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# FCC Test Report

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Report No.: AGC13525230201FE08

**FCC ID** : 2AATLK265B-PR  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : WiFi/BT module  
**BRAND NAME** : FN-LINK  
**MODEL NAME** : K265B-PR  
**APPLICANT** : FN-LINK TECHNOLOGY LIMITED  
**DATE OF ISSUE** : Jul. 10, 2023  
**STANDARD(S)** : FCC Part 15 Subpart E §15.407  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Attestation of Global Compliance(Shenzhen)Co., Ltd  
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



### REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | Jul. 10, 2023 | Valid         | Initial Release |

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### 1. VERIFICATION OF CONFORMITY

|                                     |  |
|-------------------------------------|--|
| <b>Applicant</b>                    | FN-LINK TECHNOLOGY LIMITED   |
| <b>Address</b>                      | No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA |
| <b>Manufacturer</b>                 | FN-LINK TECHNOLOGY LIMITED   |
| <b>Address</b>                      | No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA |
| <b>Factory</b>                      | FN-LINK TECHNOLOGY LIMITED   |
| <b>Address</b>                      | No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA |
| <b>Product Designation</b>          | WiFi/BT module   |
| <b>Brand Name</b>                   | FN-LINK  |
| <b>Test Model</b>                   | K265B-PR   |
| <b>Date of receipt of test item</b> | Feb. 12, 2023  |
| <b>Date of Test</b>                 | Feb. 12, 2023 to Jul. 10, 2023   |
| <b>Deviation</b>                    | No any deviation from the test method  |
| <b>Condition of Test Sample</b>     | Normal   |
| <b>Test Result</b>                  | Pass   |
| <b>Report Template</b>              | AGCRT-US-BGN/RF  |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

|             |  |               |
|-------------|--|---------------|
| Prepared By | <br><hr/> Alan Duan<br>(Project Engineer)   | Jul. 10, 2023 |
| Reviewed By | <br><hr/> Calvin Liu<br>(Reviewer)          | Jul. 10, 2023 |
| Approved By | <br><hr/> Max Zhang<br>(Authorized Officer) | Jul. 10, 2023 |

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

|                              |   |
|------------------------------|---|
| <b>Equipment Type</b>        | <input type="checkbox"/> Outdoor access points <input type="checkbox"/> Indoor access points<br><input type="checkbox"/> Fixed P2P access points <input checked="" type="checkbox"/> Client devices   |
| <b>Operation Frequency</b>   | <input checked="" type="checkbox"/> U-NII 1:5150MHz~5250MHz <input checked="" type="checkbox"/> U-NII 2A: 5250MHz~5350MHz<br><input checked="" type="checkbox"/> U-NII 2C:5470MHz~5725MHz <input checked="" type="checkbox"/> U-NII 3: 5725MHz~5850MHz                      |
| <b>DFS Design Type</b>       | <input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection <input checked="" type="checkbox"/> Slave without radar detection   |
| <b>TPC Function</b>          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |
| <b>Hardware Version</b>      | 1.0   |
| <b>Software Version</b>      | 1.0   |
| <b>Test Frequency Range:</b> | For 802.11a/n/ax-HT20-VHT20: 5180~5240MHz, 5260~5320MHz, 5500~5720MHz, 5745~5825MHz<br>For 802.11n/ax-HT40-HE 40: 5190~5230MHz, 5270~5310MHz, 5510~5710MHz, 5755~5795MHz<br>For 802.11ac/ax-VHT80-HE80: 5210MHz, 5290MHz, 5530~5690MHz, 5775MHz                             |
| <b>Output Power-SISO</b>     | IEEE 802.11a(HT20):9.98dBm; IEEE 802.11n(HT20):9.79dBm;<br>IEEE802.11n(HT40):9.20dBm; IEEE 802.11ac(VHT20):10.24dBm;<br>IEEE802.11ac(VHT40):9.14dBm; IEEE802.11ac(VHT80):8.65dBm;<br>IEEE802.11ax(HE20):10.27dBm; IEEE802.11ax(HE40):8.96dBm;<br>IEEE802.11ax(HE80):8.46dBm |
| <b>Output Power-MIMO</b>     | IEEE 802.11n(HT20):12.83dBm; IEEE802.11n(HT40):12.04dBm;<br>IEEE 802.11ac(VHT20):12.75dBm; IEEE802.11ac(VHT40):12.14dBm;<br>IEEE802.11ac(VHT80):11.28dBm; IEEE802.11ax(HE20):12.81dBm;<br>IEEE802.11ax(HE40):11.85dBm; IEEE802.11ax(HE80):11.19dBm                          |
| <b>Modulation</b>            | 802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM<br>802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM<br>802.11ax :(1024-QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDMA  |
| <b>Data Rate</b>             | 802.11a: 6/9/12/18/24/36/48/54Mbps;<br>802.11n: up to 300Mbps;<br>802.11ac: up to 866.6Mbps;<br>802.11ax: up to 1201Mbps  |
| <b>Number of channels</b>    | 7 channels of U-NII-1 Band; 7 channels of U-NII-2A Band<br>21 channels of U-NII-2C Band; 8 channels of U-NII-3 Band   |
| <b>Antenna Designation</b>   | FPC antenna (Comply with requirements of the FCC part 15.203)   |
| <b>Antenna Gain</b>          | Refer to Chapter 2.8 of the report.   |
| <b>Power Supply</b>          | DC 12V by adapter   |

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## 2.2. TABLE OF CARRIER FREQUENCIES

For 5180~5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 36      | 5180 MHz  | 44      | 5220 MHz  |
| 40      | 5200 MHz  | 48      | 5240 MHz  |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 38      | 5190 MHz  | 46      | 5230 MHz  |

1 channel is provided for 802.11ac (VHT80), 802.11ax (VHT80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 42      | 5210 MHz  | --      | --        |

For 5260~5320MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 52      | 5260 MHz  | 60      | 5300 MHz  |
| 56      | 5280 MHz  | 64      | 5320 MHz  |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 54      | 5270 MHz  | 62      | 5310 MHz  |

1 channel is provided for 802.11ac (VHT80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 58      | 5290 MHz  | --      | --        |

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**For 5500~5720MHz:**

**12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):**

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 100     | 5500 MHz  | 124     | 5620 MHz  |
| 104     | 5520 MHz  | 128     | 5640 MHz  |
| 108     | 5540 MHz  | 132     | 5660 MHz  |
| 112     | 5560 MHz  | 136     | 5680 MHz  |
| 116     | 5580 MHz  | 140     | 5700 MHz  |
| 120     | 5600 MHz  | 144     | 5720 MHz  |

**6 channels are provided for 802.11n (HT40), 802.11ac (VHT40):**

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 102     | 5510 MHz  | 126     | 5630 MHz  |
| 110     | 5550 MHz  | 134     | 5670 MHz  |
| 118     | 5590 MHz  | 142     | 5710 MHz  |

**3 channel is provided for 802.11ac (VHT80):**

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 106     | 5530 MHz  | 122     | 5610 MHz  |
| 138     | 5690 MHz  | --      | --        |

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**For 5745~5825MHz:**

**5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) , 802.11ax (HE20):**

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 149     | 5745 MHz  | 161     | 5805 MHz  |
| 153     | 5765 MHz  | 165     | 5825 MHz  |
| 157     | 5785 MHz  | --      | --        |

**2 channels are provided for 802.11n (HT40), 802.11ac (VHT40) , 802.11ax (HE40):**

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 151     | 5755 MHz  | 159     | 5795 MHz  |

**1 channel is provided for 802.11ac (VHT80) , 802.11ax (HE80):**

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 155     | 5775 MHz  | --      | --        |

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

This submittal(s) (test report) is intended for **FCC ID: 2AATLK265B-PR** filing to comply with the FCC Part 15 requirements.

### 2.4. TEST METHODOLOGY

| No. | Identity           | Document Title  |
|-----|--------------------|---|
| 1   | FCC 47 CFR Part 2  | Frequency allocations and radio treaty matters; general rules and regulations |
| 2   | FCC 47 CFR Part 15 | Radio Frequency Devices   |
| 3   | ANSI C63.10-2013   | American National Standard for Testing Unlicensed Wireless Devices            |
| 4   | KDB 662911         | 662911 D01 Multiple Transmitter Output v02r01                                 |
| 5   | KDB 789033         | 789033 D02 General U-NII Test Procedures New Rules v02r01                     |

### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

### 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

### 2.7. ANTENNA REQUIREMENT

| Standard Requirement   |
|--|
| <p><b>15.203 requirement:</b><br/>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, 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.</p> |
| <p><b>EUT Antenna:</b><br/>The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is referred to Section 2.8 of the report</p>   |

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## 2.8. DESCRIPTION OF AVAILABLE ANTENNAS

| Antenna Type                             | Frequency Band (MHz) | TX Paths | Bandwidth (MHz) | Max Peak Gain (dBi) |       | Max Directional Gain (dBi) |
|--|----------------------|----------|-----------------|---------------------|-------|----------------------------|
|  |                      |          |                 | Ant 1               | Ant 2 |                            |
| 5G WIFI FPC Antenna List (5GHz 2*2 MIMO) |                      |          |                 |                     |       |                            |
| FPC Antenna                              | 5150 ~ 5250          | 2        | 20,40,80        | 3.49                | 4.21  | 7.22                       |
|  | 5250 ~ 5350          | 2        | 20,40,80        | 4.38                | 4.43  | 7.44                       |
|  | 5470 ~ 5725          | 2        | 20,40,80        | 6.33                | 5.03  | 9.34                       |
|  | 5725 ~ 5850          | 2        | 20,40,80        | 6.29                | 5.57  | 9.30                       |

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11n/ac/ax mode.

Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT} + \text{Array Gain}$ , where Array Gain is as follows.

- For power spectral density (PSD) measurements on devices:

$$\text{Array Gain} = 10 \log (N_{ANT} / N_{SS}) \text{ dB} = 3.01;$$

- For power measurements on IEEE 802.1 devices:

$$\text{Array Gain} = 0 \text{ dB for } N_{ANT} \leq 4;$$

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for channel widths } \geq 40 \text{ MHz for any } N_{ANT};$$

$$\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}) \text{ dB or } 3 \text{ dB, whichever is less, for } 20 \text{ MHz channel widths with } N_{ANT} \geq 5.$$

If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with  $G_{ANT}$  set equal to the gain of the antenna having the highest gain.

### 3. TEST ENVIRONMENT

#### 3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

#### 3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

##### **CNAS-Lab Code: L5488**

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

##### **A2LA-Lab Cert. No.: 5054.02**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

##### **FCC-Registration No.: 975832**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

##### **IC-Registration No.: 24842 (CAB identifier: CN0063)**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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### 3.3 ENVIRONMENTAL CONDITIONS

|                         | NORMAL CONDITIONS | EXTREME CONDITIONS |
|-------------------------|-------------------|--------------------|
| Temperature range (°C)  | 15 - 35           | -20 - 50           |
| Relative humidity range | 20 % - 75 %       | 20 % - 75 %        |
| Pressure range (kPa)    | 86 - 106          | 86 - 106           |
| Power supply            | DC 19.0V          | --                 |

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

### 3.4 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%.

| Item  | Measurement Uncertainty |
|---|-------------------------|
| Uncertainty of Conducted Emission for AC Port | $U_c = \pm 3.1$ dB      |
| Uncertainty of Radiated Emission below 1GHz   | $U_c = \pm 4.0$ dB      |
| Uncertainty of Radiated Emission above 1GHz   | $U_c = \pm 4.8$ dB      |
| Uncertainty of total RF power, conducted      | $U_c = \pm 0.8$ dB      |
| Uncertainty of RF power density, conducted    | $U_c = \pm 2.6$ dB      |
| Uncertainty of spurious emissions, conducted  | $U_c = \pm 2.7$ %       |
| Uncertainty of Occupied Channel Bandwidth     | $U_c = \pm 2.7$ %       |

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### 3.5 LIST OF EQUIPMENTS USED

#### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment     | Manufacturer | Model            | S/N    | Cal. Date     | Cal. Due      |
|---------------|--------------|------------------|--------|---------------|---------------|
| TEST RECEIVER | R&S          | ESPI             | 101206 | Aug. 04, 2022 | Aug. 03, 2023 |
| LISN          | R&S          | ESH2-Z5          | 100086 | Jun. 03, 2023 | Jun. 02, 2024 |
| Test software | R&S          | ES-K1(Ver.V1.71) | N/A    | N/A           | N/A           |

#### TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment                      | Manufacturer   | Model               | S/N          | Cal. Date     | Cal. Due      |
|--------------------------------|----------------|---------------------|--------------|---------------|---------------|
| TEST RECEIVER                  | R&S            | ESCI                | 10096        | Feb. 18, 2023 | Feb. 17, 2024 |
| EXA Signal Analyzer            | Aglient        | N9010A              | MY53470504   | Aug. 04, 2022 | Aug. 03, 2023 |
| EXA Signal Analyzer            | KEYSIGHT       | N9020B              | MY56101792   | Aug. 04, 2022 | Aug. 03, 2023 |
| Power sensor                   | Aglient        | U2021XA             | MY54110007   | Mar. 03, 2023 | Mar. 02, 2024 |
| 5GHz Fliter                    | EM Electronics | 5150-5880MHz        | N/A          | N/A           | N/A           |
| Horn antenna                   | SCHWARZBECK    | BBHA 9170           | #768         | Oct. 31, 2021 | Oct. 30, 2023 |
| Active loop antenna (9K-30MHz) | ZHINAN         | ZN30900C            | 18051        | Mar. 12, 2022 | Mar. 11, 2024 |
| Double-Ridged Waveguide Horn   | ETS LINDGREN   | 3117                | 00034609     | Apr. 23, 2023 | Apr. 22, 2024 |
| Broadband Preampfier           | ETS LINDGREN   | 3117PA              | 00225134     | Sep. 01, 2022 | Sep. 02, 2024 |
| ANTENNA                        | SCHWARZBECK    | VULB9168            | VULB9168-494 | Jan. 05, 2023 | Jan. 04, 2025 |
| Test software                  | FARA           | EZ-EMC (Ver RA-03A) | Ver.2.5      | N/A           | N/A           |

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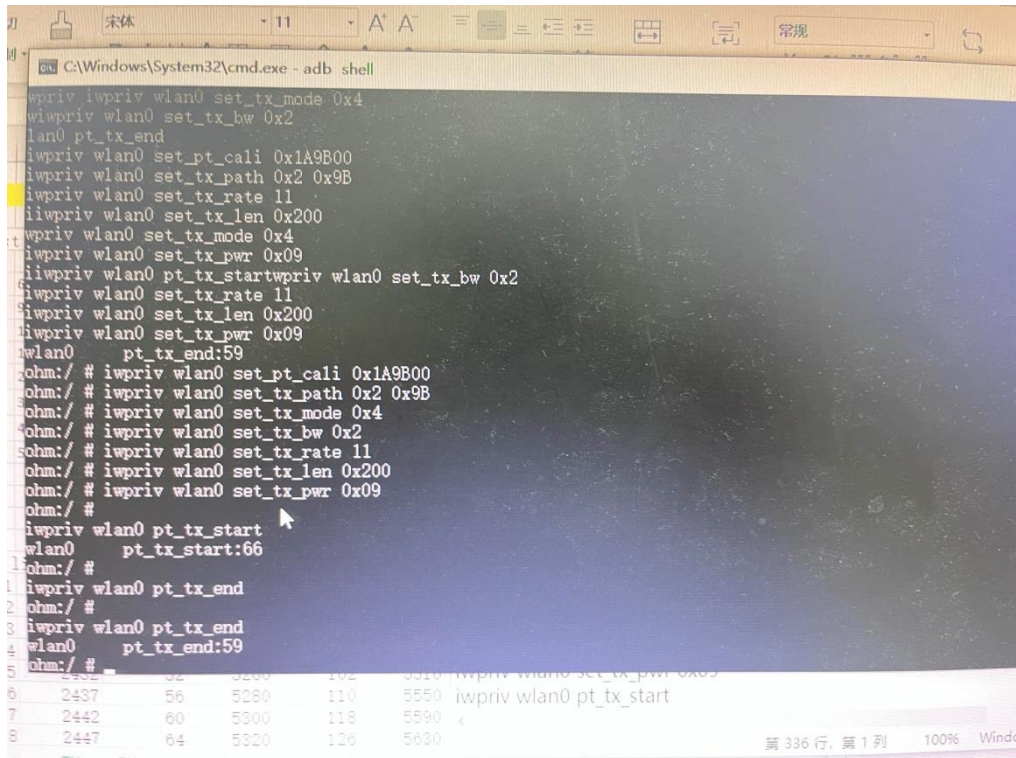
#### 4. DESCRIPTION OF TEST MODES

| Mode              | Available channel                   | Tested channel           | Modulation | Date rate (Mbps) |
|-------------------|-------------------------------------|--------------------------|------------|------------------|
| 802.11a/n/ac/ax20 | 36,40,44,48,<br>149,153,157,161,165 | 36,40,48,<br>149,157,165 | OFDM/OFDMA | 6Mbps/MCS0       |
| 802.11n/ac/ax40   | 38,46,151,159                       | 38,46, 151,159           | OFDM/OFDMA | MCS0             |
| 802.11ac/ax80     | 42, 155                             | 42, 155                  | OFDM/OFDMA | MCS0             |

**Note:**

1. The EUT has been set to operate continuously on tested channel individually, and the EUT is operating at its maximum duty cycle>or equal 98%.
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.

Software Setting

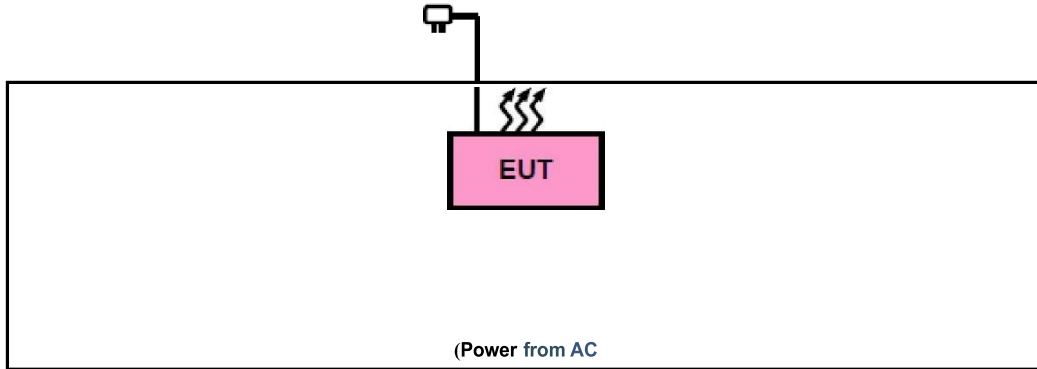


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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM



### 5.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment      | Model No.         | ID or Specification                          | Remark |
|------|----------------|-------------------|--|--------|
| 1    | WiFi/BT module | K265B-PR          | 2AATLK265B-PR                                | EUT    |
| 2    | Adapter        | JF012WR-0900150UH | Input: AC100-240V,50-60Hz<br>Output: DC12V2A | AE     |

### 5.3. SUMMARY OF TEST RESULTS

| Item | FCC Rules                   | Description Of Test              | Result |
|------|-----------------------------|----------------------------------|--------|
| 1    | §15.203                     | Antenna Equipment                | Pass   |
| 2    | §15.407(a/1/2/3)            | RF Output Power                  | Pass   |
| 3    | §15.407(e)                  | 6dB Bandwidth Measurement        | Pass   |
| 4    | §2.1049                     | 26dB bandwidth Measurement       | Pass   |
| 5    | §15.407(a/1/2/3)            | Power Spectral Density           | Pass   |
| 6    | §15.407(b)(1/2/3/4)         | Conducted Spurious Emission      | Pass   |
| 7    | §15.209,§15.407(b)(1/2/3/4) | Radiated Emission& Band Edge     | Pass   |
| 8    | §15.207                     | AC Power Line Conducted Emission | Pass   |

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## 6. RF OUTPUT POWER MEASUREMENT

### 6.1 MEASUREMENT LIMITS

| Operation Band | EUT Category                        |                                   | LIMIT  |
|----------------|-------------------------------------|-----------------------------------|--|
| U-NII-1        | <input type="checkbox"/>            | Outdoor Access Point              | 1 Watt (30 dBm)<br>(Max. e.i.r.p < 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon) |
|                | <input type="checkbox"/>            | Fixed point-to-point Access Point | 1 Watt (30 dBm)  |
|                | <input type="checkbox"/>            | Indoor Access Point               | 1 Watt (30 dBm)  |
|                | <input checked="" type="checkbox"/> | Client devices                    | 250mW (23.98 dBm)  |
| U-NII-2A       | /                                   |                                   | 250mW (23.98 dBm) or 11 dBm+10 log B*  |
| U-NII-2C       | /                                   |                                   | 250mW (23.98 dBm) or 11 dBm+10 log B*  |
| U-NII-3        | /                                   |                                   | 1 Watt (30 dBm)  |

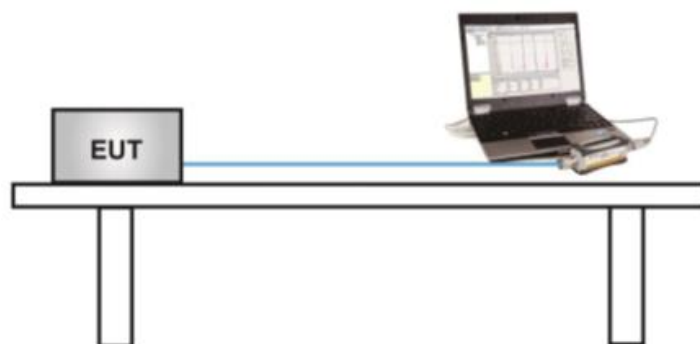
Note: Where B is the 26dB emission bandwidth in MHz.

### 6.2 MEASUREMENT PROCEDURE

Method PM is Measurement using an RF average power meter. The procedure for this method is as follows:

1. The testing follows the ANSI C63.10 Section 12.3.3.1
2. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
3. The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
4. At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
5. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
6. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
7. Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
8. Adjust the measurement in dBm by adding  $[10 \log (1 / D)]$ , where D is the duty cycle {e.g.,  $[10 \log (1 / 0.25)]$ , if the duty cycle is 25%}.
9. Record the test results in the report.

### 6.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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#### 6.4 MEASUREMENT RESULT

| Test Data of Conducted Output Power for band 5.15-5.25 GHz-ANT 1 |                    |                     |              |              |
|--|--------------------|---------------------|--------------|--------------|
| Test Mode  | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a  | 5180               | 9.06                | 23.98        | Pass         |
|  | 5200               | 8.85                | 23.98        | Pass         |
|  | 5240               | 8.77                | 23.98        | Pass         |
| 802.11n20  | 5180               | 8.90                | 23.98        | Pass         |
|  | 5200               | 8.93                | 23.98        | Pass         |
|  | 5240               | 8.77                | 23.98        | Pass         |
| 802.11n40  | 5190               | 8.96                | 23.98        | Pass         |
|  | 5230               | 8.85                | 23.98        | Pass         |
| 802.11ac20   | 5180               | 8.90                | 23.98        | Pass         |
|  | 5200               | 9.06                | 23.98        | Pass         |
|  | 5240               | 8.64                | 23.98        | Pass         |
| 802.11ac40   | 5190               | 9.12                | 23.98        | Pass         |
|  | 5230               | 8.69                | 23.98        | Pass         |
| 802.11ac80   | 5210               | 7.86                | 23.98        | Pass         |
| 802.11ax20   | 5180               | 8.65                | 23.98        | Pass         |
|  | 5200               | 9.03                | 23.98        | Pass         |
|  | 5240               | 8.80                | 23.98        | Pass         |
| 802.11ax40   | 5190               | 8.96                | 23.98        | Pass         |
|  | 5230               | 8.89                | 23.98        | Pass         |
| 802.11ax80   | 5210               | 7.91                | 23.98        | Pass         |

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| Test Data of Conducted Output Power for band 5.15-5.25 GHz-ANT 2 |                    |                     |              |              |
|--|--------------------|---------------------|--------------|--------------|
| Test Mode  | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a  | 5180               | 9.08                | 23.98        | Pass         |
|  | 5200               | 9.55                | 23.98        | Pass         |
|  | 5240               | 9.05                | 23.98        | Pass         |
| 802.11n20  | 5180               | 9.56                | 23.98        | Pass         |
|  | 5200               | 9.79                | 23.98        | Pass         |
|  | 5240               | 9.46                | 23.98        | Pass         |
| 802.11n40  | 5190               | 8.60                | 23.98        | Pass         |
|  | 5230               | 9.20                | 23.98        | Pass         |
| 802.11ac20   | 5180               | 9.45                | 23.98        | Pass         |
|  | 5200               | 9.76                | 23.98        | Pass         |
|  | 5240               | 9.34                | 23.98        | Pass         |
| 802.11ac40   | 5190               | 9.14                | 23.98        | Pass         |
|  | 5230               | 8.17                | 23.98        | Pass         |
| 802.11ac80   | 5210               | 8.65                | 23.98        | Pass         |
| 802.11ax20   | 5180               | 9.64                | 23.98        | Pass         |
|  | 5200               | 9.85                | 23.98        | Pass         |
|  | 5240               | 9.53                | 23.98        | Pass         |
| 802.11ax40   | 5190               | 8.71                | 23.98        | Pass         |
|  | 5230               | 8.53                | 23.98        | Pass         |
| 802.11ax80   | 5210               | 8.44                | 23.98        | Pass         |

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| Test Data of Conducted Output Power for band 5.15-5.25 GHz-MIMO |                    |                     |              |              |
|---|--------------------|---------------------|--------------|--------------|
| Test Mode   | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11n20   | 5180               | 12.25               | 23.98        | Pass         |
|   | 5200               | 12.39               | 23.98        | Pass         |
|   | 5240               | 12.14               | 23.98        | Pass         |
| 802.11n40   | 5190               | 11.79               | 23.98        | Pass         |
|   | 5230               | 12.04               | 23.98        | Pass         |
| 802.11ac20  | 5180               | 12.19               | 23.98        | Pass         |
|   | 5200               | 12.43               | 23.98        | Pass         |
|   | 5240               | 12.01               | 23.98        | Pass         |
| 802.11ac40  | 5190               | 12.14               | 23.98        | Pass         |
|   | 5230               | 11.45               | 23.98        | Pass         |
| 802.11ac80  | 5210               | 11.28               | 23.98        | Pass         |
| 802.11ax20  | 5180               | 12.18               | 23.98        | Pass         |
|   | 5200               | 12.47               | 23.98        | Pass         |
|   | 5240               | 12.19               | 23.98        | Pass         |
| 802.11ax40  | 5190               | 11.85               | 23.98        | Pass         |
|   | 5230               | 11.72               | 23.98        | Pass         |
| 802.11ax80  | 5210               | 11.19               | 23.98        | Pass         |

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| Test Data of Conducted Output Power for band 5.25-5.35 GHz-ANT 1 |                    |                     |              |              |
|--|--------------------|---------------------|--------------|--------------|
| Test Mode  | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a  | 5260               | 8.40                | 23.98        | Pass         |
|  | 5300               | 8.24                | 23.98        | Pass         |
|  | 5320               | 8.05                | 23.98        | Pass         |
| 802.11n20  | 5260               | 8.32                | 23.98        | Pass         |
|  | 5300               | 8.32                | 23.98        | Pass         |
|  | 5320               | 8.35                | 23.98        | Pass         |
| 802.11n40  | 5270               | 8.46                | 23.98        | Pass         |
|  | 5310               | 8.22                | 23.98        | Pass         |
| 802.11ac20   | 5260               | 8.18                | 23.98        | Pass         |
|  | 5300               | 8.27                | 23.98        | Pass         |
|  | 5320               | 8.17                | 23.98        | Pass         |
| 802.11ac40   | 5270               | 8.46                | 23.98        | Pass         |
|  | 5310               | 7.90                | 23.98        | Pass         |
| 802.11ac80   | 5290               | 8.32                | 23.98        | Pass         |
| 802.11ax20   | 5260               | 8.06                | 23.98        | Pass         |
|  | 5300               | 8.11                | 23.98        | Pass         |
|  | 5320               | 8.03                | 23.98        | Pass         |
| 802.11ax40   | 5270               | 8.50                | 23.98        | Pass         |
|  | 5310               | 8.24                | 23.98        | Pass         |
| 802.11ax80   | 5290               | 8.46                | 23.98        | Pass         |

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| Test Data of Conducted Output Power for band 5.25-5.35 GHz-ANT 2 |                    |                     |              |              |
|--|--------------------|---------------------|--------------|--------------|
| Test Mode  | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a  | 5260               | 9.27                | 23.98        | Pass         |
|  | 5300               | 8.58                | 23.98        | Pass         |
|  | 5320               | 8.59                | 23.98        | Pass         |
| 802.11n20  | 5260               | 9.30                | 23.98        | Pass         |
|  | 5300               | 9.00                | 23.98        | Pass         |
|  | 5320               | 9.10                | 23.98        | Pass         |
| 802.11n40  | 5270               | 6.12                | 23.98        | Pass         |
|  | 5310               | 5.93                | 23.98        | Pass         |
| 802.11ac20   | 5260               | 9.00                | 23.98        | Pass         |
|  | 5300               | 8.84                | 23.98        | Pass         |
|  | 5320               | 8.64                | 23.98        | Pass         |
| 802.11ac40   | 5270               | 6.13                | 23.98        | Pass         |
|  | 5310               | 6.11                | 23.98        | Pass         |
| 802.11ac80   | 5290               | 6.39                | 23.98        | Pass         |
| 802.11ax20   | 5260               | 9.01                | 23.98        | Pass         |
|  | 5300               | 8.71                | 23.98        | Pass         |
|  | 5320               | 8.54                | 23.98        | Pass         |
| 802.11ax40   | 5270               | 6.02                | 23.98        | Pass         |
|  | 5310               | 5.83                | 23.98        | Pass         |
| 802.11ax80   | 5290               | 6.19                | 23.98        | Pass         |

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| Test Data of Conducted Output Power for band 5.25-5.35 GHz-MIMO |                    |                     |              |              |
|---|--------------------|---------------------|--------------|--------------|
| Test Mode   | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11n20   | 5260               | 11.85               | 23.98        | Pass         |
|   | 5300               | 11.68               | 23.98        | Pass         |
|   | 5320               | 11.75               | 23.98        | Pass         |
| 802.11n40   | 5270               | 10.46               | 23.98        | Pass         |
|   | 5310               | 10.23               | 23.98        | Pass         |
| 802.11ac20  | 5260               | 11.62               | 23.98        | Pass         |
|   | 5300               | 11.57               | 23.98        | Pass         |
|   | 5320               | 11.42               | 23.98        | Pass         |
| 802.11ac40  | 5270               | 10.46               | 23.98        | Pass         |
|   | 5310               | 10.11               | 23.98        | Pass         |
| 802.11ac80  | 5290               | 10.47               | 23.98        | Pass         |
| 802.11ax20  | 5260               | 11.57               | 23.98        | Pass         |
|   | 5300               | 11.43               | 23.98        | Pass         |
|   | 5320               | 11.30               | 23.98        | Pass         |
| 802.11ax40  | 5270               | 10.44               | 23.98        | Pass         |
|   | 5310               | 10.21               | 23.98        | Pass         |
| 802.11ax80  | 5290               | 10.48               | 23.98        | Pass         |

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| Test Data of Conducted Output Power for band 5.47-5.725 GHz-ANT 1 |                    |                     |              |              |
|---|--------------------|---------------------|--------------|--------------|
| Test Mode   | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a   | 5500               | 8.85                | 23.65        | Pass         |
|   | 5600               | 9.07                | 23.65        | Pass         |
|   | 5700               | 8.84                | 23.65        | Pass         |
| 802.11n20   | 5500               | 8.74                | 23.65        | Pass         |
|   | 5600               | 9.14                | 23.65        | Pass         |
|   | 5700               | 8.89                | 23.65        | Pass         |
| 802.11n40   | 5510               | 5.91                | 23.65        | Pass         |
|   | 5590               | 6.17                | 23.65        | Pass         |
|   | 5670               | 5.99                | 23.65        | Pass         |
| 802.11ac20  | 5500               | 9.16                | 23.65        | Pass         |
|   | 5600               | 9.18                | 23.65        | Pass         |
|   | 5700               | 8.71                | 23.65        | Pass         |
| 802.11ac40  | 5510               | 5.89                | 23.65        | Pass         |
|   | 5590               | 6.04                | 23.65        | Pass         |
|   | 5670               | 6.05                | 23.65        | Pass         |
| 802.11ac80  | 5530               | 5.93                | 23.65        | Pass         |
|   | 5610               | 5.99                | 23.65        | Pass         |
| 802.11ax20  | 5500               | 8.61                | 23.65        | Pass         |
|   | 5600               | 9.02                | 23.65        | Pass         |
|   | 5700               | 8.75                | 23.65        | Pass         |
| 802.11ax40  | 5510               | 5.98                | 23.65        | Pass         |
|   | 5590               | 6.06                | 23.65        | Pass         |
|   | 5670               | 5.79                | 23.65        | Pass         |
| 802.11ax80  | 5530               | 5.94                | 23.65        | Pass         |
|   | 5610               | 5.93                | 23.65        | Pass         |

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| Test Data of Conducted Output Power for band 5.47-5.725 GHz-ANT 2 |                    |                     |              |              |
|---|--------------------|---------------------|--------------|--------------|
| Test Mode   | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a   | 5500               | 9.17                | 23.98        | Pass         |
|   | 5600               | 9.14                | 23.98        | Pass         |
|   | 5700               | 8.87                | 23.98        | Pass         |
| 802.11n20   | 5500               | 8.70                | 23.98        | Pass         |
|   | 5600               | 9.19                | 23.98        | Pass         |
|   | 5700               | 9.07                | 23.98        | Pass         |
| 802.11n40   | 5510               | 6.58                | 23.98        | Pass         |
|   | 5590               | 6.92                | 23.98        | Pass         |
|   | 5670               | 7.18                | 23.98        | Pass         |
| 802.11ac20  | 5500               | 9.01                | 23.98        | Pass         |
|   | 5600               | 9.32                | 23.98        | Pass         |
|   | 5700               | 9.00                | 23.98        | Pass         |
| 802.11ac40  | 5510               | 7.98                | 23.98        | Pass         |
|   | 5590               | 8.21                | 23.98        | Pass         |
|   | 5670               | 8.29                | 23.98        | Pass         |
| 802.11ac80  | 5530               | 7.70                | 23.98        | Pass         |
|   | 5610               | 8.06                | 23.98        | Pass         |
| 802.11ax20  | 5500               | 8.75                | 23.98        | Pass         |
|   | 5600               | 7.15                | 23.98        | Pass         |
|   | 5700               | 8.78                | 23.98        | Pass         |
| 802.11ax40  | 5510               | 7.74                | 23.98        | Pass         |
|   | 5590               | 8.20                | 23.98        | Pass         |
|   | 5670               | 8.00                | 23.98        | Pass         |
| 802.11ax80  | 5530               | 7.60                | 23.98        | Pass         |
|   | 5610               | 7.60                | 23.98        | Pass         |

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| Test Data of Conducted Output Power for band 5.47-5.725 GHz-MIMO |                    |                     |              |              |
|--|--------------------|---------------------|--------------|--------------|
| Test Mode  | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11n20  | 5500               | 11.73               | 23.65        | Pass         |
|  | 5600               | 12.18               | 23.65        | Pass         |
|  | 5700               | 11.99               | 23.65        | Pass         |
| 802.11n40  | 5510               | 9.27                | 23.65        | Pass         |
|  | 5590               | 9.57                | 23.65        | Pass         |
|  | 5670               | 9.64                | 23.65        | Pass         |
| 802.11ac20   | 5500               | 12.10               | 23.65        | Pass         |
|  | 5600               | 12.26               | 23.65        | Pass         |
|  | 5700               | 11.87               | 23.65        | Pass         |
| 802.11ac40   | 5510               | 10.07               | 23.65        | Pass         |
|  | 5590               | 10.27               | 23.65        | Pass         |
|  | 5670               | 10.32               | 23.65        | Pass         |
| 802.11ac80   | 5530               | 9.91                | 23.65        | Pass         |
|  | 5610               | 10.16               | 23.65        | Pass         |
| 802.11ax20   | 5500               | 11.69               | 23.65        | Pass         |
|  | 5600               | 11.20               | 23.65        | Pass         |
|  | 5700               | 11.78               | 23.65        | Pass         |
| 802.11ax40   | 5510               | 9.96                | 23.65        | Pass         |
|  | 5590               | 10.27               | 23.65        | Pass         |
|  | 5670               | 10.04               | 23.65        | Pass         |
| 802.11ax80   | 5530               | 9.86                | 23.65        | Pass         |
|  | 5610               | 9.86                | 23.65        | Pass         |

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| Test Data of Conducted Output Power for band 5.725-5.85 GHz-ANT 1 |                    |                     |              |              |
|---|--------------------|---------------------|--------------|--------------|
| Test Mode   | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a   | 5745               | 9.11                | 29.71        | Pass         |
|   | 5785               | 9.43                | 29.71        | Pass         |
|   | 5825               | 9.98                | 29.71        | Pass         |
| 802.11n20   | 5745               | 9.13                | 29.71        | Pass         |
|   | 5785               | 9.72                | 29.71        | Pass         |
|   | 5825               | 10.15               | 29.71        | Pass         |
| 802.11n40   | 5755               | 7.43                | 29.71        | Pass         |
|   | 5795               | 7.25                | 29.71        | Pass         |
| 802.11ac20  | 5745               | 9.10                | 29.71        | Pass         |
|   | 5785               | 9.81                | 29.71        | Pass         |
|   | 5825               | 10.24               | 29.71        | Pass         |
| 802.11ac40  | 5755               | 7.55                | 29.71        | Pass         |
|   | 5795               | 7.85                | 29.71        | Pass         |
| 802.11ac80  | 5775               | 7.64                | 29.71        | Pass         |
| 802.11ax20  | 5745               | 8.57                | 29.71        | Pass         |
|   | 5785               | 9.64                | 29.71        | Pass         |
|   | 5825               | 10.27               | 29.71        | Pass         |
| 802.11ax40  | 5755               | 7.44                | 29.71        | Pass         |
|   | 5795               | 7.82                | 29.71        | Pass         |
| 802.11ax80  | 5775               | 7.61                | 29.71        | Pass         |

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| Test Data of Conducted Output Power for band 5.725-5.85 GHz-ANT 2 |                    |                     |              |              |
|---|--------------------|---------------------|--------------|--------------|
| Test Mode   | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a   | 5745               | 9.09                | 30           | Pass         |
|   | 5785               | 9.23                | 30           | Pass         |
|   | 5825               | 9.09                | 30           | Pass         |
| 802.11n20   | 5745               | 8.87                | 30           | Pass         |
|   | 5785               | 9.33                | 30           | Pass         |
|   | 5825               | 9.47                | 30           | Pass         |
| 802.11n40   | 5755               | 7.91                | 30           | Pass         |
|   | 5795               | 7.96                | 30           | Pass         |
| 802.11ac20  | 5745               | 8.63                | 30           | Pass         |
|   | 5785               | 9.23                | 30           | Pass         |
|   | 5825               | 9.18                | 30           | Pass         |
| 802.11ac40  | 5755               | 8.16                | 30           | Pass         |
|   | 5795               | 7.85                | 30           | Pass         |
| 802.11ac80  | 5775               | 8.23                | 30           | Pass         |
| 802.11ax20  | 5745               | 8.56                | 30           | Pass         |
|   | 5785               | 9.05                | 30           | Pass         |
|   | 5825               | 9.27                | 30           | Pass         |
| 802.11ax40  | 5755               | 7.85                | 30           | Pass         |
|   | 5795               | 8.16                | 30           | Pass         |
| 802.11ax80  | 5775               | 8.13                | 30           | Pass         |

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| Test Data of Conducted Output Power for band 5.725-5.85 GHz-MIMO |                    |                     |              |              |
|--|--------------------|---------------------|--------------|--------------|
| Test Mode  | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11n20  | 5745               | 12.01               | 29.71        | Pass         |
|  | 5785               | 12.54               | 29.71        | Pass         |
|  | 5825               | 12.83               | 29.71        | Pass         |
| 802.11n40  | 5755               | 10.69               | 29.71        | Pass         |
|  | 5795               | 10.63               | 29.71        | Pass         |
| 802.11ac20   | 5745               | 11.88               | 29.71        | Pass         |
|  | 5785               | 12.54               | 29.71        | Pass         |
|  | 5825               | 12.75               | 29.71        | Pass         |
| 802.11ac40   | 5755               | 10.88               | 29.71        | Pass         |
|  | 5795               | 10.86               | 29.71        | Pass         |
| 802.11ac80   | 5775               | 10.96               | 29.71        | Pass         |
| 802.11ax20   | 5745               | 11.58               | 29.71        | Pass         |
|  | 5785               | 12.37               | 29.71        | Pass         |
|  | 5825               | 12.81               | 29.71        | Pass         |
| 802.11ax40   | 5755               | 10.66               | 29.71        | Pass         |
|  | 5795               | 11.00               | 29.71        | Pass         |
| 802.11ax80   | 5775               | 10.89               | 29.71        | Pass         |

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## 7. 6DB&26DB BANDWIDTH MEASUREMENT

### 7.1 MEASUREMENT LIMITS

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

### 7.2 MEASUREMENT PROCEDURE

7.2.1 -6dB bandwidth (DTS bandwidth) Test setting:

1. Connect EUT RF output port to the Spectrum Analyzer
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 100kHz.
4. Set the VBW  $\geq 3 \times$  RBW. Detector = Peak. Trace mode = max hold.
5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.

7.2.2 99% occupied bandwidth test setting:

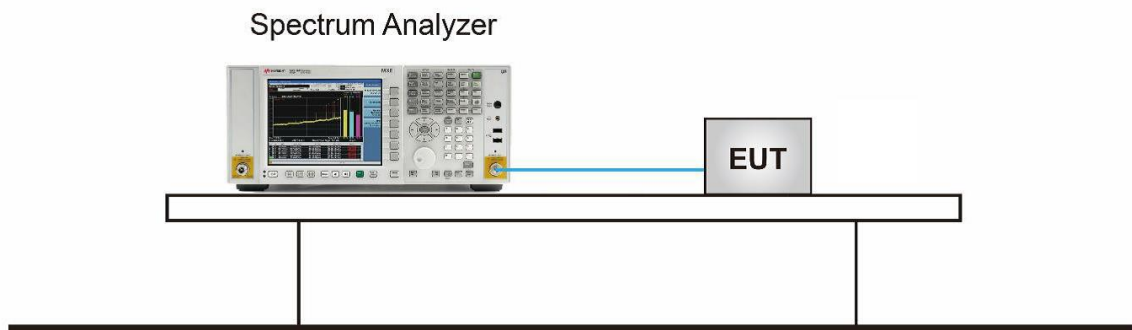
1. Connect EUT RF output port to the Spectrum Analyzer
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel  
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

7.2.3 -26dB Bandwidth test setting:

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.  
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

**Note:** The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

### 7.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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#### 7.4 MEASUREMENT RESULTS

| Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz-ANT 1 |                    |                              |                       |              |              |
|--|--------------------|------------------------------|-----------------------|--------------|--------------|
| Test Mode  | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -26dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a  | 5180               | 16.487                       | 20.70                 | N/A          | Pass         |
|  | 5200               | 16.482                       | 20.66                 | N/A          | Pass         |
|  | 5240               | 16.474                       | 21.41                 | N/A          | Pass         |
| 802.11n20  | 5180               | 17.609                       | 21.58                 | N/A          | Pass         |
|  | 5200               | 17.636                       | 21.47                 | N/A          | Pass         |
|  | 5240               | 17.591                       | 21.56                 | N/A          | Pass         |
| 802.11n40  | 5190               | 36.271                       | 42.51                 | N/A          | Pass         |
|  | 5230               | 36.278                       | 41.59                 | N/A          | Pass         |
| 802.11ac20   | 5180               | 17.623                       | 21.78                 | N/A          | Pass         |
|  | 5200               | 17.637                       | 21.39                 | N/A          | Pass         |
|  | 5240               | 17.642                       | 22.35                 | N/A          | Pass         |
| 802.11ac40   | 5190               | 36.254                       | 41.95                 | N/A          | Pass         |
|  | 5230               | 36.250                       | 41.83                 | N/A          | Pass         |
| 802.11ac80   | 5210               | 75.663                       | 83.19                 | N/A          | Pass         |
| 802.11ax20   | 5180               | 18.839                       | 21.95                 | N/A          | Pass         |
|  | 5200               | 18.850                       | 22.04                 | N/A          | Pass         |
|  | 5240               | 18.842                       | 21.70                 | N/A          | Pass         |
| 802.11ax40   | 5190               | 37.718                       | 42.24                 | N/A          | Pass         |
|  | 5230               | 37.740                       | 43.10                 | N/A          | Pass         |
| 802.11ax80   | 5210               | 77.297                       | 83.71                 | N/A          | Pass         |

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| Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz-ANT 2 |                    |                              |                       |              |              |
|--|--------------------|------------------------------|-----------------------|--------------|--------------|
| Test Mode  | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -26dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a  | 5180               | 16.476                       | 20.60                 | N/A          | Pass         |
|  | 5200               | 16.443                       | 20.51                 | N/A          | Pass         |
|  | 5240               | 16.469                       | 20.54                 | N/A          | Pass         |
| 802.11n20  | 5180               | 17.609                       | 21.44                 | N/A          | Pass         |
|  | 5200               | 17.596                       | 21.40                 | N/A          | Pass         |
|  | 5240               | 17.600                       | 21.58                 | N/A          | Pass         |
| 802.11n40  | 5190               | 36.302                       | 41.88                 | N/A          | Pass         |
|  | 5230               | 36.272                       | 41.57                 | N/A          | Pass         |
| 802.11ac20   | 5180               | 17.618                       | 21.05                 | N/A          | Pass         |
|  | 5200               | 17.609                       | 21.66                 | N/A          | Pass         |
|  | 5240               | 17.580                       | 21.42                 | N/A          | Pass         |
| 802.11ac40   | 5190               | 36.173                       | 42.19                 | N/A          | Pass         |
|  | 5230               | 36.167                       | 41.99                 | N/A          | Pass         |
| 802.11ac80   | 5210               | 75.837                       | 84.94                 | N/A          | Pass         |
| 802.11ax20   | 5180               | 18.872                       | 21.87                 | N/A          | Pass         |
|  | 5200               | 18.852                       | 21.53                 | N/A          | Pass         |
|  | 5240               | 18.826                       | 21.85                 | N/A          | Pass         |
| 802.11ax40   | 5190               | 37.704                       | 42.34                 | N/A          | Pass         |
|  | 5230               | 37.723                       | 42.86                 | N/A          | Pass         |
| 802.11ax80   | 5210               | 77.331                       | 83.78                 | N/A          | Pass         |

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| Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz-ANT 1 |                    |                              |                       |              |              |
|--|--------------------|------------------------------|-----------------------|--------------|--------------|
| Test Mode  | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -26dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a  | 5260               | 16.466                       | 20.57                 | N/A          | Pass         |
|  | 5300               | 16.458                       | 20.96                 | N/A          | Pass         |
|  | 5320               | 16.459                       | 20.74                 | N/A          | Pass         |
| 802.11n20  | 5260               | 17.604                       | 21.25                 | N/A          | Pass         |
|  | 5300               | 17.602                       | 21.31                 | N/A          | Pass         |
|  | 5320               | 17.617                       | 21.68                 | N/A          | Pass         |
| 802.11n40  | 5270               | 36.252                       | 41.71                 | N/A          | Pass         |
|  | 5310               | 36.287                       | 41.45                 | N/A          | Pass         |
| 802.11ac20   | 5260               | 17.631                       | 21.56                 | N/A          | Pass         |
|  | 5300               | 17.635                       | 21.46                 | N/A          | Pass         |
|  | 5320               | 17.619                       | 21.49                 | N/A          | Pass         |
| 802.11ac40   | 5270               | 36.248                       | 41.95                 | N/A          | Pass         |
|  | 5310               | 36.218                       | 42.42                 | N/A          | Pass         |
| 802.11ac80   | 5290               | 75.699                       | 83.90                 | N/A          | Pass         |
| 802.11ax20   | 5260               | 18.864                       | 21.88                 | N/A          | Pass         |
|  | 5300               | 18.868                       | 21.97                 | N/A          | Pass         |
|  | 5320               | 18.852                       | 21.95                 | N/A          | Pass         |
| 802.11ax40   | 5270               | 37.718                       | 42.44                 | N/A          | Pass         |
|  | 5310               | 37.687                       | 41.87                 | N/A          | Pass         |
| 802.11ax80   | 5290               | 77.333                       | 84.20                 | N/A          | Pass         |

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| <b>Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz-ANT 2</b> |                    |                              |                       |              |              |
|---|--------------------|------------------------------|-----------------------|--------------|--------------|
| Test Mode   | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -26dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a   | 5260               | 16.456                       | 20.71                 | N/A          | Pass         |
|   | 5300               | 16.546                       | 29.22                 | N/A          | Pass         |
|   | 5320               | 16.482                       | 24.28                 | N/A          | Pass         |
| 802.11n20   | 5260               | 17.588                       | 21.31                 | N/A          | Pass         |
|   | 5300               | 19.119                       | 30.00                 | N/A          | Pass         |
|   | 5320               | 17.741                       | 29.90                 | N/A          | Pass         |
| 802.11n40   | 5270               | 36.221                       | 42.22                 | N/A          | Pass         |
|   | 5310               | 36.314                       | 41.84                 | N/A          | Pass         |
| 802.11ac20  | 5260               | 17.613                       | 21.45                 | N/A          | Pass         |
|   | 5300               | 17.751                       | 29.57                 | N/A          | Pass         |
|   | 5320               | 17.619                       | 24.97                 | N/A          | Pass         |
| 802.11ac40  | 5270               | 36.160                       | 41.62                 | N/A          | Pass         |
|   | 5310               | 36.139                       | 41.87                 | N/A          | Pass         |
| 802.11ac80  | 5290               | 75.707                       | 84.06                 | N/A          | Pass         |
| 802.11ax20  | 5260               | 18.817                       | 21.61                 | N/A          | Pass         |
|   | 5300               | 18.907                       | 29.03                 | N/A          | Pass         |
|   | 5320               | 18.867                       | 25.81                 | N/A          | Pass         |
| 802.11ax40  | 5270               | 37.681                       | 41.57                 | N/A          | Pass         |
|   | 5310               | 37.749                       | 41.48                 | N/A          | Pass         |
| 802.11ax80  | 5290               | 77.352                       | 83.81                 | N/A          | Pass         |

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| Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz-ANT 1 |                    |                              |                       |              |              |
|---|--------------------|------------------------------|-----------------------|--------------|--------------|
| Test Mode   | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -26dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a   | 5500               | 16.498                       | 21.86                 | N/A          | Pass         |
|   | 5600               | 16.501                       | 25.70                 | N/A          | Pass         |
|   | 5700               | 16.495                       | 23.99                 | N/A          | Pass         |
| 802.11n20   | 5500               | 17.614                       | 21.75                 | N/A          | Pass         |
|   | 5600               | 17.626                       | 26.62                 | N/A          | Pass         |
|   | 5700               | 17.812                       | 29.89                 | N/A          | Pass         |
| 802.11n40   | 5510               | 36.274                       | 41.66                 | N/A          | Pass         |
|   | 5590               | 36.260                       | 41.18                 | N/A          | Pass         |
|   | 5670               | 36.288                       | 41.25                 | N/A          | Pass         |
| 802.11ac20  | 5500               | 17.661                       | 22.68                 | N/A          | Pass         |
|   | 5600               | 17.655                       | 24.59                 | N/A          | Pass         |
|   | 5700               | 17.671                       | 24.85                 | N/A          | Pass         |
| 802.11ac40  | 5510               | 36.256                       | 42.77                 | N/A          | Pass         |
|   | 5590               | 36.235                       | 41.79                 | N/A          | Pass         |
|   | 5670               | 36.234                       | 41.89                 | N/A          | Pass         |
| 802.11ac80  | 5530               | 75.696                       | 83.28                 | N/A          | Pass         |
|   | 5610               | 75.629                       | 83.85                 | N/A          | Pass         |
| 802.11ax20  | 5500               | 18.837                       | 22.22                 | N/A          | Pass         |
|   | 5600               | 18.827                       | 24.32                 | N/A          | Pass         |
|   | 5700               | 18.854                       | 24.60                 | N/A          | Pass         |
| 802.11ax40  | 5510               | 37.693                       | 41.69                 | N/A          | Pass         |
|   | 5590               | 37.695                       | 42.04                 | N/A          | Pass         |
|   | 5670               | 37.717                       | 41.92                 | N/A          | Pass         |
| 802.11ax80  | 5530               | 72.228                       | 83.22                 | N/A          | Pass         |
|   | 5610               | 77.295                       | 83.47                 | N/A          | Pass         |

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| Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz-ANT 2 |                    |                              |                       |              |              |
|---|--------------------|------------------------------|-----------------------|--------------|--------------|
| Test Mode   | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -26dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a   | 5500               | 16.472                       | 20.42                 | N/A          | Pass         |
|   | 5600               | 16.449                       | 20.95                 | N/A          | Pass         |
|   | 5700               | 16.450                       | 20.52                 | N/A          | Pass         |
| 802.11n20   | 5500               | 17.614                       | 22.99                 | N/A          | Pass         |
|   | 5600               | 17.604                       | 21.60                 | N/A          | Pass         |
|   | 5700               | 17.598                       | 21.42                 | N/A          | Pass         |
| 802.11n40   | 5510               | 36.302                       | 41.50                 | N/A          | Pass         |
|   | 5590               | 36.231                       | 41.92                 | N/A          | Pass         |
|   | 5670               | 36.279                       | 41.92                 | N/A          | Pass         |
| 802.11ac20  | 5500               | 17.623                       | 22.32                 | N/A          | Pass         |
|   | 5600               | 17.608                       | 21.48                 | N/A          | Pass         |
|   | 5700               | 17.581                       | 21.41                 | N/A          | Pass         |
| 802.11ac40  | 5510               | 36.199                       | 41.54                 | N/A          | Pass         |
|   | 5590               | 36.165                       | 41.96                 | N/A          | Pass         |
|   | 5670               | 36.182                       | 41.96                 | N/A          | Pass         |
| 802.11ac80  | 5530               | 75.761                       | 85.37                 | N/A          | Pass         |
|   | 5610               | 75.688                       | 84.65                 | N/A          | Pass         |
| 802.11ax20  | 5500               | 18.831                       | 21.69                 | N/A          | Pass         |
|   | 5600               | 18.837                       | 21.77                 | N/A          | Pass         |
|   | 5700               | 18.827                       | 21.90                 | N/A          | Pass         |
| 802.11ax40  | 5510               | 37.680                       | 41.59                 | N/A          | Pass         |
|   | 5590               | 37.693                       | 41.57                 | N/A          | Pass         |
|   | 5670               | 37.699                       | 41.79                 | N/A          | Pass         |
| 802.11ax80  | 5530               | 77.242                       | 73.20                 | N/A          | Pass         |
|   | 5610               | 77.331                       | 83.25                 | N/A          | Pass         |

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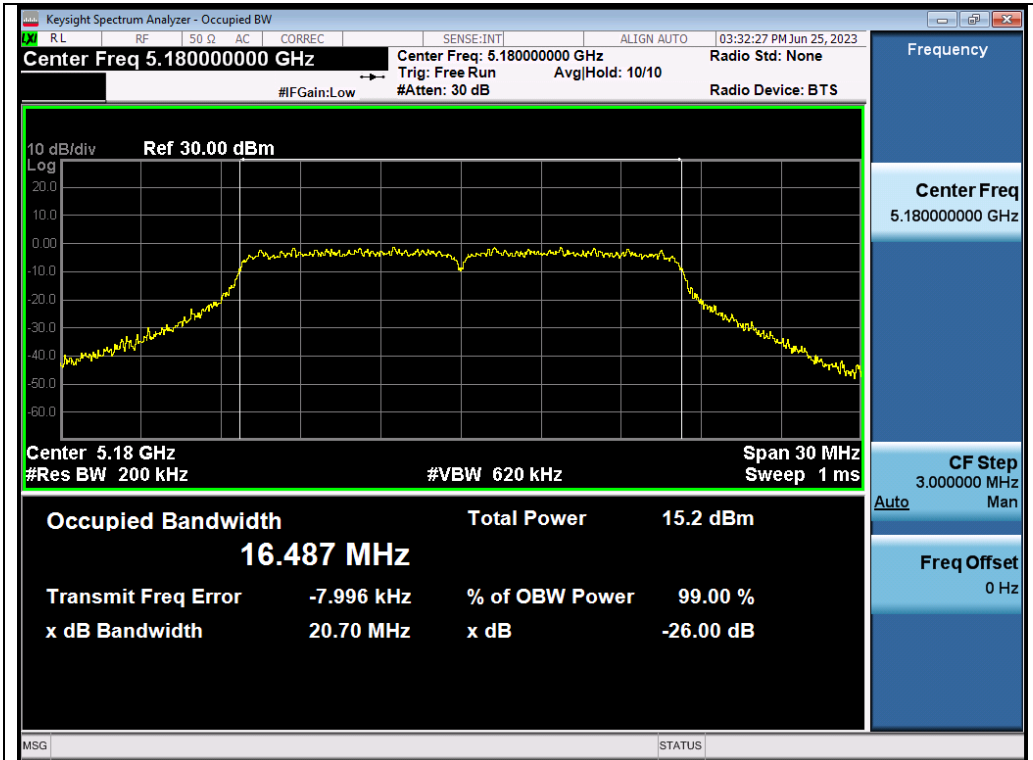
| Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz-ANT 1 |                    |                              |                     |              |              |
|---|--------------------|------------------------------|---------------------|--------------|--------------|
| Test Mode   | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | DTS Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a   | 5745               | 16.503                       | 16.33               | 0.5          | Pass         |
|   | 5785               | 16.480                       | 16.32               | 0.5          | Pass         |
|   | 5825               | 16.572                       | 16.29               | 0.5          | Pass         |
| 802.11n20   | 5745               | 17.820                       | 17.29               | 0.5          | Pass         |
|   | 5785               | 17.739                       | 16.67               | 0.5          | Pass         |
|   | 5825               | 17.687                       | 16.30               | 0.5          | Pass         |
| 802.11n40   | 5755               | 36.288                       | 36.42               | 0.5          | Pass         |
|   | 5795               | 36.325                       | 36.18               | 0.5          | Pass         |
| 802.11ac20  | 5745               | 17.687                       | 17.15               | 0.5          | Pass         |
|   | 5785               | 17.661                       | 17.25               | 0.5          | Pass         |
|   | 5825               | 17.704                       | 17.01               | 0.5          | Pass         |
| 802.11ac40  | 5755               | 36.254                       | 36.16               | 0.5          | Pass         |
|   | 5795               | 36.274                       | 36.24               | 0.5          | Pass         |
| 802.11ac80  | 5775               | 75.784                       | 75.92               | 0.5          | Pass         |
| 802.11ax20  | 5180               | 18.871                       | 17.78               | 0.5          | Pass         |
|   | 5200               | 18.855                       | 18.04               | 0.5          | Pass         |
|   | 5240               | 18.900                       | 18.29               | 0.5          | Pass         |
| 802.11ax40  | 5190               | 37.709                       | 37.53               | 0.5          | Pass         |
|   | 5230               | 37.762                       | 37.54               | 0.5          | Pass         |
| 802.11ax80  | 5210               | 77.363                       | 77.45               | 0.5          | Pass         |

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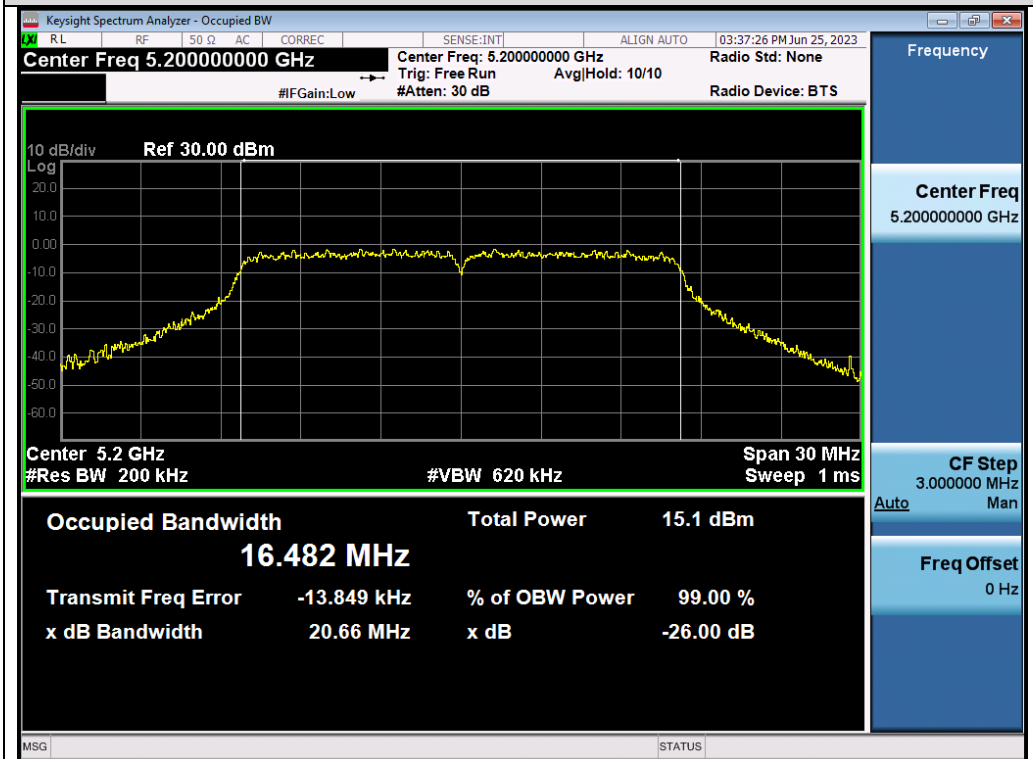
| Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz-ANT 2 |                    |                              |                     |              |              |
|---|--------------------|------------------------------|---------------------|--------------|--------------|
| Test Mode   | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | DTS Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a   | 5745               | 16.440                       | 16.31               | 0.5          | Pass         |
|   | 5785               | 16.438                       | 16.31               | 0.5          | Pass         |
|   | 5825               | 16.457                       | 16.32               | 0.5          | Pass         |
| 802.11n20   | 5745               | 17.619                       | 17.03               | 0.5          | Pass         |
|   | 5785               | 17.608                       | 16.69               | 0.5          | Pass         |
|   | 5825               | 17.619                       | 17.03               | 0.5          | Pass         |
| 802.11n40   | 5755               | 36.244                       | 36.02               | 0.5          | Pass         |
|   | 5795               | 36.276                       | 35.95               | 0.5          | Pass         |
| 802.11ac20  | 5745               | 17.632                       | 16.90               | 0.5          | Pass         |
|   | 5785               | 17.603                       | 17.13               | 0.5          | Pass         |
|   | 5825               | 17.607                       | 17.02               | 0.5          | Pass         |
| 802.11ac40  | 5755               | 36.161                       | 35.76               | 0.5          | Pass         |
|   | 5795               | 36.160                       | 35.49               | 0.5          | Pass         |
| 802.11ac80  | 5775               | 75.702                       | 76.00               | 0.5          | Pass         |
| 802.11ax20  | 5180               | 18.860                       | 18.20               | 0.5          | Pass         |
|   | 5200               | 18.860                       | 18.24               | 0.5          | Pass         |
|   | 5240               | 18.850                       | 17.96               | 0.5          | Pass         |
| 802.11ax40  | 5190               | 37.703                       | 37.53               | 0.5          | Pass         |
|   | 5230               | 37.735                       | 36.63               | 0.5          | Pass         |
| 802.11ax80  | 5210               | 77.301                       | 76.48               | 0.5          | Pass         |

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**Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz**

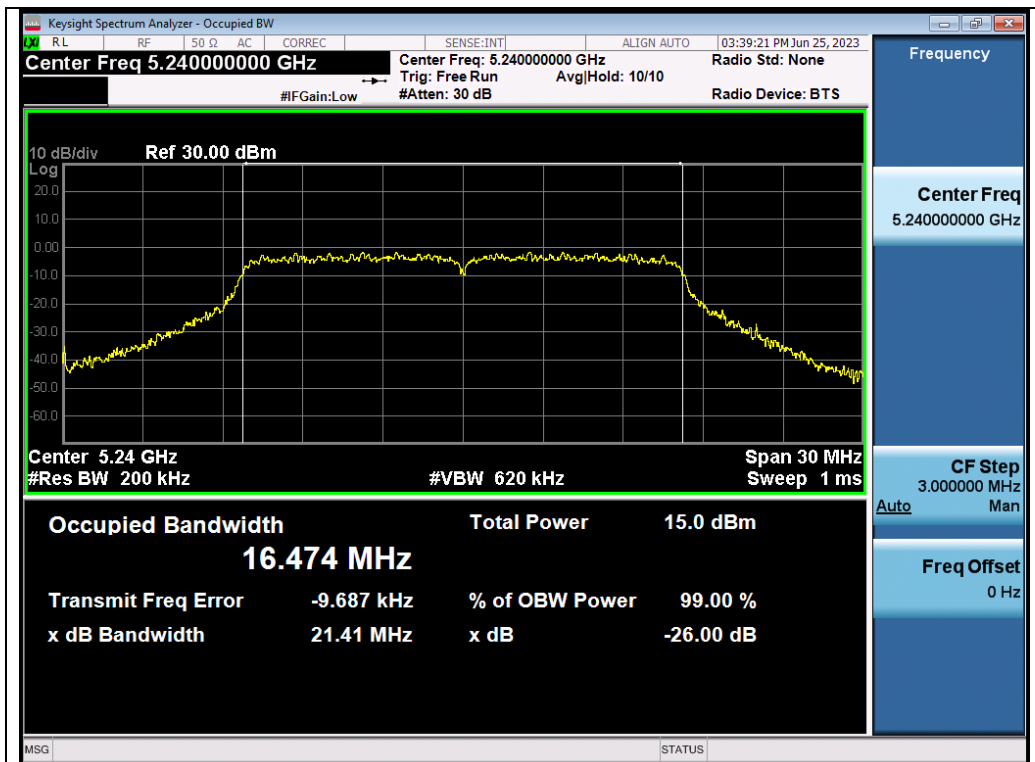


Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_OBW

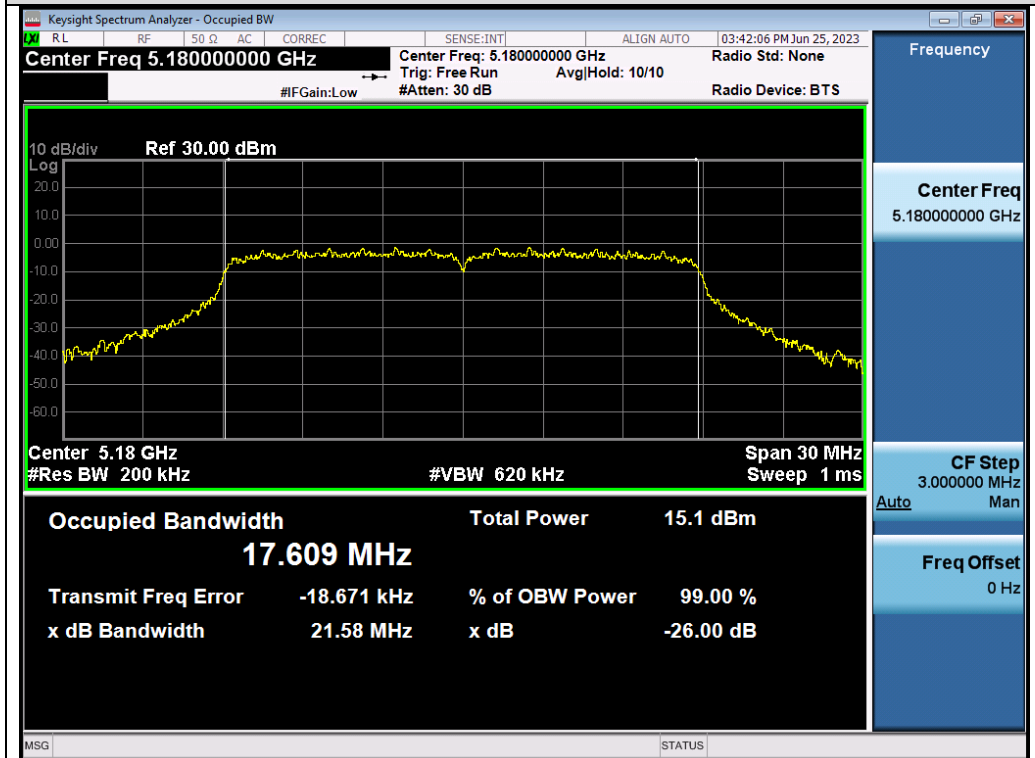


Test\_Graph\_802.11a\_ANT1\_5200\_6Mbps\_OBW

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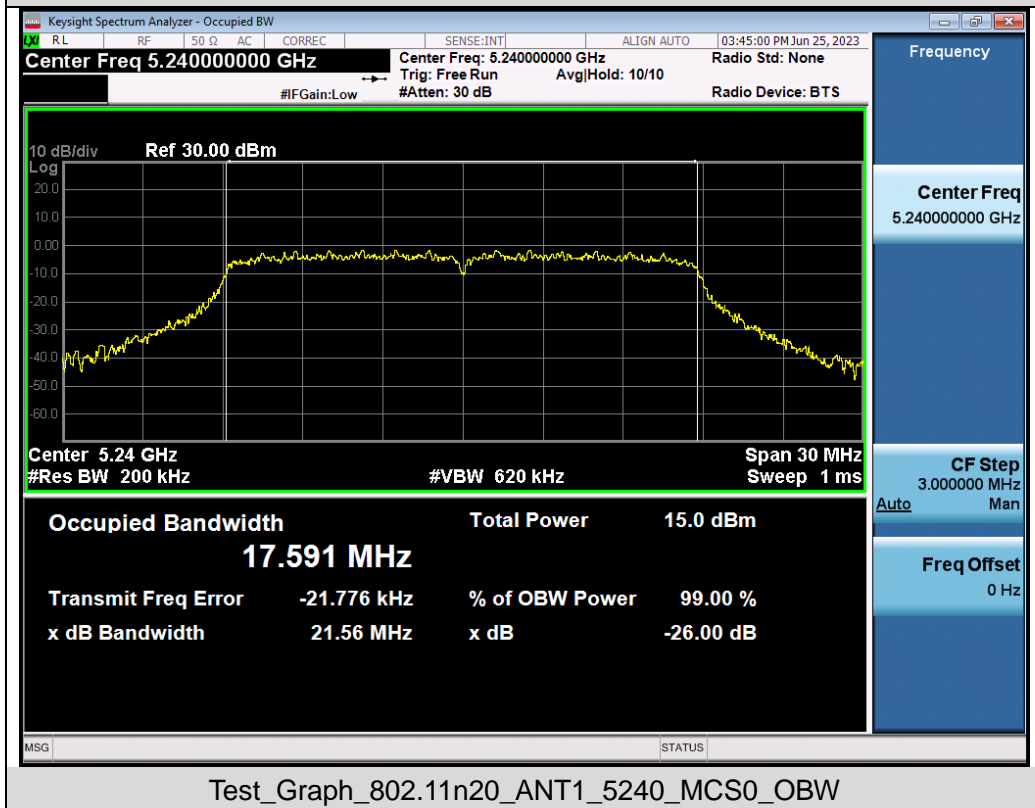
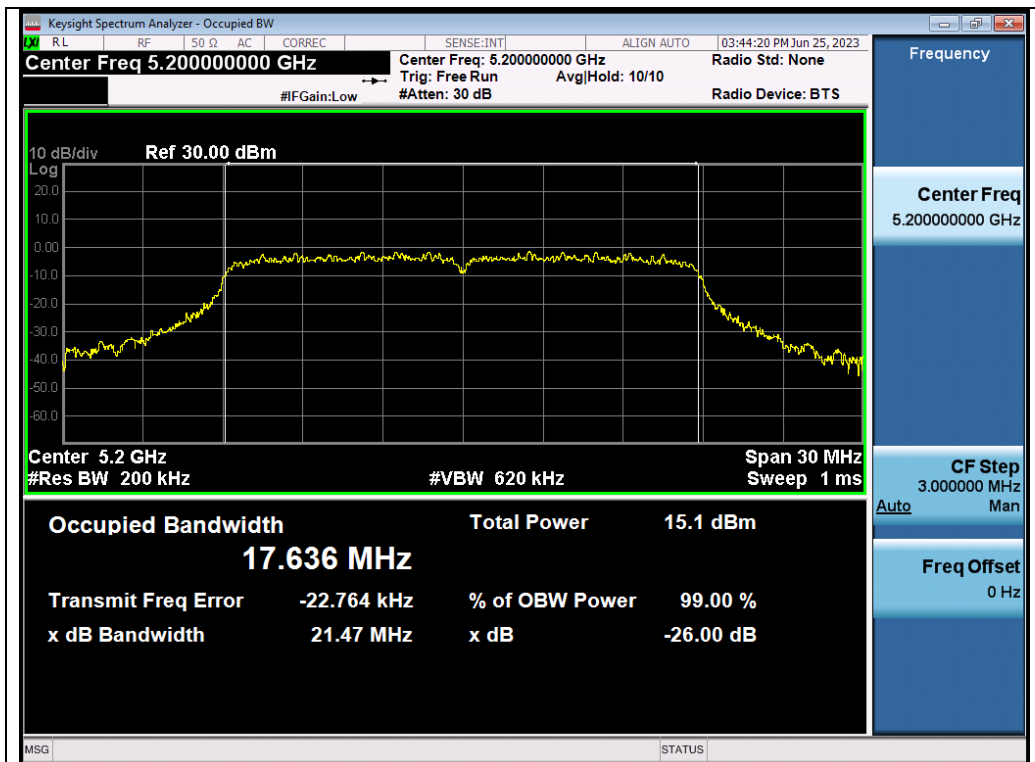


Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_OBW

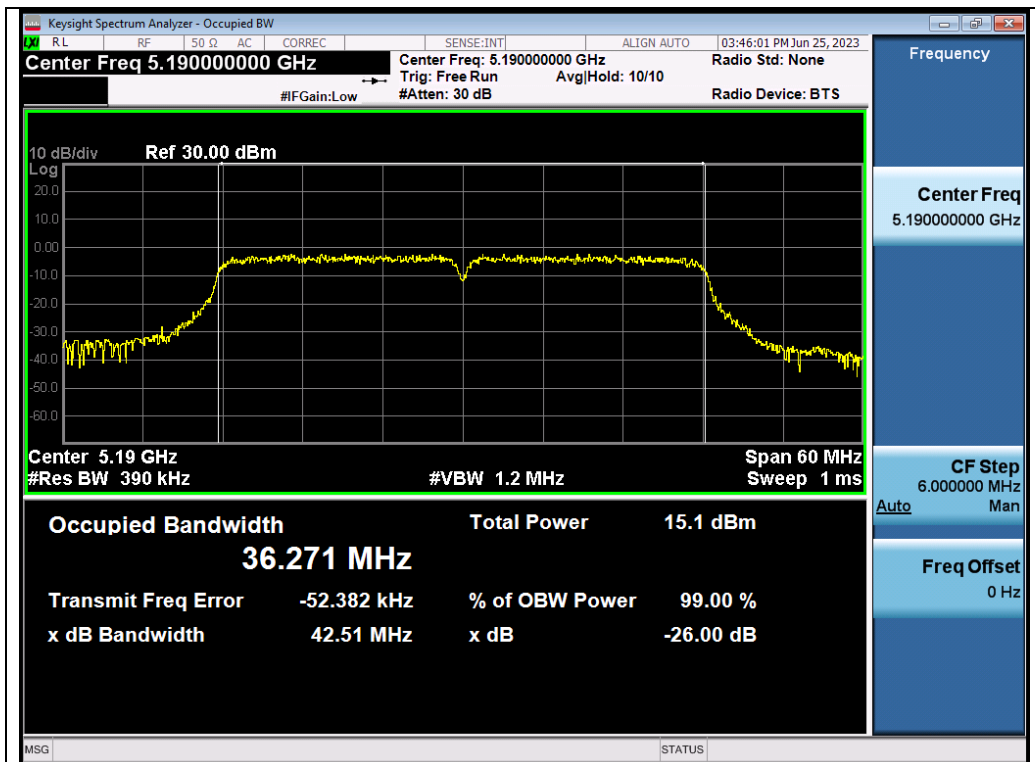


Test\_Graph\_802.11n20\_ANT1\_5180\_MCS0\_OBW

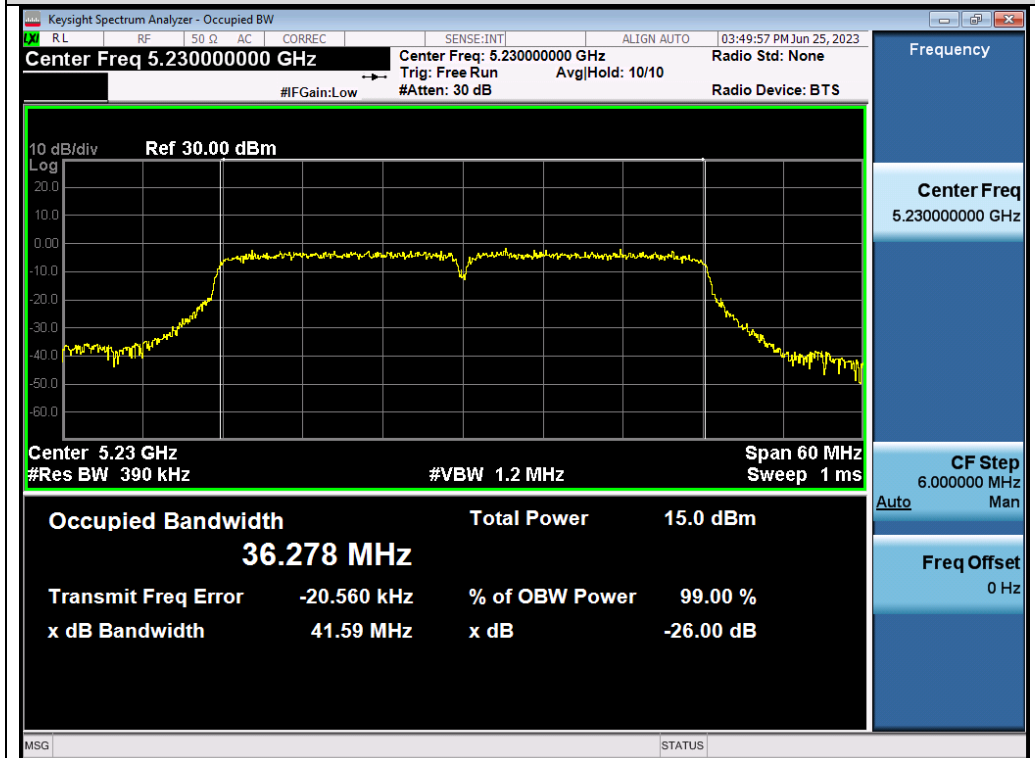
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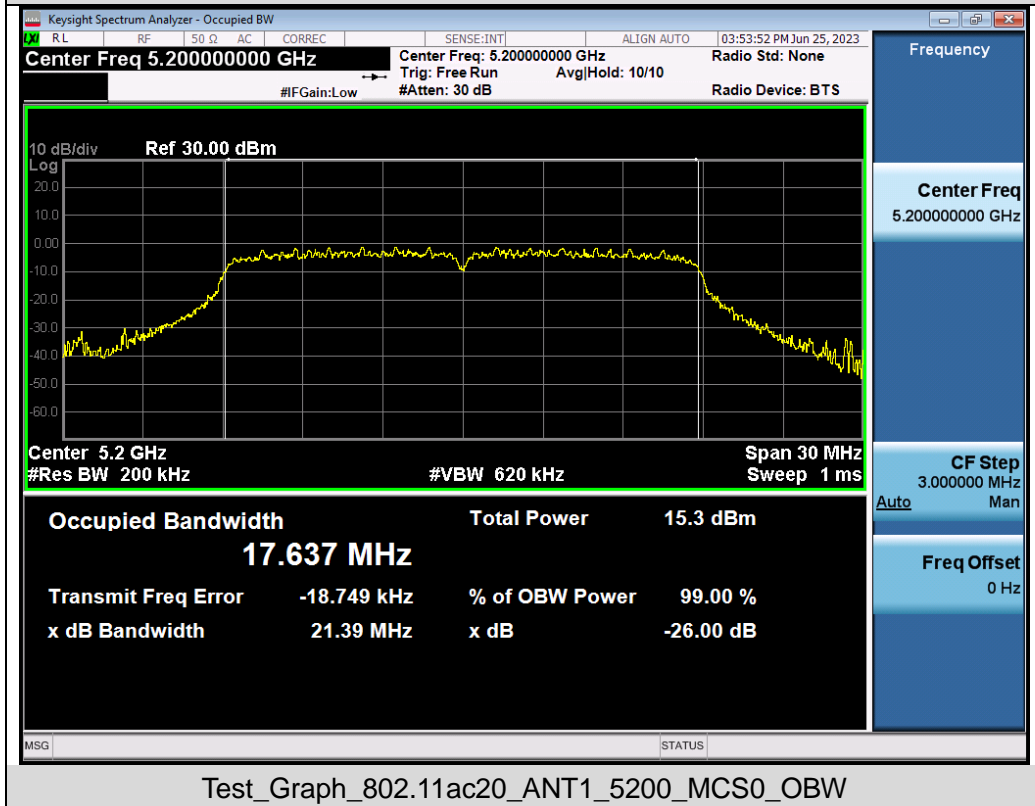
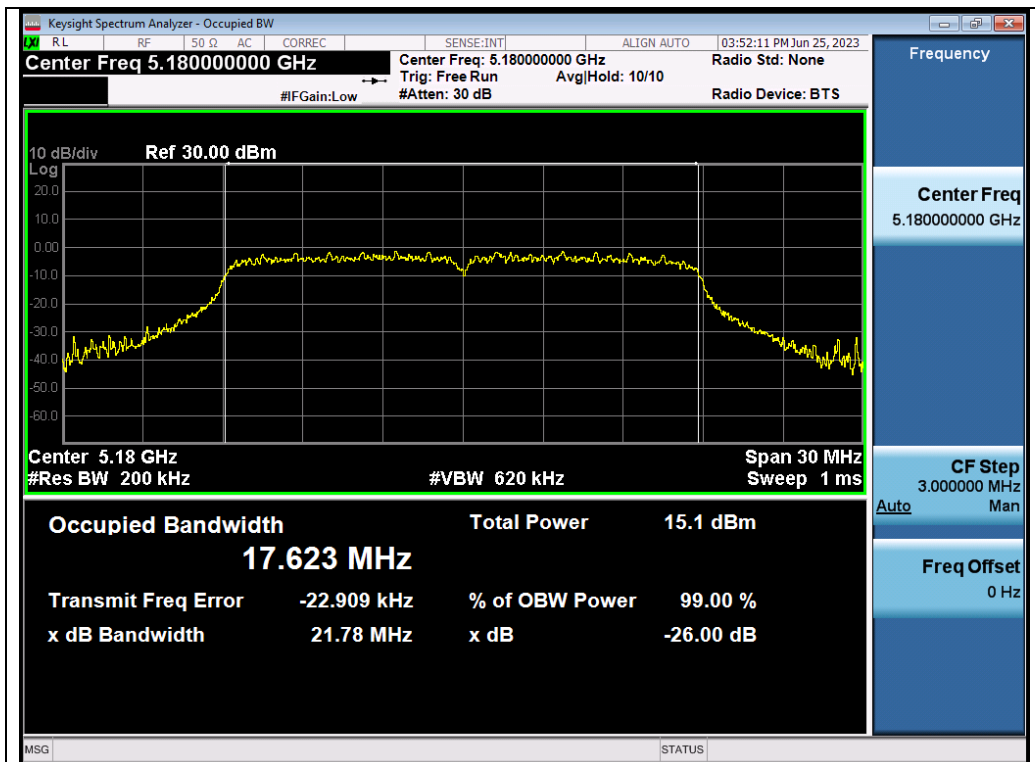
Test\_Graph\_802.11n40\_ANT1\_5190\_MCS0\_OBW



Test\_Graph\_802.11n40\_ANT1\_5230\_MCS0\_OBW

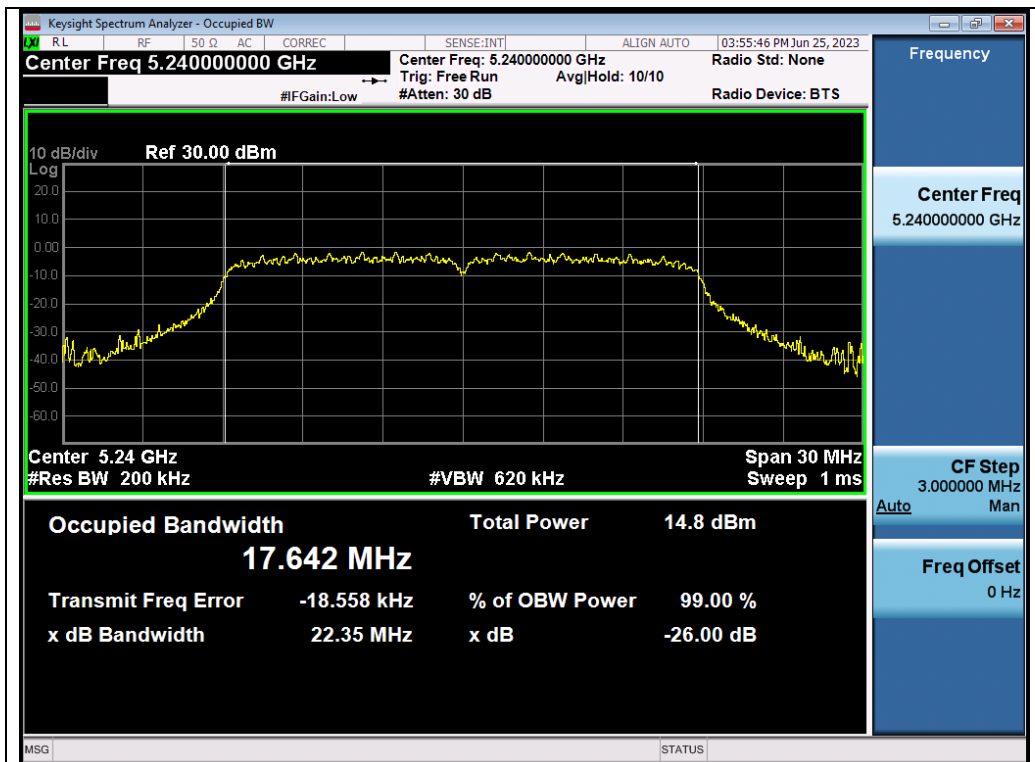
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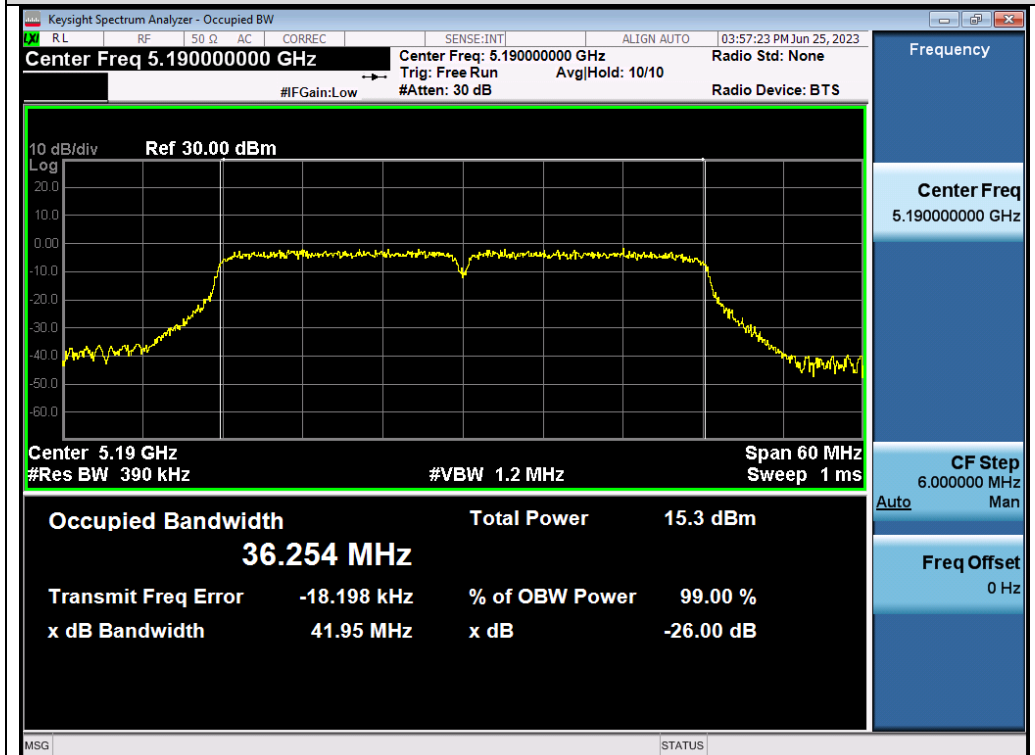


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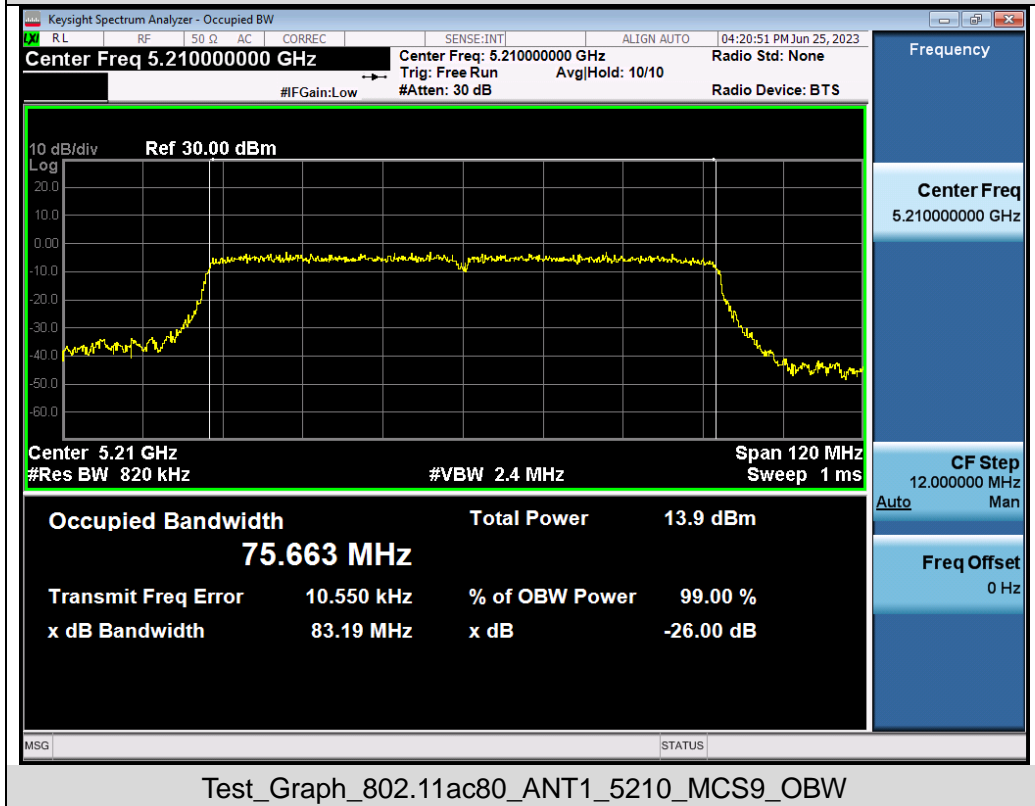
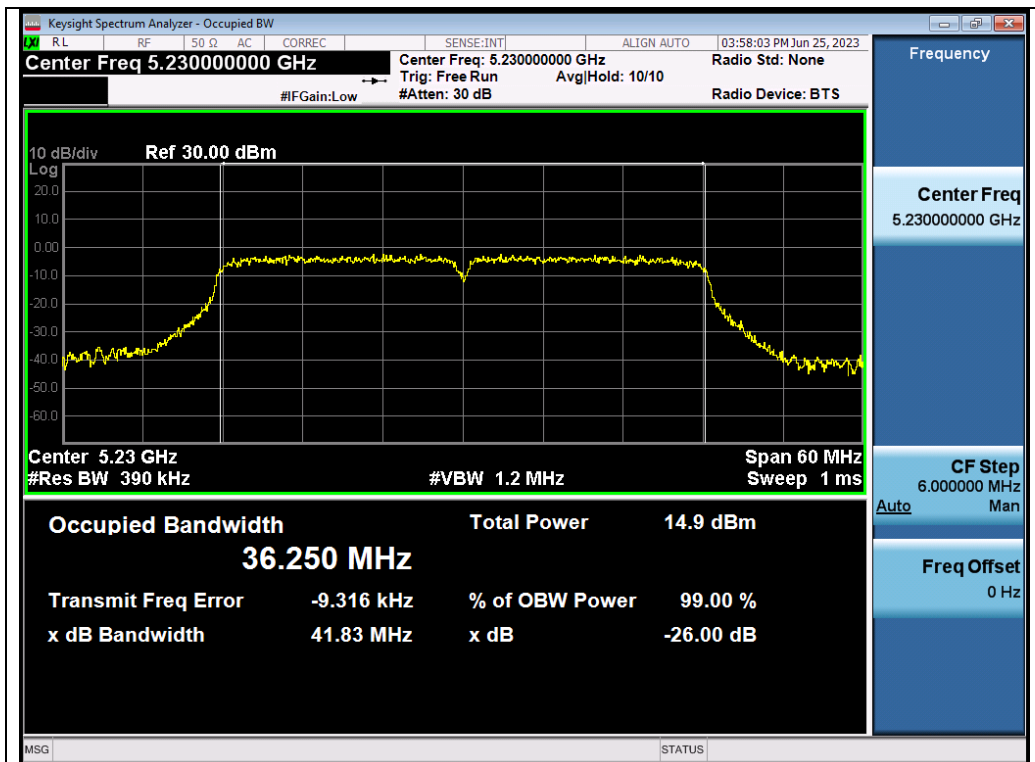


Test\_Graph\_802.11ac20\_ANT1\_5240\_MCS9\_OBW

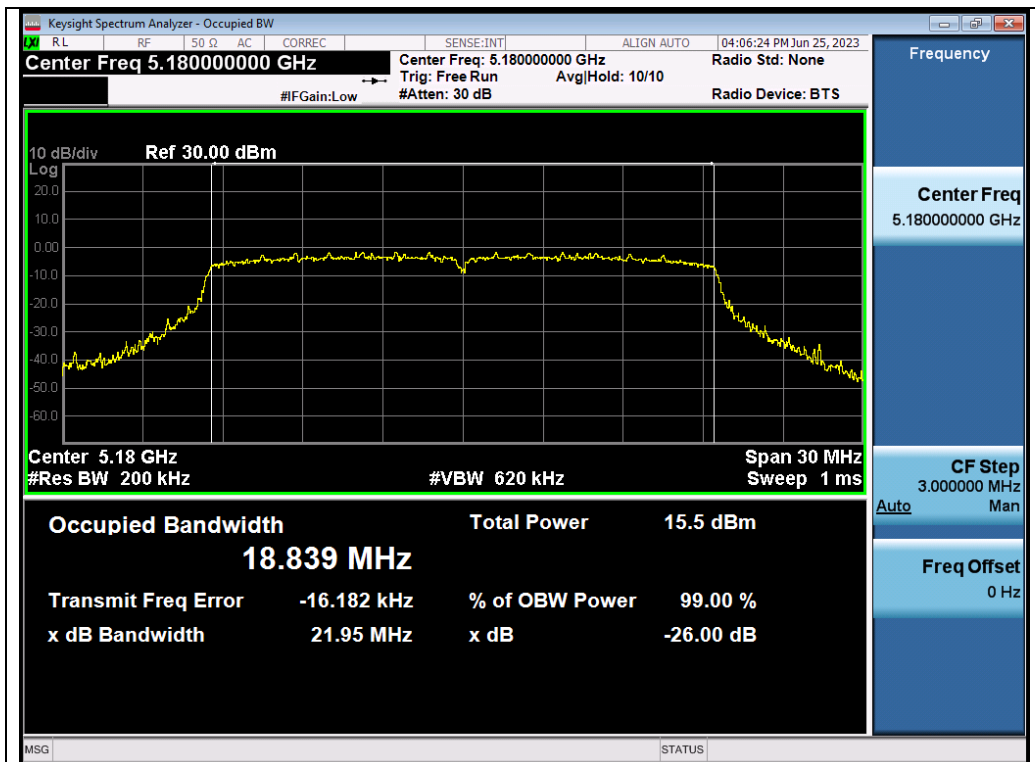


Test\_Graph\_802.11ac40\_ANT1\_5190\_MCS9\_OBW

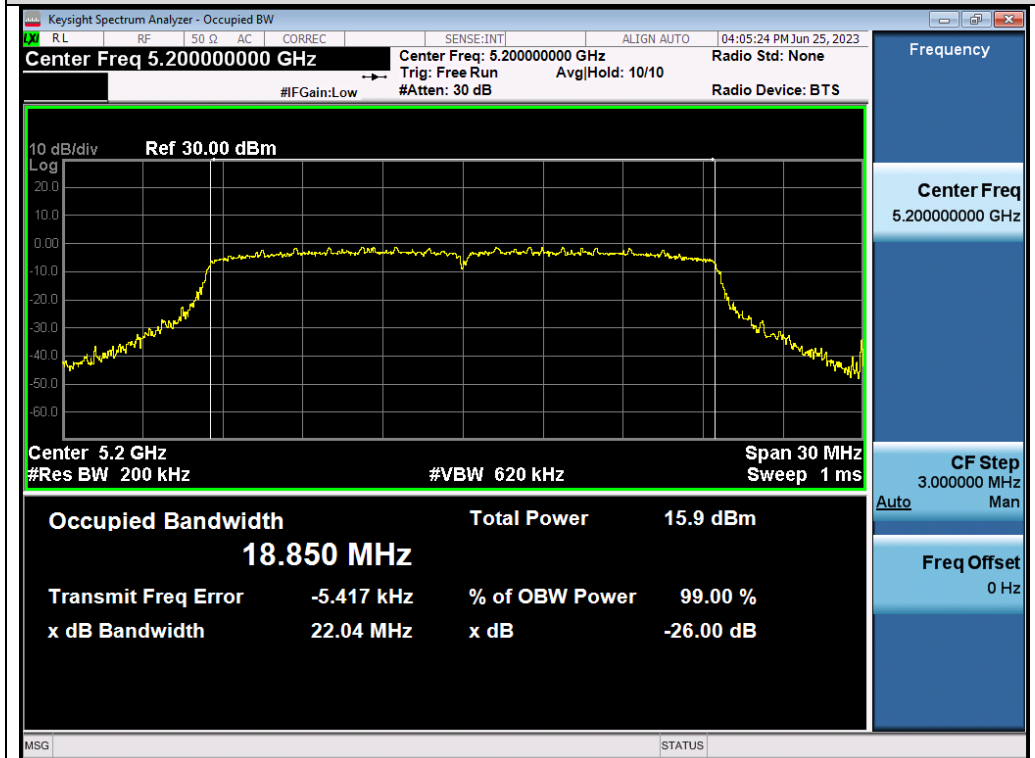
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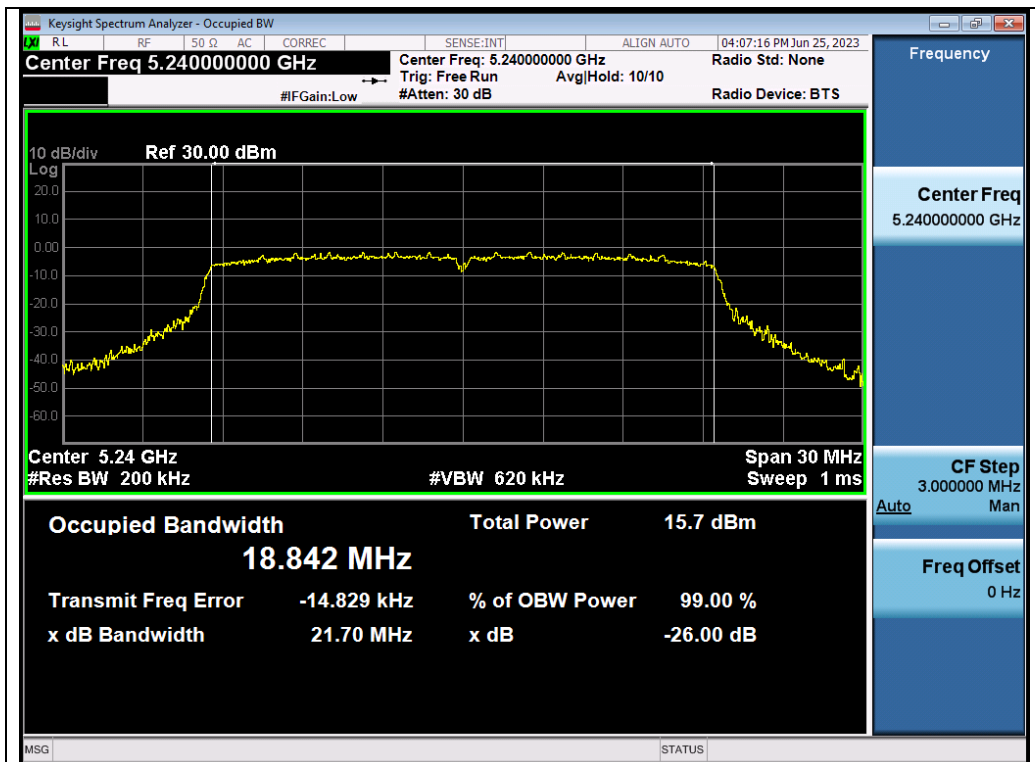


Test\_Graph\_802.11ax20\_ANT1\_5180\_MCS0\_OBW

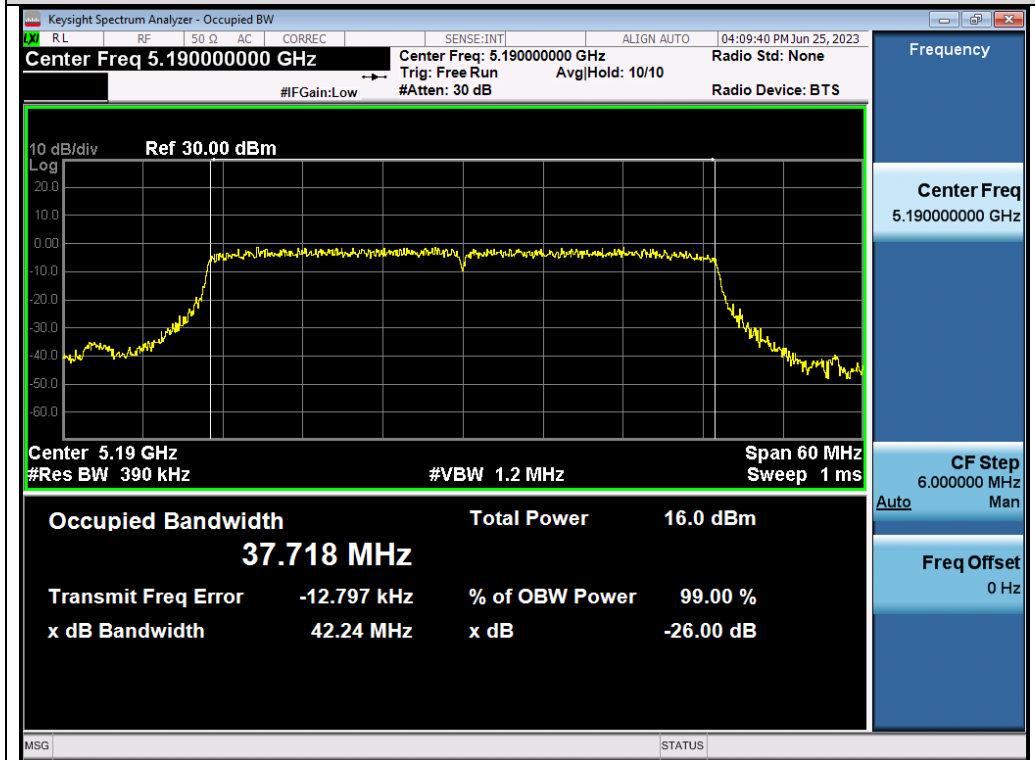


Test\_Graph\_802.11ax20\_ANT1\_5200\_MCS0\_OBW

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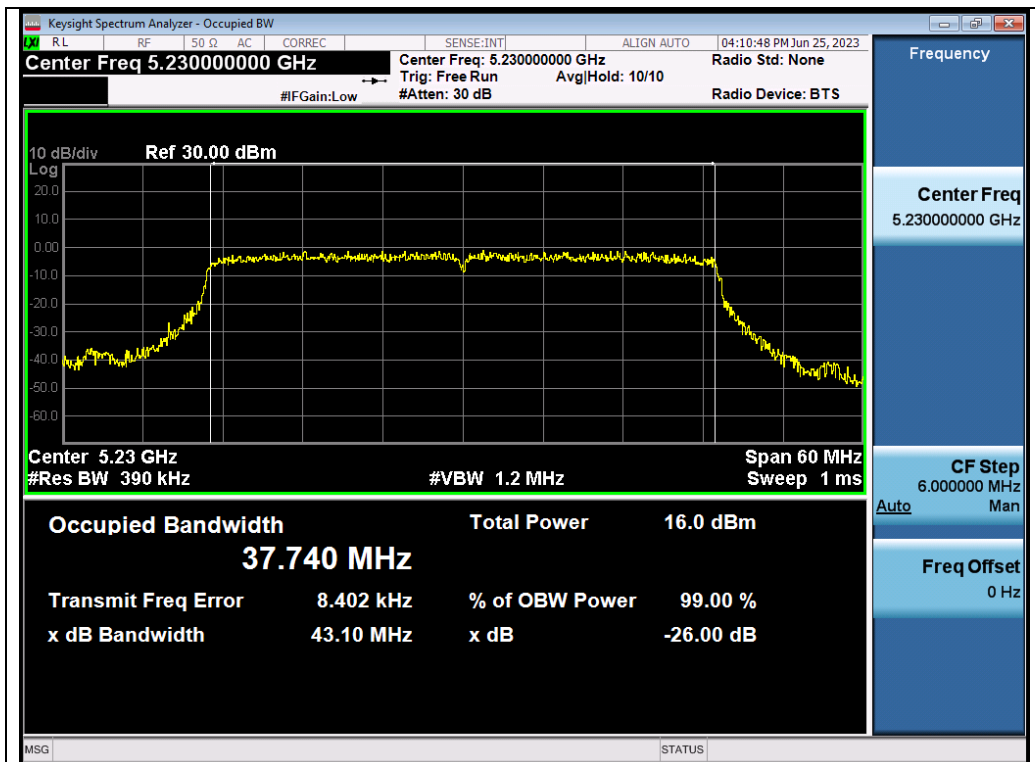


Test\_Graph\_802.11ax20\_ANT1\_5240\_MCS0\_OBW

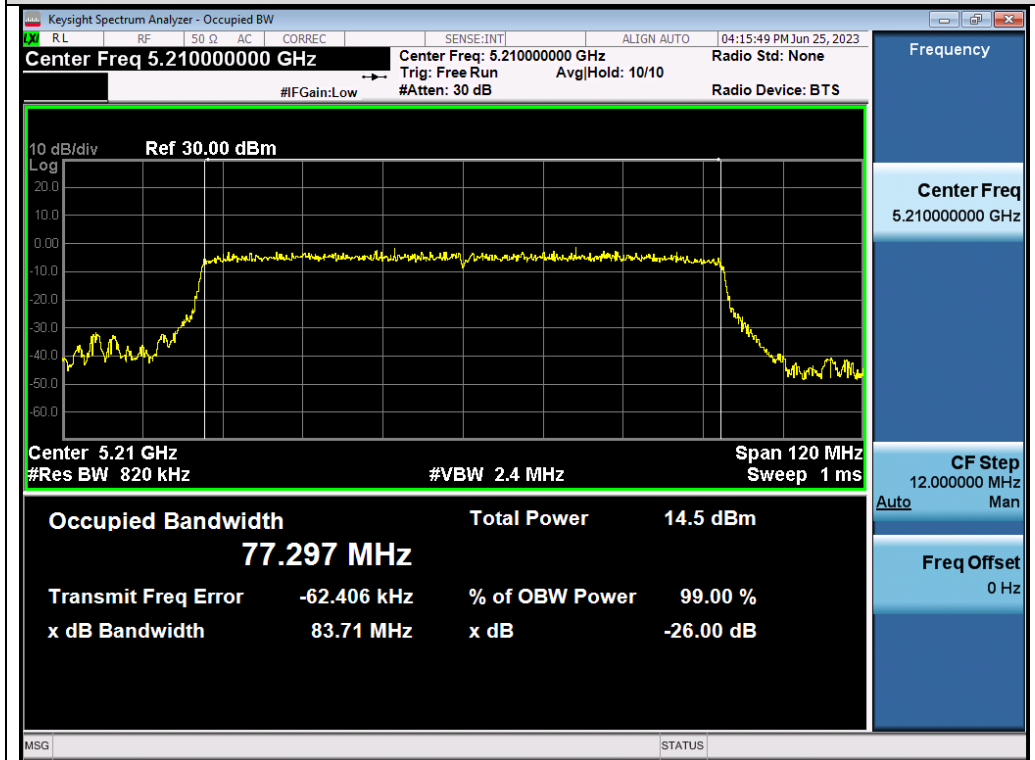


Test\_Graph\_802.11ax40\_ANT1\_5190\_MCS0\_OBW

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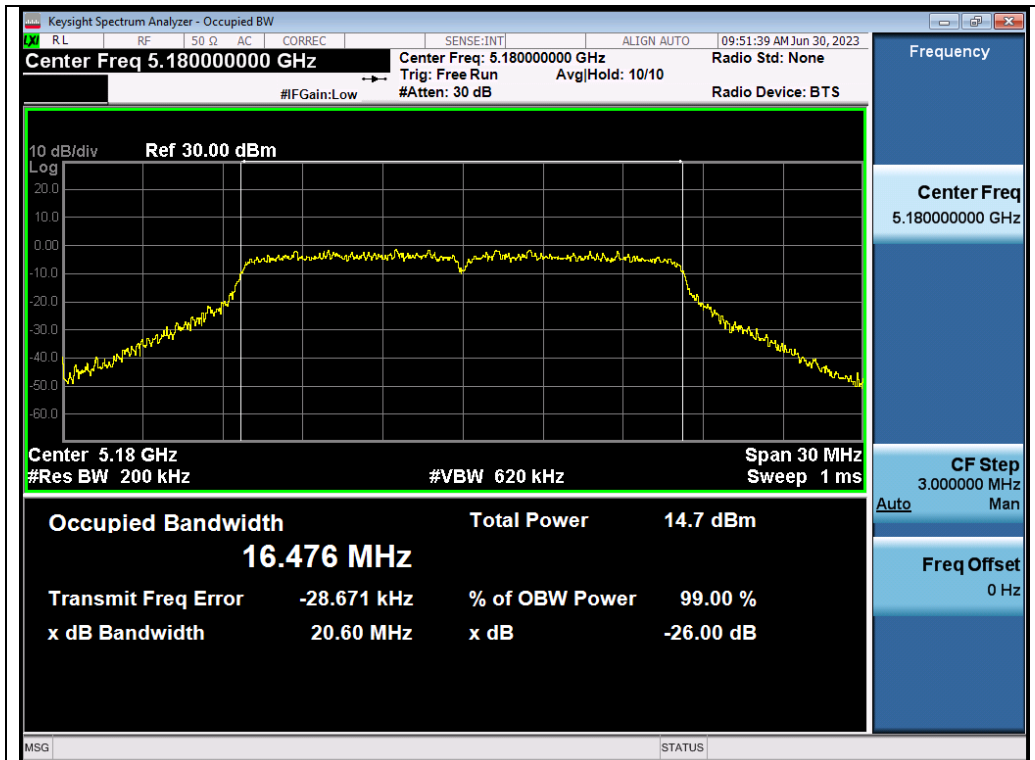
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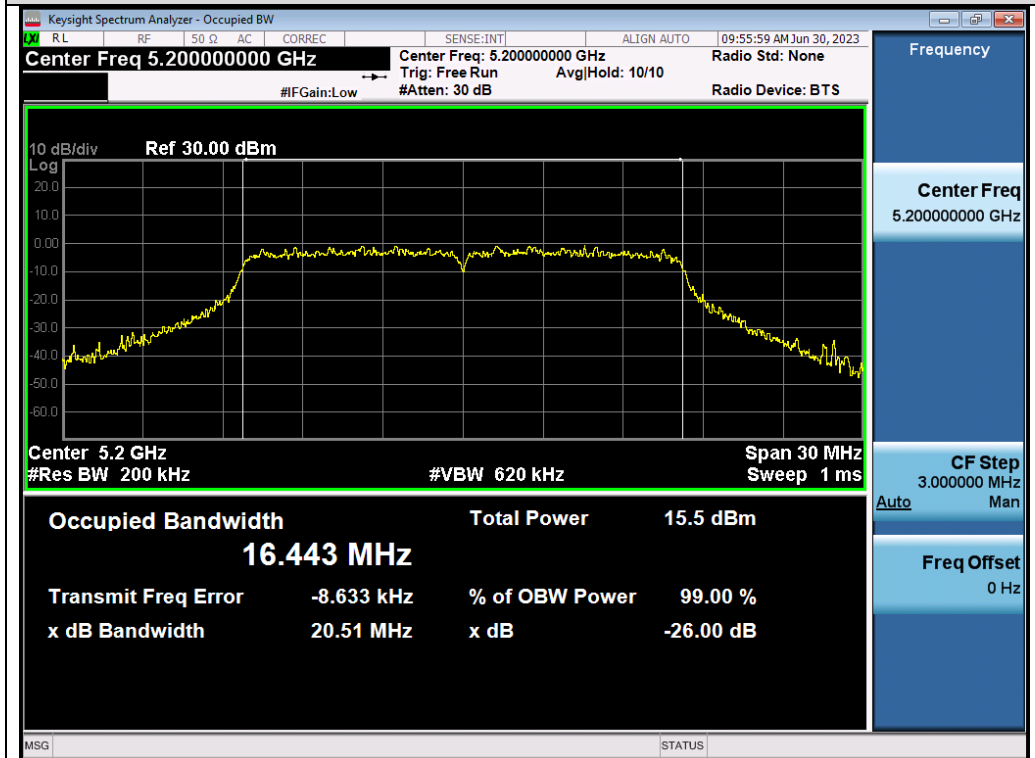
Test\_Graph\_802.11ax80\_ANT1\_5210\_MCS0\_OBW

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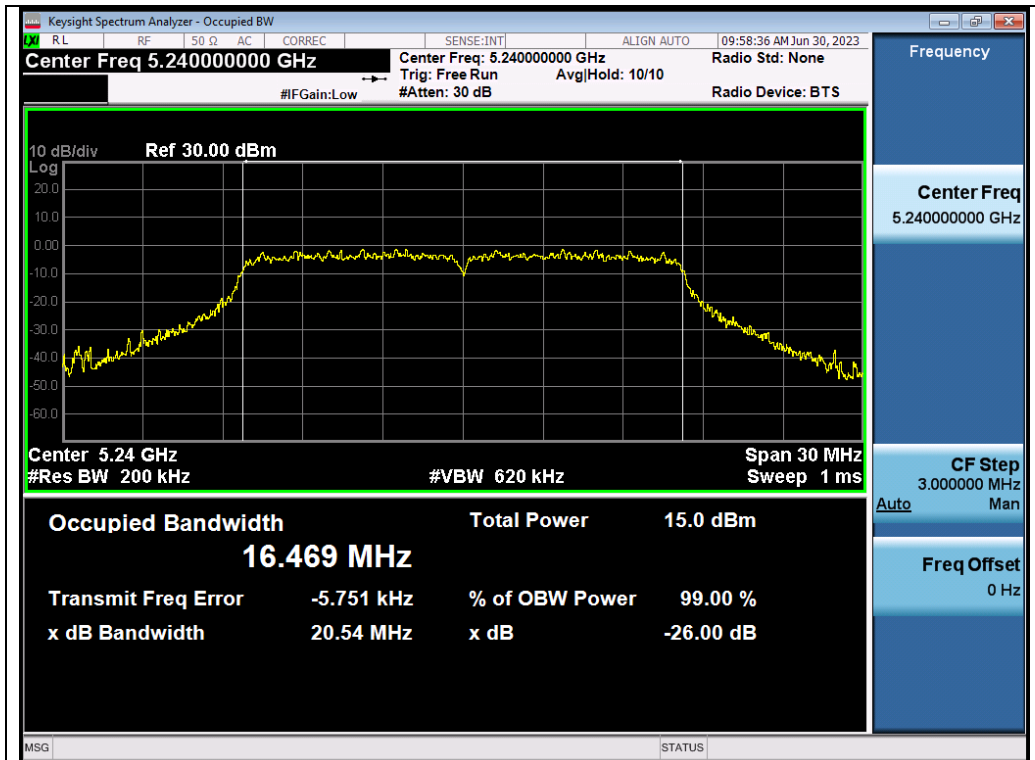


Test\_Graph\_802.11a\_ANT2\_5180\_6Mbps\_OBW

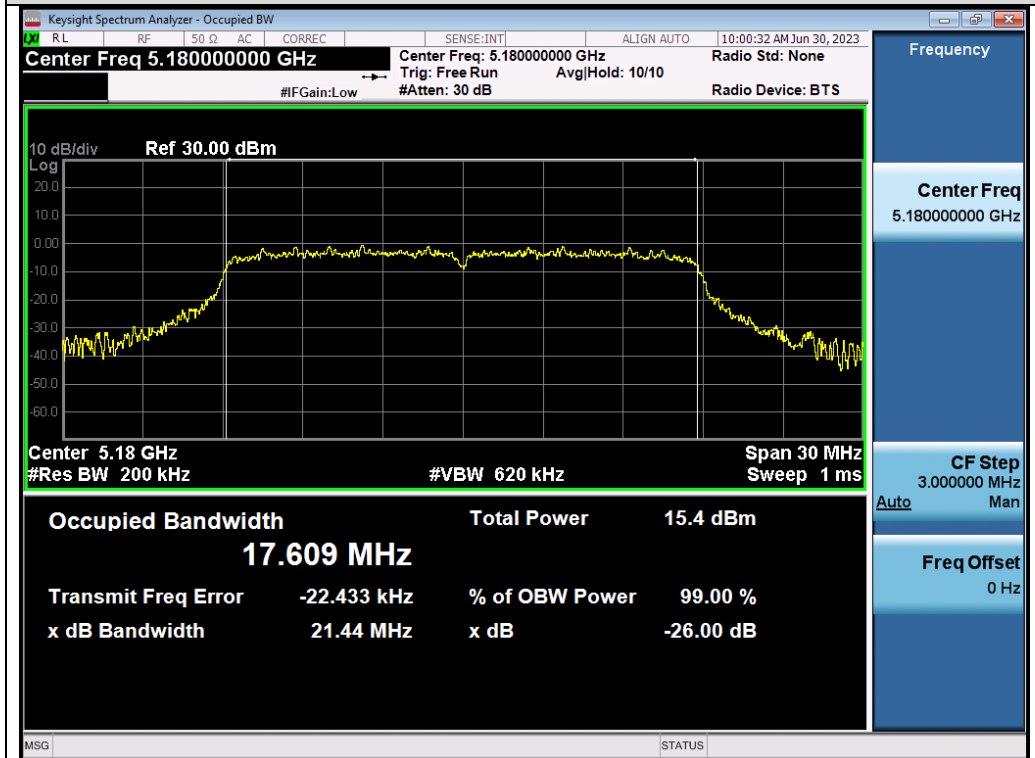


Test\_Graph\_802.11a\_ANT2\_5200\_6Mbps\_OBW

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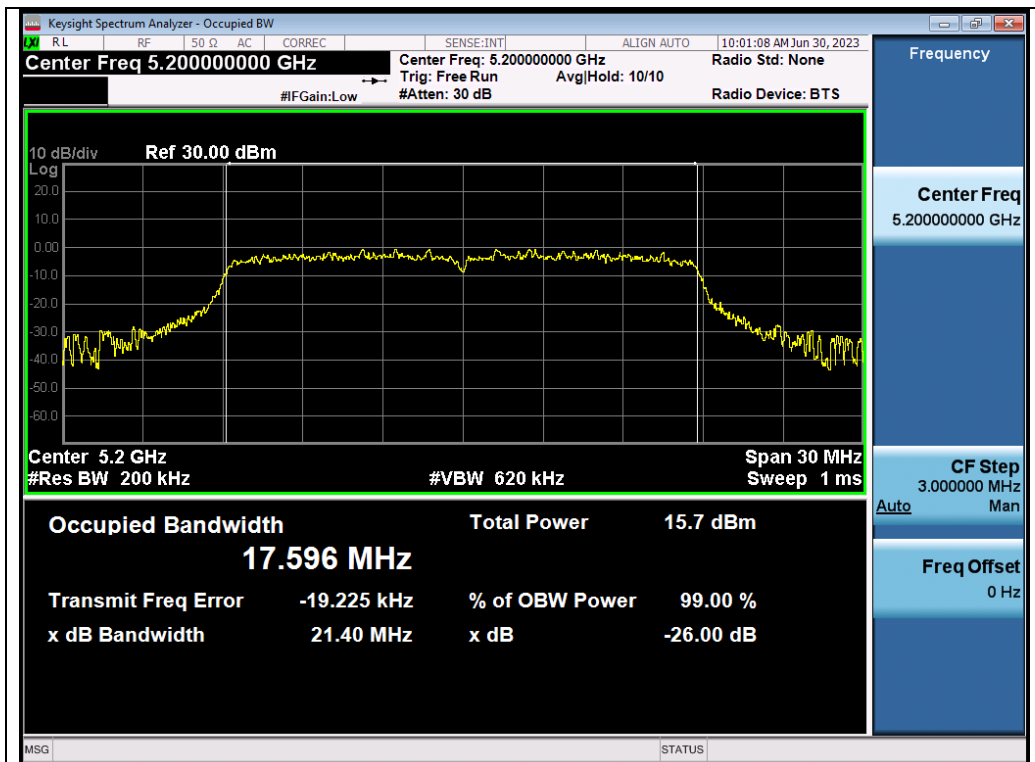
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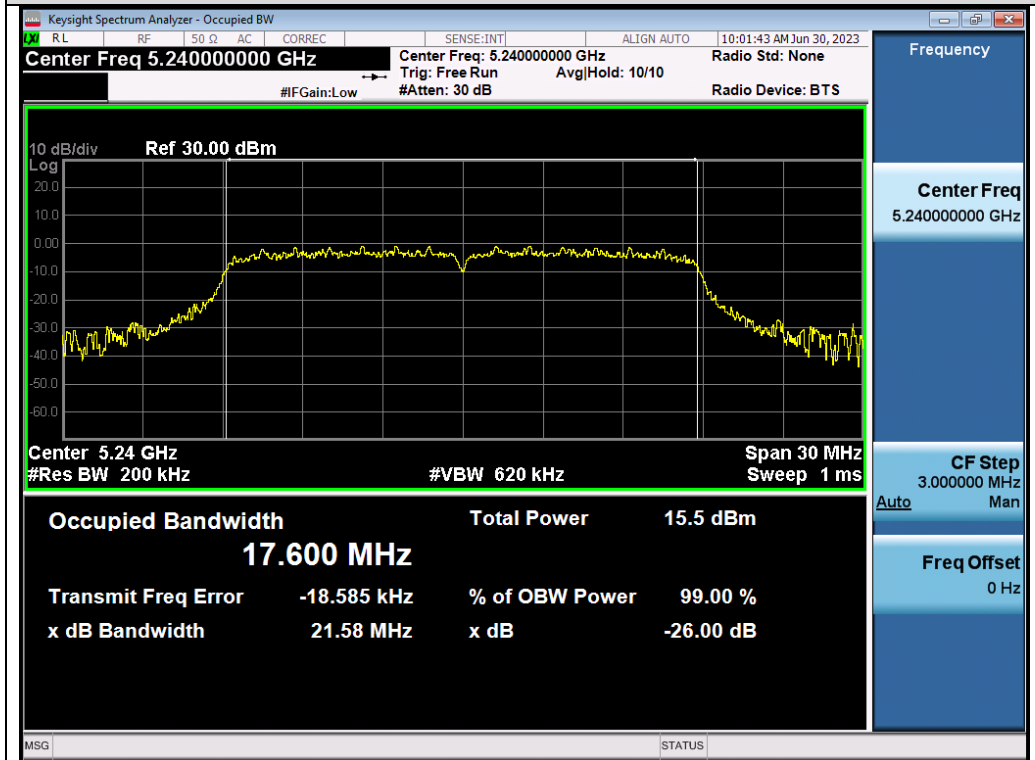
Test\_Graph\_802.11n20\_ANT2\_5180\_MCS0\_OBW

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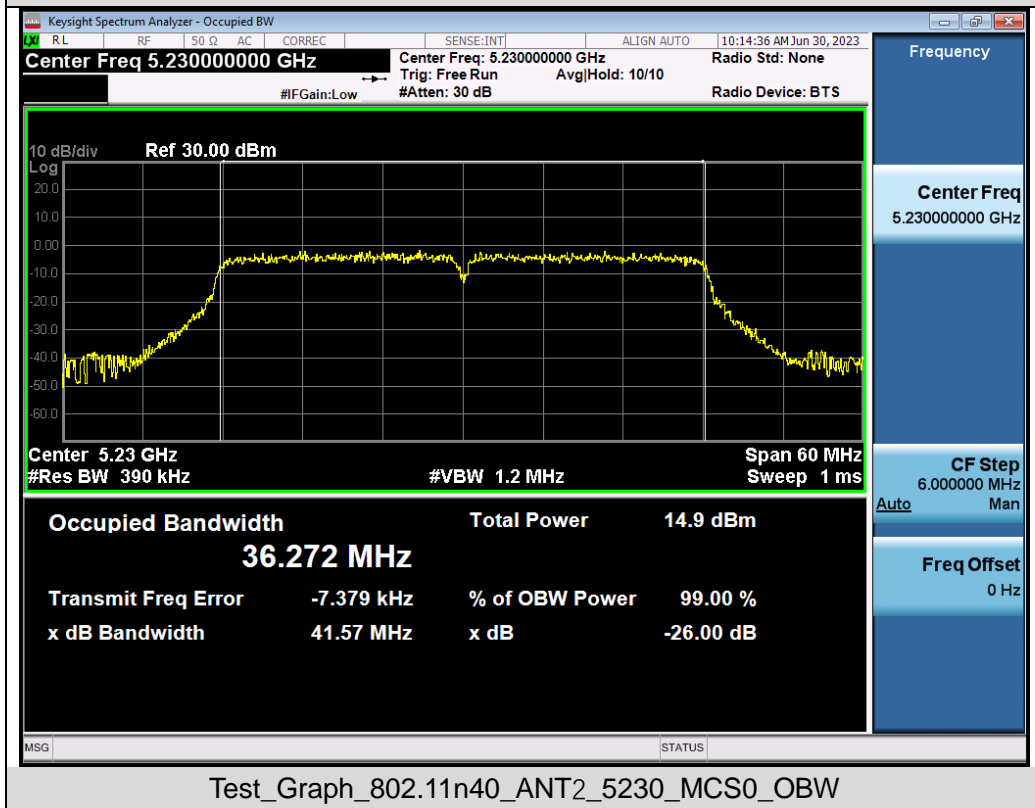
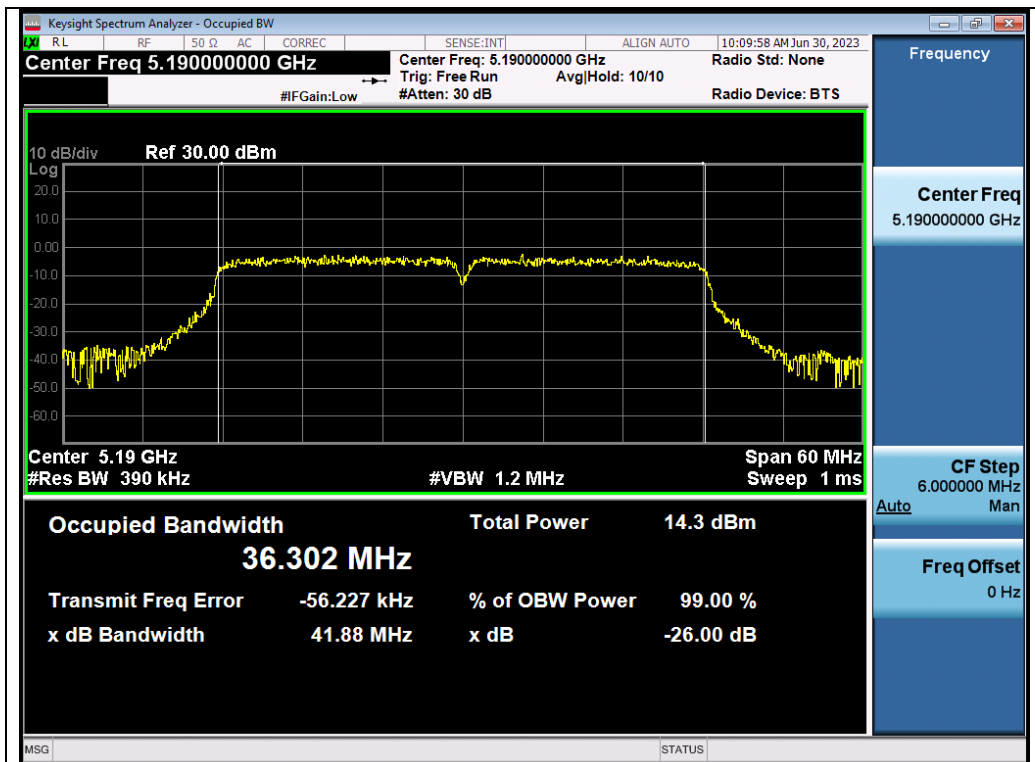


Test\_Graph\_802.11n20\_ANT2\_5200\_MCS0\_OBW

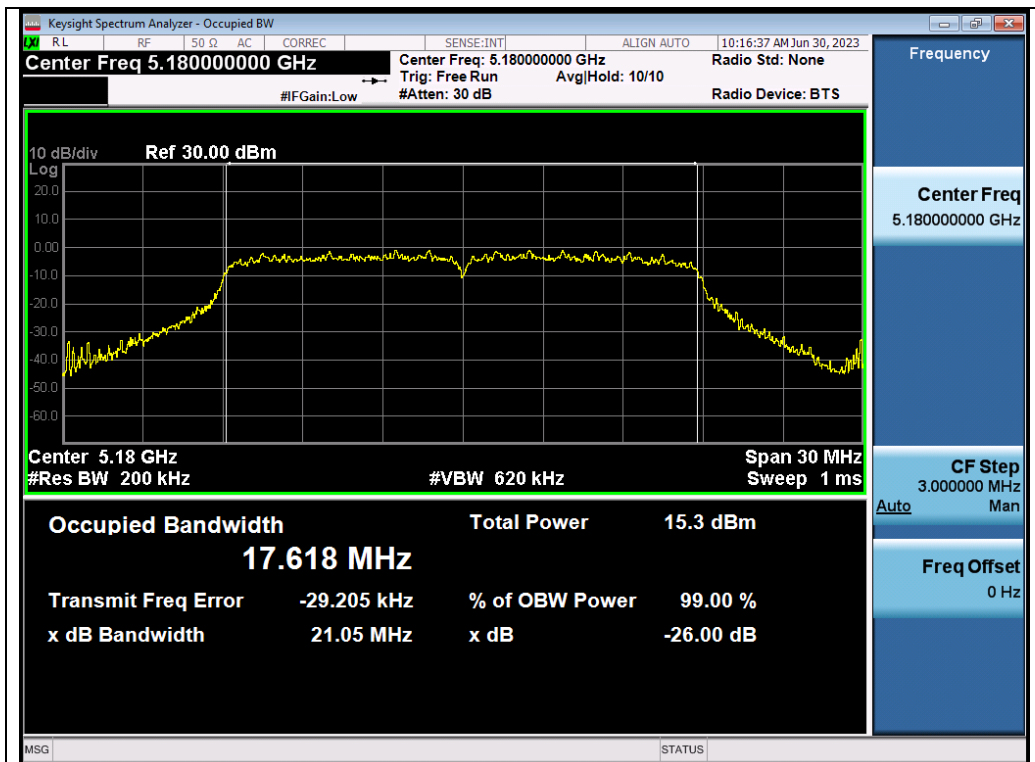


Test\_Graph\_802.11n20\_ANT2\_5240\_MCS0\_OBW

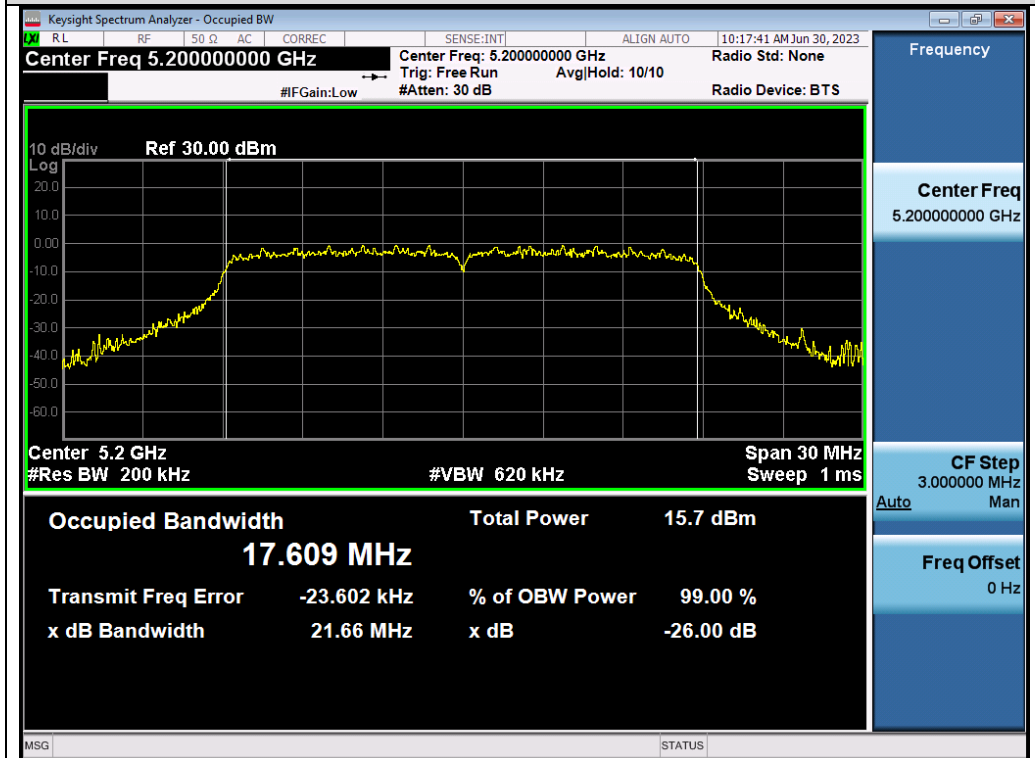
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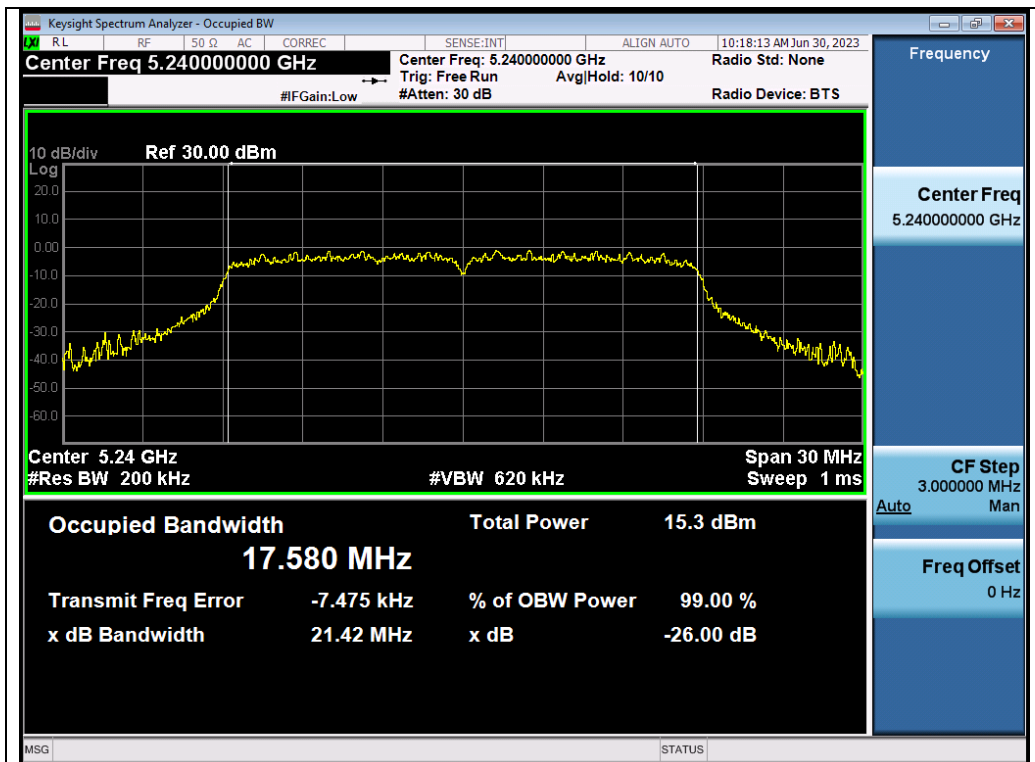


Test\_Graph\_802.11ac20\_ANT2\_5180\_MCS0\_OBW

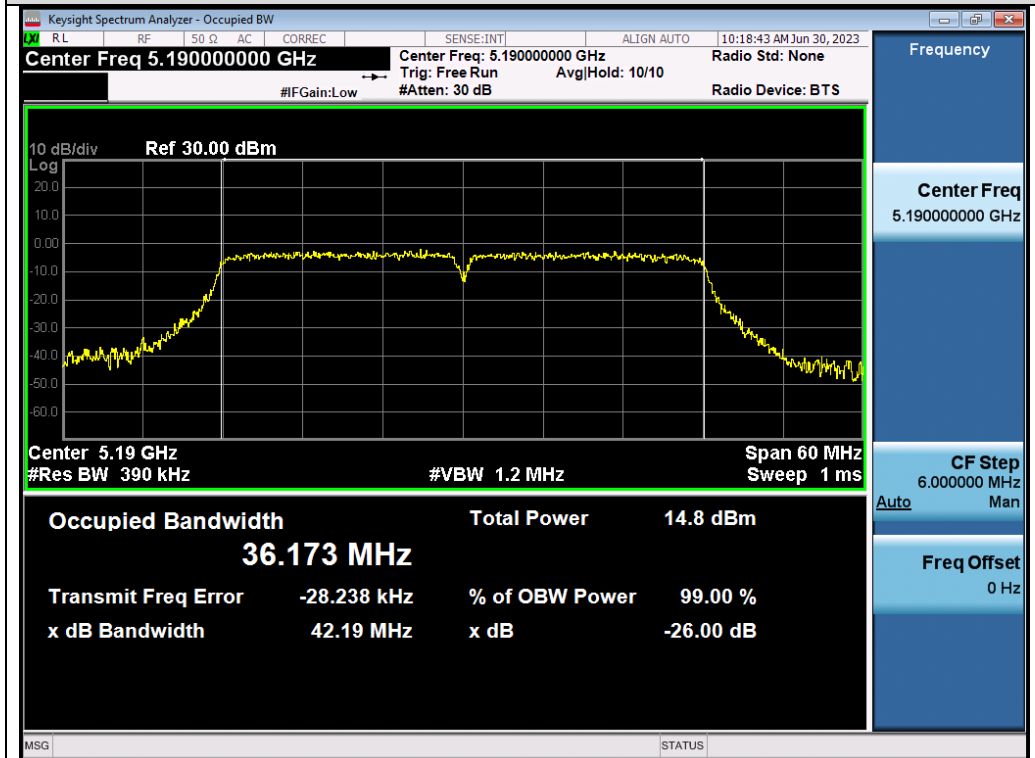


Test\_Graph\_802.11ac20\_ANT2\_5200\_MCS0\_OBW

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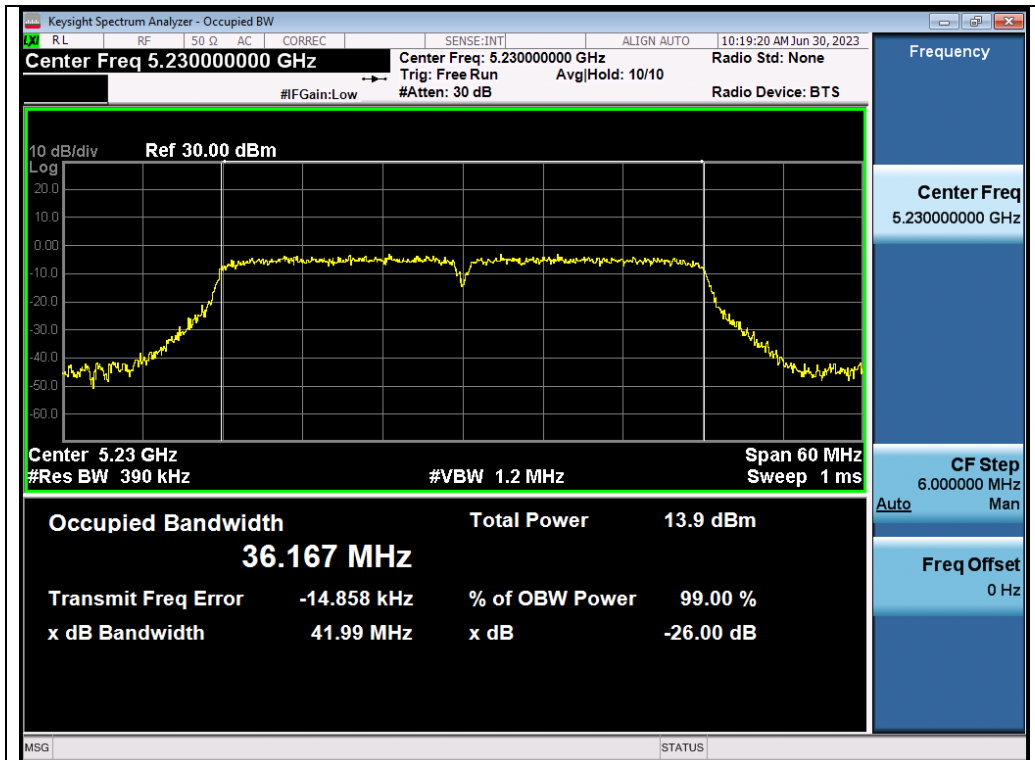


Test\_Graph\_802.11ac20\_ANT2\_5240\_MCS9\_OBW

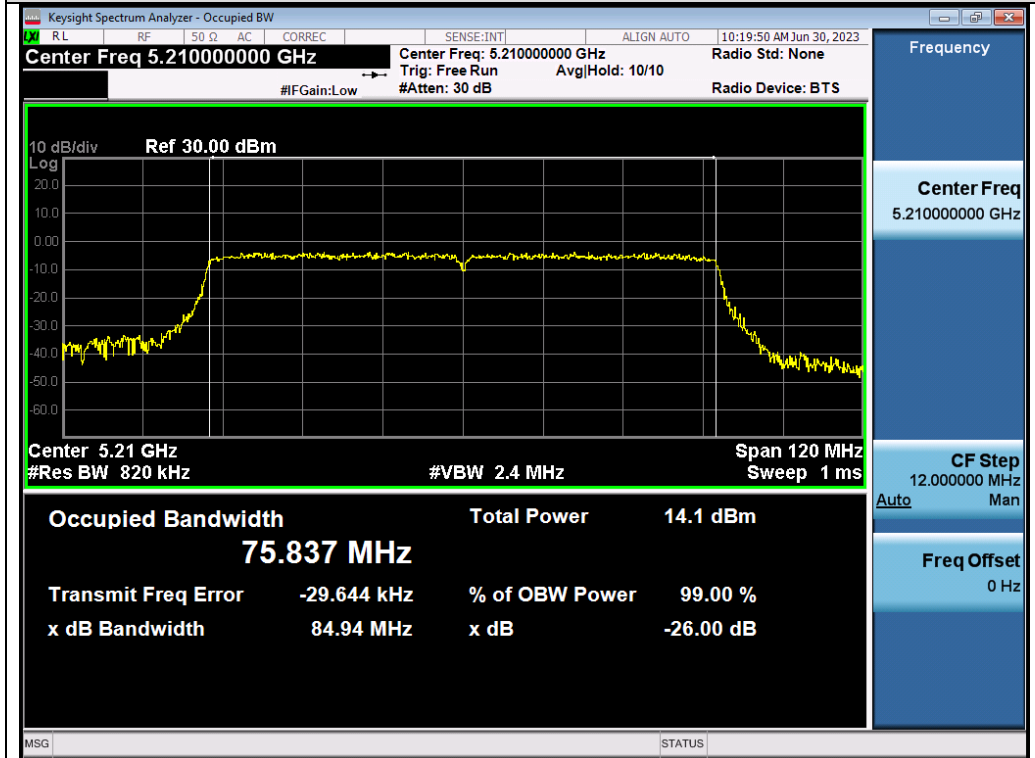


Test\_Graph\_802.11ac40\_ANT2\_5190\_MCS9\_OBW

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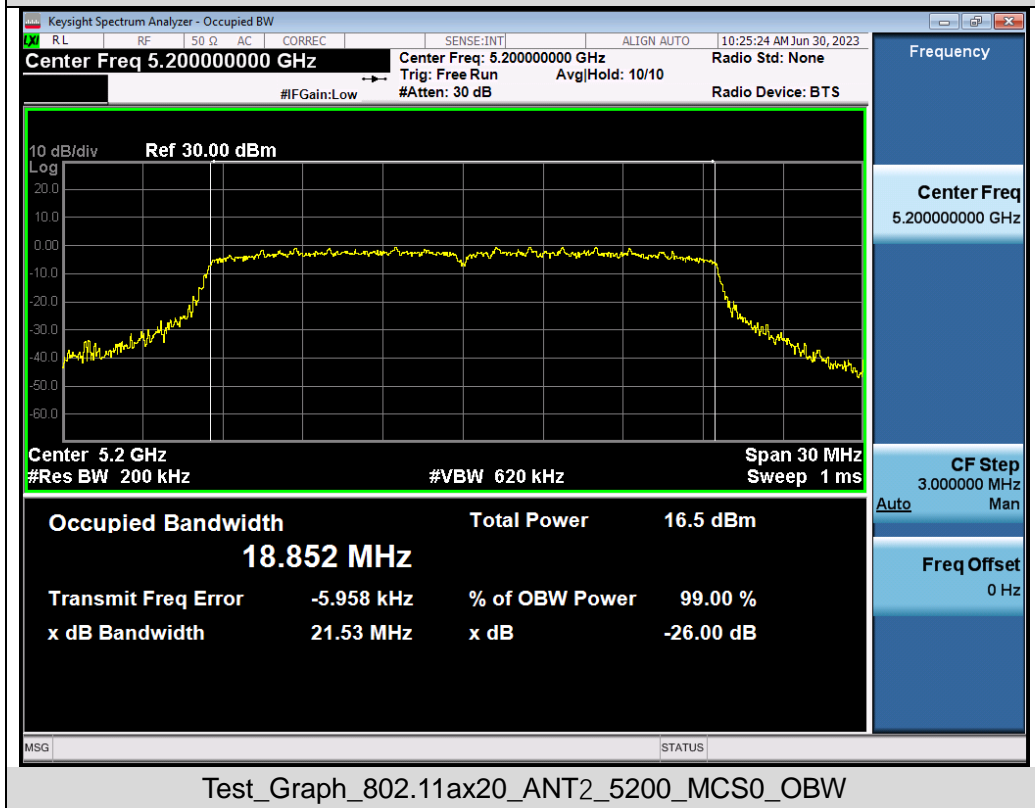
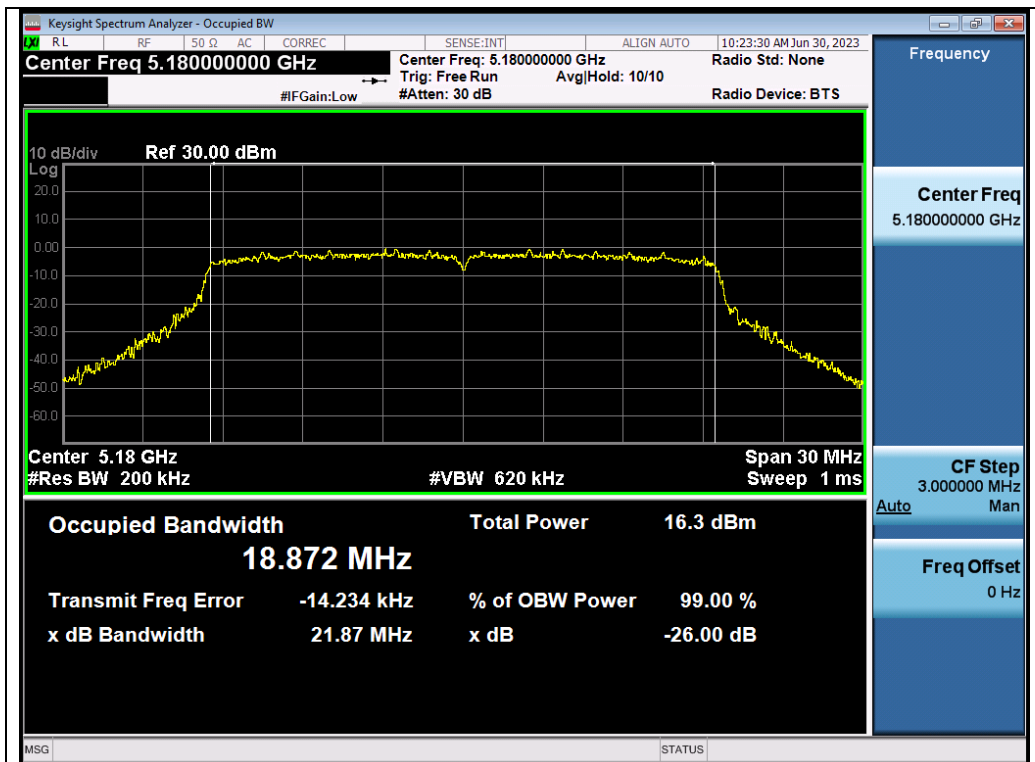
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Test\_Graph\_802.11ac80\_ANT2\_5210\_MCS9\_OBW

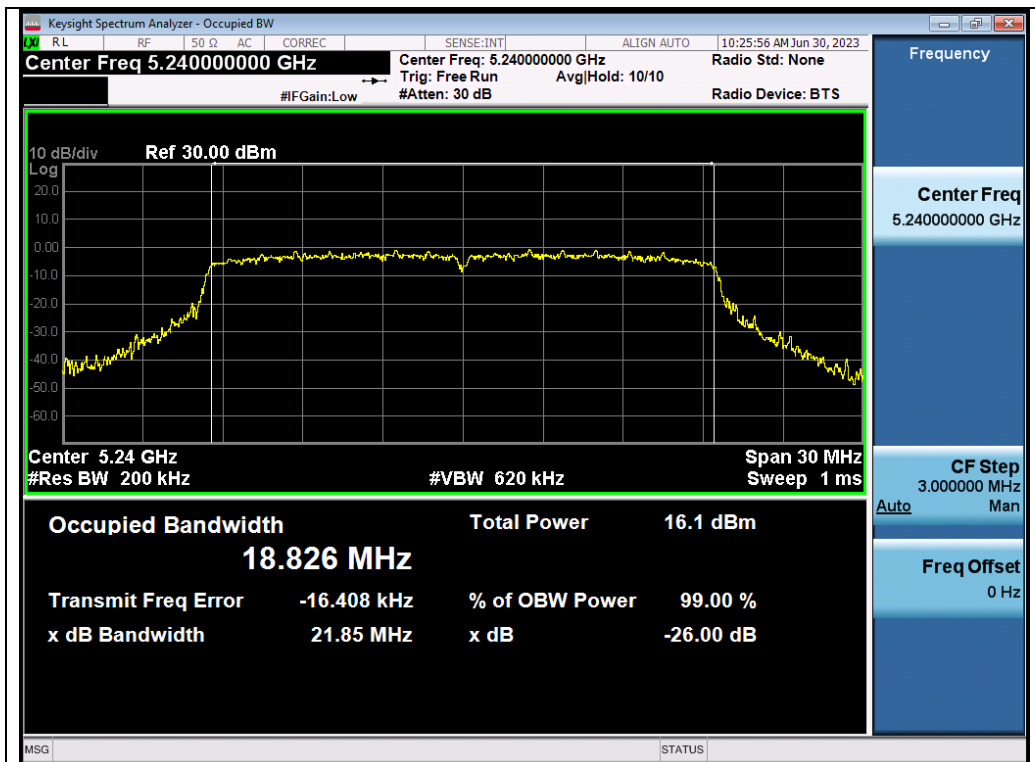
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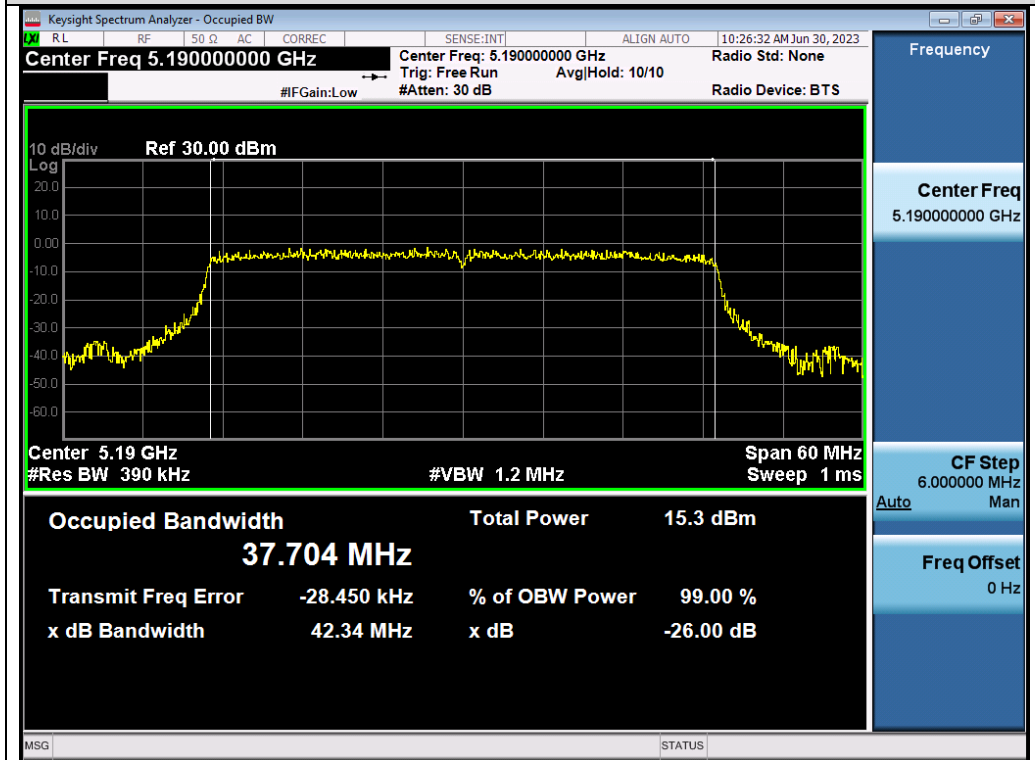


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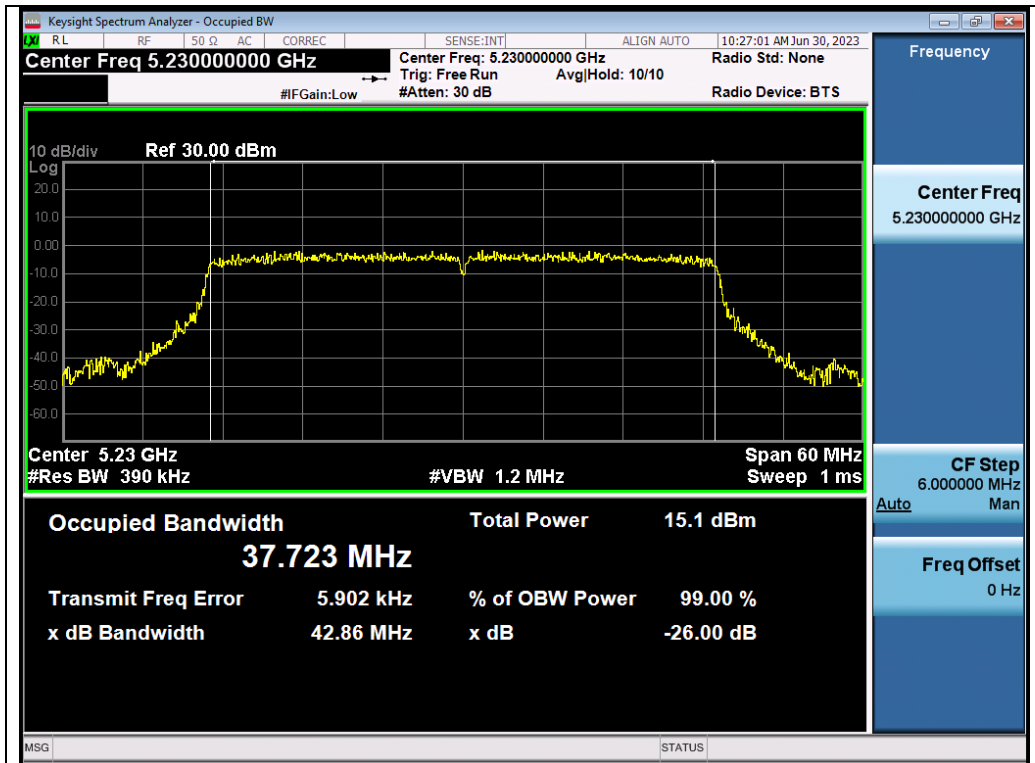
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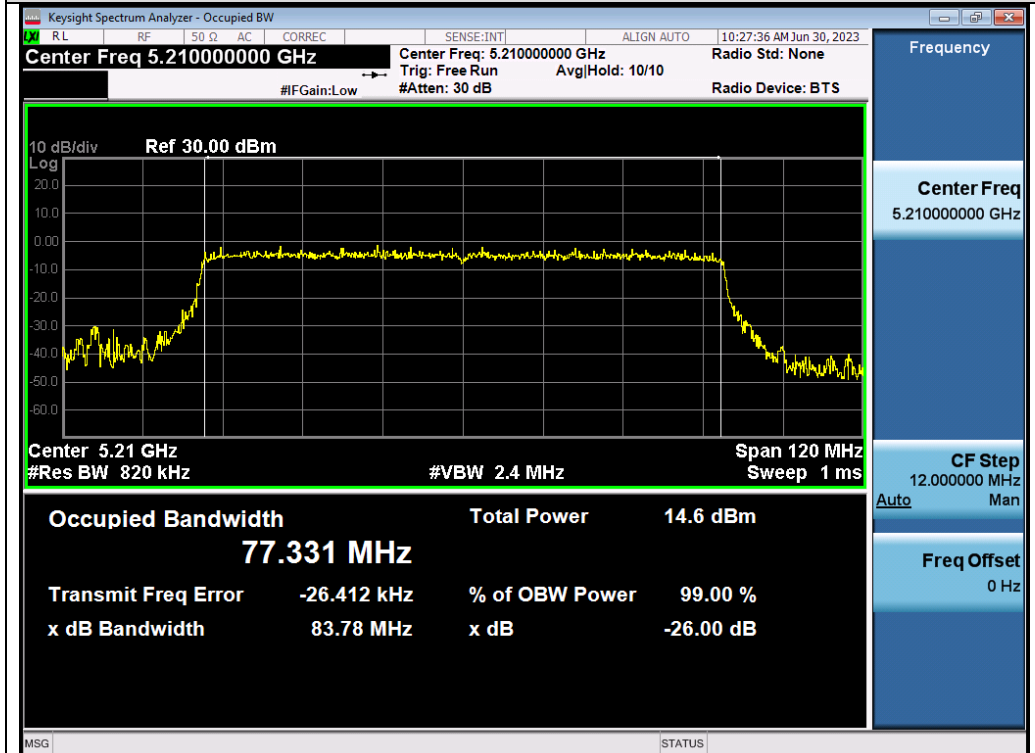
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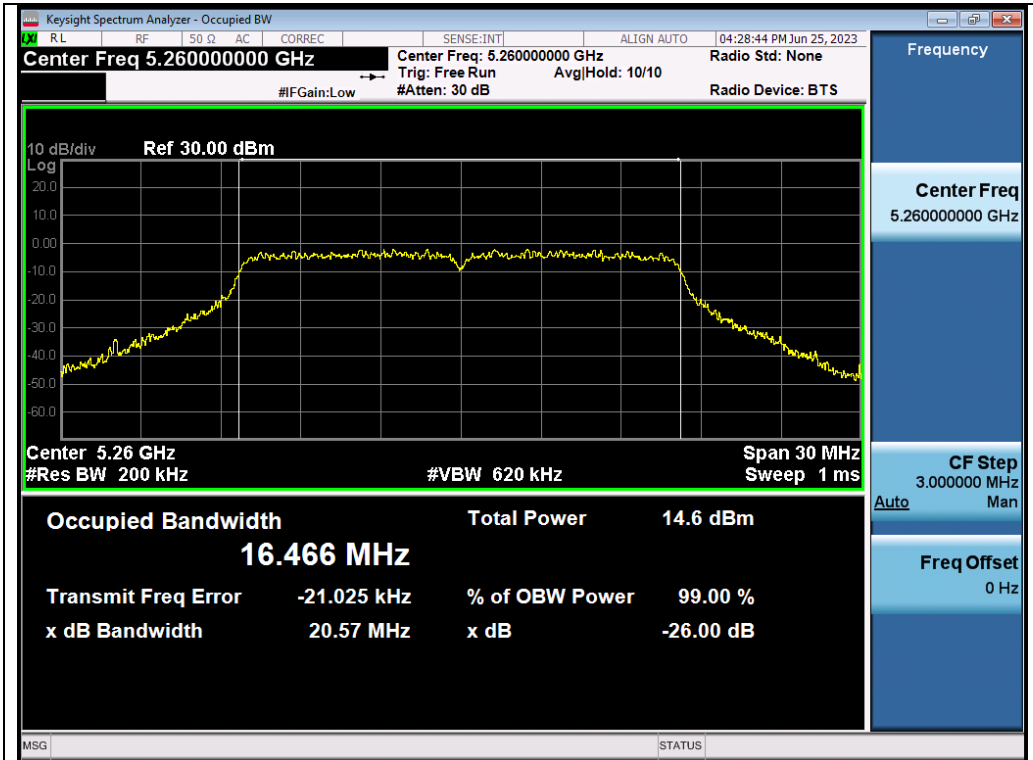
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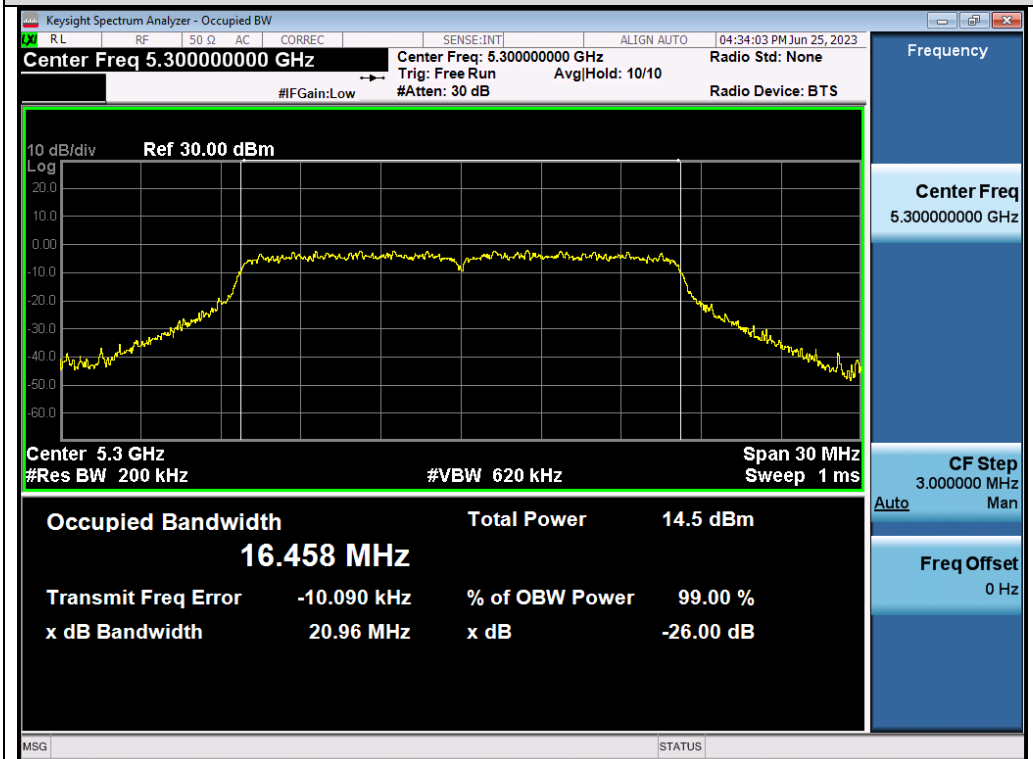
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**Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz**

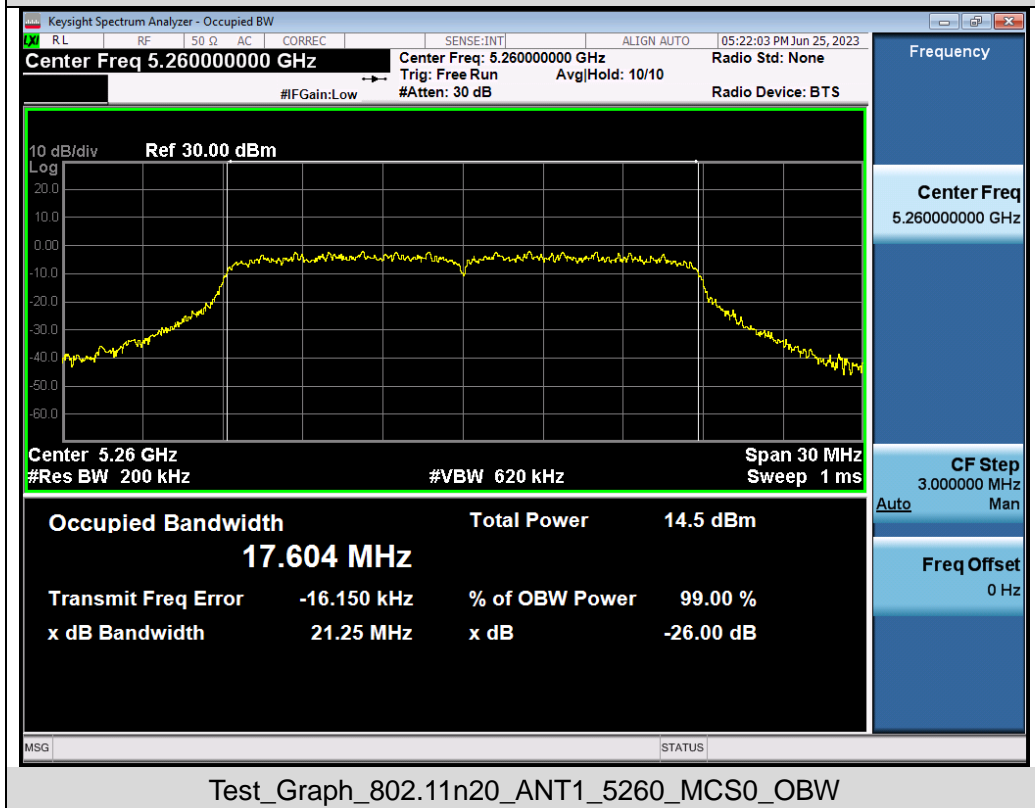
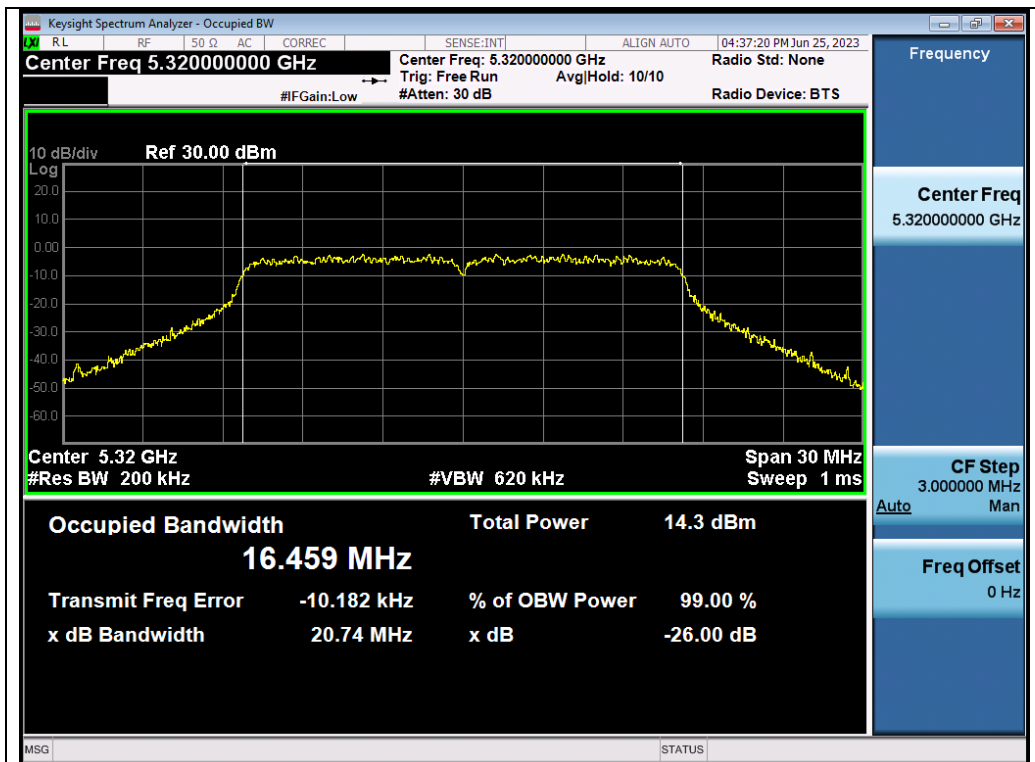


Test\_Graph\_802.11a\_ANT1\_5260\_6Mbps\_OBW

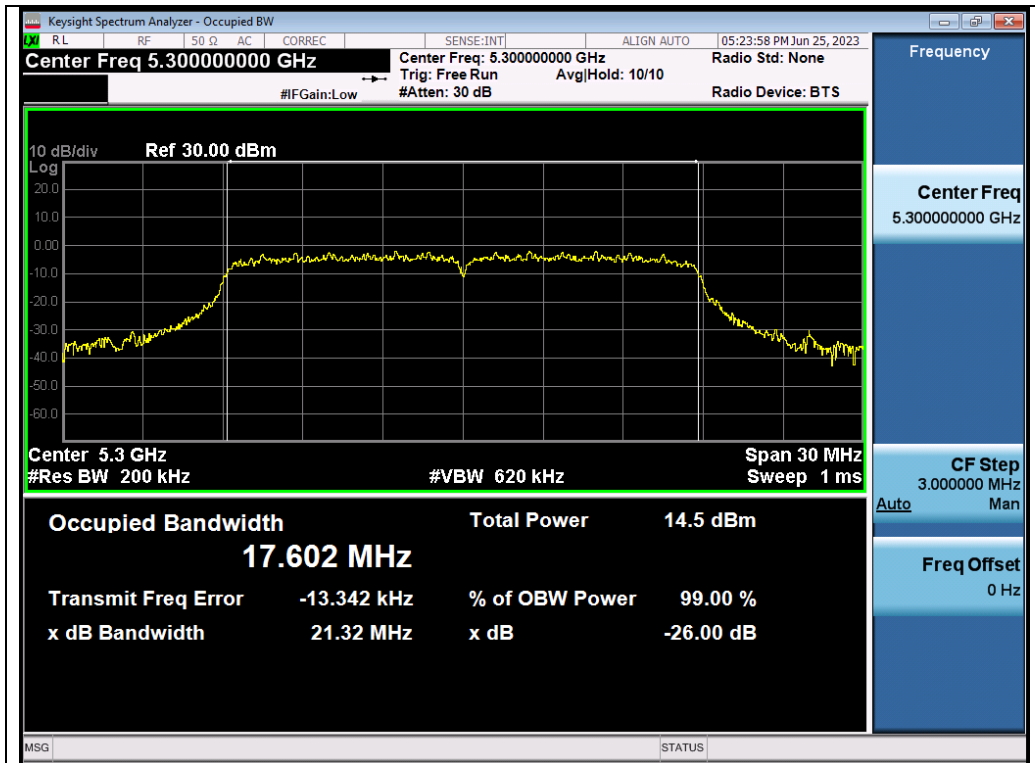


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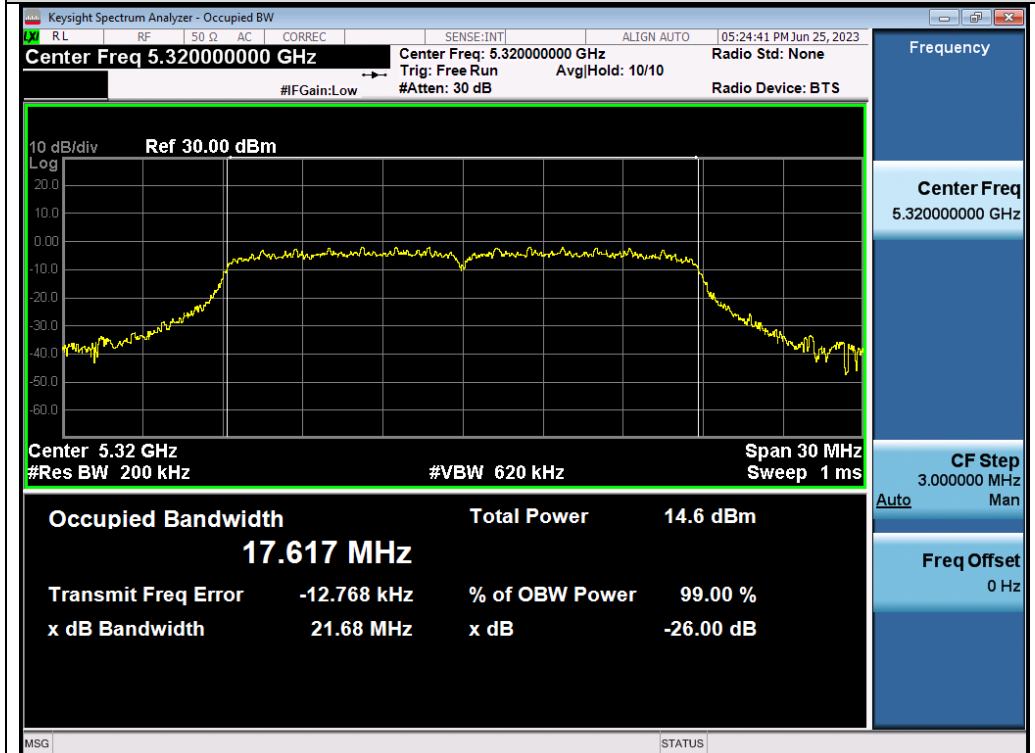
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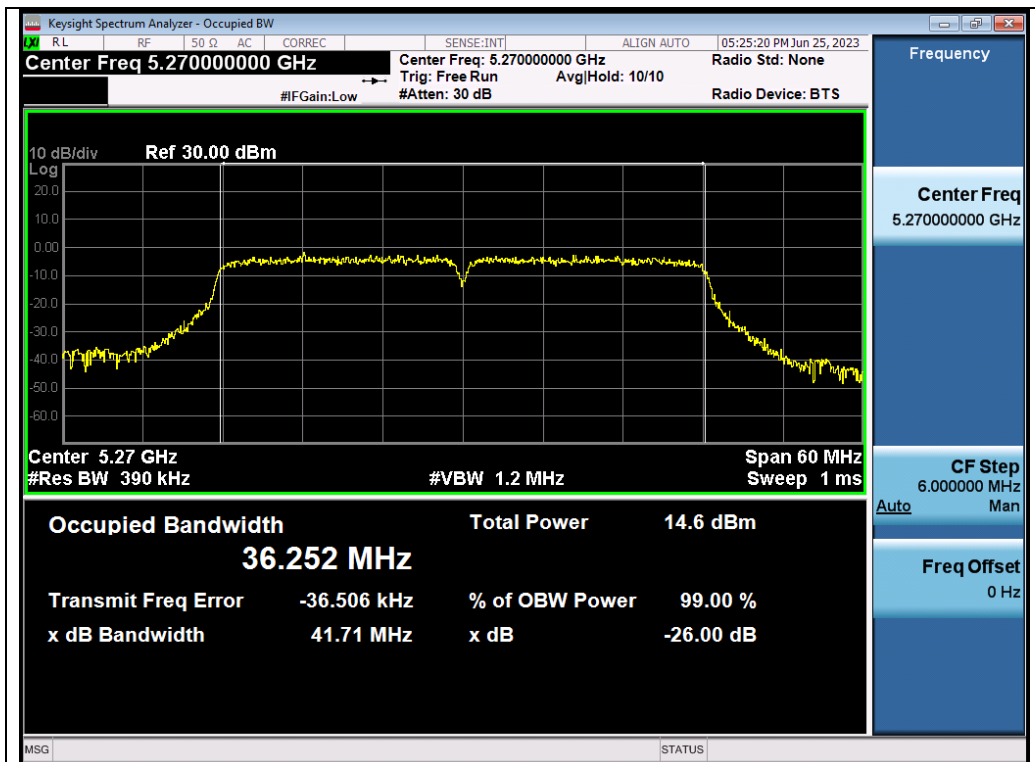


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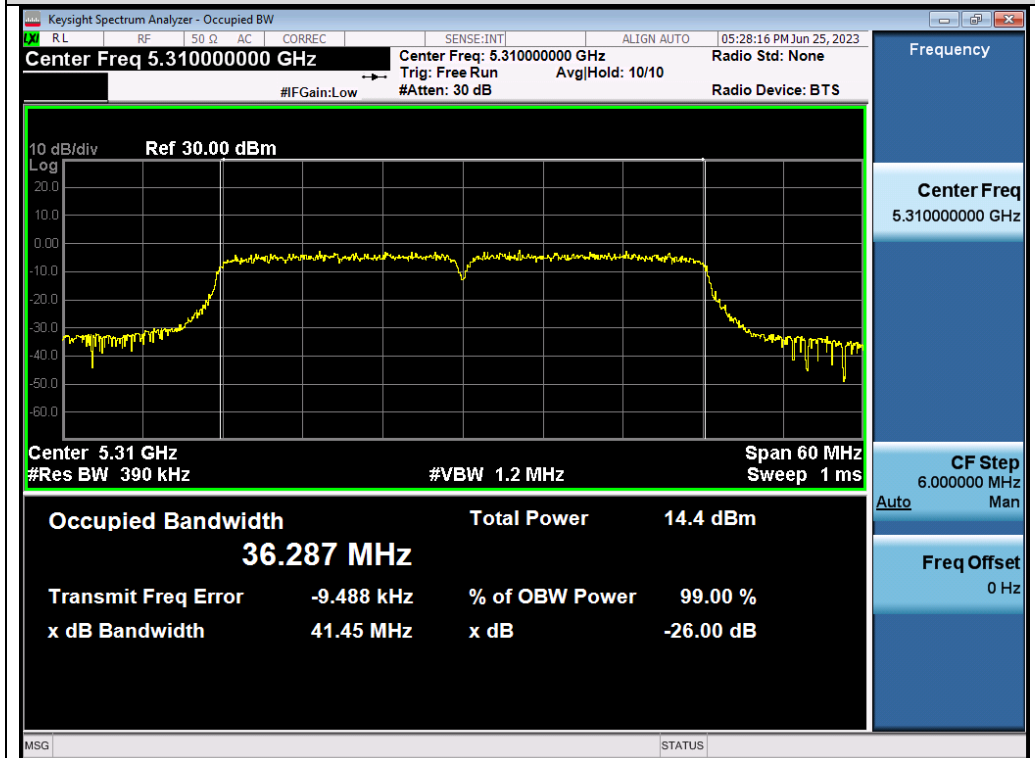


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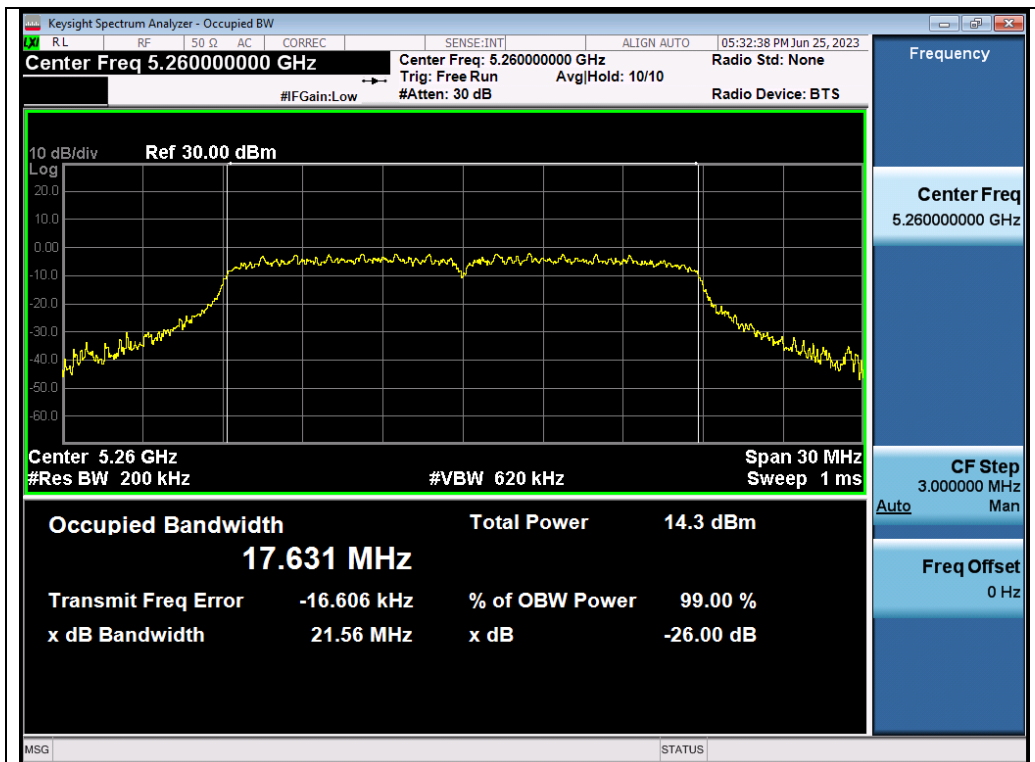
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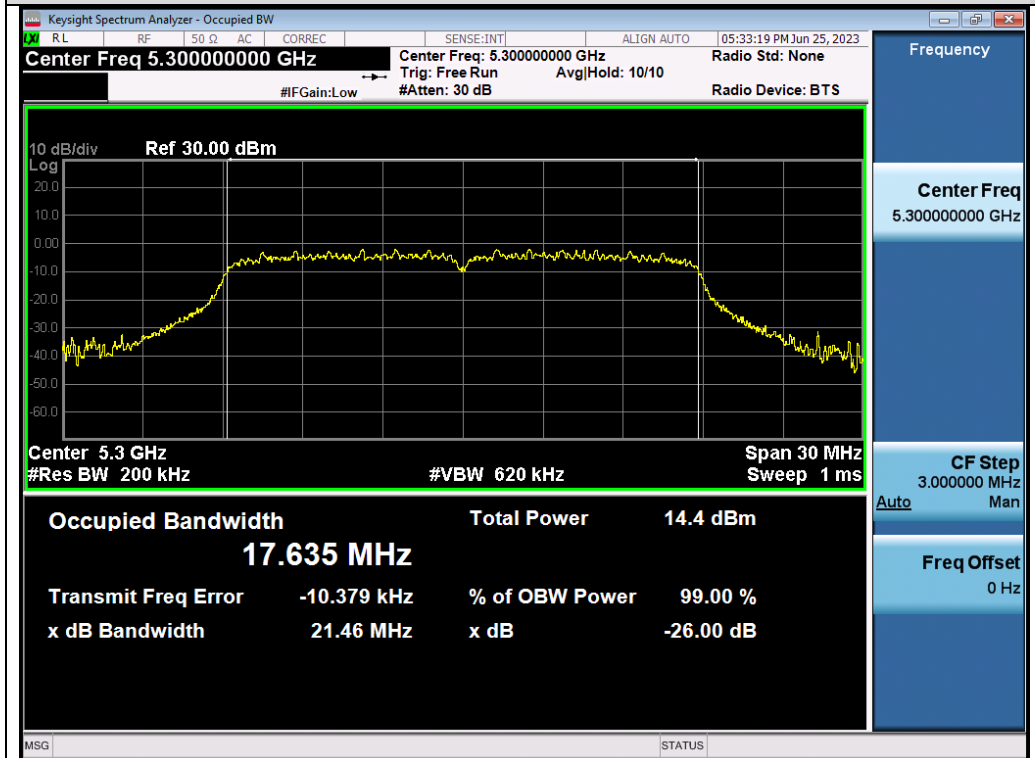
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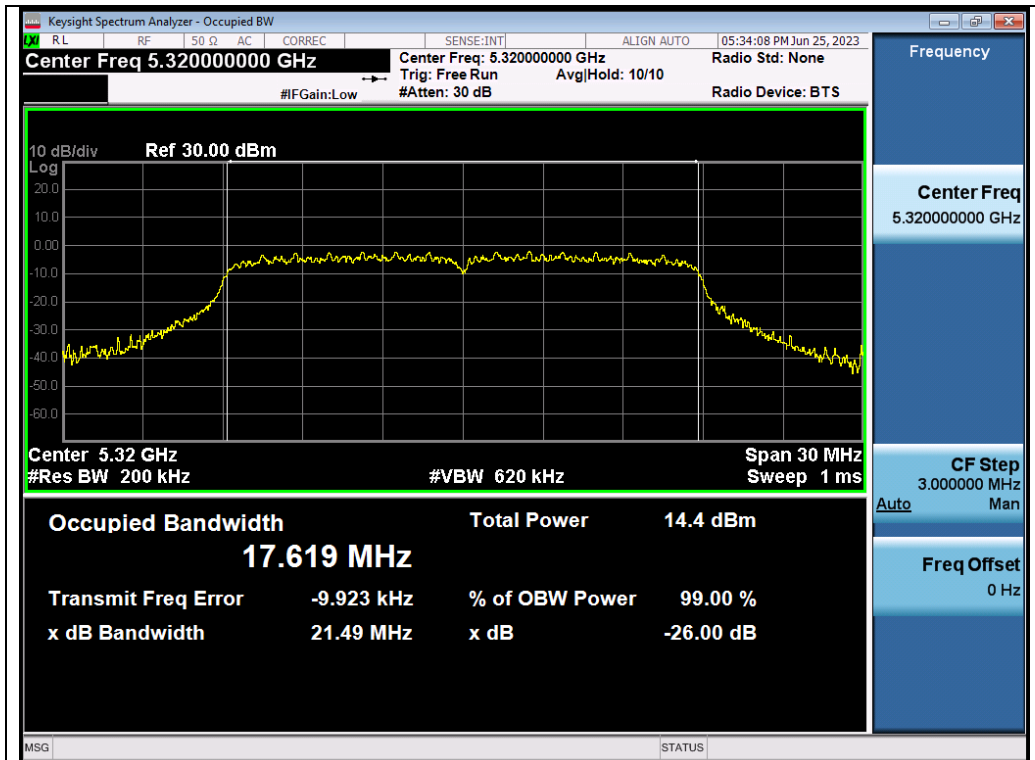


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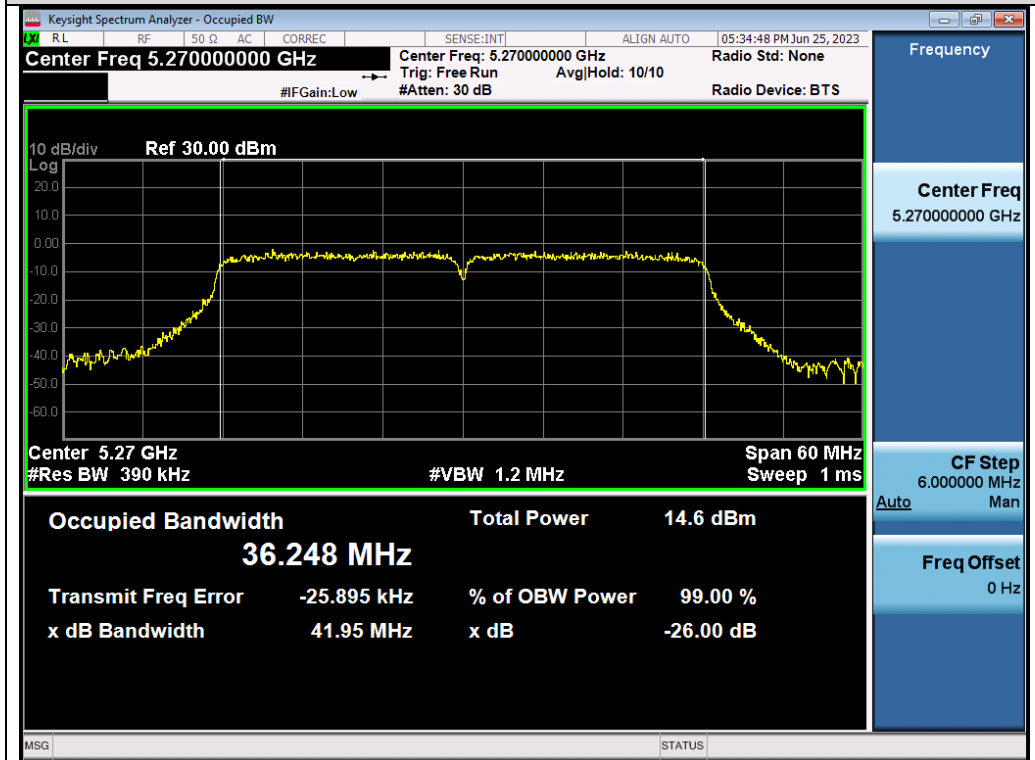


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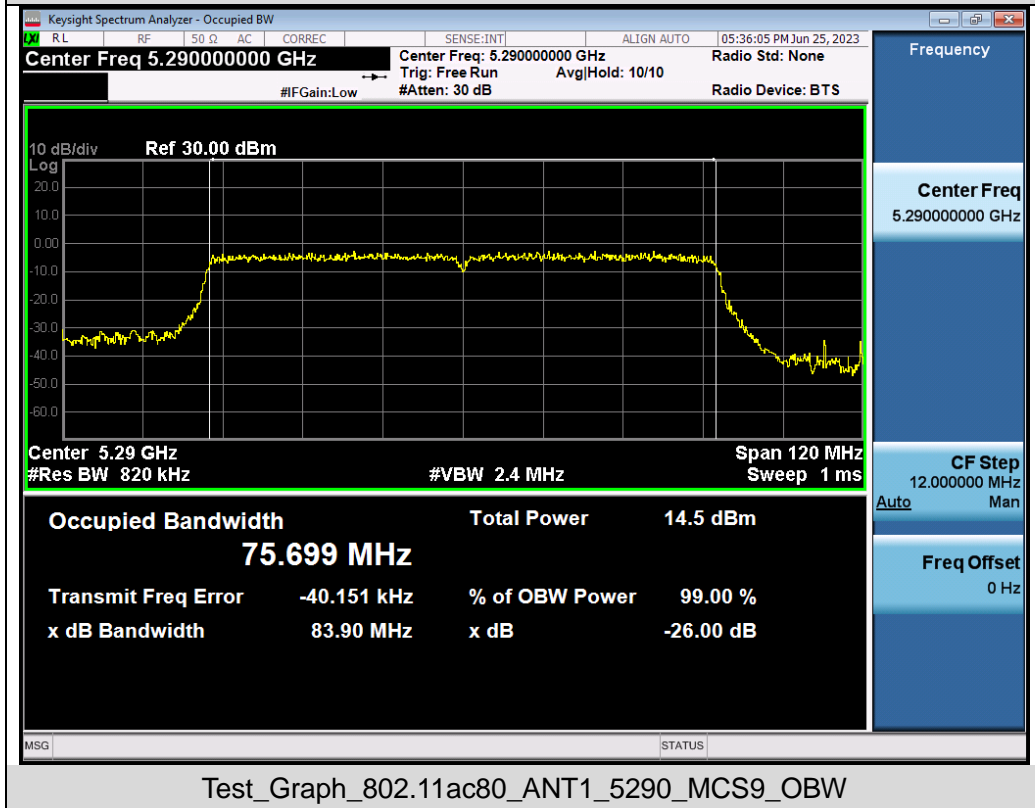
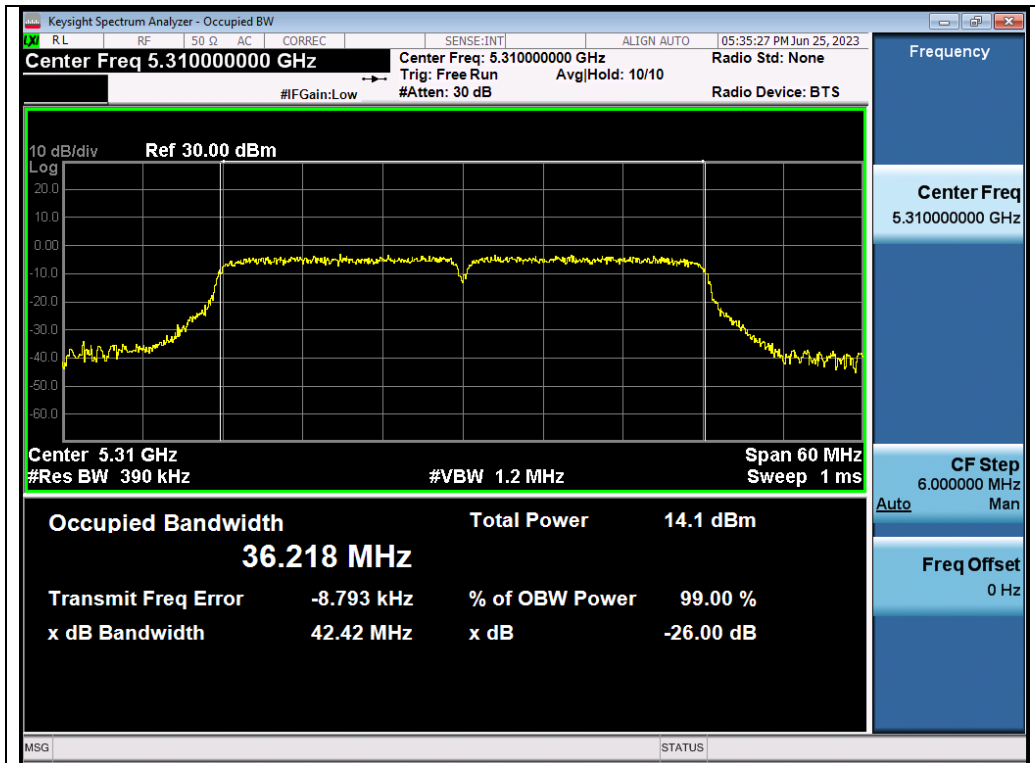
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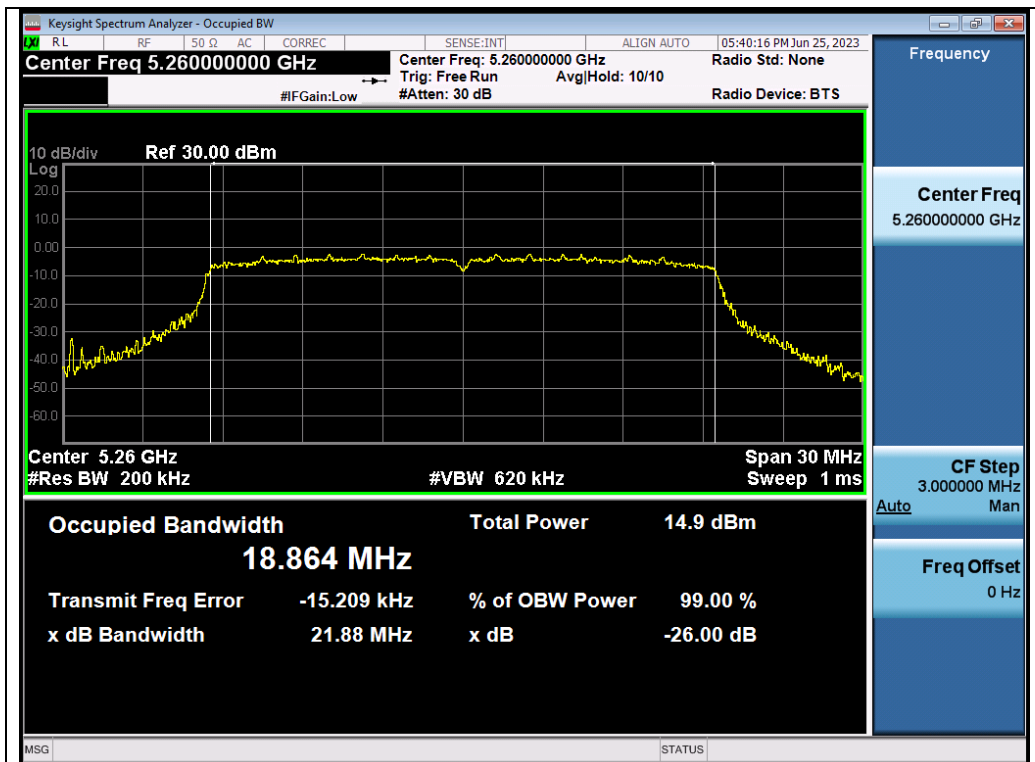
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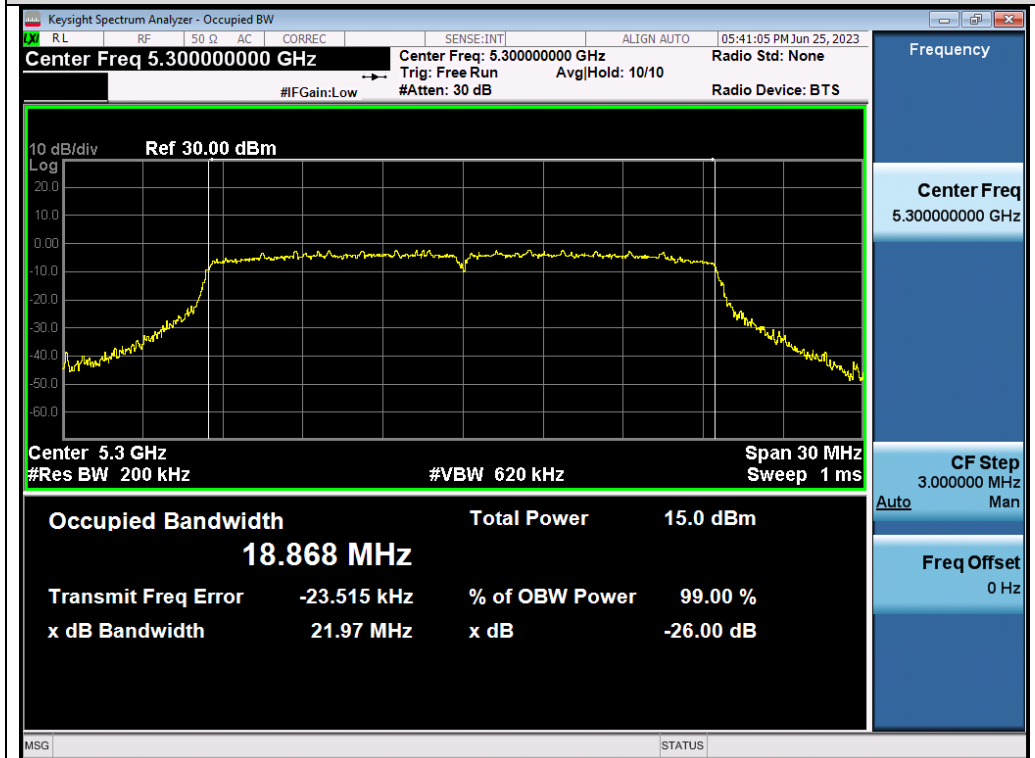




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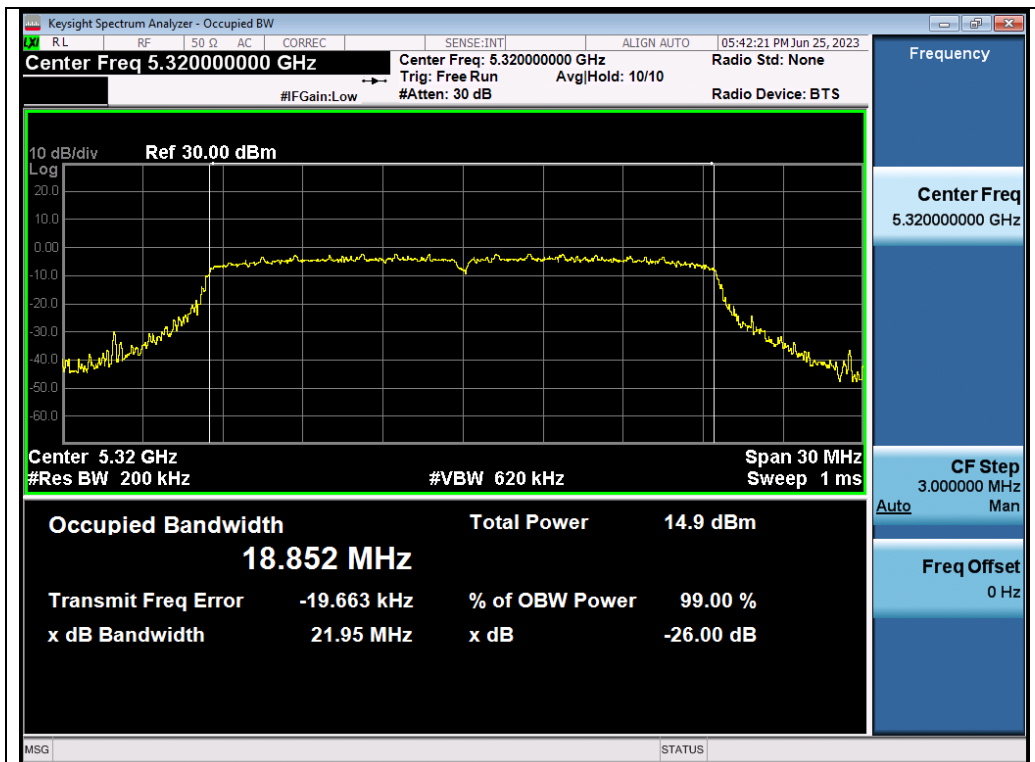


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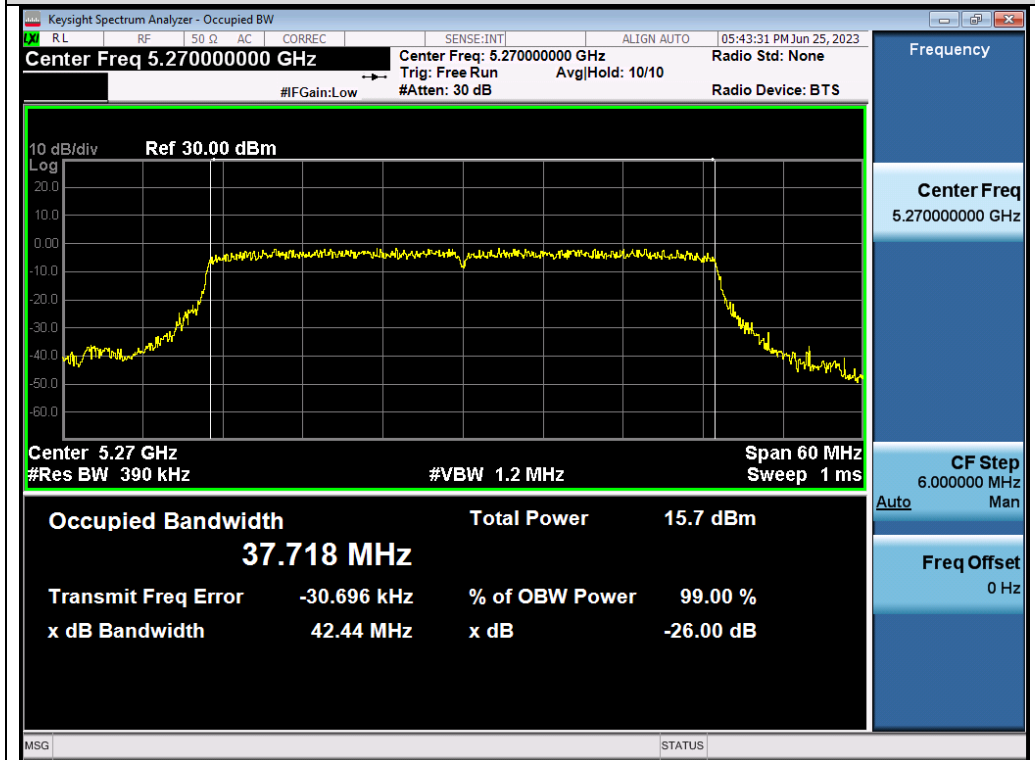


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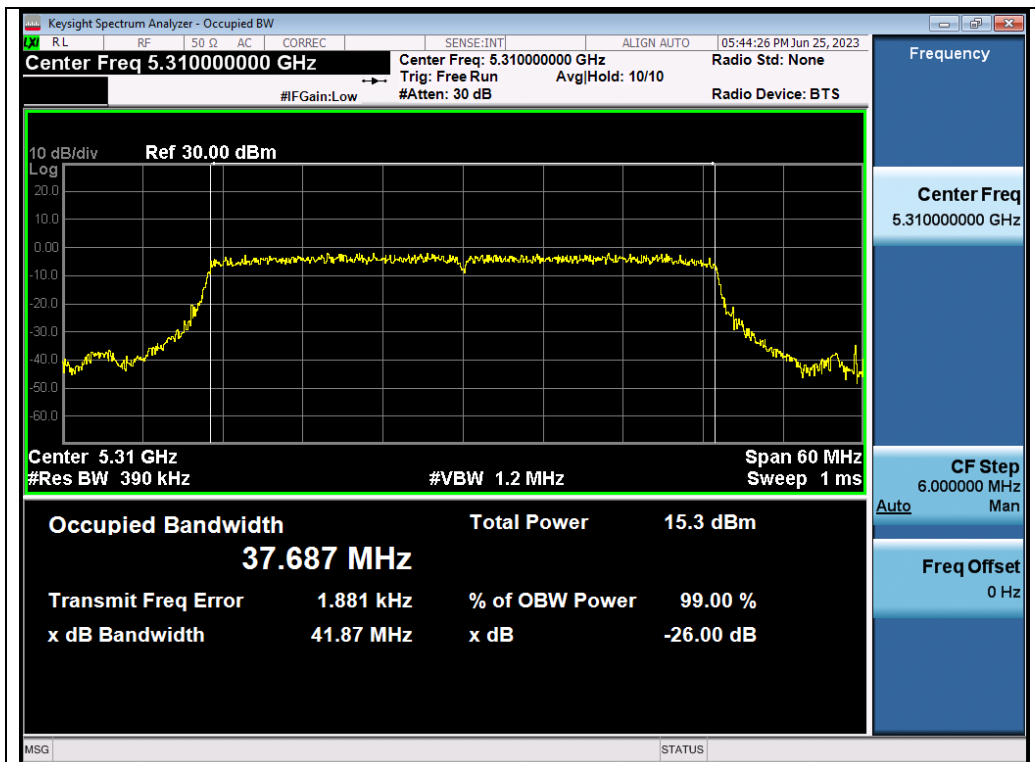


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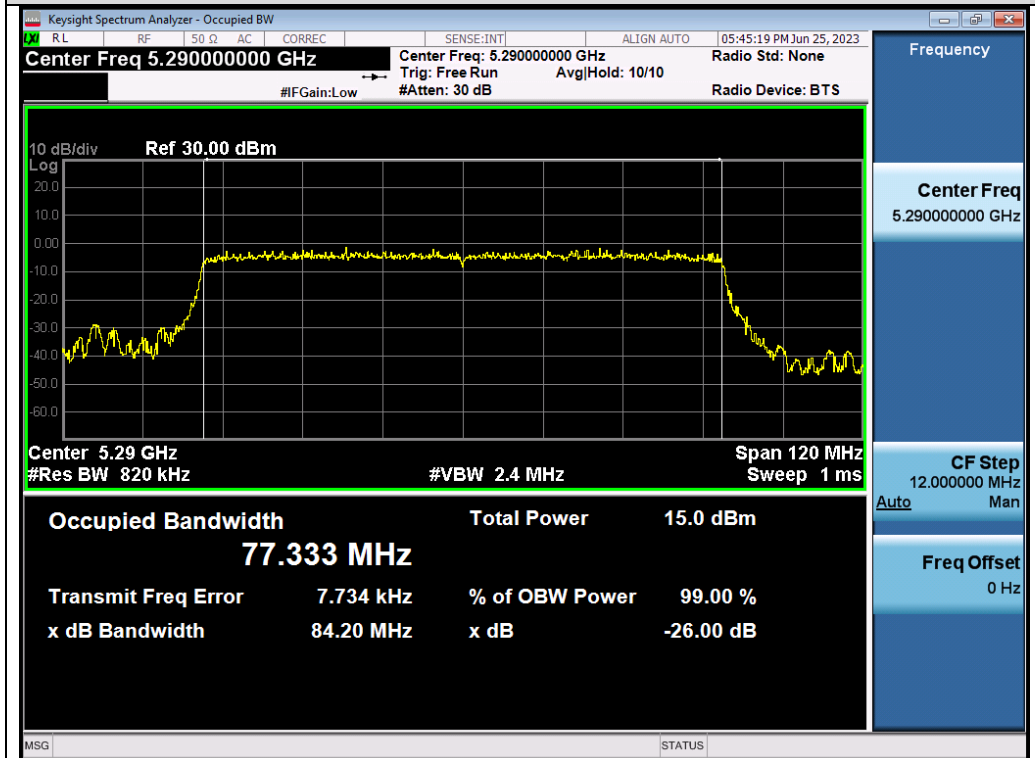


Test\_Graph\_802.11ax40\_ANT1\_5270\_MCS0\_OBW

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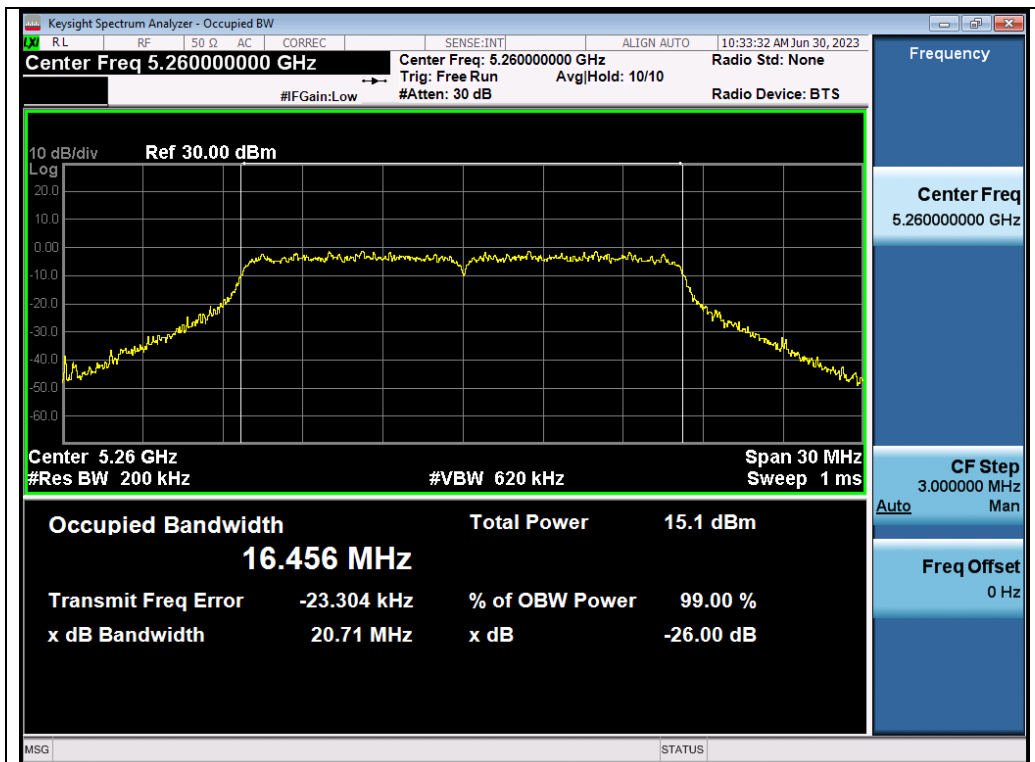


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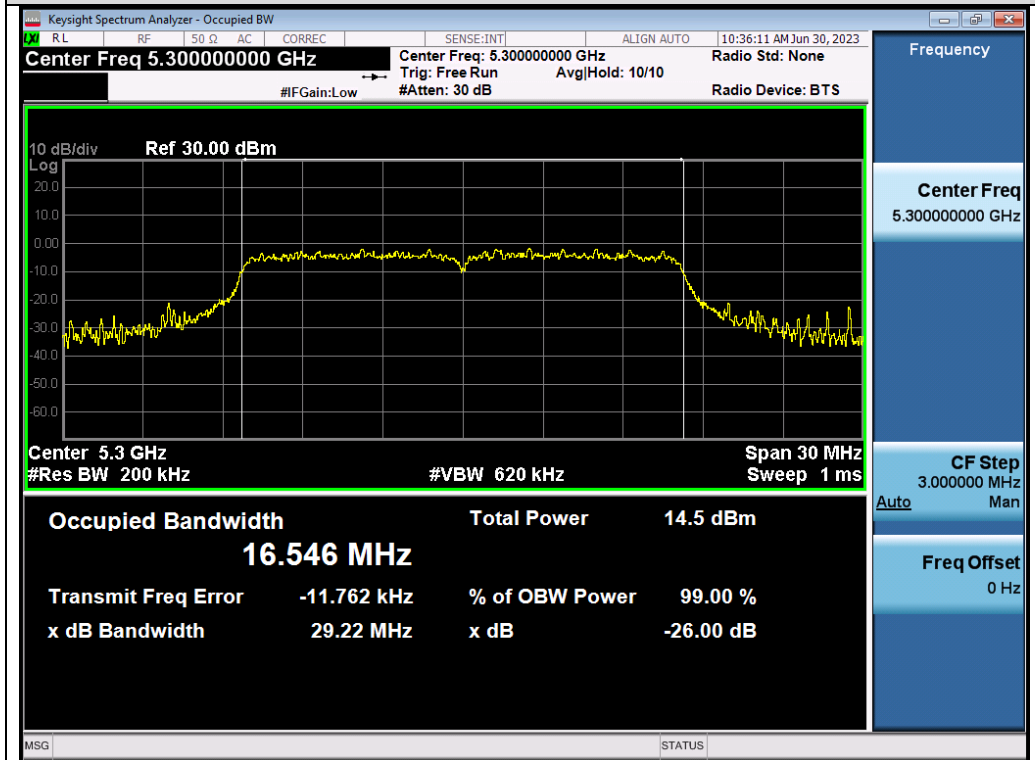


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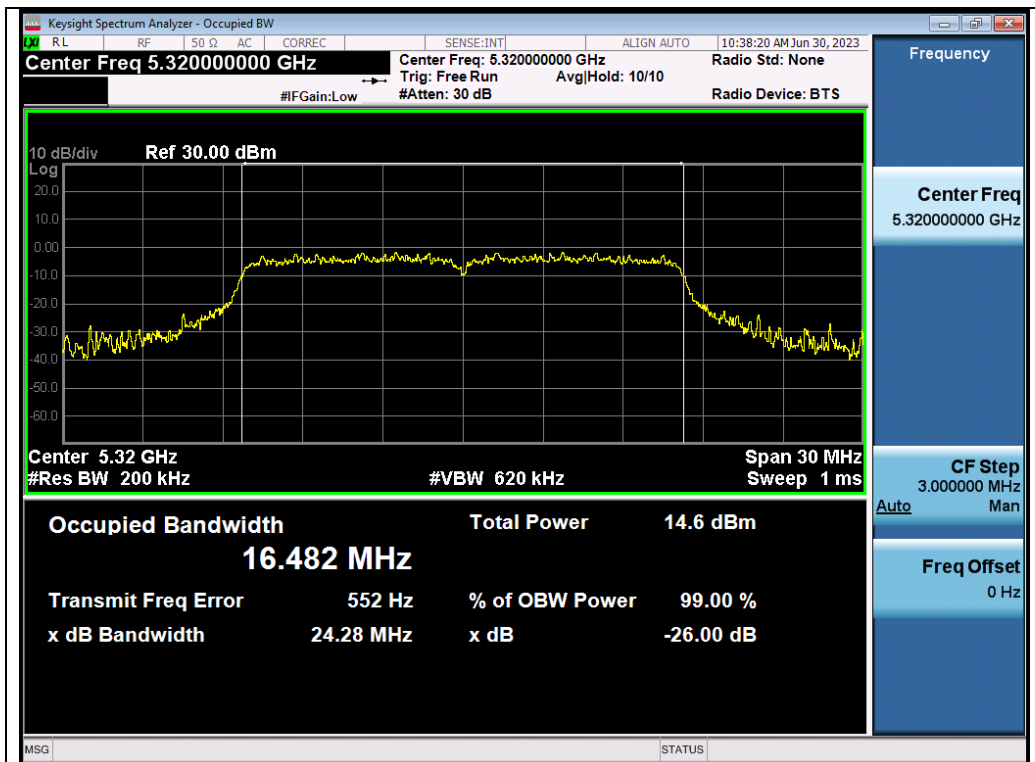
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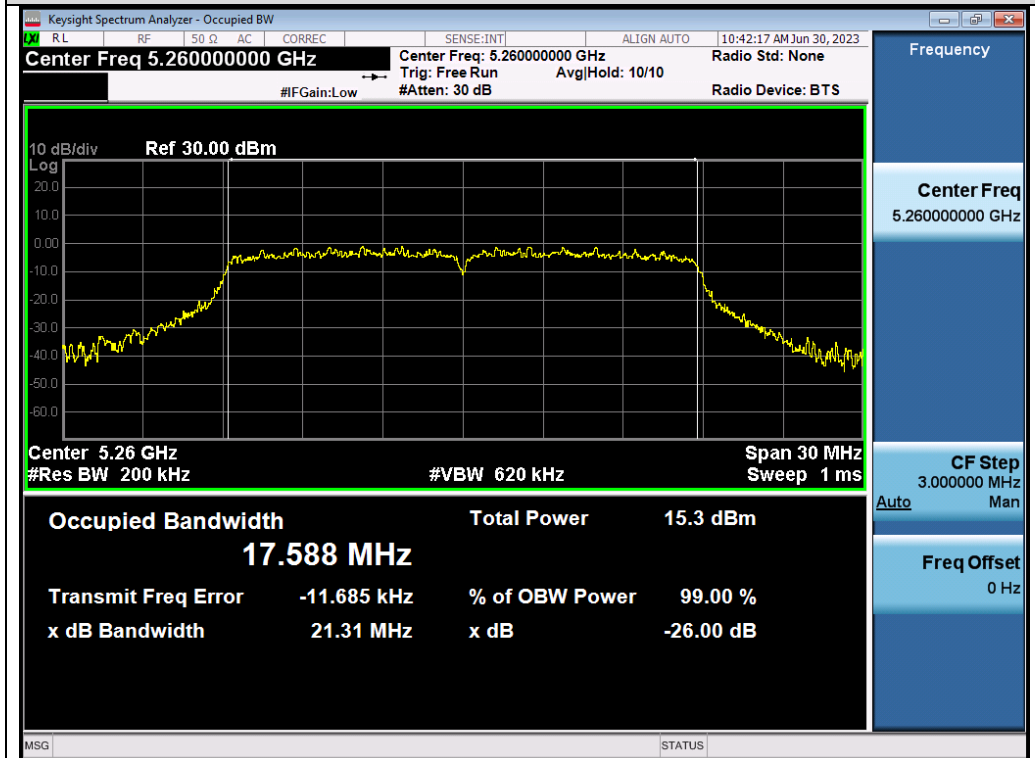
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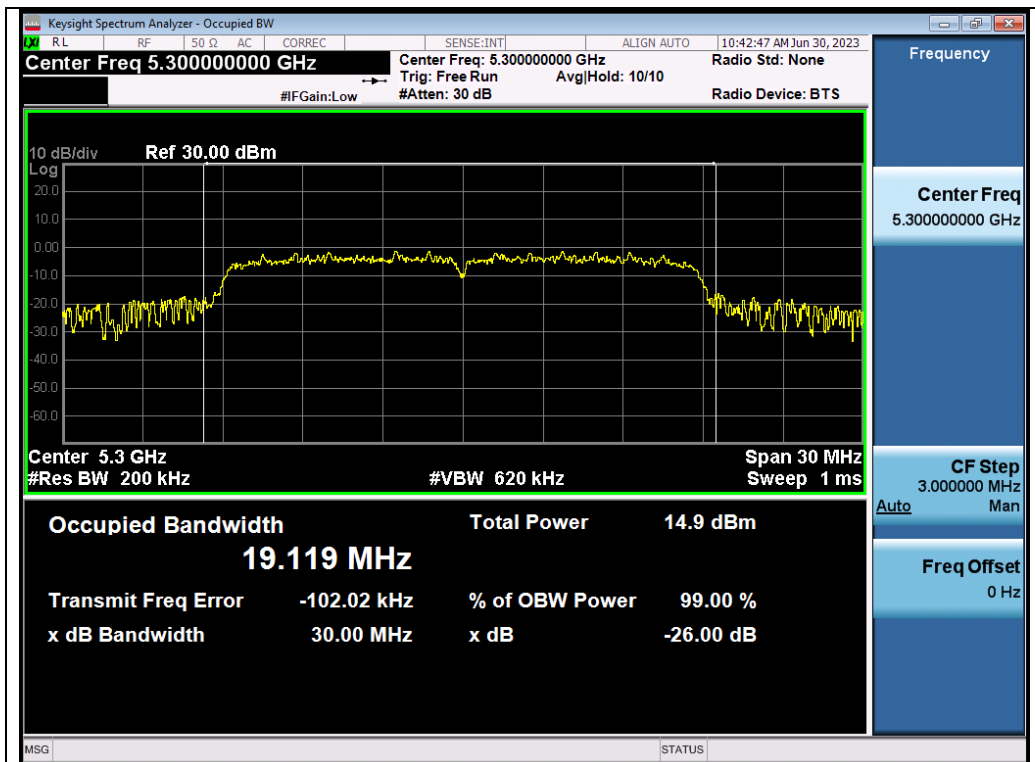
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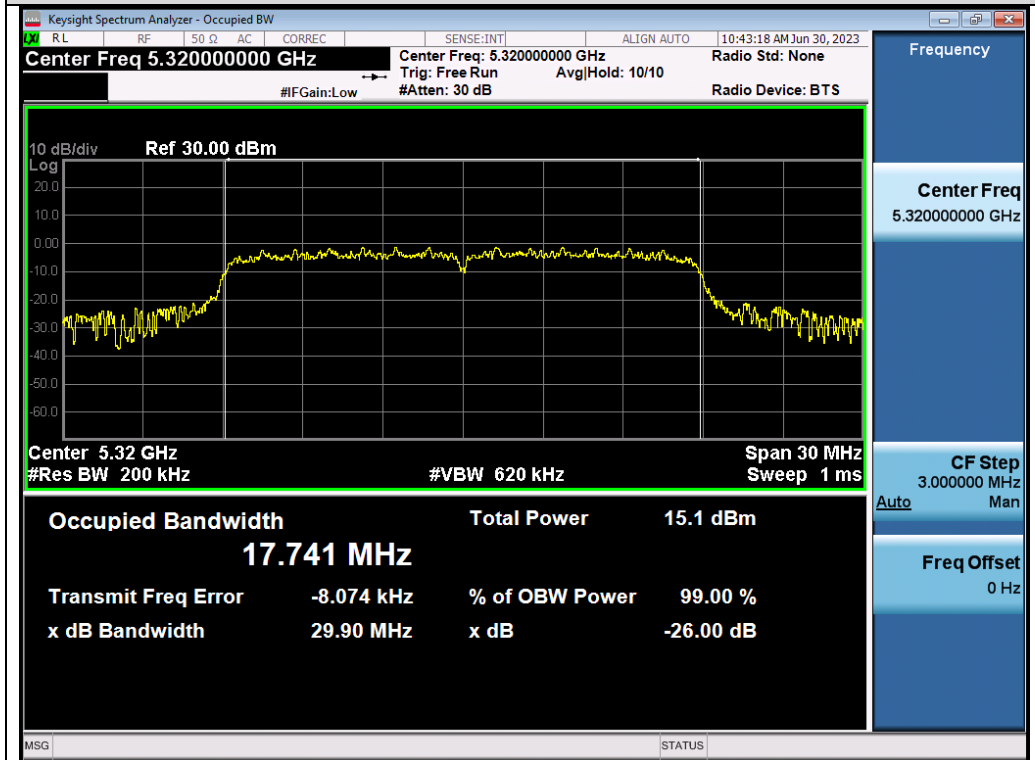
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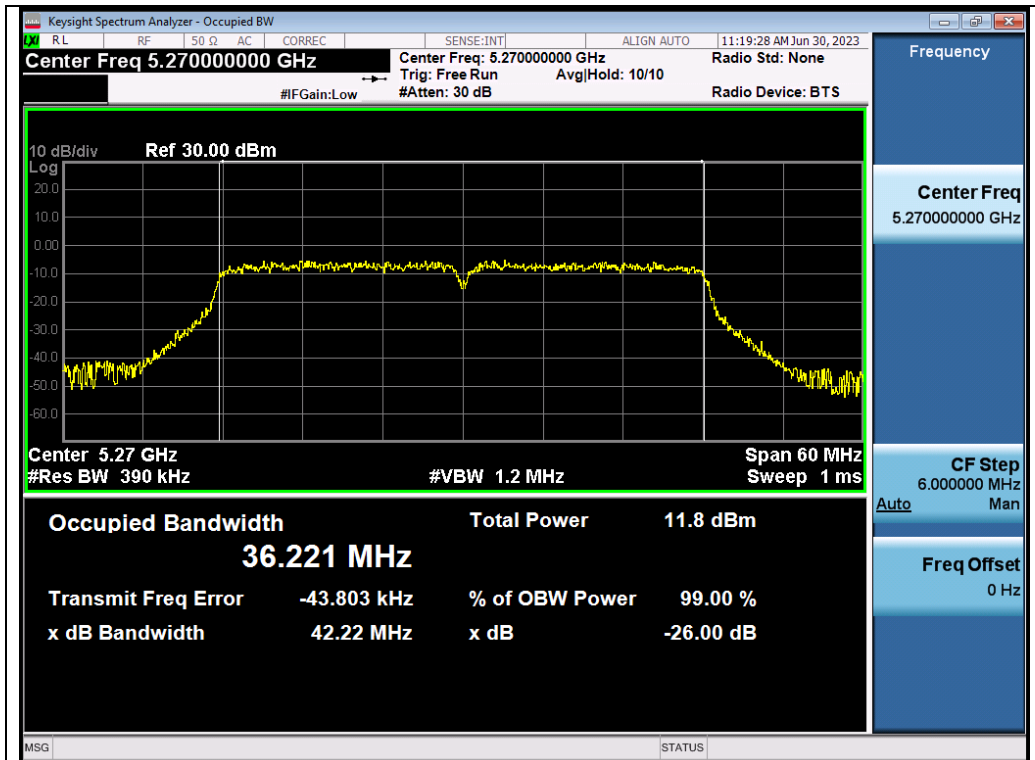


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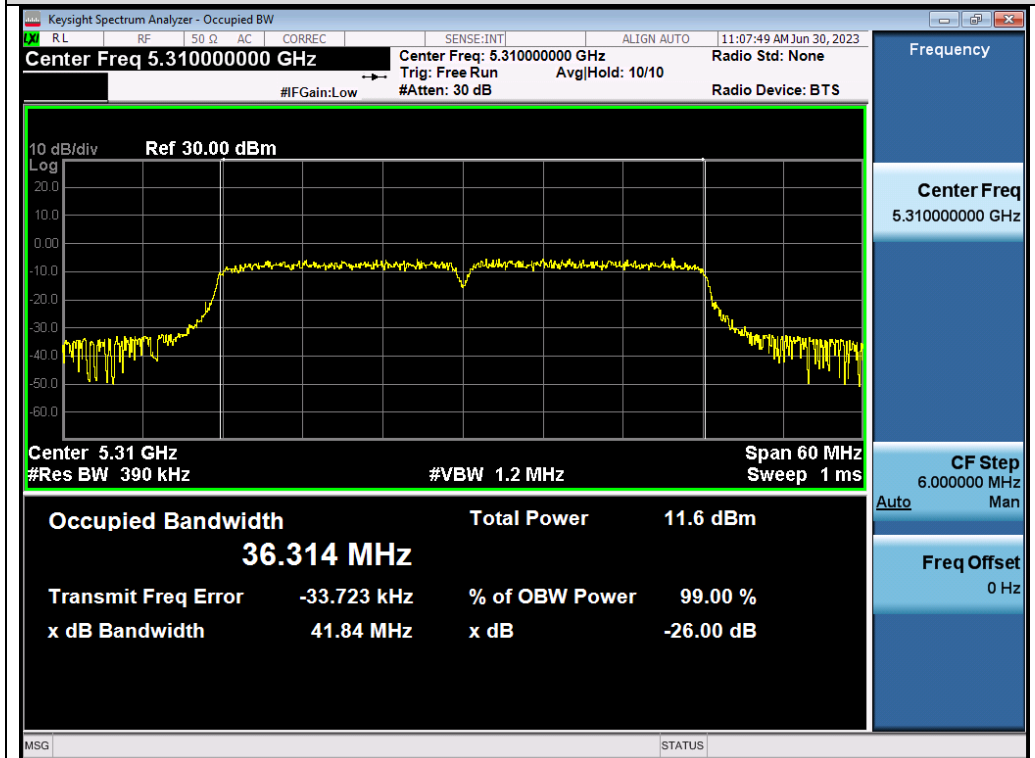


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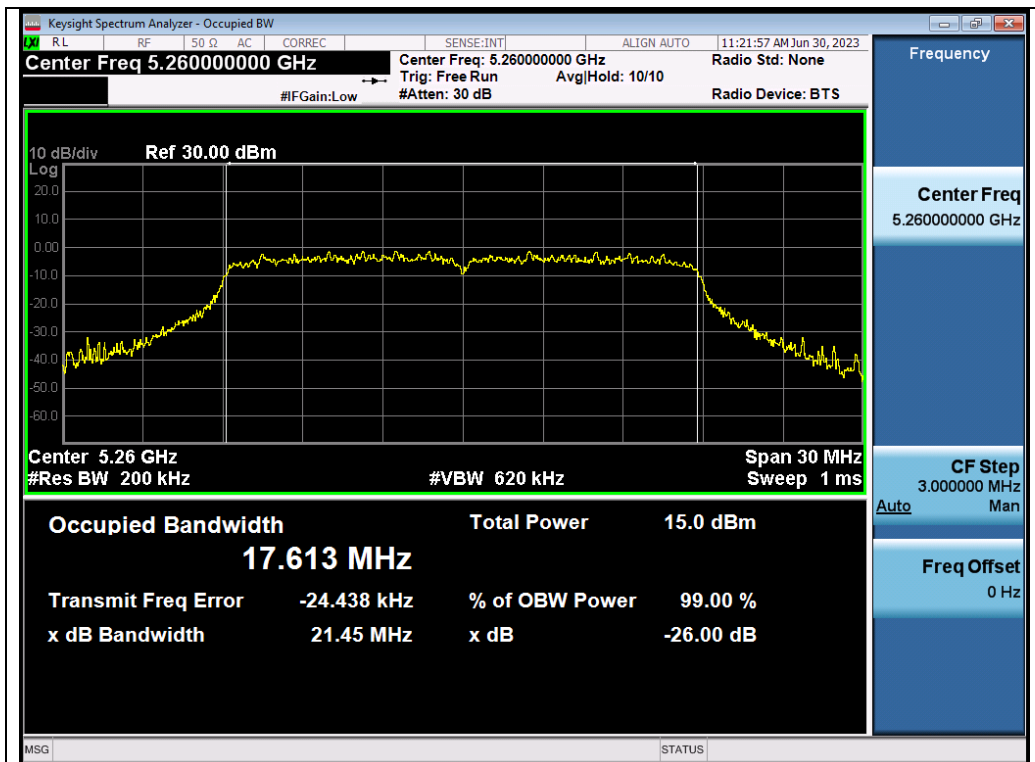


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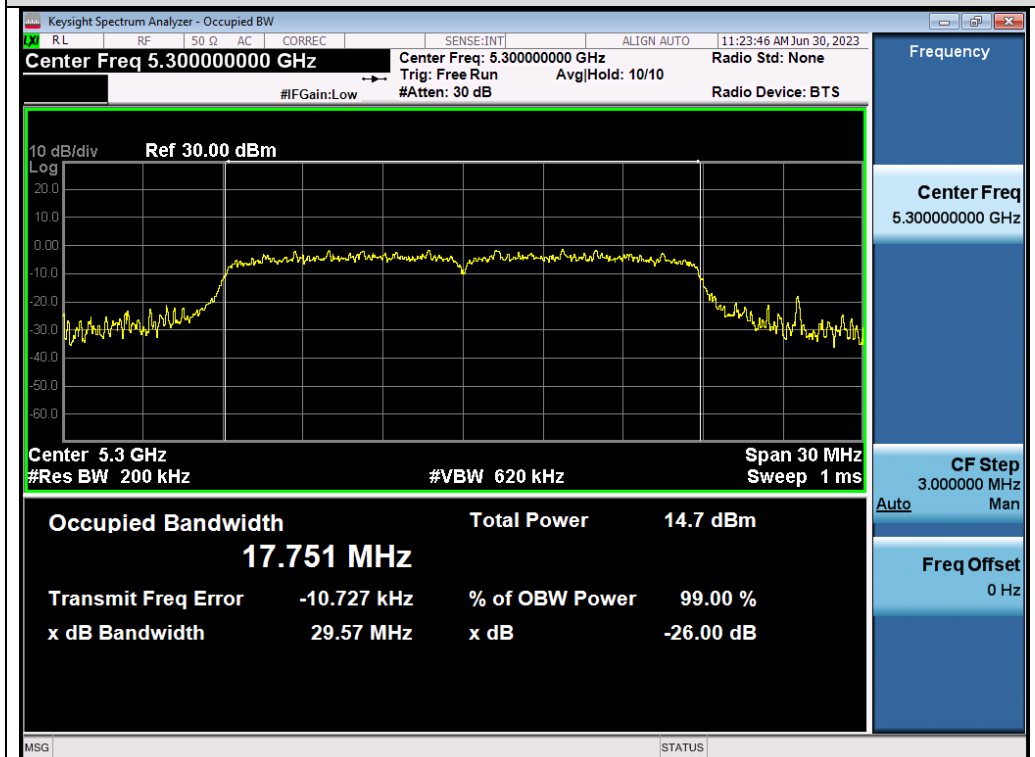


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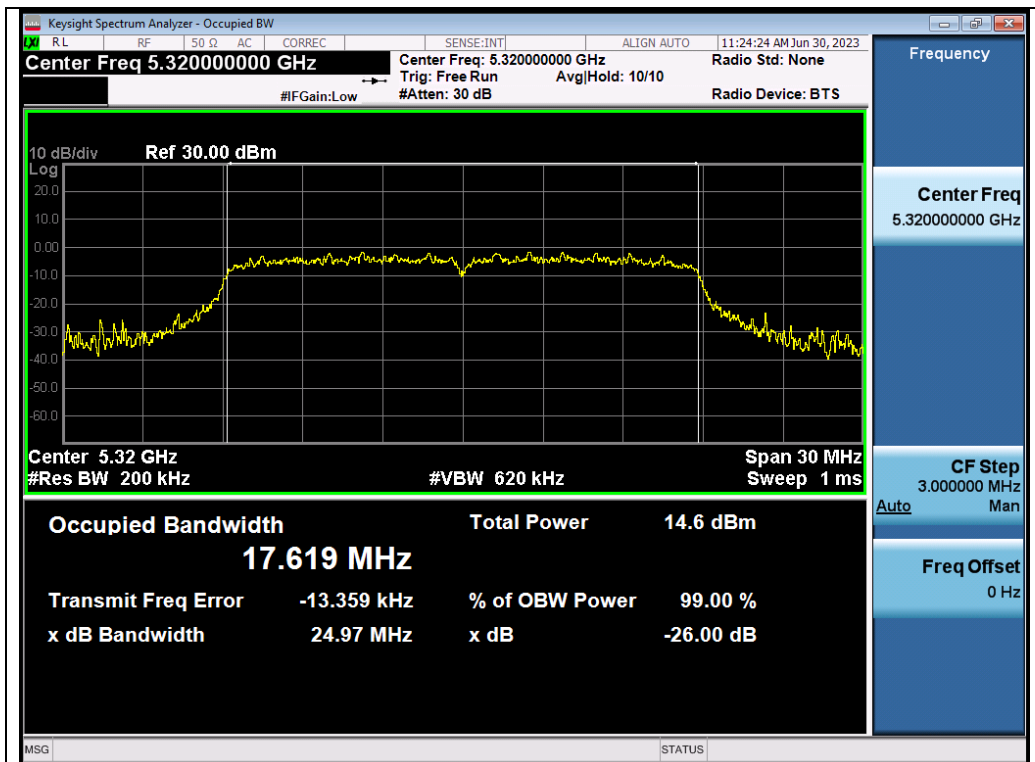
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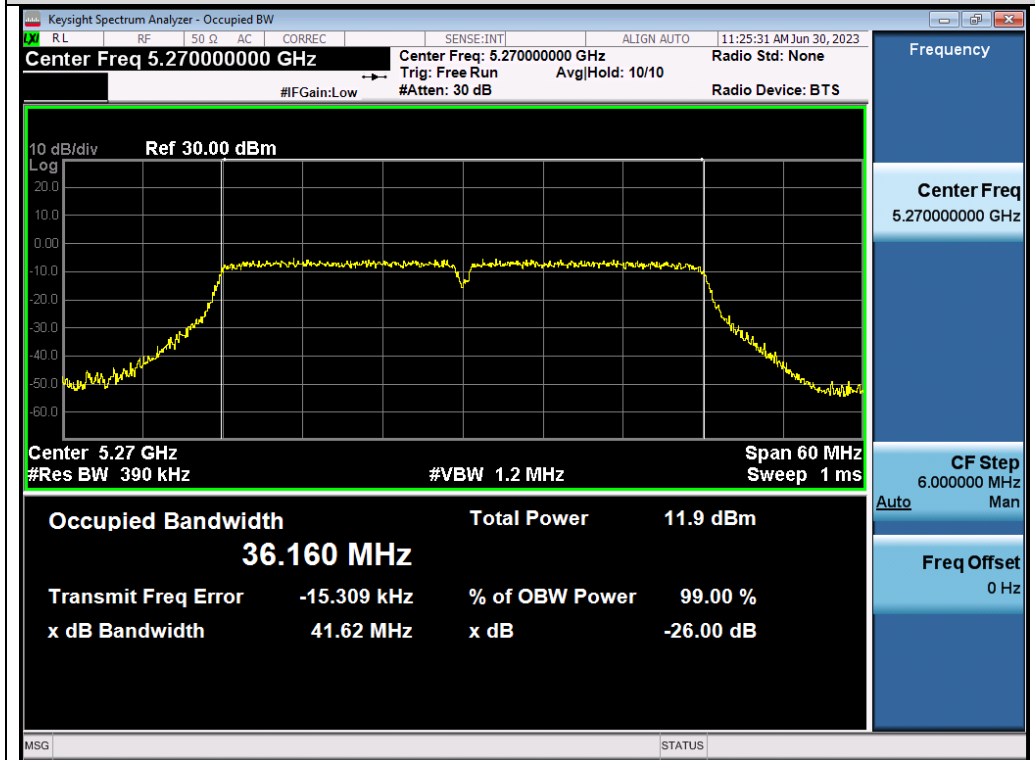
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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

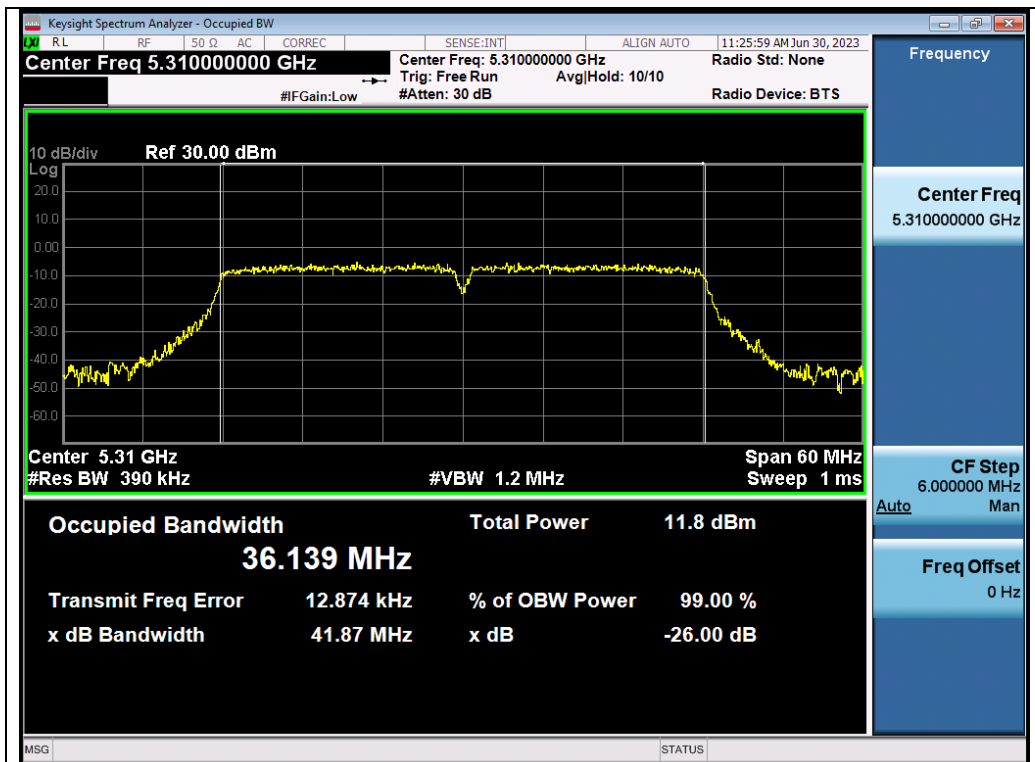


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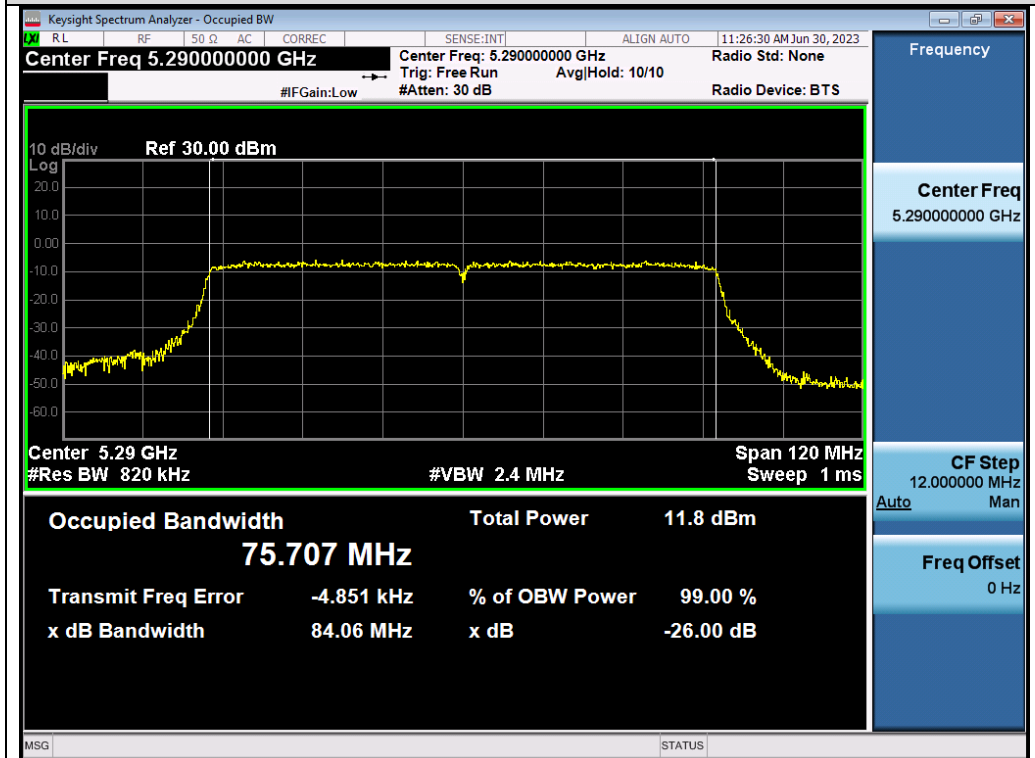


Test\_Graph\_802.11ac40\_ANT2\_5270\_MCS9\_OBW

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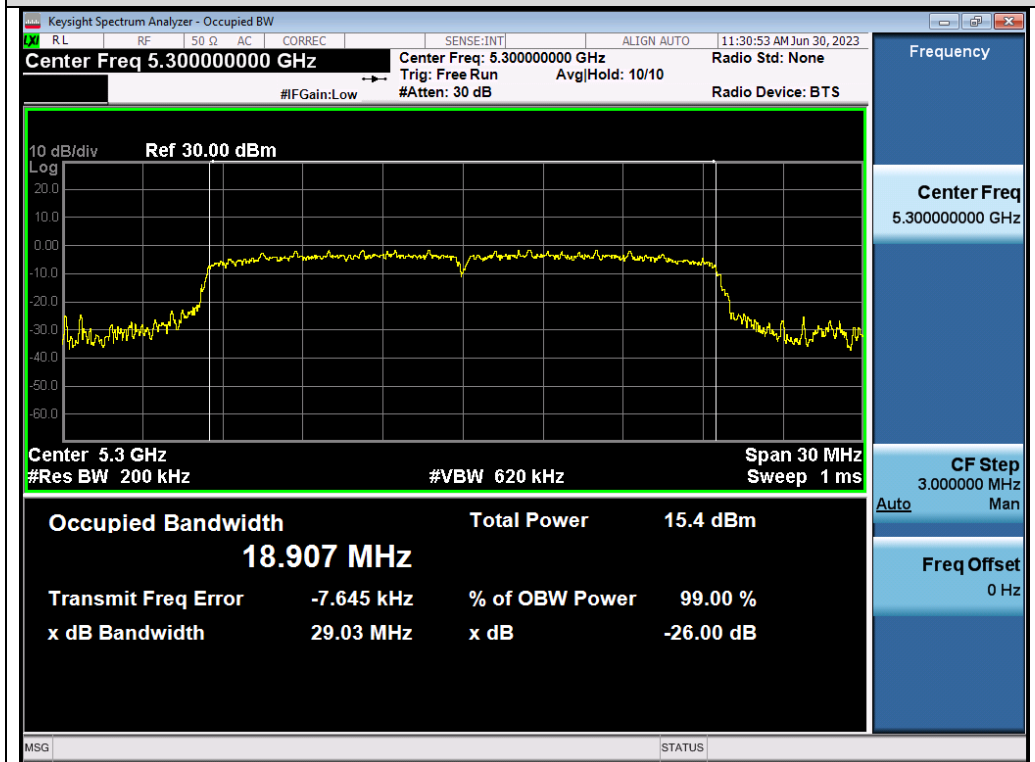
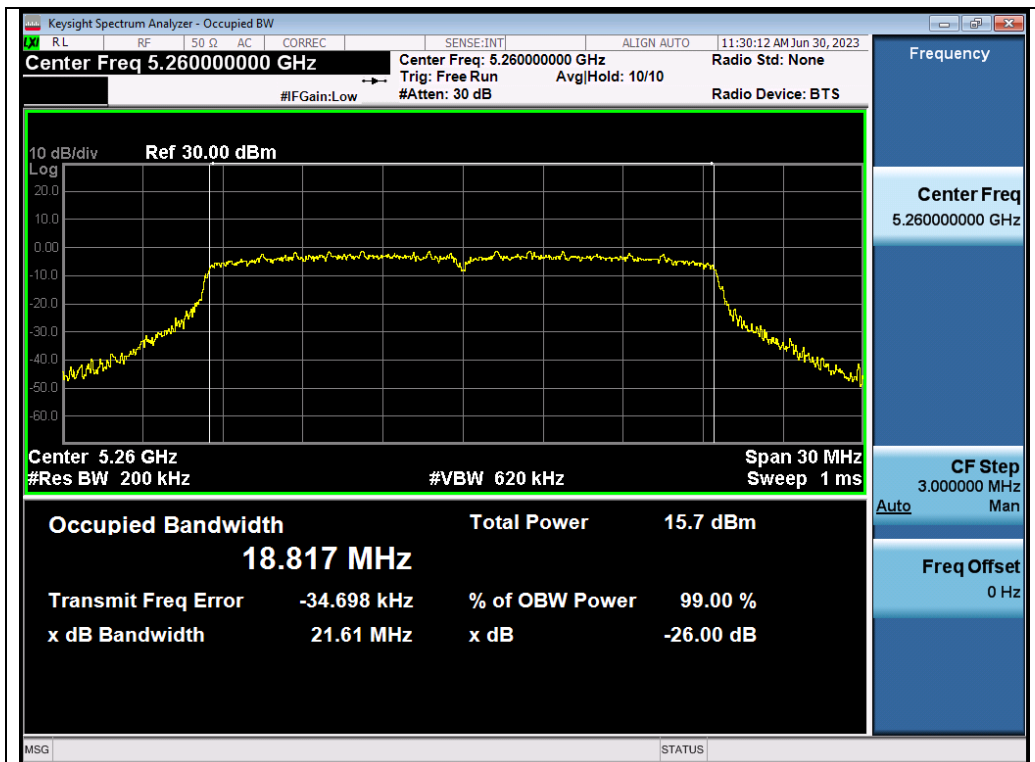
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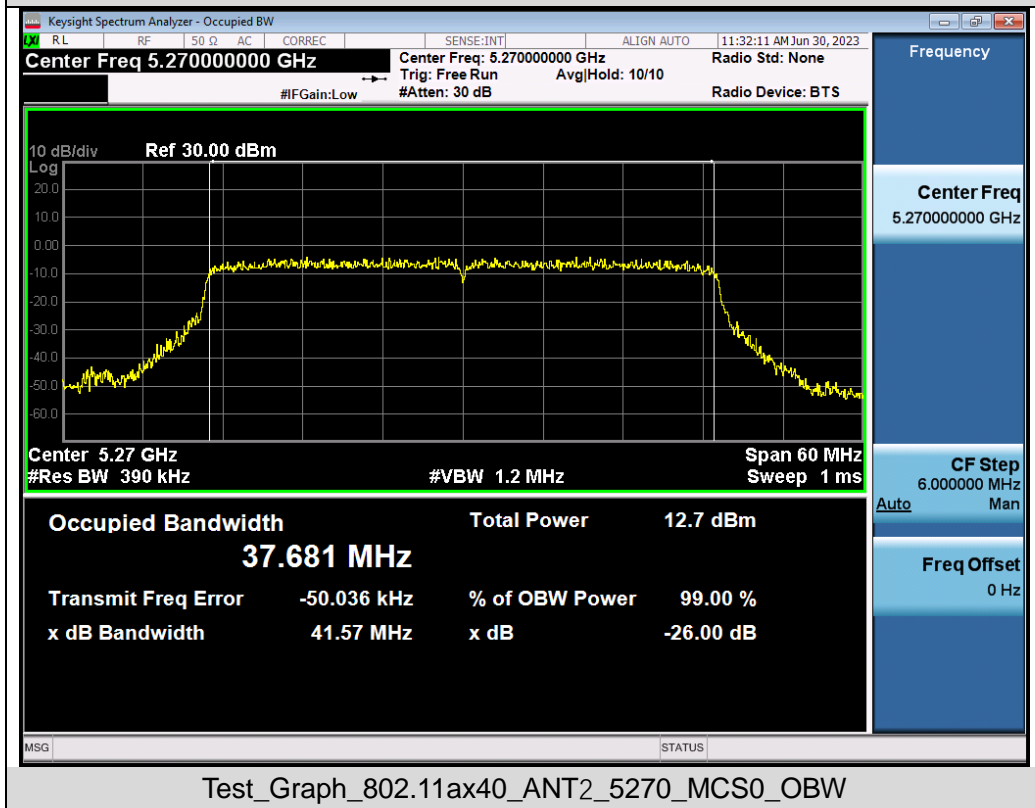
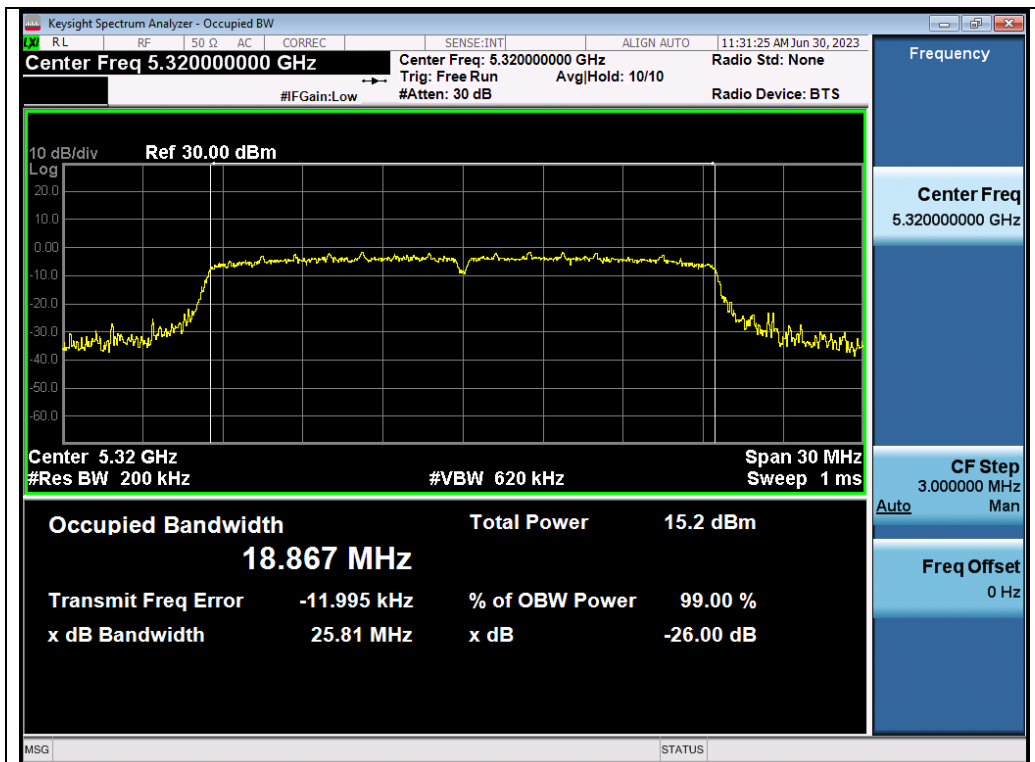
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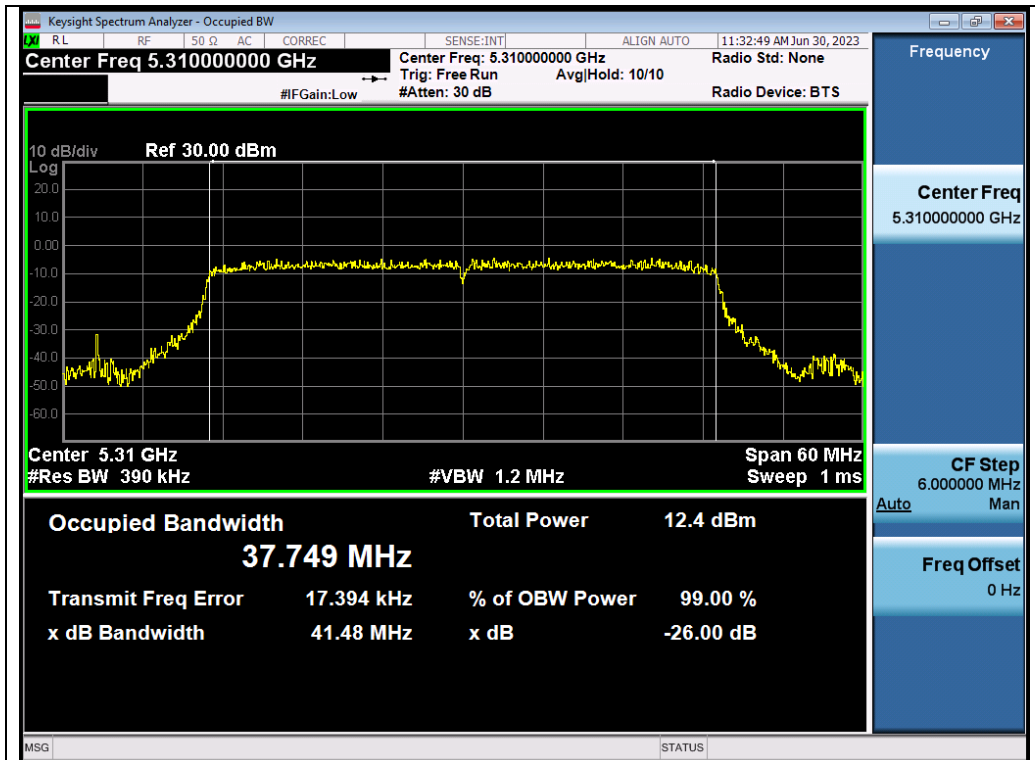


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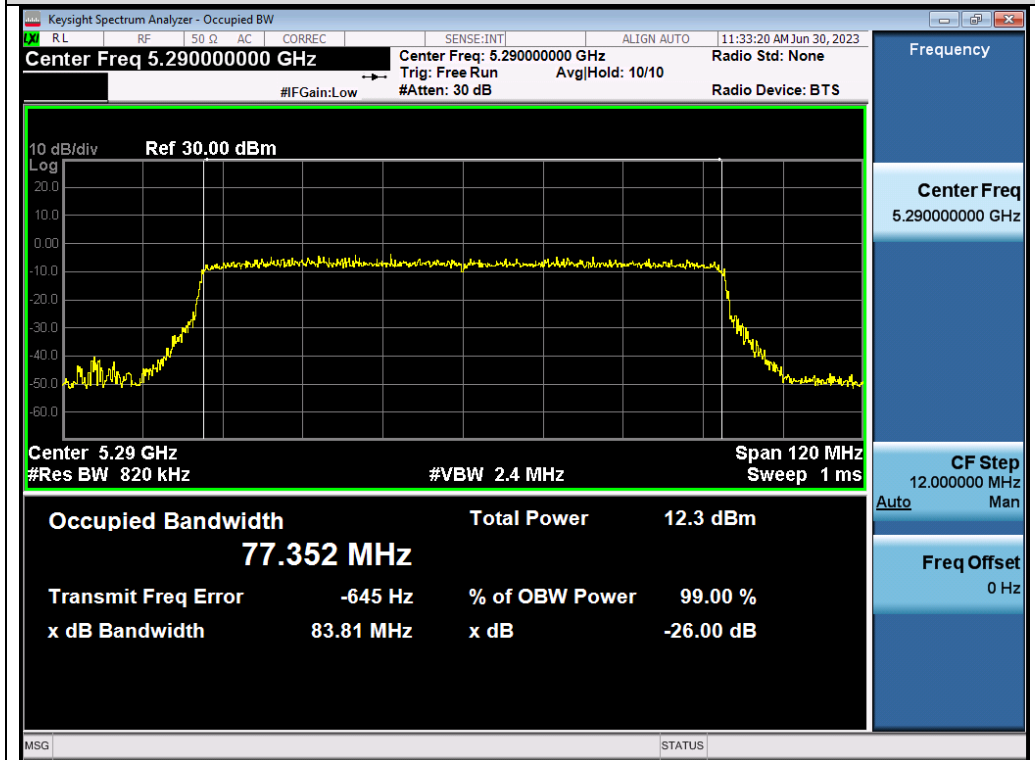




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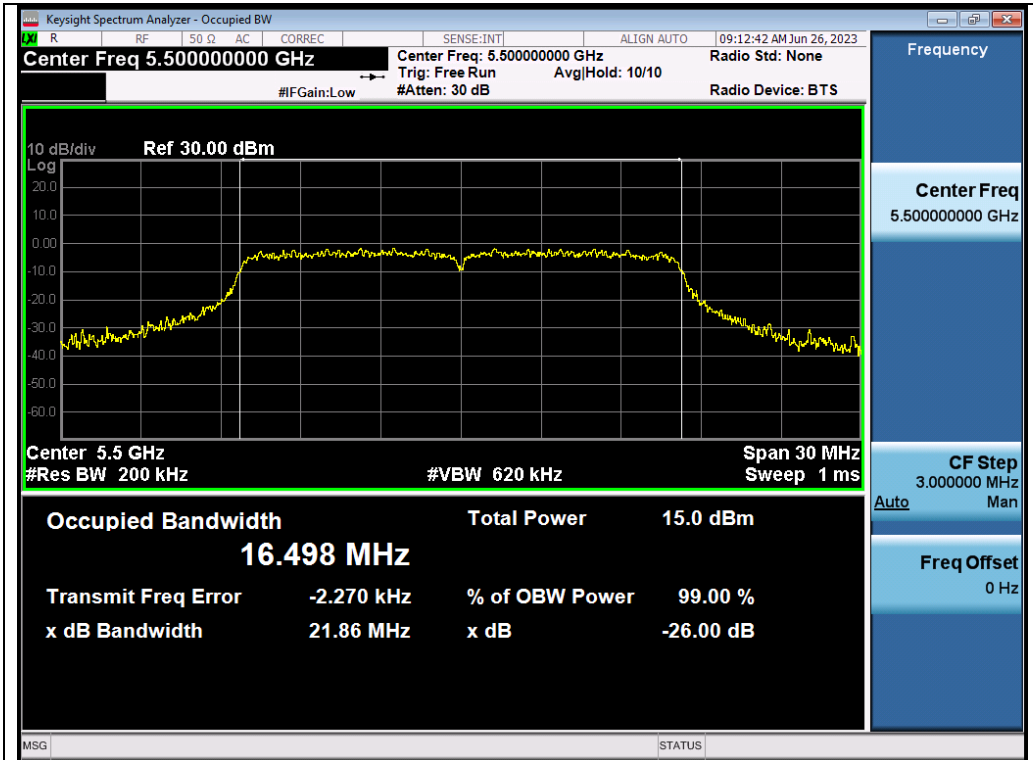
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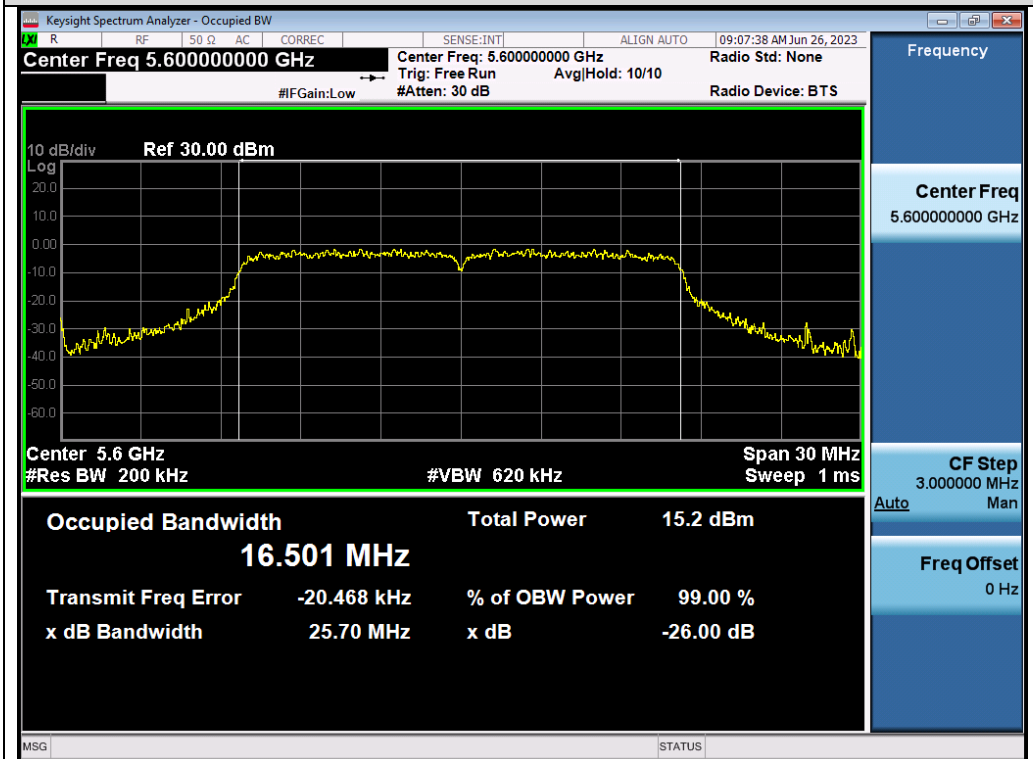
Test\_Graph\_802.11ax80\_ANT2\_5290\_MCS0\_OBW

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**Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz**

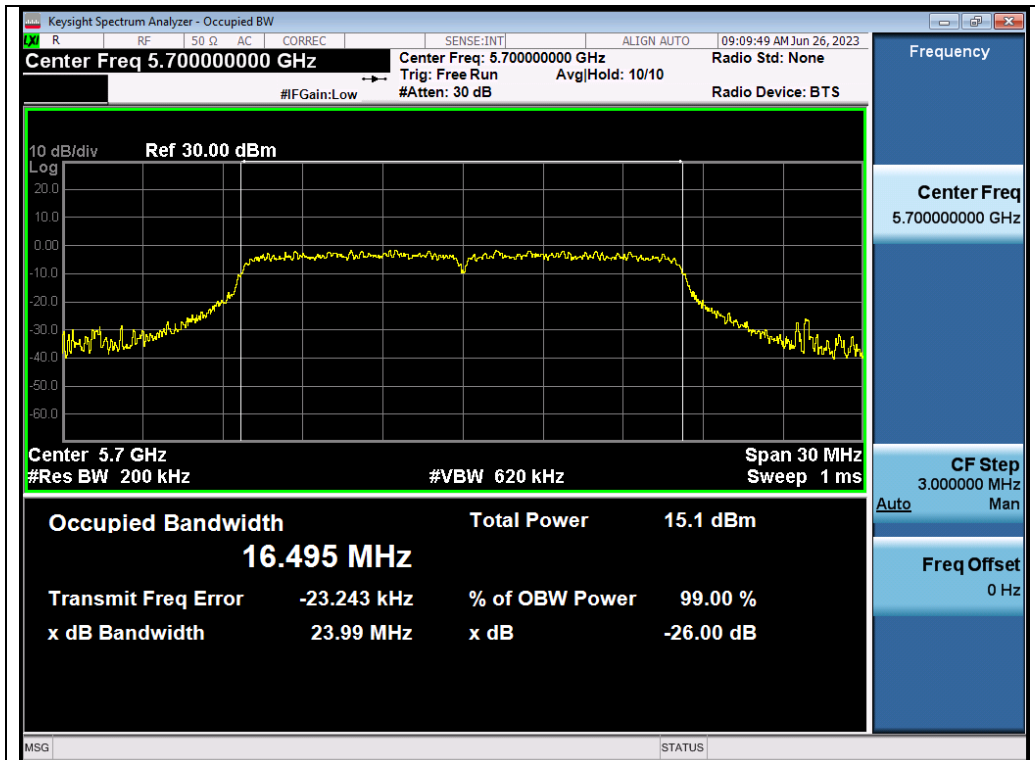


Test\_Graph\_802.11a\_ANT1\_5500\_6Mbps\_OBW

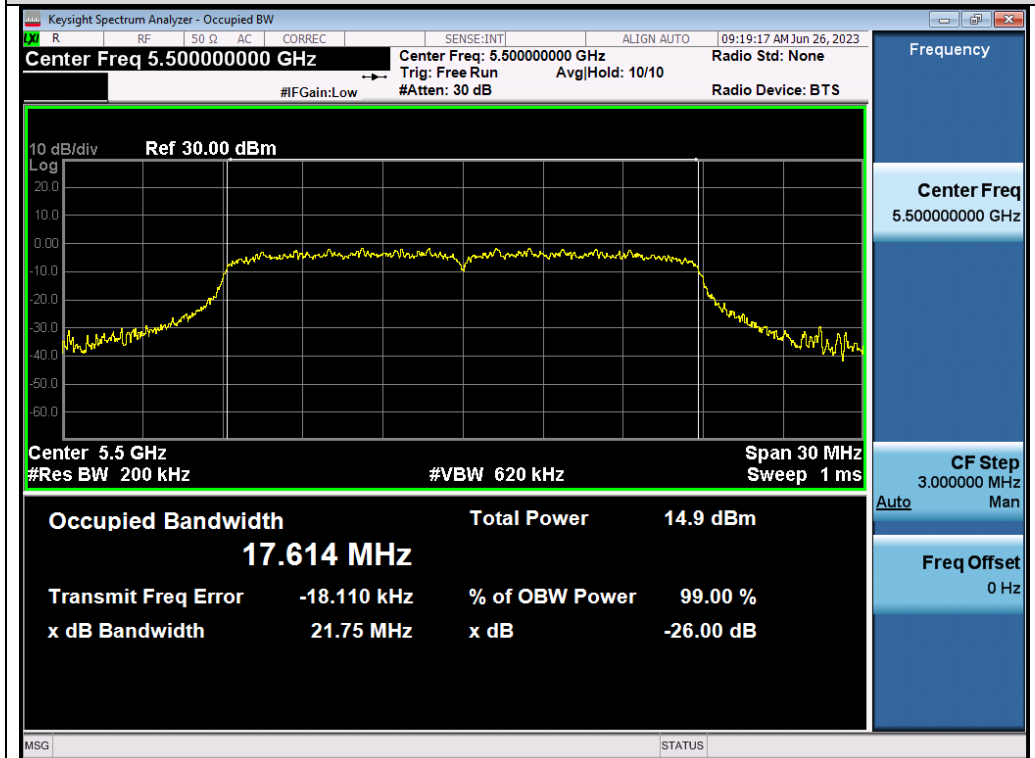


Test\_Graph\_802.11a\_ANT1\_5600\_6Mbps\_OBW

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Test\_Graph\_802.11a\_ANT1\_5700\_6Mbps\_OBW



Test\_Graph\_802.11n20\_ANT1\_5500\_MCS0\_OBW

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