5180            | -1.363                  |                 |
|                                                                                          | 5200            | -2.349                  |                 |
|                                                                                          | 5240            | -2.501                  |                 |
| 802.11ac (VHT20)                                                                         | 5180            | -1.696                  |                 |
|                                                                                          | 5200            | -2.377                  |                 |
|                                                                                          | 5240            | -2.401                  |                 |
| 802.11n (HT40)                                                                           | 5190            | -6.102                  |                 |
|                                                                                          | 5230            | -7.086                  |                 |
| 802.11ac(VHT40)                                                                          | 5190            | -6.426                  |                 |
|                                                                                          | 5230            | -6.939                  |                 |
| 802.11ac(VHT80)                                                                          | 5210            | -9.915                  |                 |
| Result: PASS                                                                             |                 |                         |                 |
| Remark:<br>the Directional Gain=2.1dBi<6 dBi.<br>So P <sub>out</sub> =P <sub>limit</sub> |                 |                         |                 |
| Test plots please refer to below pages:                                                  |                 |                         |                 |

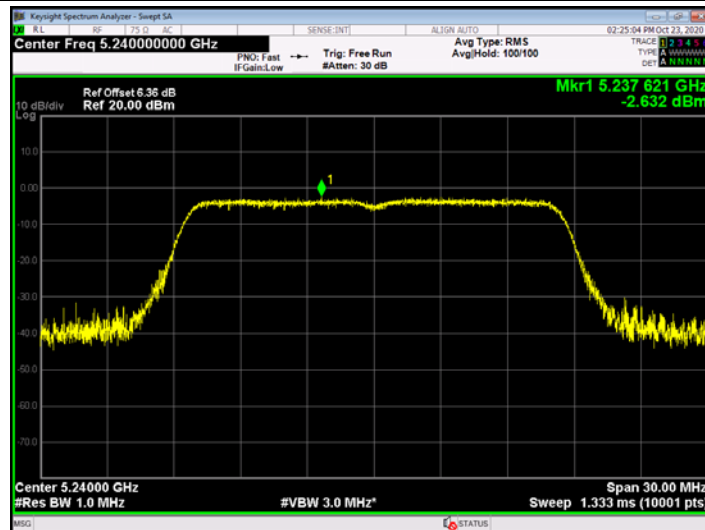
802.11 a 5180 MHz



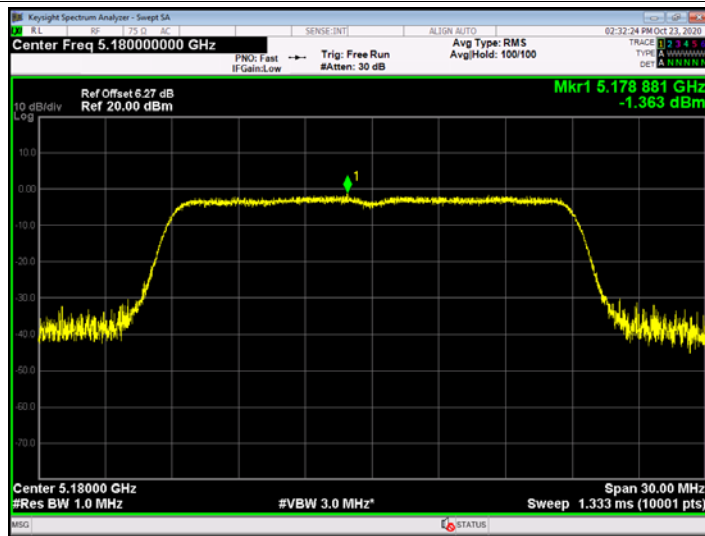
802.11 a 5200 MHz



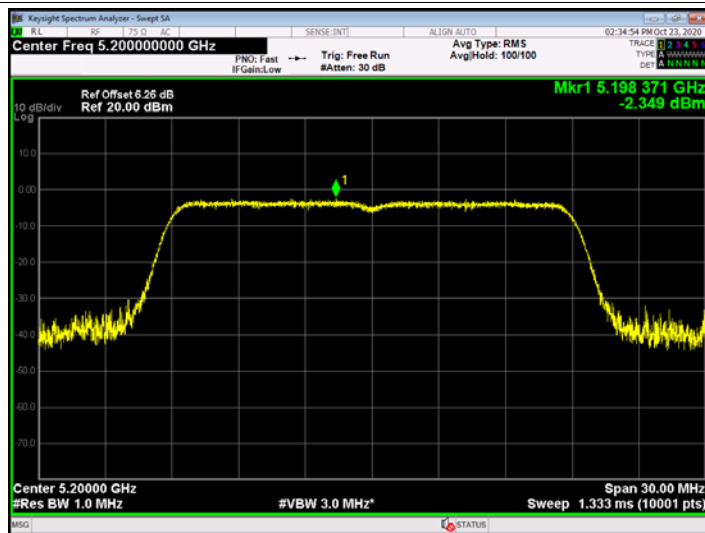
802.11 a 5240 MHz



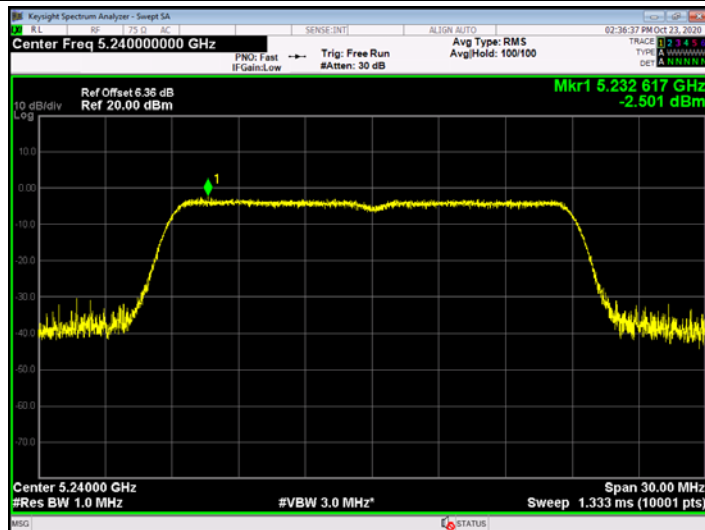
### 802.11 n(HT20) 5180 MHz



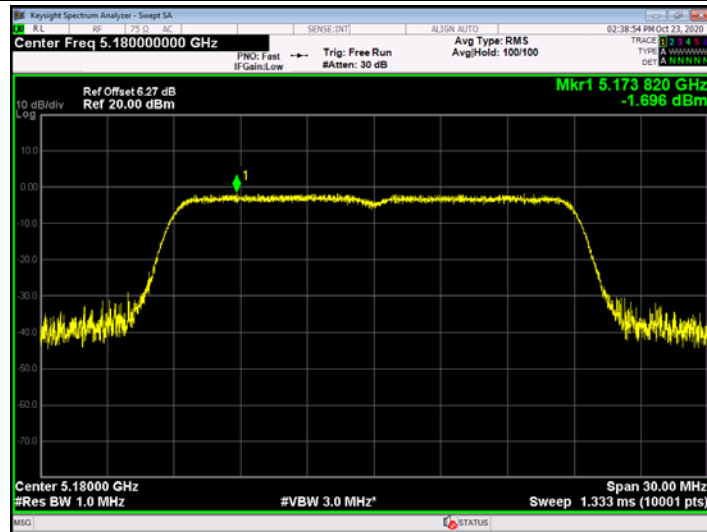
### 802.11 n(HT20) 5200 MHz



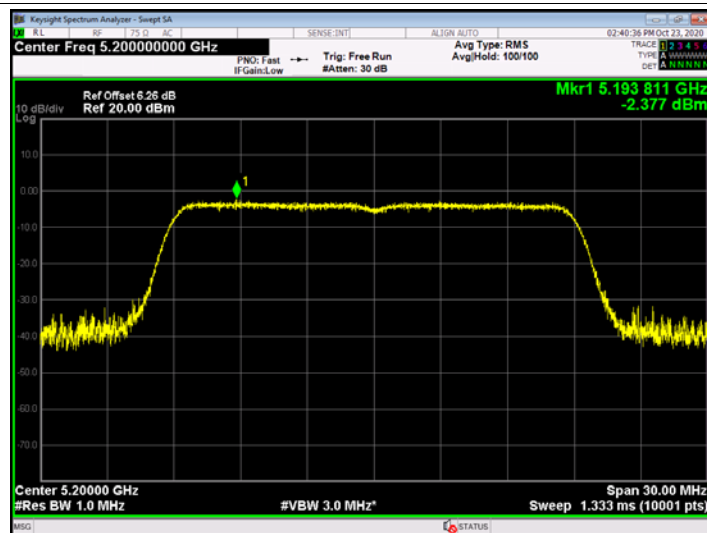
### 802.11 n(HT20) 5240 MHz



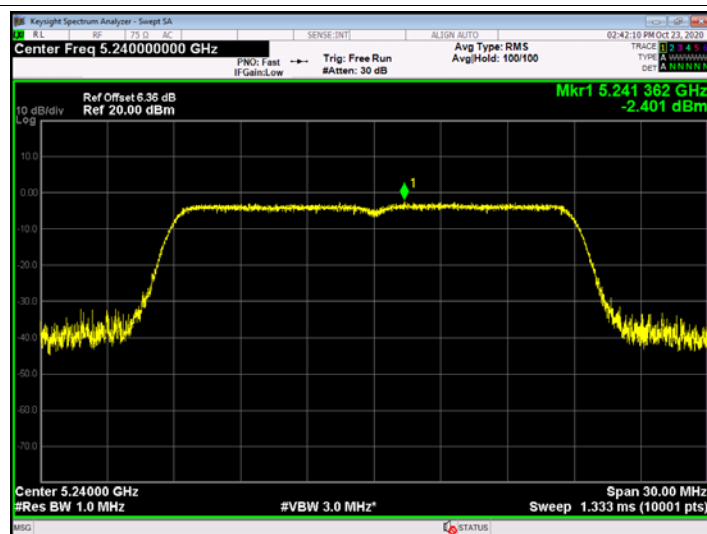
802.11 ac(VHT20) 5180 MHz



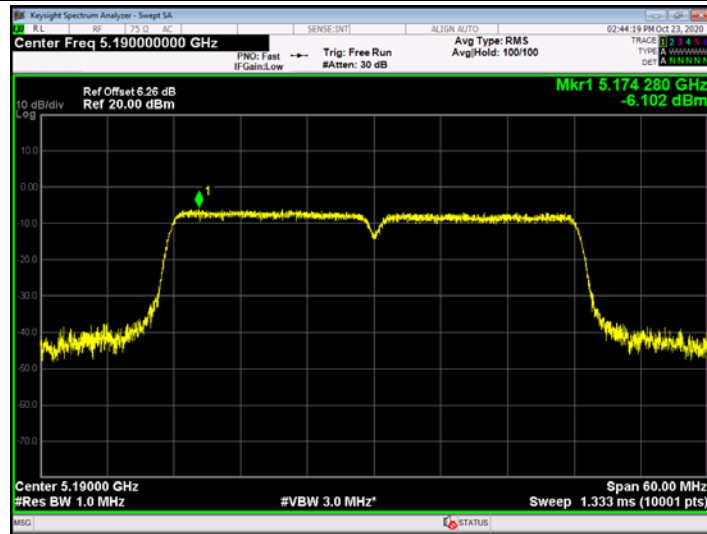
802.11 ac(VHT20) 5200 MHz



802.11 ac(VHT20) 5240 MHz



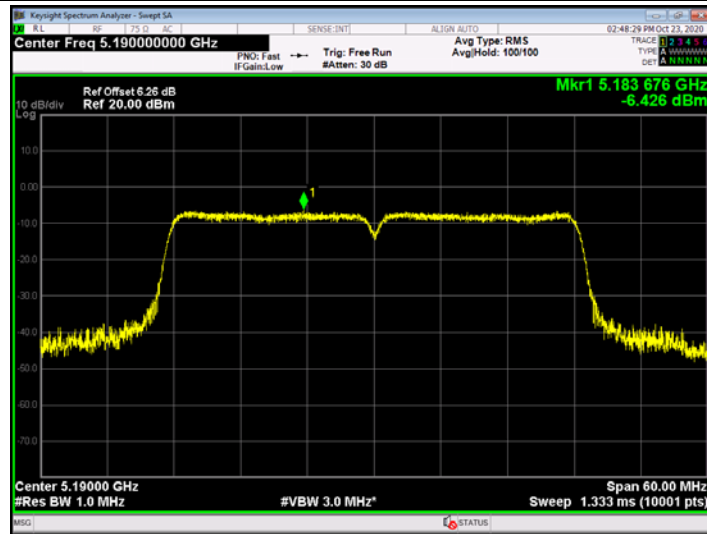
802.11 n(HT40) 5190 MHz



802.11 n(HT40) 5230 MHz



802.11 ac(VHT40) 5190 MHz



802.11 ac(VHT40) 5230 MHz



802.11 ac(VHT80) 5210 MHz



## Attachment G----Frequency Stability Measurement Data

Only show the worst case 802.11 a Mode 5180MHz.

| 801.11a U-NII-1: 5180 MHz           |                             |
|-------------------------------------|-----------------------------|
| Voltage vs. Frequency Stability     |                             |
| Voltage (V)                         | Measurement Frequency (MHz) |
| 3.5                                 | 5180.0100                   |
| 3.7                                 | 5180.0000                   |
| 4.2                                 | 5180.0200                   |
| Limit Range (MHz)                   | 5150-5250                   |
| Result                              | PASS                        |
| Temperature vs. Frequency Stability |                             |
| Temperature (°C)                    | Measurement Frequency (MHz) |
| 0                                   | 5180.0000                   |
| 10                                  | 5180.0500                   |
| 20                                  | 5180.0000                   |
| 30                                  | 5180.0200                   |
| 40                                  | 5180.0200                   |
| 50                                  | 5180.0100                   |
| Limit Range (MHz)                   | 5150-5250                   |
| Result                              | PASS                        |

-----END OF REPORT-----