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# FCC Test Report

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Report No.: AGC01689220805FE06

**FCC ID** : 2A2UU-P12

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Mini POS Terminal

**BRAND NAME** : Kobile, Clip, Kripto, Foodics, Dejavoo

**MODEL NAME** : P12

**APPLICANT** : Shanghai Xiangcheng Communication Technology Co.,Ltd

**DATE OF ISSUE** : Sep. 28, 2022

**STANDARD(S)** : FCC Part 15.407

**TEST PROCEDURE(S)** : KDB 789033 D02 v02r01

**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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**REPORT REVISE RECORD**

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | Sep. 28, 2022 | Valid         | Initial Release |

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## 1. VERIFICATION OF CONFORMITY

|                                     |                                                                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant</b>                    | Shanghai Xiangcheng Communication Technology Co.,Ltd                                                                                                           |
| <b>Address</b>                      | 6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai, China                                                                          |
| <b>Manufacturer</b>                 | Shanghai Xiangcheng Communication Technology Co.,Ltd                                                                                                           |
| <b>Address</b>                      | 6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai, China                                                                          |
| <b>Factory</b>                      | Sichuan Xiangcheng Intelligent Technology Co, Ltd                                                                                                              |
| <b>Address</b>                      | Factory No. 2, Zone A, Intelligent Terminal Demonstration Park, West Section of Gangyuan Road, Lingang Economic Development Zone, Yibin City, Sichuan Province |
| <b>Product Designation</b>          | Mini POS Terminal                                                                                                                                              |
| <b>Brand Name</b>                   | Kobile, Clip, Kripto, Foodics, Dejavoo                                                                                                                         |
| <b>Test Model</b>                   | P12                                                                                                                                                            |
| <b>Date of receipt of test item</b> | Aug. 11, 2022                                                                                                                                                  |
| <b>Date of test</b>                 | Aug. 11, 2022~Sep. 27, 2022                                                                                                                                    |
| <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



Alan Duan  
(Project Engineer)

Sep. 28, 2022

Reviewed By



Calvin Liu  
(Reviewer)

Sep. 28, 2022

Approved By



Max Zhang  
Authorized Officer

Sep. 28, 2022

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as “Mini POS Terminal”. It is designed by way of utilizing the OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

|                             |                                                                                                                                                        |                                                                                                                               |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Equipment Type</b>       | <input type="checkbox"/> Outdoor access points<br><input type="checkbox"/> Fixed P2P access points                                                     | <input type="checkbox"/> Indoor access points<br><input checked="" type="checkbox"/> Client devices                           |
| <b>Operation Frequency</b>  | <input checked="" type="checkbox"/> U-NII 1:5150MHz~5250MHz<br><input type="checkbox"/> U-NII 2C:5470MHz~5725MHz                                       | <input checked="" type="checkbox"/> U-NII 2A: 5250MHz~5350MHz<br><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>Test Frequency Range</b> | For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5745~5825MHz<br>For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5755~5795MHz                                       |                                                                                                                               |
| <b>Max Average Power</b>    | IEEE 802.11a:10.71dBm; IEEE 802.11n-HT20:10.24dBm;<br>IEEE 802.11n-HT40:10.44dBm; IEEE 802.11ac-VHT20:9.94dBm;<br>IEEE 802.11ac-VHT40:9.62dBm;         |                                                                                                                               |
| <b>Modulation</b>           | 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM)<br>802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM,128QAM)<br>802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM,128QAM,256QAM) |                                                                                                                               |
| <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 400(868.8)Mbps                                                         |                                                                                                                               |
| <b>Number of channels</b>   | 6 channels of U-NII-1 Band<br>6 channels of U-NII-2A Band<br>7 channels of U-NII-3 Band                                                                |                                                                                                                               |
| <b>Hardware Version</b>     | V1.0                                                                                                                                                   |                                                                                                                               |
| <b>Software Version</b>     | P1291_ALL_DVT_V1.0_20220722                                                                                                                            |                                                                                                                               |
| <b>Antenna Designation</b>  | PIFA Antenna (Comply with requirements of the FCC part 15.203)                                                                                         |                                                                                                                               |
| <b>Antenna Gain</b>         | U-NII 1:-0.71dBi<br>U- NII-2A:-1.37dBi<br>U- NII 3:-0.71dBi                                                                                            |                                                                                                                               |
| <b>Power Supply</b>         | DC 3.85V by battery                                                                                                                                    |                                                                                                                               |

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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):

| 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):

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

For 5745~5825MHz:

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

| 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):

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

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

This submittal(s) (test report) is intended for **FCC ID: 2A2UU-P12** filing to comply with the FCC Part 15 requirements.

### **2.4. TEST METHODOLOGY**

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013).

Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.407 rules KDB 789033 D02

### **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**

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

### 3. MEASUREMENT UNCERTAINTY

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

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

### 4. DESCRIPTION OF TEST MODES

| Mode           | Available channel                   | Tested channel           | Modulation | Date rate (Mbps) |
|----------------|-------------------------------------|--------------------------|------------|------------------|
| 802.11a/n/ac20 | 36,40,44,48,<br>149,153,157,161,165 | 36,40,48,<br>149,157,165 | OFDM       | 6Mbps/MCS0       |
| 802.11n/ac40   | 38,46,151,159                       | 38,46, 151,159           | OFDM       | MCS0             |

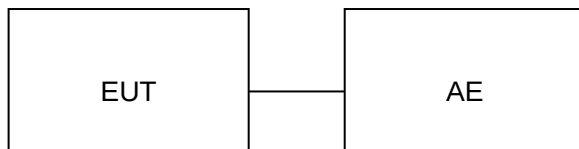
**Note:**

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.
3. The test software is through engineering commands, EUT can be set to a separate test mode.

## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



### 5.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment         | Model No.               | ID or Specification                          | Remark      |
|------|-------------------|-------------------------|----------------------------------------------|-------------|
| 1    | Mini POS Terminal | P12                     | FCC ID: 2A2UU-P12                            | EUT         |
| 2    | Battery           | P12                     | DC 3.85V 1700mAh                             | Accessories |
| 3    | Back clip         | N/A                     | N/A                                          | Accessories |
| 4    | Adapter           | LM-601E-050200U0<br>1CE | Input: 100-240V, 50/60Hz<br>Output: DC 5V 2A | Accessories |
| 5    | USB Cable         | N/A                     | N/A                                          | Accessories |

### 5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST                    | RESULT    |
|-----------|----------------------------------------|-----------|
| §15.407   | 6dB Bandwidth                          | Compliant |
| §15.407   | Emission Bandwidth                     | Compliant |
| §15.407   | Maximum conducted output power         | Compliant |
| §15.407   | Conducted Spurious Emission            | Compliant |
| §15.407   | Maximum Conducted Output Power Density | Compliant |
| §15.209   | Radiated Emission                      | Compliant |
| §15.407   | Band Edges                             | Compliant |
| §15.207   | Line Conduction Emission               | Compliant |

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## 6. TEST FACILITY

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

### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment     | Manufacturer | Model                | S/N    | Cal. Date     | Cal. Due      |
|---------------|--------------|----------------------|--------|---------------|---------------|
| TEST RECEIVER | R&S          | ESPI                 | 101206 | Aug. 04, 2022 | Aug. 03, 2023 |
| LISN          | R&S          | ESH2-Z5              | 100086 | Jun. 08, 2022 | Jun. 07, 2023 |
| Test software | R&S          | ES-K1<br>(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      | Mar. 28, 2022 | Mar. 27, 2023 |
| EXA Signal Analyzer               | Aglient        | N9010A               | MY53470504 | Nov. 17, 2021 | Nov. 16, 2022 |
| 2.4GHz Filter                     | EM Electronics | 2400-2500MHz         | N/A        | N/A           | N/A           |
| Attenuator                        | ZHINAN         | E-002                | N/A        | Sep. 01, 2022 | Aug. 31, 2023 |
| Horn antenna                      | SCHWARZBECK    | BBHA 9170            | #768       | Oct. 31, 2021 | Oct. 30, 2023 |
| Active loop antenna<br>(9K-30MHz) | ZHINAN         | ZN30900C             | 18051      | Mar. 12, 2022 | Mar. 11, 2024 |
| Double-Ridged Waveguide Horn      | ETS LINDGREN   | 3117                 | 00034609   | Apr. 23, 2021 | Apr. 22, 2023 |
| Broadband Preamplifier            | ETS LINDGREN   | 3117PA               | 00225134   | Sep. 01, 2022 | Aug. 31, 2023 |
| ANTENNA                           | SCHWARZBECK    | VULB9168             | 494        | Jan. 08, 2021 | Jan. 07, 2023 |
| Test software                     | Tonscend       | JS32-RE<br>(Ver.2.5) | N/A        | N/A           | N/A           |

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## 7. MAXIMUM CONDUCTED OUTPUT POWER

### 7.1. MEASUREMENT PROCEDURE

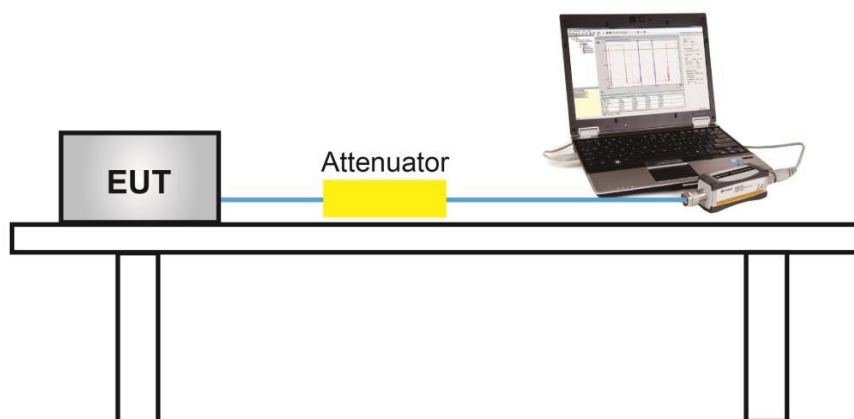
Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

#### For average power test:

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

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

### 7.2. TEST SET-UP



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### 7.3. LIMITS AND MEASUREMENT RESULT

| Test Data of Conducted Output Power for band 5.15-5.25 GHz |                    |                     |              |              |
|------------------------------------------------------------|--------------------|---------------------|--------------|--------------|
| Test Mode                                                  | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a                                                    | 5180               | 10.47               | 23.98        | Pass         |
|                                                            | 5200               | 10.39               | 23.98        | Pass         |
|                                                            | 5240               | <b>10.71</b>        | 23.98        | Pass         |
| 802.11n20                                                  | 5180               | 10.15               | 23.98        | Pass         |
|                                                            | 5200               | 10.20               | 23.98        | Pass         |
|                                                            | 5240               | 10.09               | 23.98        | Pass         |
| 802.11n40                                                  | 5190               | 10.30               | 23.98        | Pass         |
|                                                            | 5230               | <b>10.44</b>        | 23.98        | Pass         |
| 802.11ac20                                                 | 5180               | 9.94                | 23.98        | Pass         |
|                                                            | 5200               | 9.39                | 23.98        | Pass         |
|                                                            | 5240               | 9.53                | 23.98        | Pass         |
| 802.11ac40                                                 | 5190               | 9.93                | 23.98        | Pass         |
|                                                            | 5230               | 9.57                | 23.98        | Pass         |

| Test Data of Conducted Output Power for band 5.25-5.35 GHz |                    |                     |              |              |
|------------------------------------------------------------|--------------------|---------------------|--------------|--------------|
| Test Mode                                                  | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a                                                    | 5260               | 10.23               | 23.98        | Pass         |
|                                                            | 5300               | 10.01               | 23.98        | Pass         |
|                                                            | 5320               | 10.08               | 23.98        | Pass         |
| 802.11n20                                                  | 5260               | 10.08               | 23.98        | Pass         |
|                                                            | 5300               | <b>10.24</b>        | 23.98        | Pass         |
|                                                            | 5320               | 9.96                | 23.98        | Pass         |
| 802.11n40                                                  | 5270               | 10.02               | 23.98        | Pass         |
|                                                            | 5310               | 9.81                | 23.98        | Pass         |
| 802.11ac20                                                 | 5260               | 9.93                | 23.98        | Pass         |
|                                                            | 5300               | 9.85                | 23.98        | Pass         |
|                                                            | 5320               | 9.90                | 23.98        | Pass         |
| 802.11ac40                                                 | 5270               | 9.67                | 23.98        | Pass         |
|                                                            | 5310               | 9.62                | 23.98        | Pass         |

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| Test Data of Conducted Output Power for band 5.725-5.85 GHz |                    |                     |              |              |
|-------------------------------------------------------------|--------------------|---------------------|--------------|--------------|
| Test Mode                                                   | Test Channel (MHz) | Average Power (dBm) | Limits (dBm) | Pass or Fail |
| 802.11a                                                     | 5745               | 10.01               | 30           | Pass         |
|                                                             | 5785               | 10.25               | 30           | Pass         |
|                                                             | 5825               | 9.94                | 30           | Pass         |
| 802.11n20                                                   | 5745               | 9.80                | 30           | Pass         |
|                                                             | 5785               | 9.73                | 30           | Pass         |
|                                                             | 5825               | 9.55                | 30           | Pass         |
| 802.11n40                                                   | 5755               | 9.64                | 30           | Pass         |
|                                                             | 5795               | 9.71                | 30           | Pass         |
| 802.11ac20                                                  | 5745               | 9.39                | 30           | Pass         |
|                                                             | 5785               | 9.41                | 30           | Pass         |
|                                                             | 5825               | 9.48                | 30           | Pass         |
| 802.11ac40                                                  | 5755               | 9.11                | 30           | Pass         |
|                                                             | 5795               | 9.14                | 30           | Pass         |

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## 8. BANDWIDTH MEASUREMENT

### 8.1. MEASUREMENT PROCEDURE

#### 8.1.1 -6dB BANDWIDTH MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 100kHz.
4. Set the VBW  $\geq 3 \times \text{RBW}$ . 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.

#### 8.1.2 99% OCCUPIED BANDWIDTH

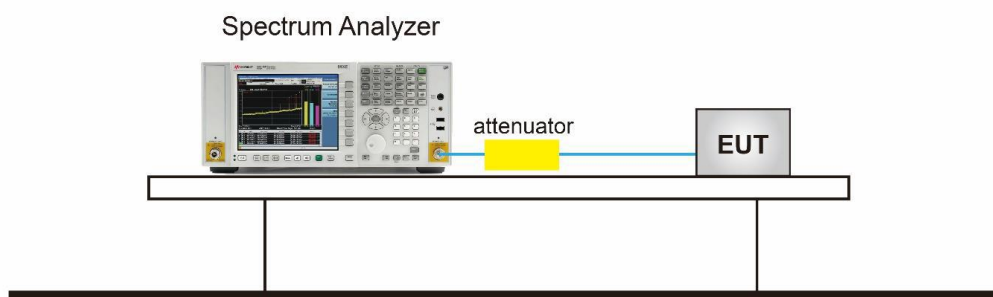
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel. The nominal IF filter bandwidth (3 dB RBW) shall 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.

#### 8.1.3 -26dB BANDWIDTH

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB
2. bandwidth measurement. The "X" dB bandwidth parameter was set to X = 26. The automatic
3. bandwidth measurement function also has the capability of simultaneously measuring the 99%
4. occupied bandwidth. The bandwidth measurement was not influenced by any intermediated
5. power nulls in the fundamental emission.
6. RBW = approximately 1% of the emission bandwidth.
7. VBW  $\geq 3 \times \text{RBW}$ .
8. Detector = Peak.
9. Trace mode = max hold.

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

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



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### 8.3. LIMITS AND MEASUREMENT RESULTS

| Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz |                    |                              |                       |              |              |
|----------------------------------------------------------------------------|--------------------|------------------------------|-----------------------|--------------|--------------|
| Test Mode                                                                  | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -26dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a                                                                    | 5180               | 16.647                       | 23.788                | N/A          | Pass         |
|                                                                            | 5200               | 16.734                       | 27.185                | N/A          | Pass         |
|                                                                            | 5240               | 16.729                       | 26.680                | N/A          | Pass         |
| 802.11n20                                                                  | 5180               | 17.678                       | 24.309                | N/A          | Pass         |
|                                                                            | 5200               | 17.713                       | 25.827                | N/A          | Pass         |
|                                                                            | 5240               | 17.792                       | 27.906                | N/A          | Pass         |
| 802.11n40                                                                  | 5190               | 36.254                       | 58.446                | N/A          | Pass         |
|                                                                            | 5230               | 36.234                       | 59.822                | N/A          | Pass         |
| 802.11ac20                                                                 | 5180               | 17.674                       | 24.976                | N/A          | Pass         |
|                                                                            | 5200               | 17.725                       | 26.052                | N/A          | Pass         |
|                                                                            | 5240               | 17.708                       | 26.922                | N/A          | Pass         |
| 802.11ac40                                                                 | 5190               | 36.203                       | 55.645                | N/A          | Pass         |
|                                                                            | 5230               | 36.240                       | 59.886                | N/A          | Pass         |

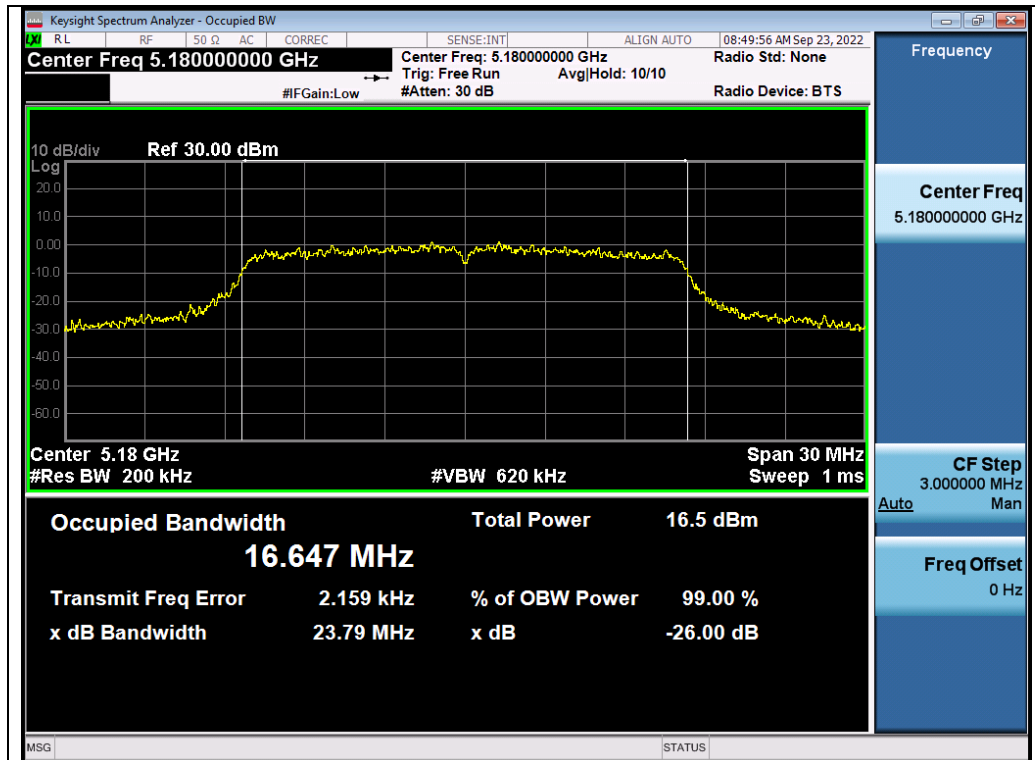
| Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz |                    |                              |                       |              |              |
|----------------------------------------------------------------------------|--------------------|------------------------------|-----------------------|--------------|--------------|
| Test Mode                                                                  | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -26dB Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a                                                                    | 5260               | 16.650                       | 24.695                | N/A          | Pass         |
|                                                                            | 5300               | 16.631                       | 24.375                | N/A          | Pass         |
|                                                                            | 5320               | 16.605                       | 22.459                | N/A          | Pass         |
| 802.11n20                                                                  | 5260               | 17.705                       | 26.396                | N/A          | Pass         |
|                                                                            | 5300               | 17.686                       | 25.060                | N/A          | Pass         |
|                                                                            | 5320               | 17.656                       | 22.701                | N/A          | Pass         |
| 802.11n40                                                                  | 5270               | 36.196                       | 56.254                | N/A          | Pass         |
|                                                                            | 5310               | 36.082                       | 54.465                | N/A          | Pass         |
| 802.11ac20                                                                 | 5260               | 17.703                       | 26.704                | N/A          | Pass         |
|                                                                            | 5300               | 17.664                       | 25.522                | N/A          | Pass         |
|                                                                            | 5320               | 17.673                       | 23.718                | N/A          | Pass         |
| 802.11ac40                                                                 | 5270               | 36.134                       | 54.631                | N/A          | Pass         |
|                                                                            | 5310               | 36.114                       | 57.327                | N/A          | Pass         |

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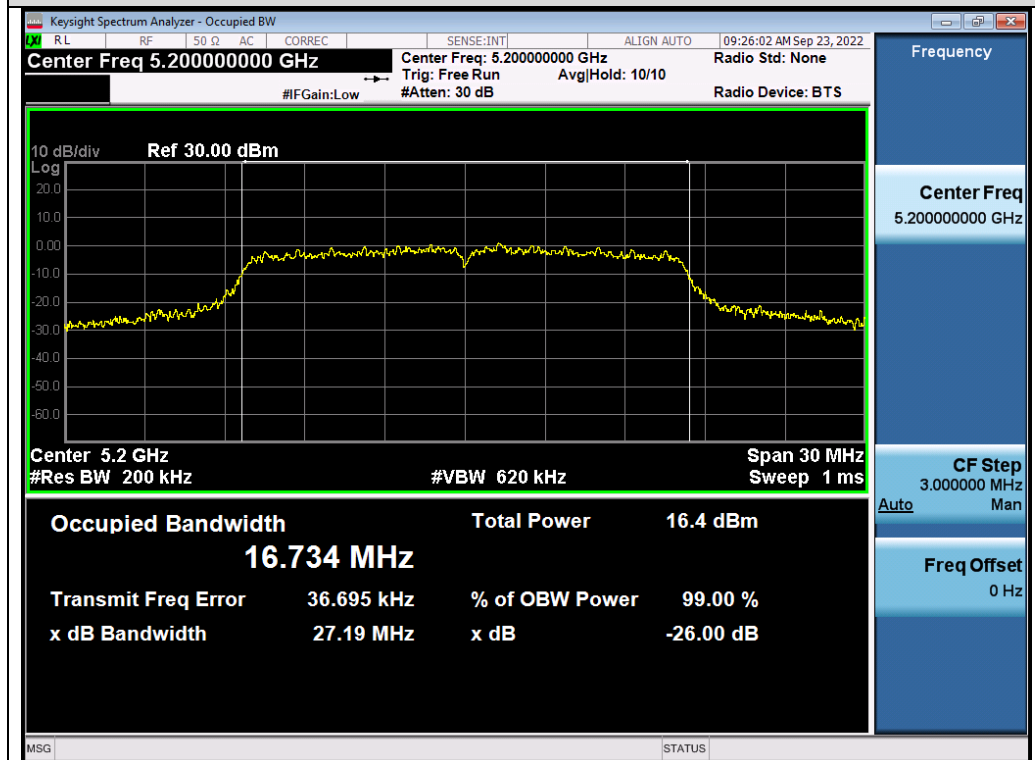
| Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz |                    |                              |                     |              |              |
|---------------------------------------------------------------------------|--------------------|------------------------------|---------------------|--------------|--------------|
| Test Mode                                                                 | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | DTS Bandwidth (MHz) | Limits (MHz) | Pass or Fail |
| 802.11a                                                                   | 5745               | 16.532                       | 15.114              | 0.5          | Pass         |
|                                                                           | 5785               | 16.489                       | 15.430              | 0.5          | Pass         |
|                                                                           | 5825               | 16.499                       | 15.680              | 0.5          | Pass         |
| 802.11n20                                                                 | 5745               | 17.593                       | 15.114              | 0.5          | Pass         |
|                                                                           | 5785               | 17.577                       | 15.113              | 0.5          | Pass         |
|                                                                           | 5825               | 17.564                       | 15.138              | 0.5          | Pass         |
| 802.11n40                                                                 | 5755               | 35.985                       | 35.410              | 0.5          | Pass         |
|                                                                           | 5795               | 35.994                       | 35.163              | 0.5          | Pass         |
| 802.11ac20                                                                | 5745               | 17.587                       | 15.884              | 0.5          | Pass         |
|                                                                           | 5785               | 17.567                       | 15.930              | 0.5          | Pass         |
|                                                                           | 5825               | 17.561                       | 15.134              | 0.5          | Pass         |
| 802.11ac40                                                                | 5755               | 36.004                       | 35.152              | 0.5          | Pass         |
|                                                                           | 5795               | 35.982                       | 35.357              | 0.5          | Pass         |

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

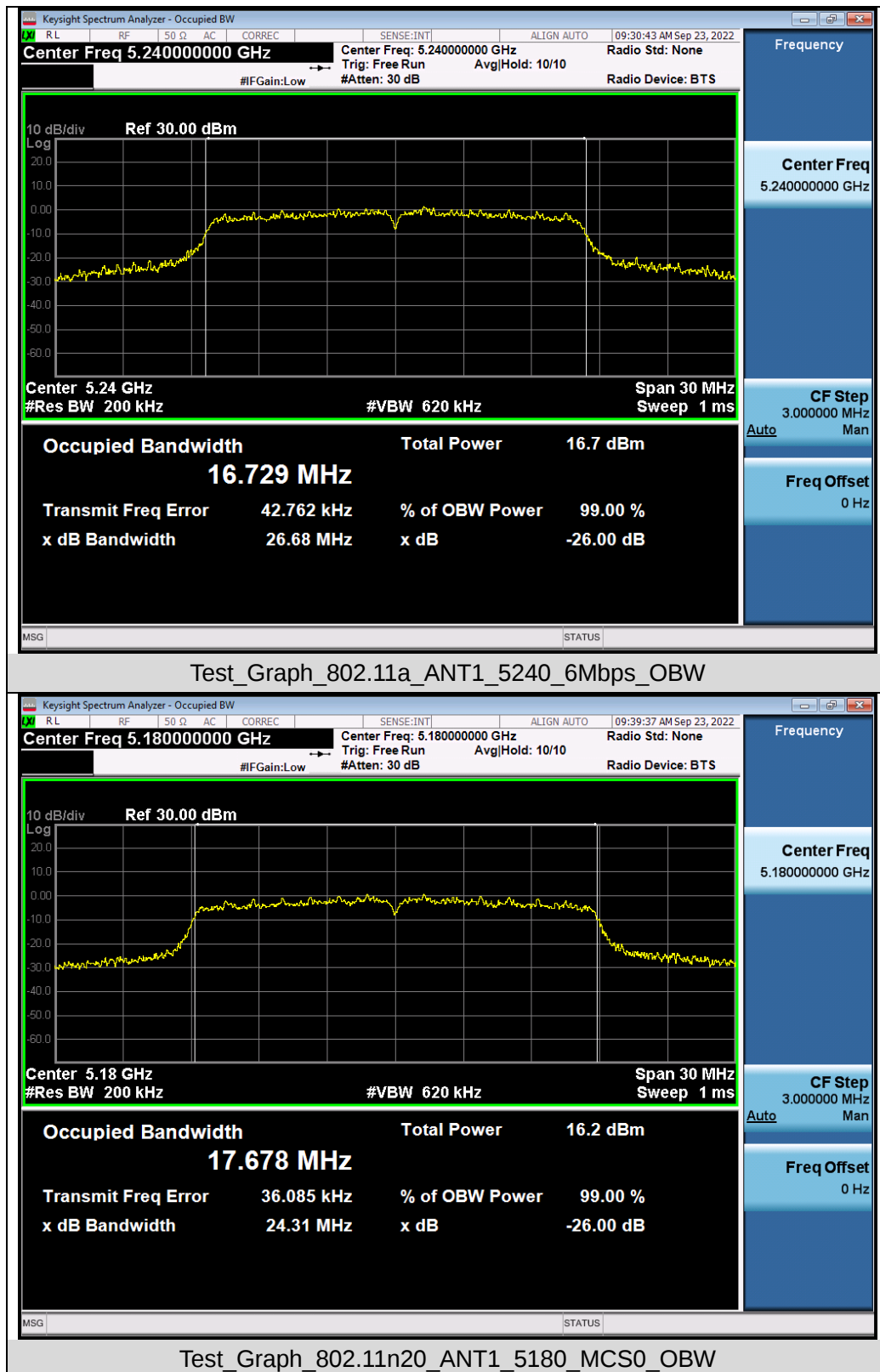


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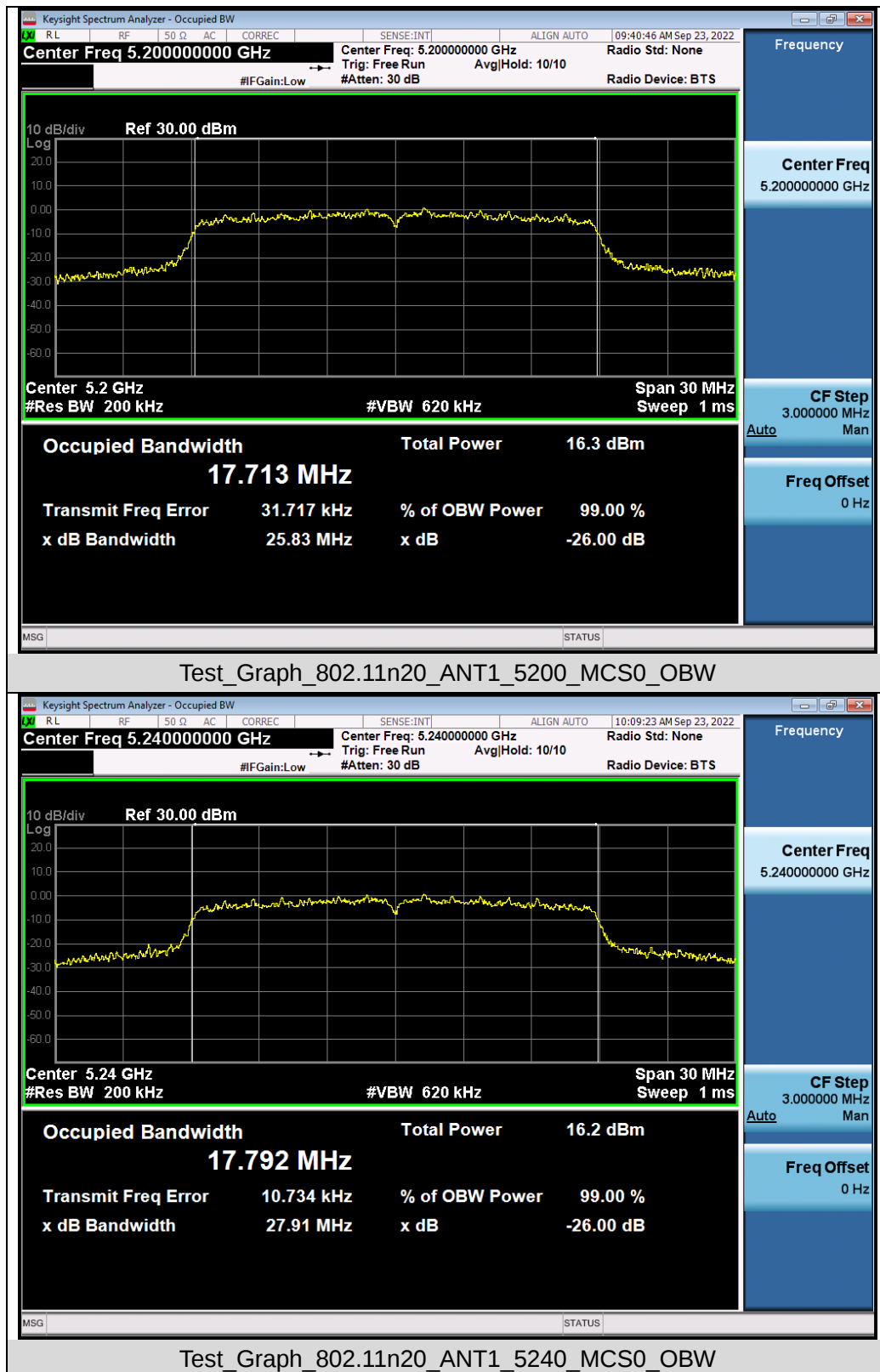


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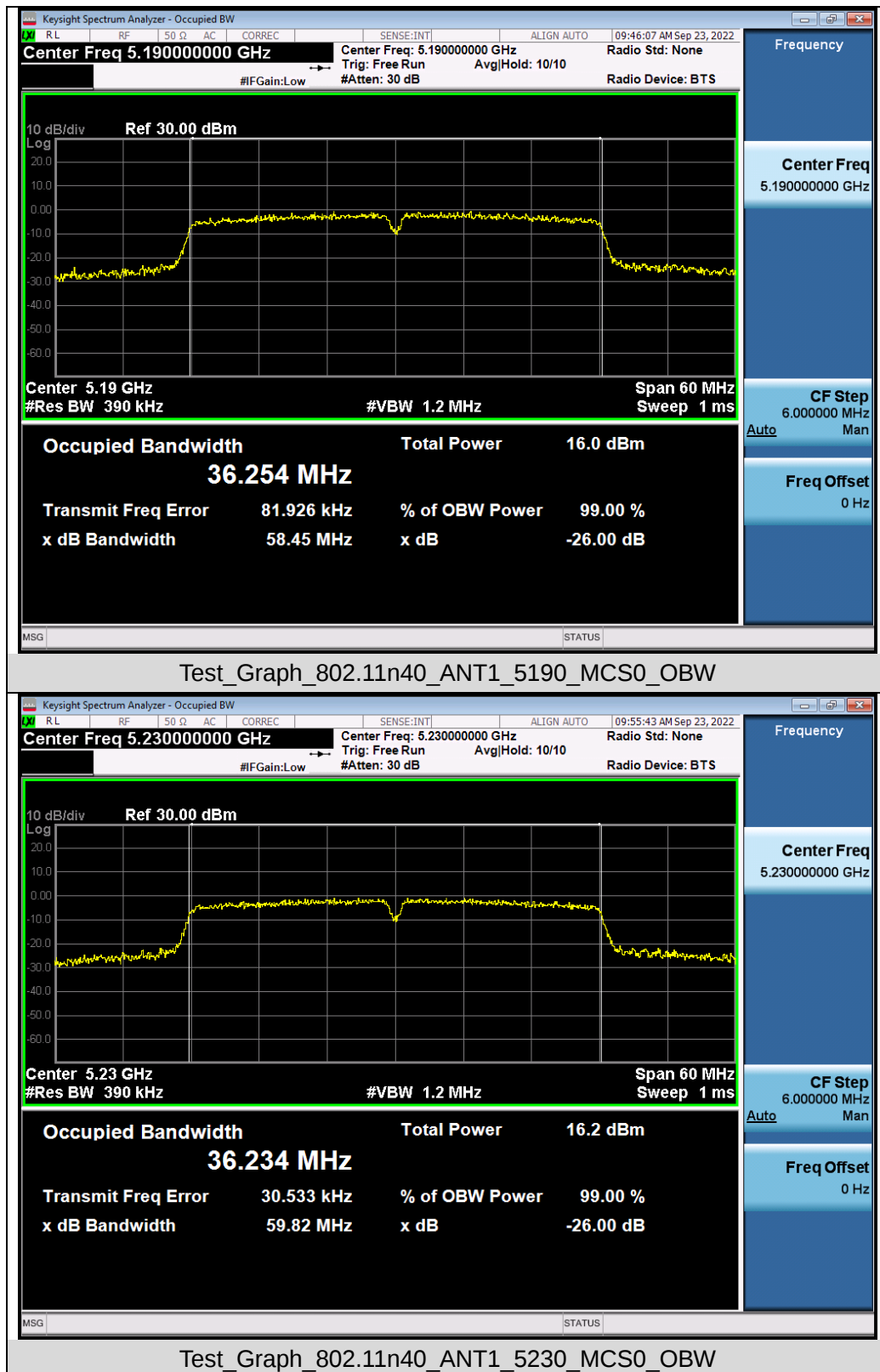
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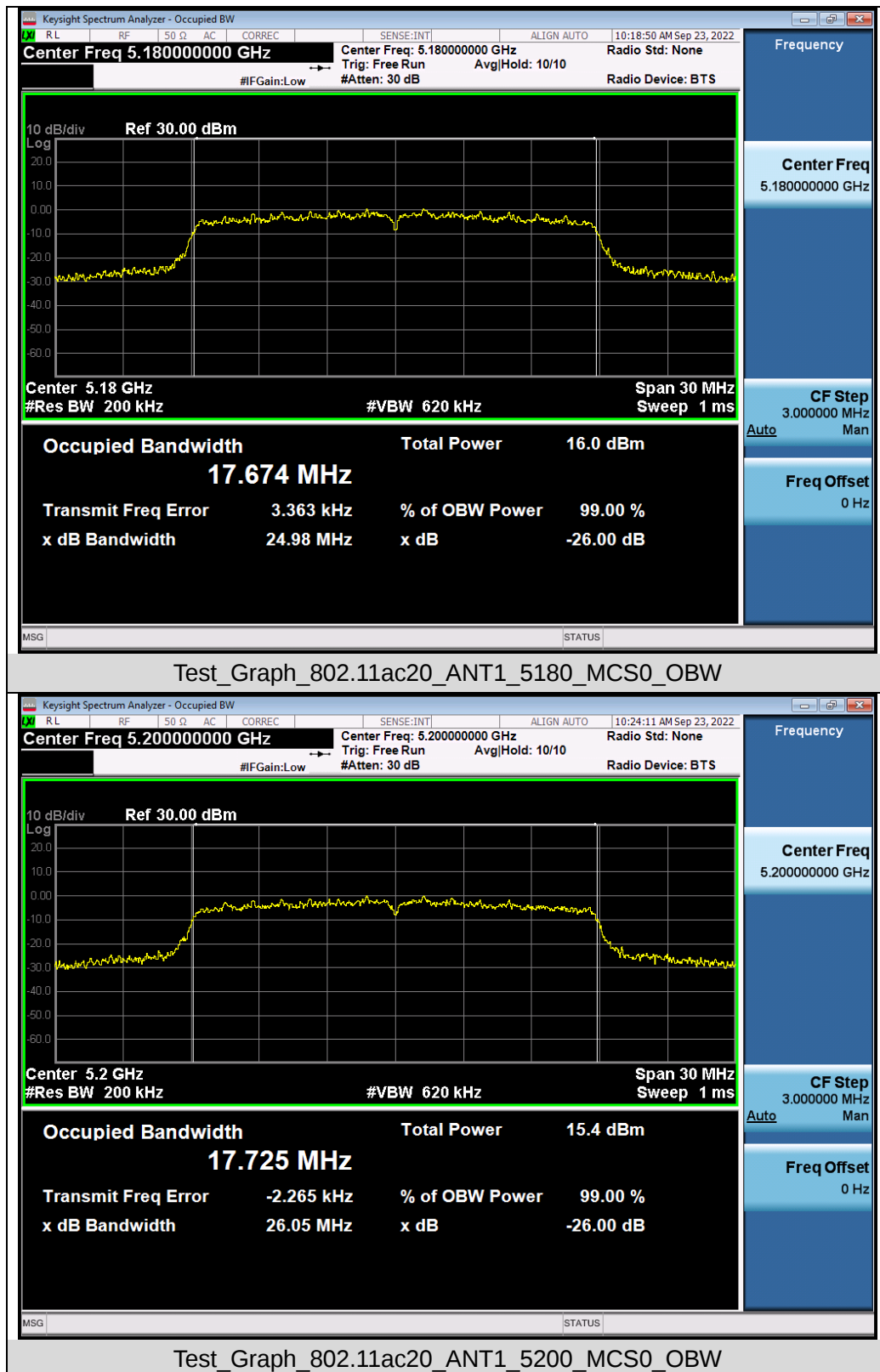
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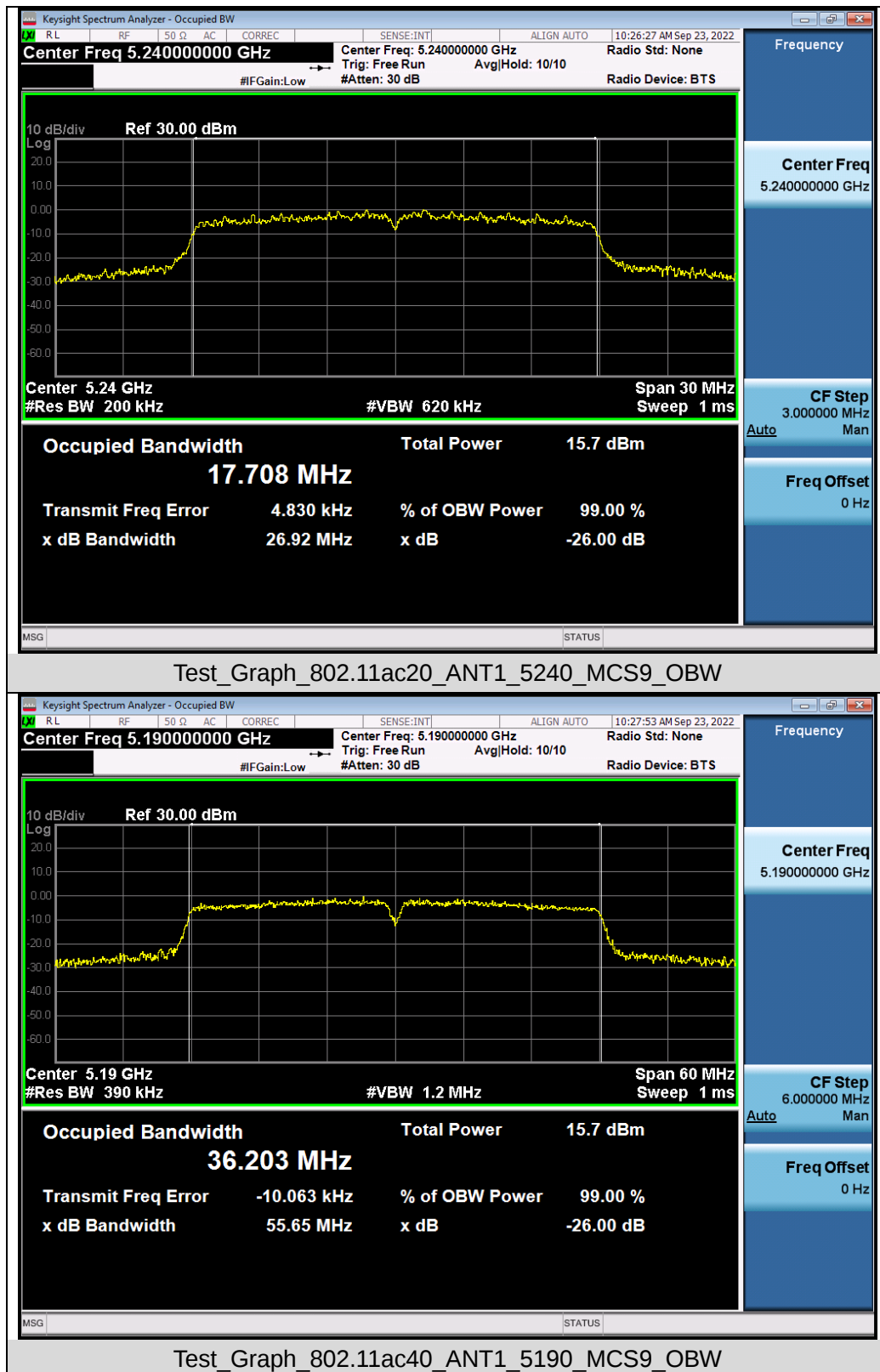
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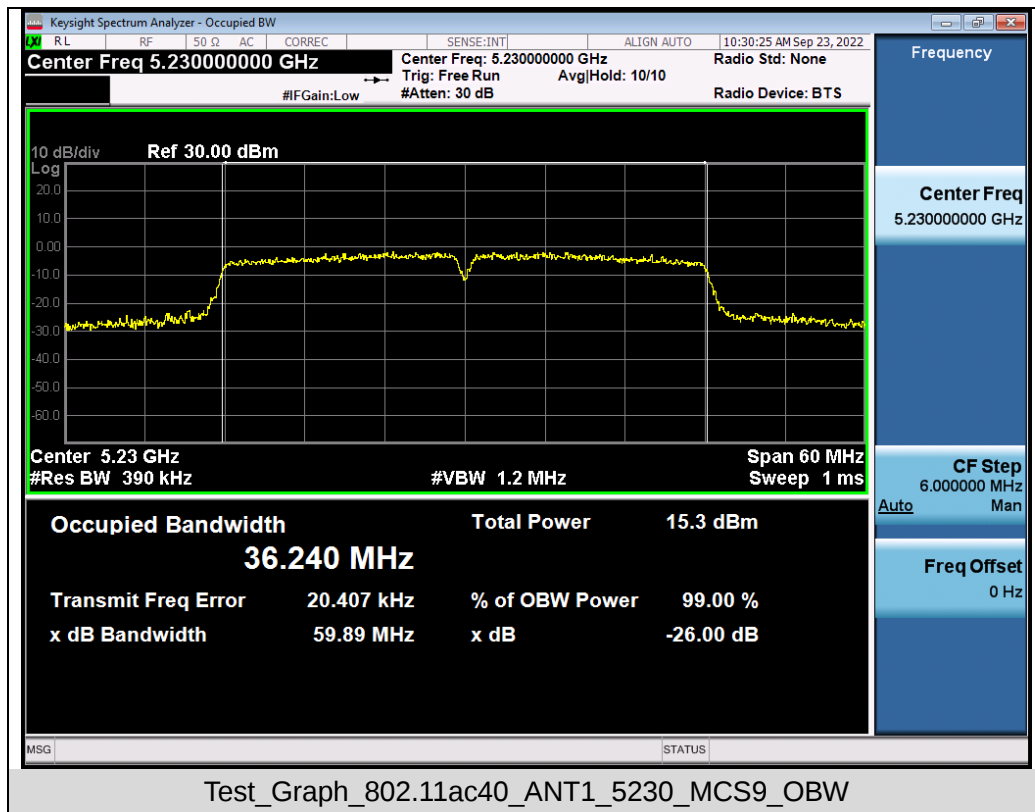
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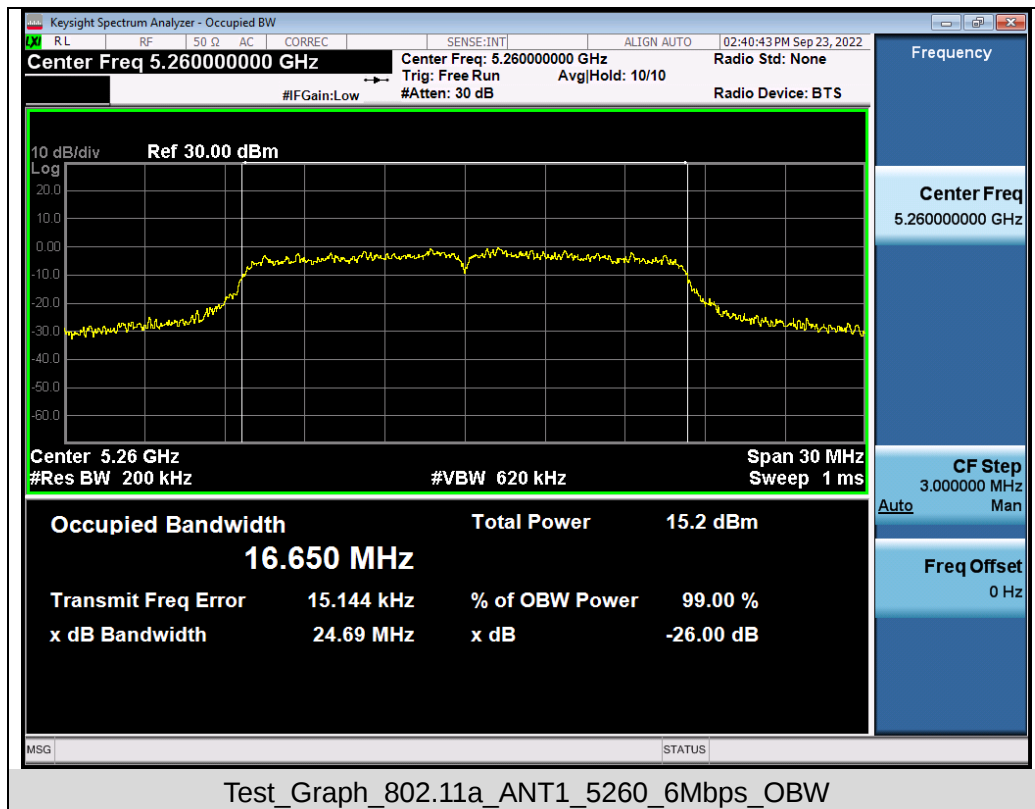
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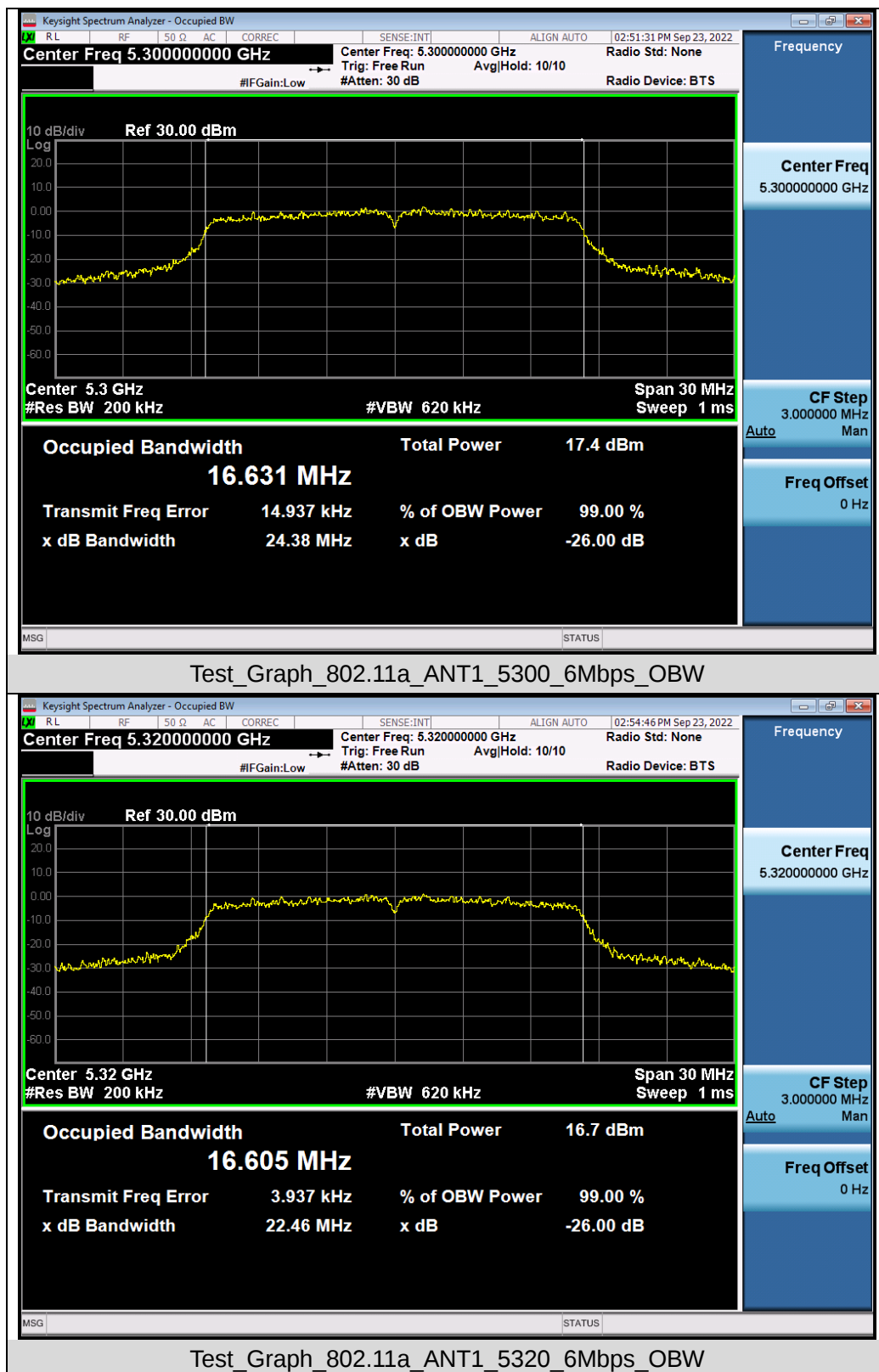
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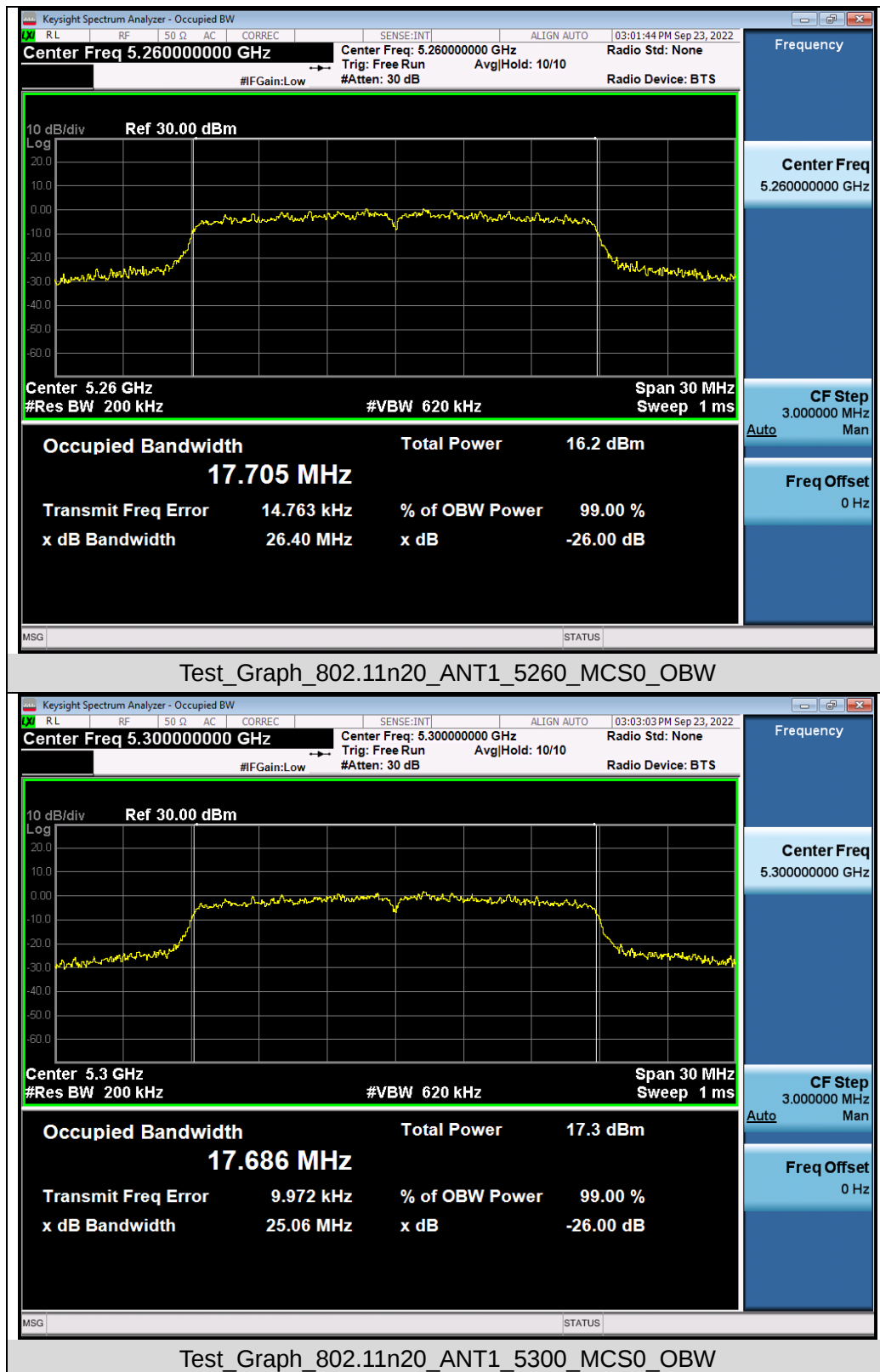
### Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz



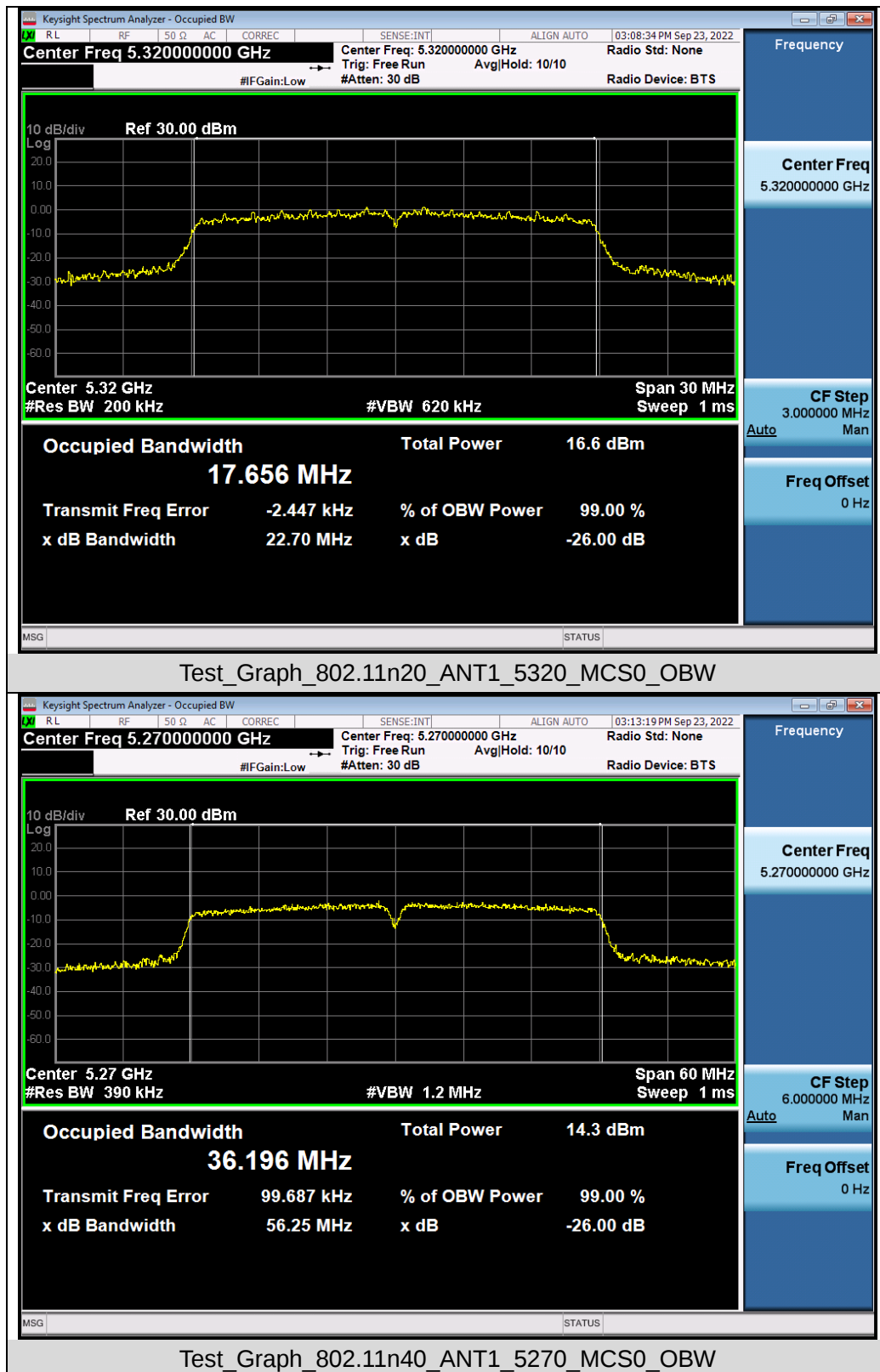
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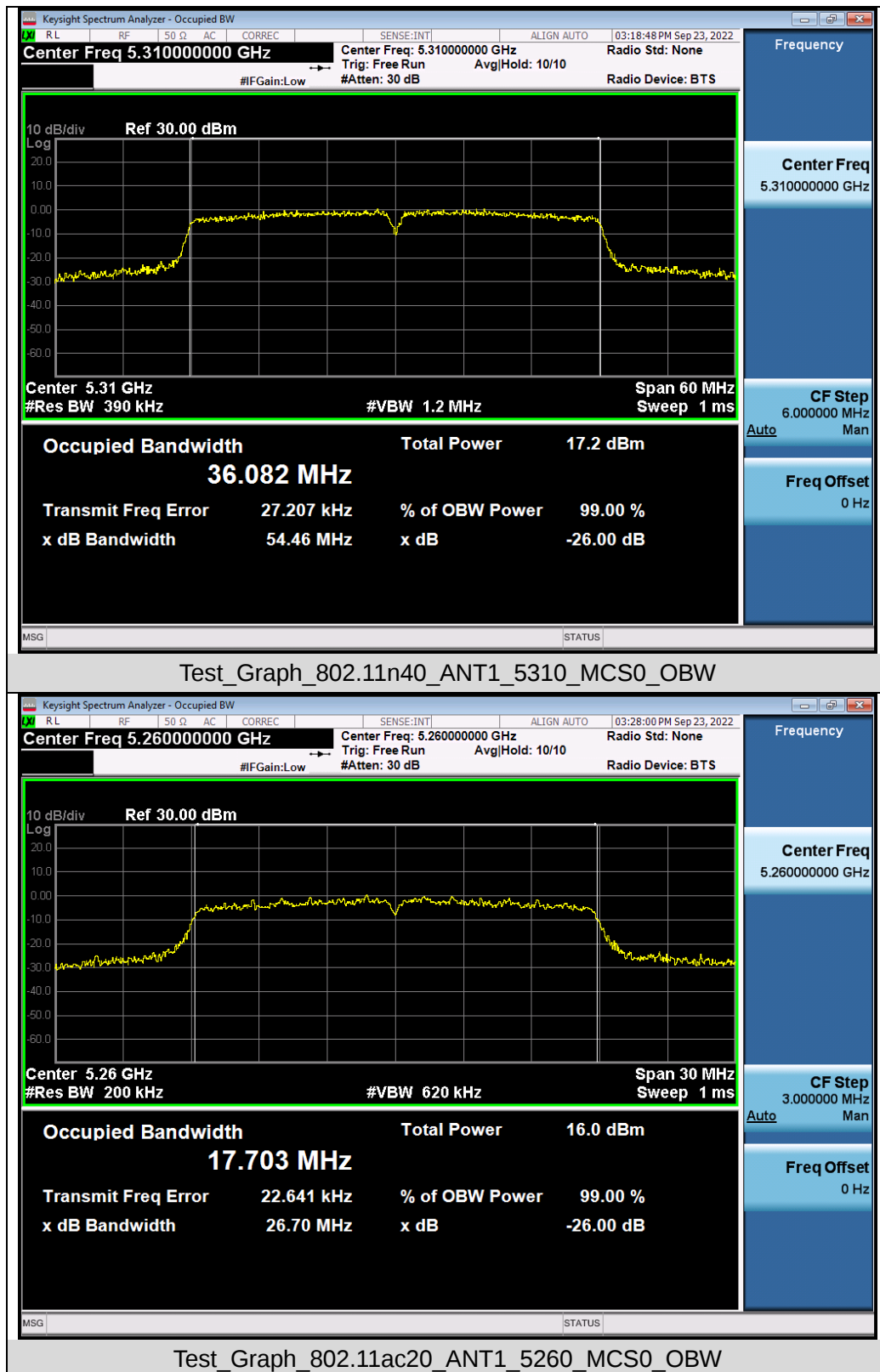
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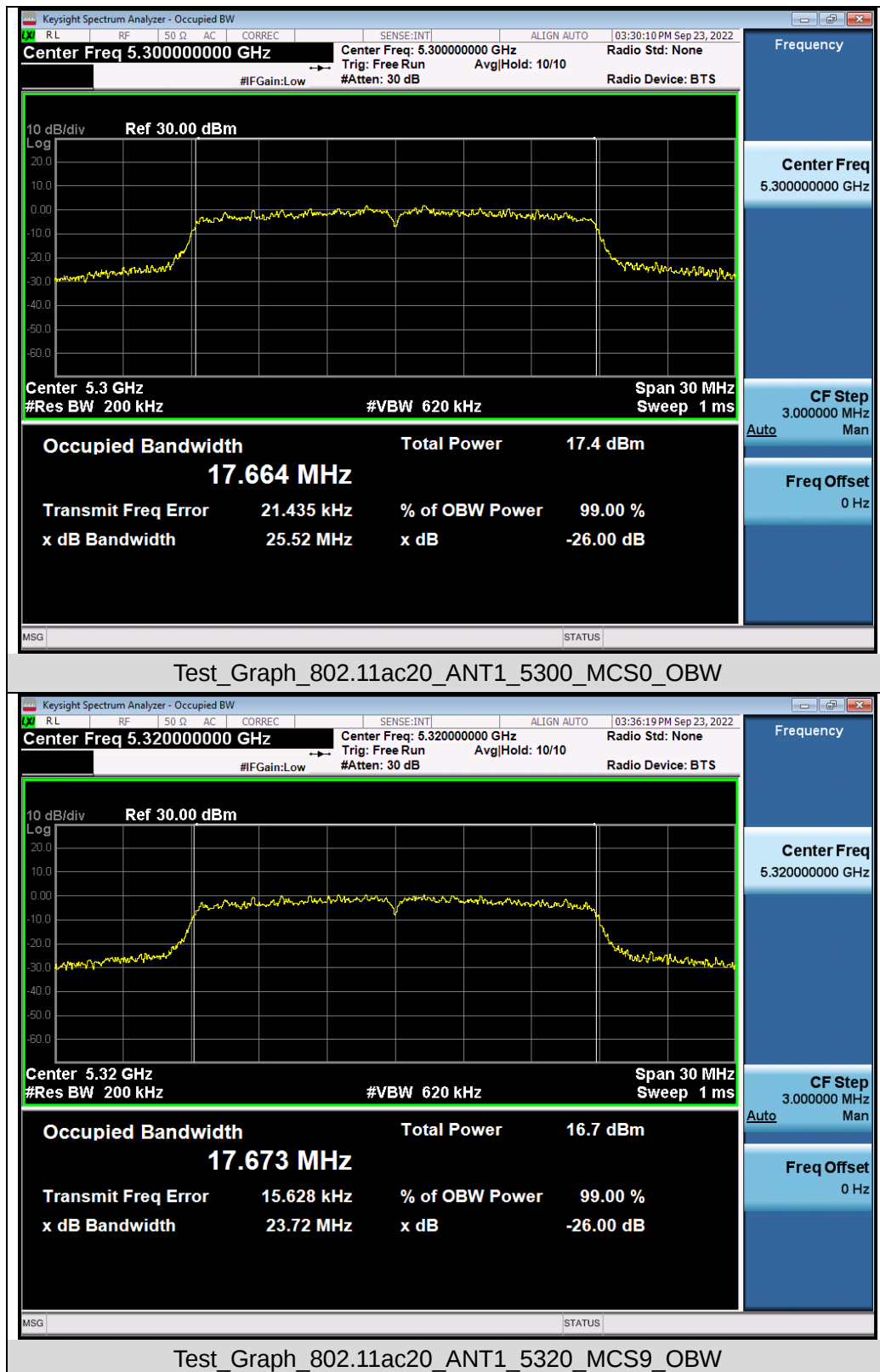
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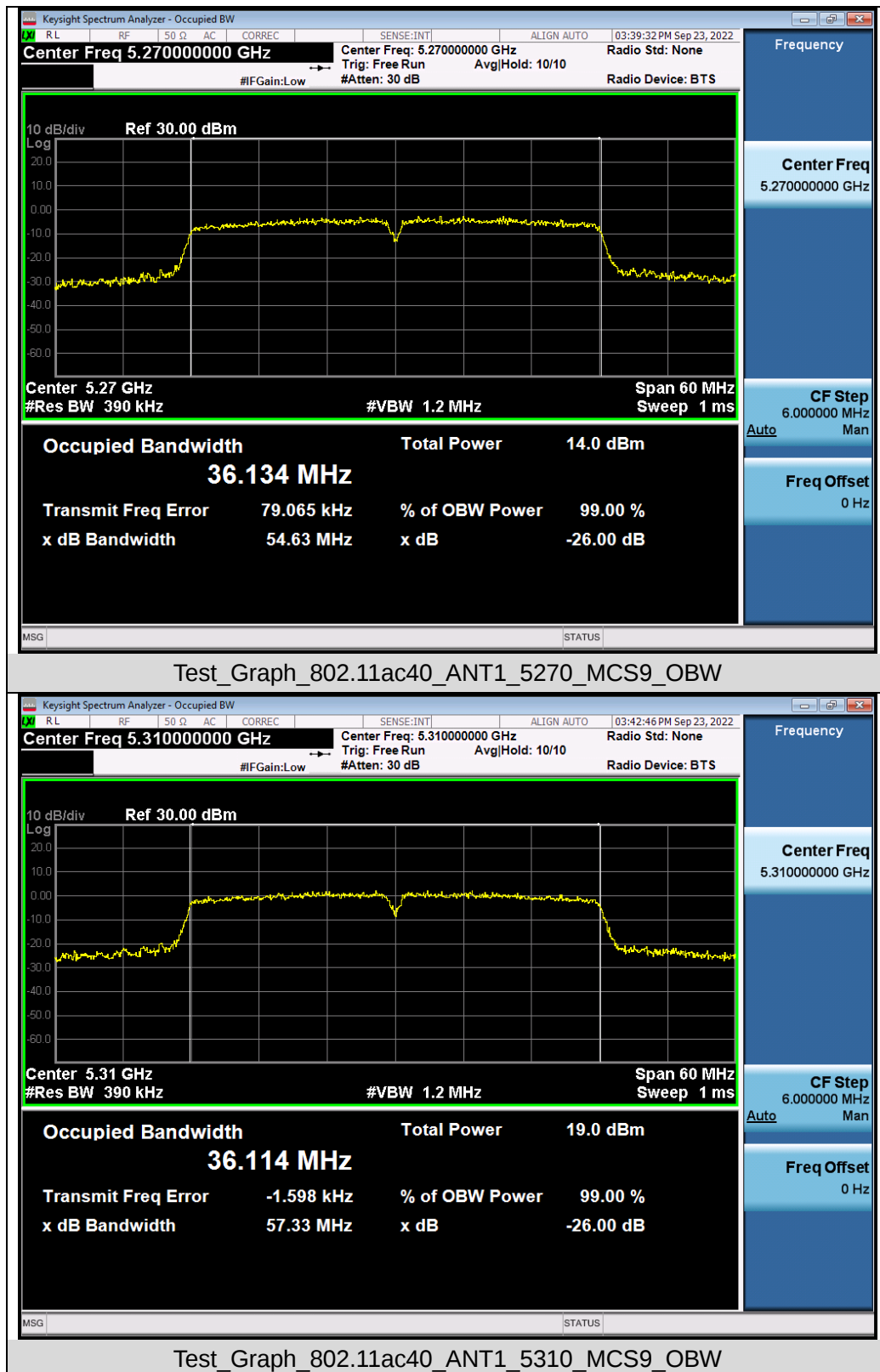
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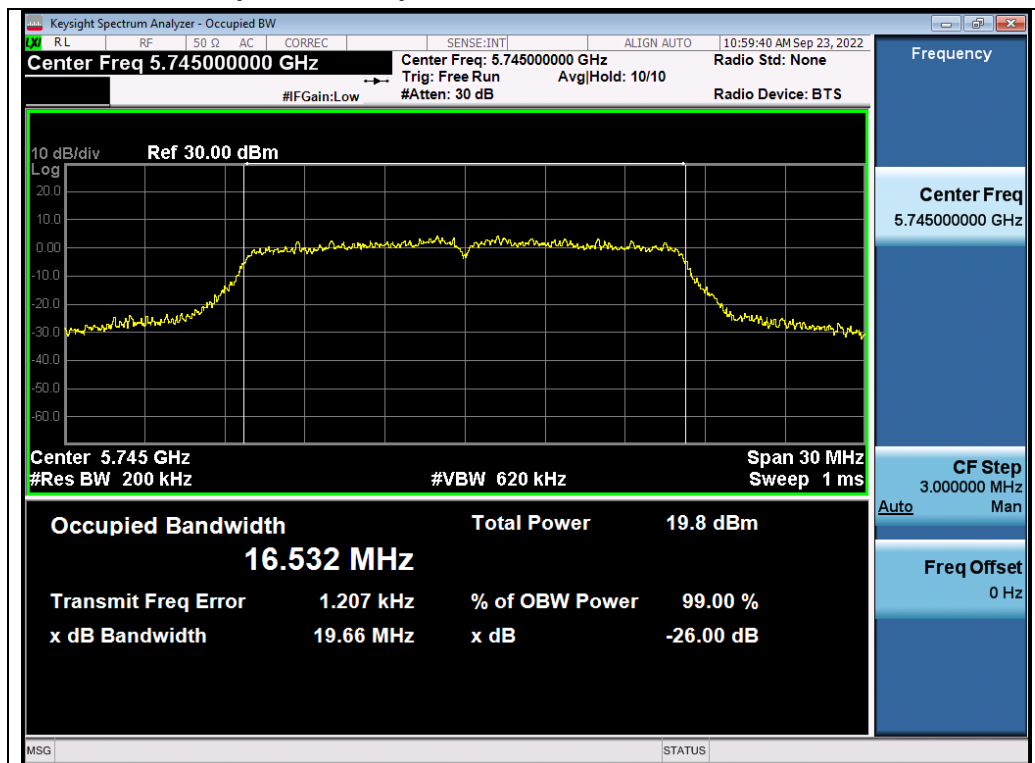


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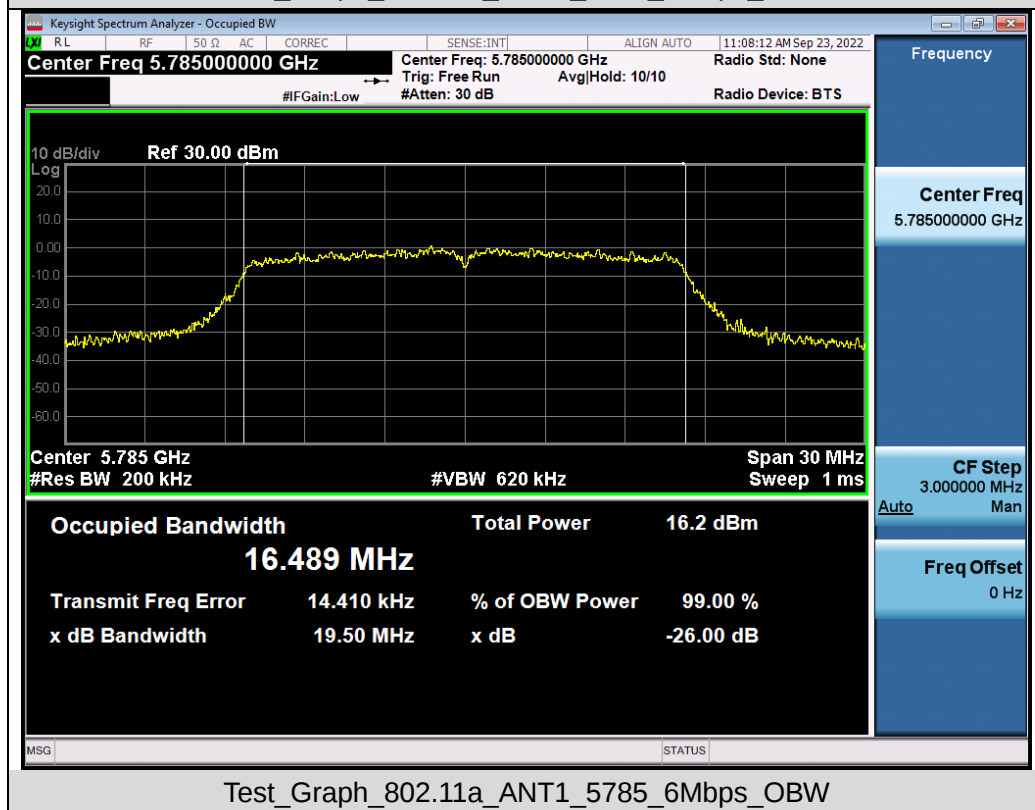


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### Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



Test\_Graph\_802.11a\_ANT1\_5745\_6Mbps\_OBW



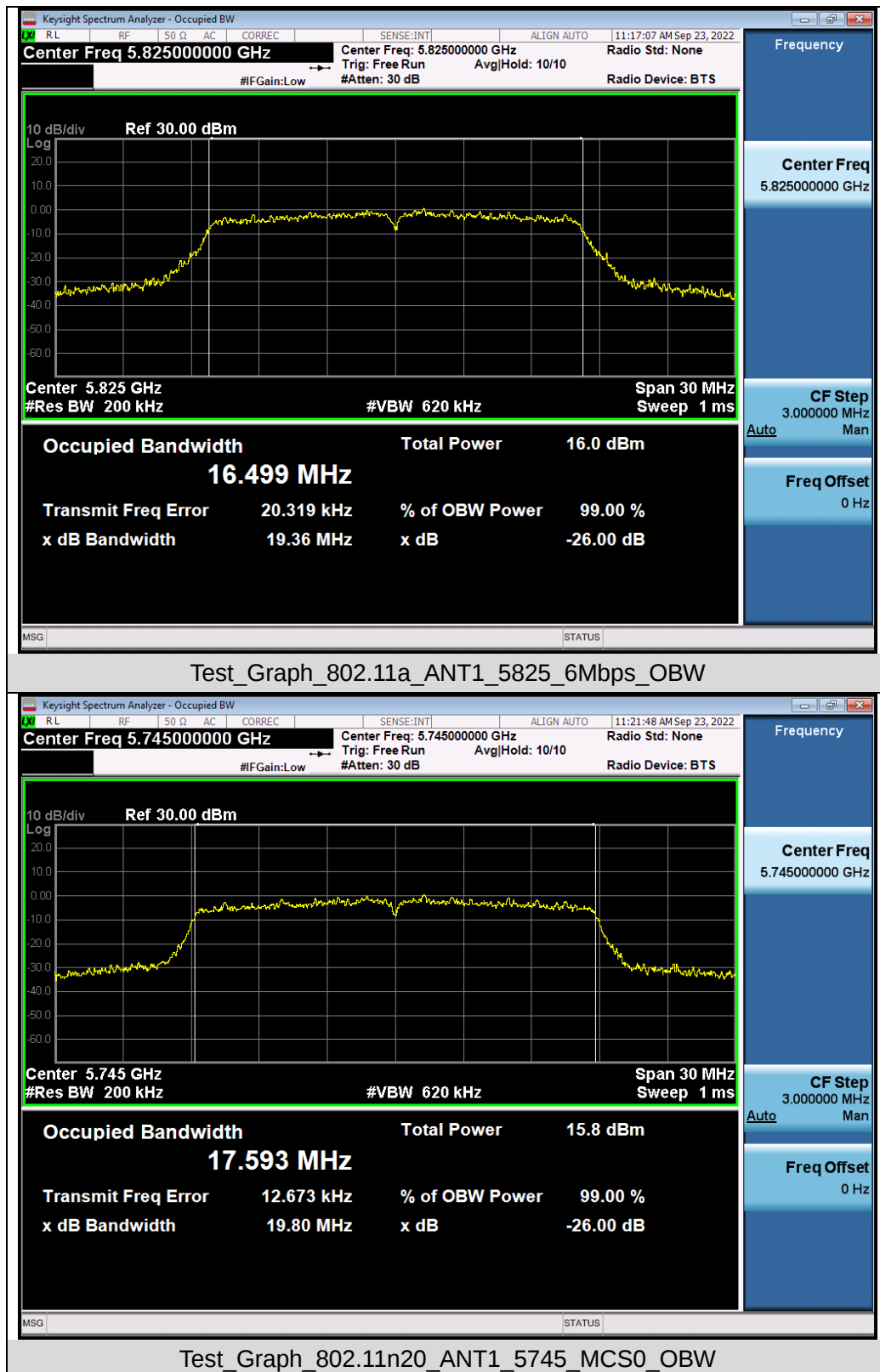
Test\_Graph\_802.11a\_ANT1\_5785\_6Mbps\_OBW

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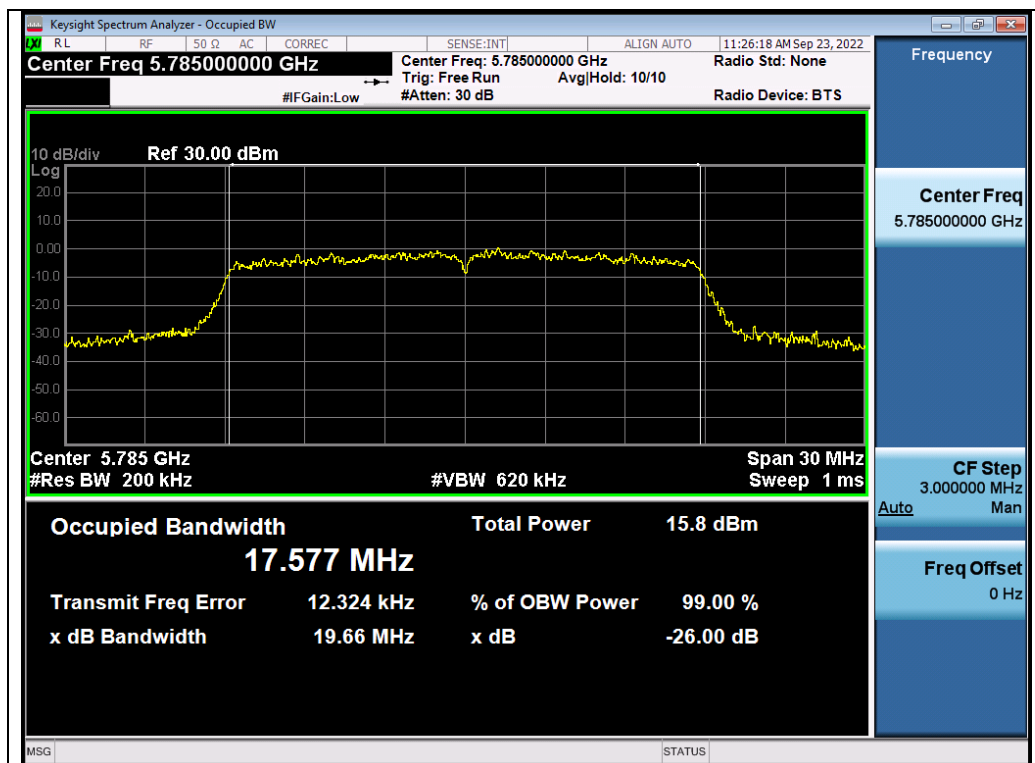
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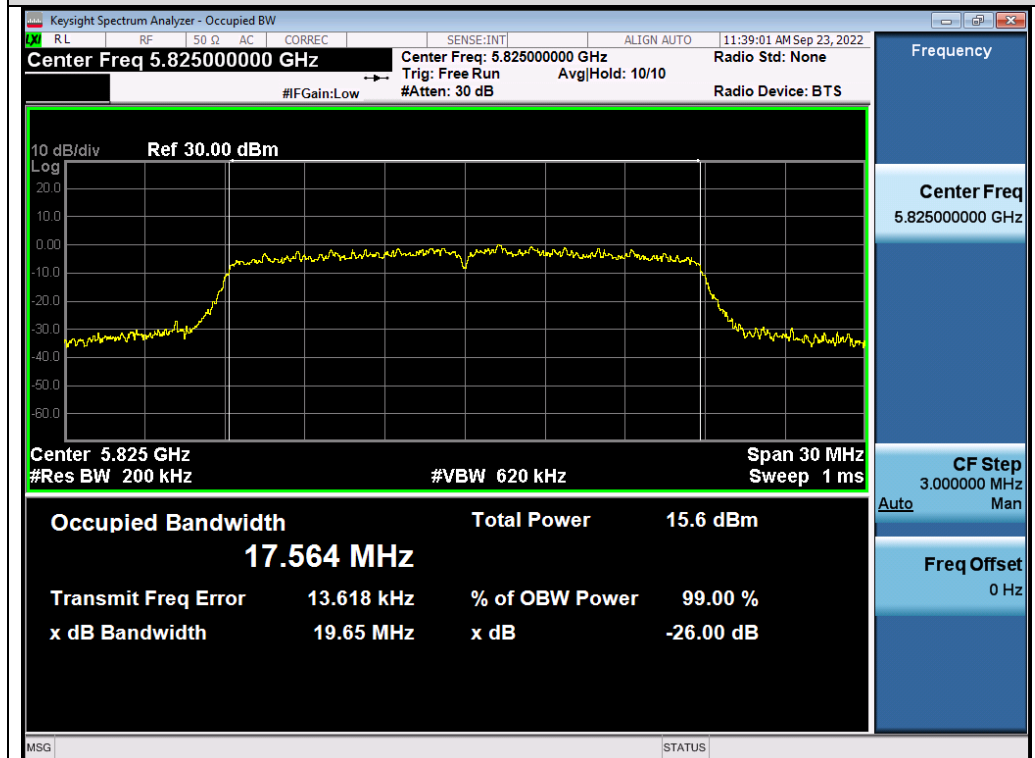
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Test\_Graph\_802.11n20\_ANT1\_5785\_MCS0\_OBW



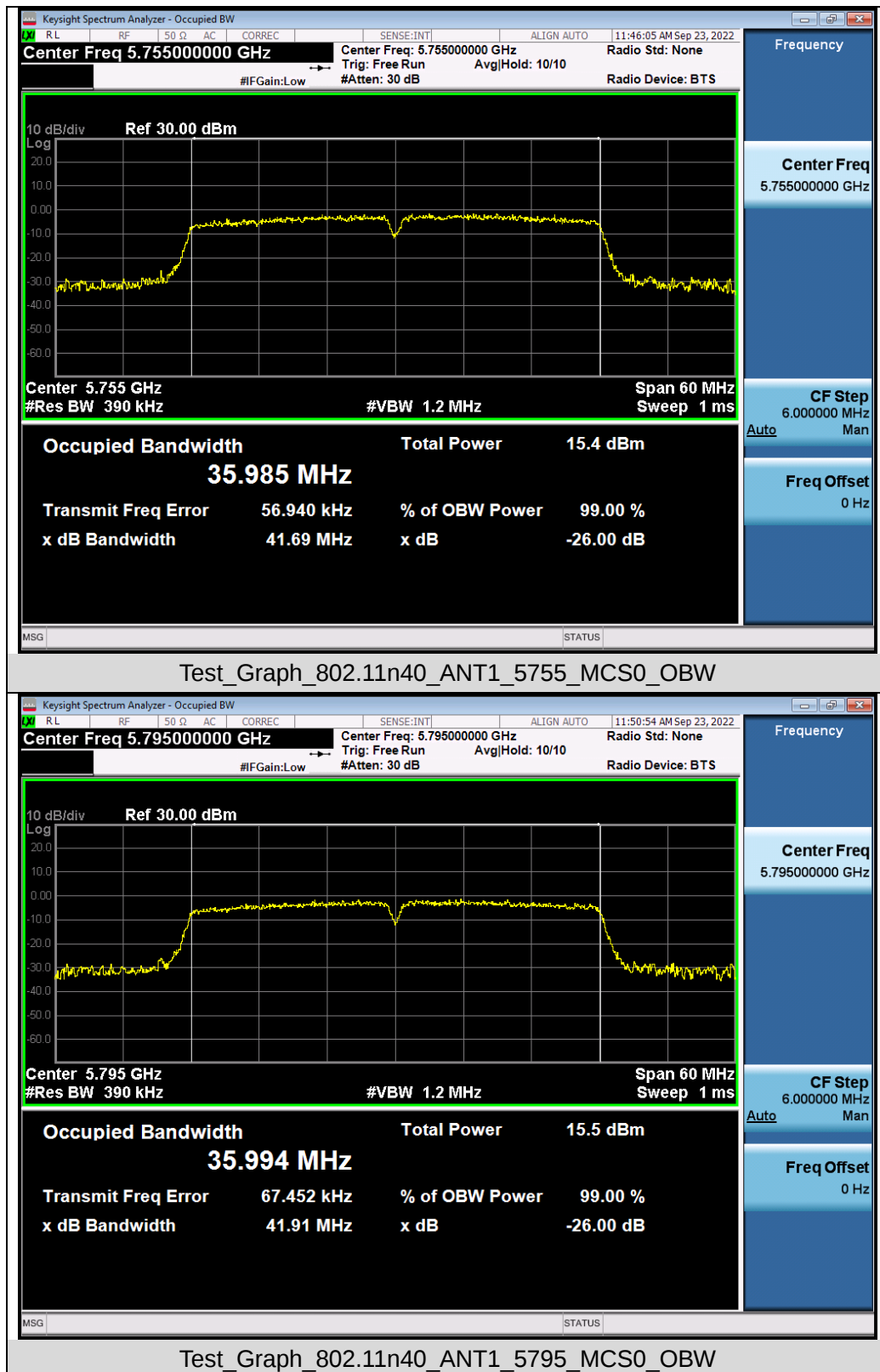
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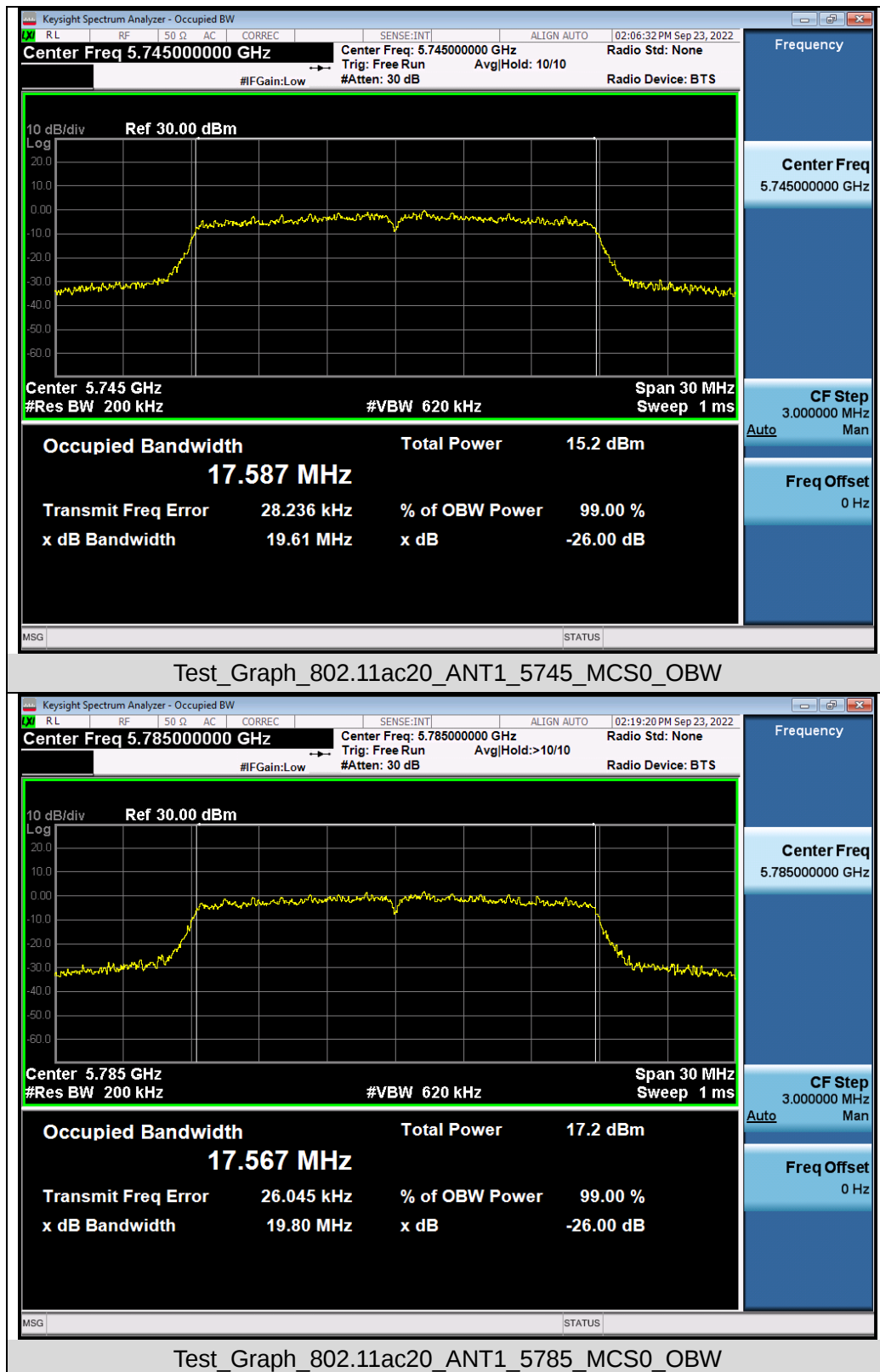
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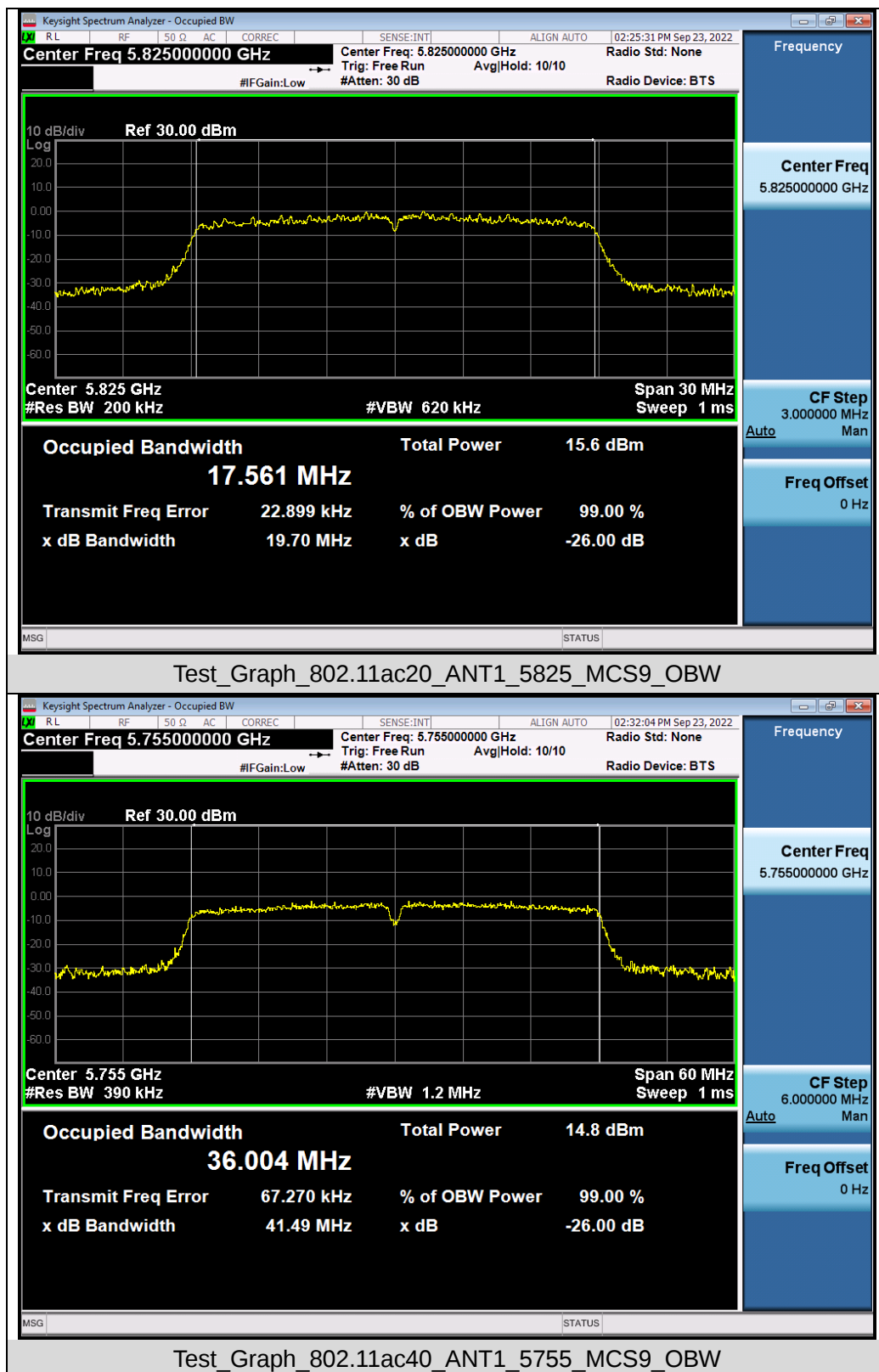
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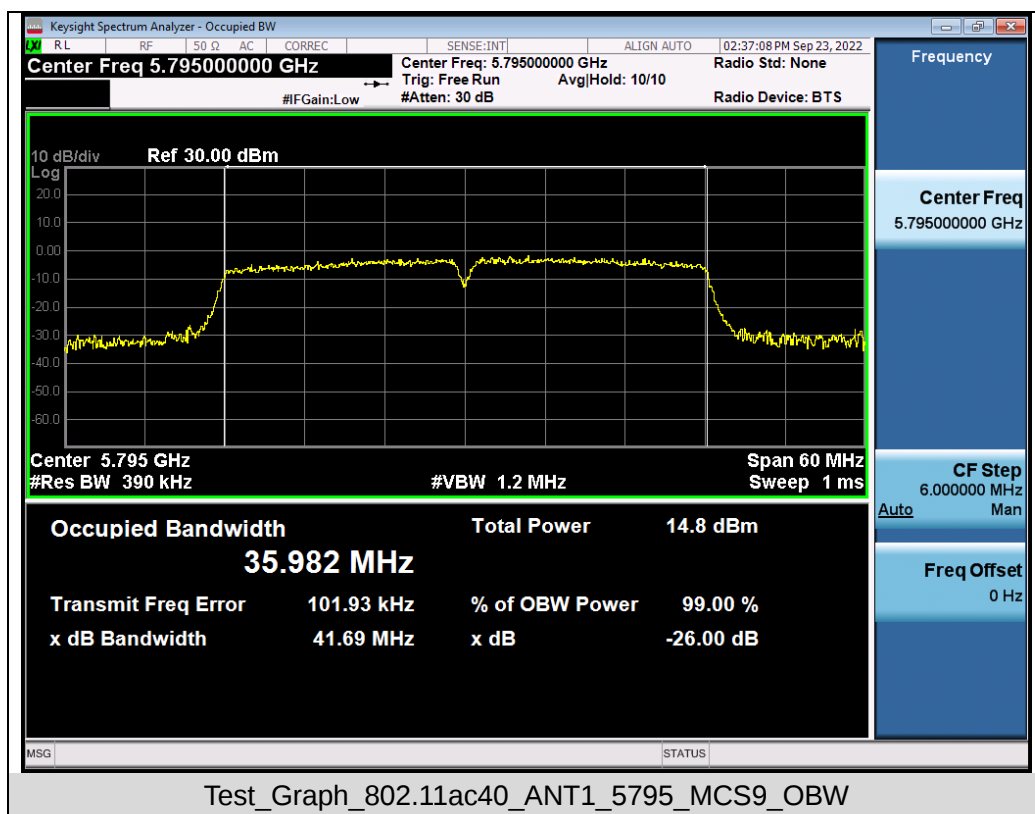
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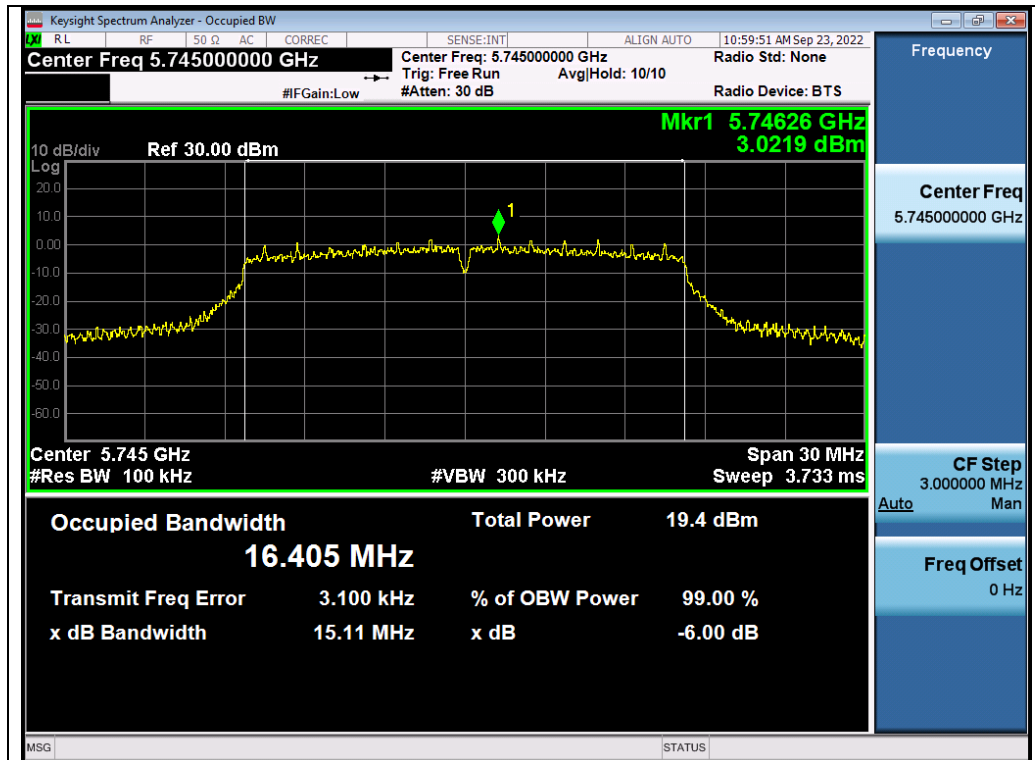
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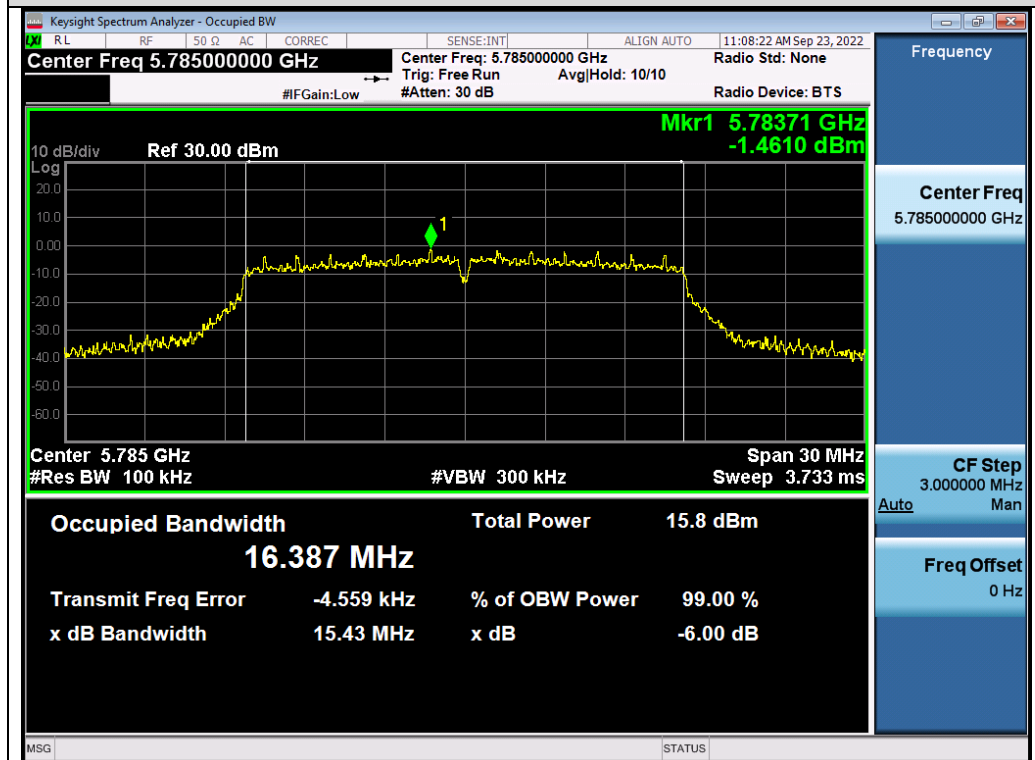
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### Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

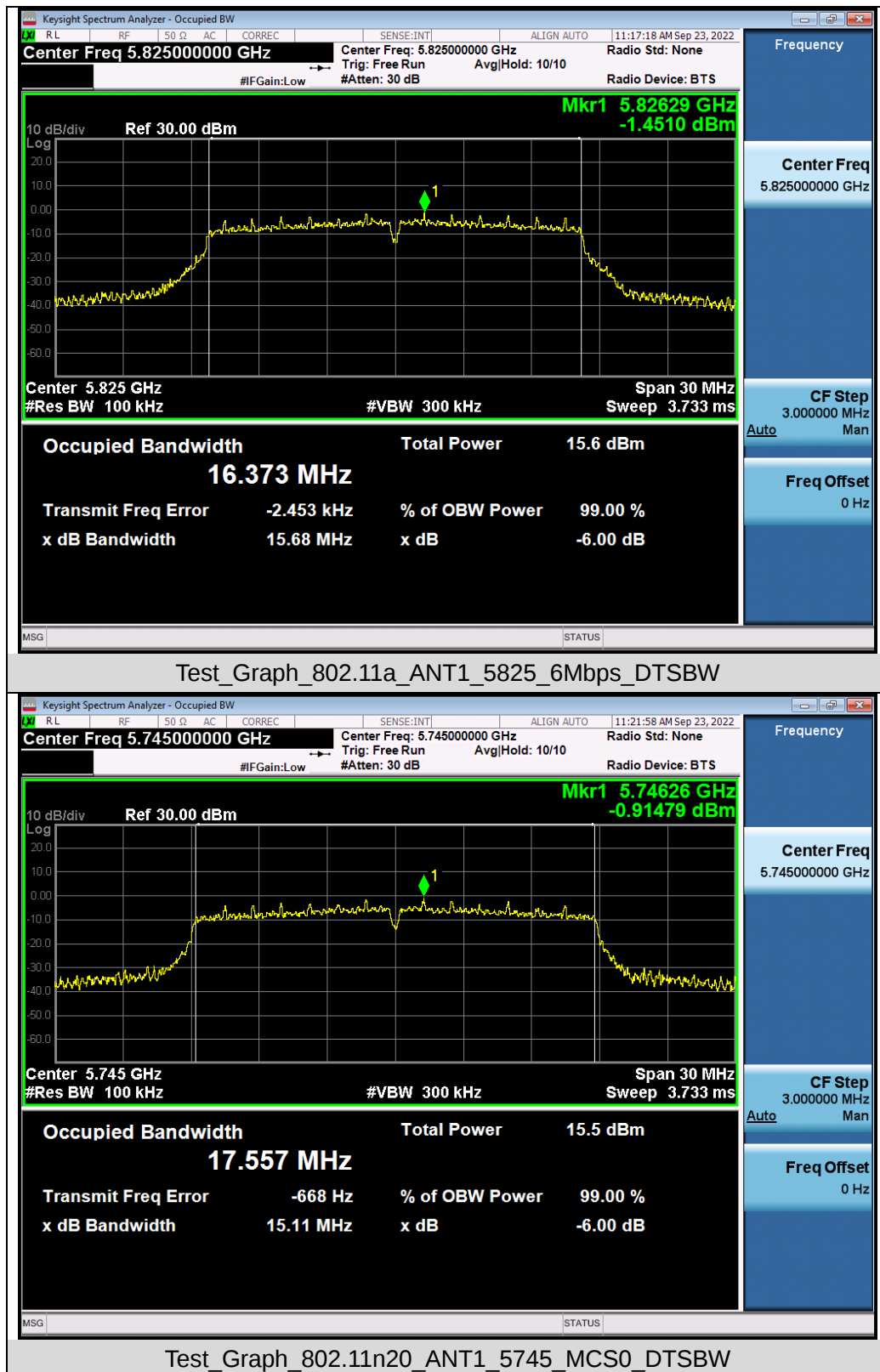


### Test\_Graph\_802.11a\_ANT1\_5745\_6Mbps\_DTSBW



### Test\_Graph\_802.11a\_ANT1\_5785\_6Mbps\_DTSBW

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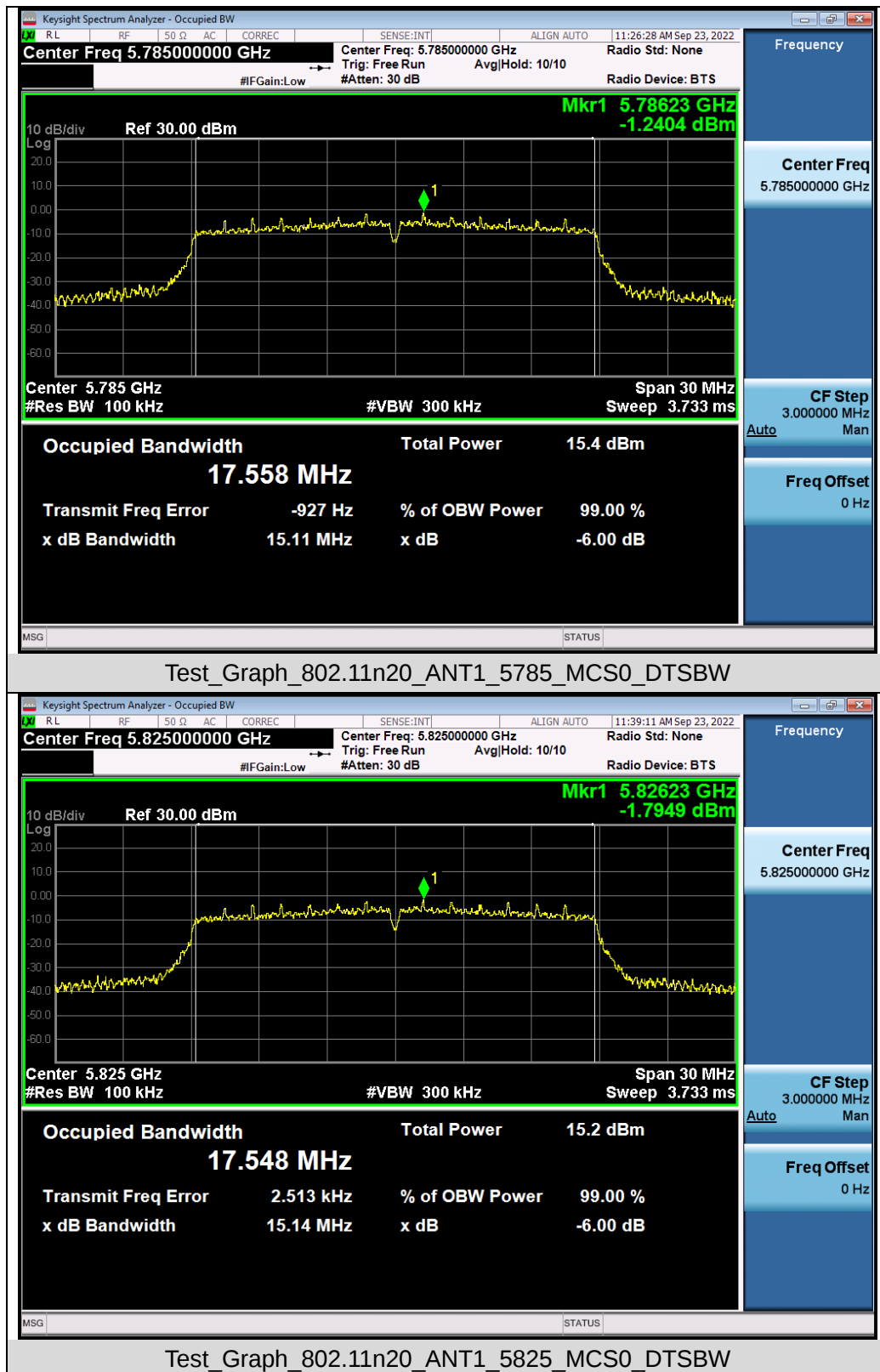


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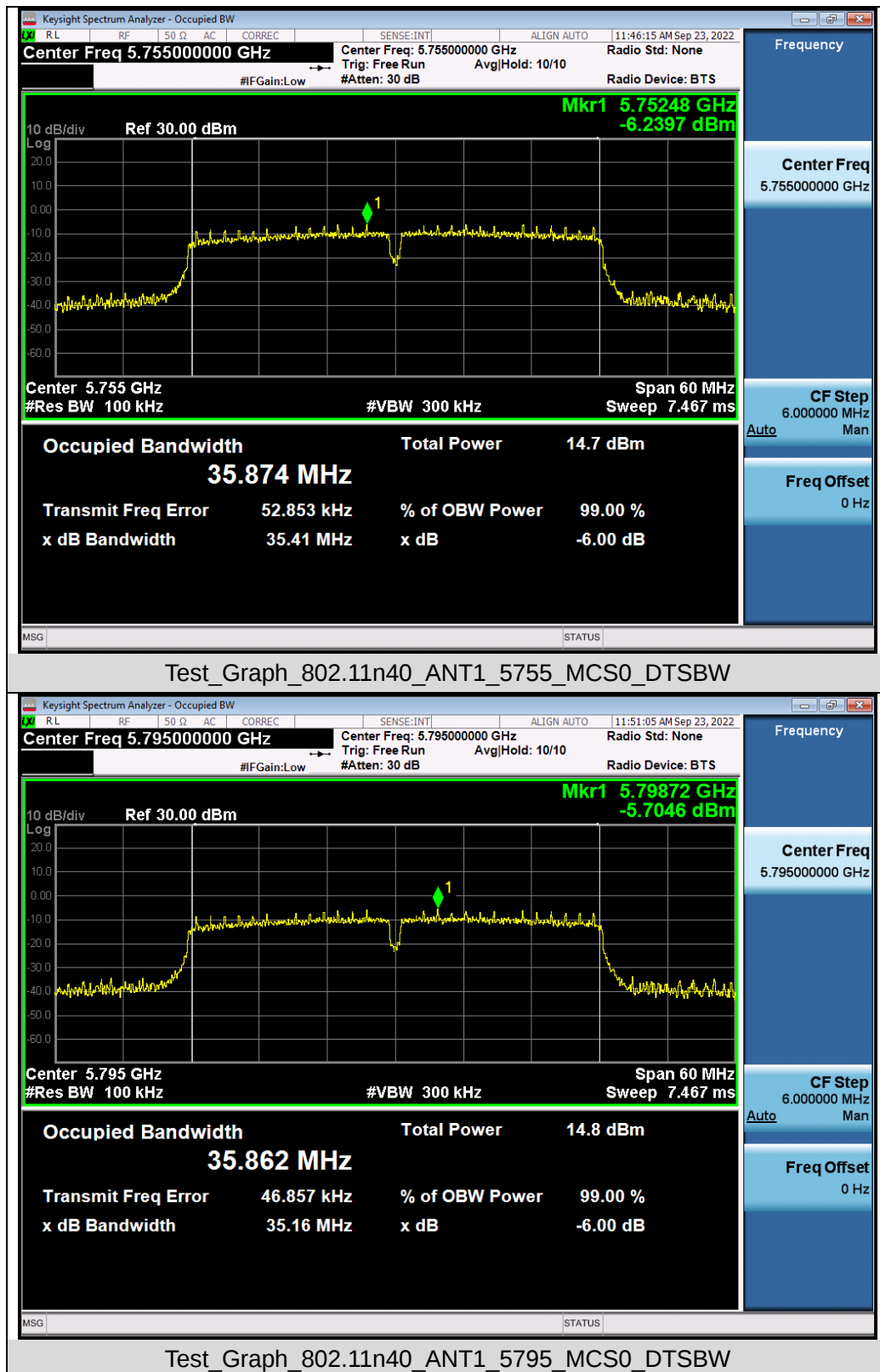
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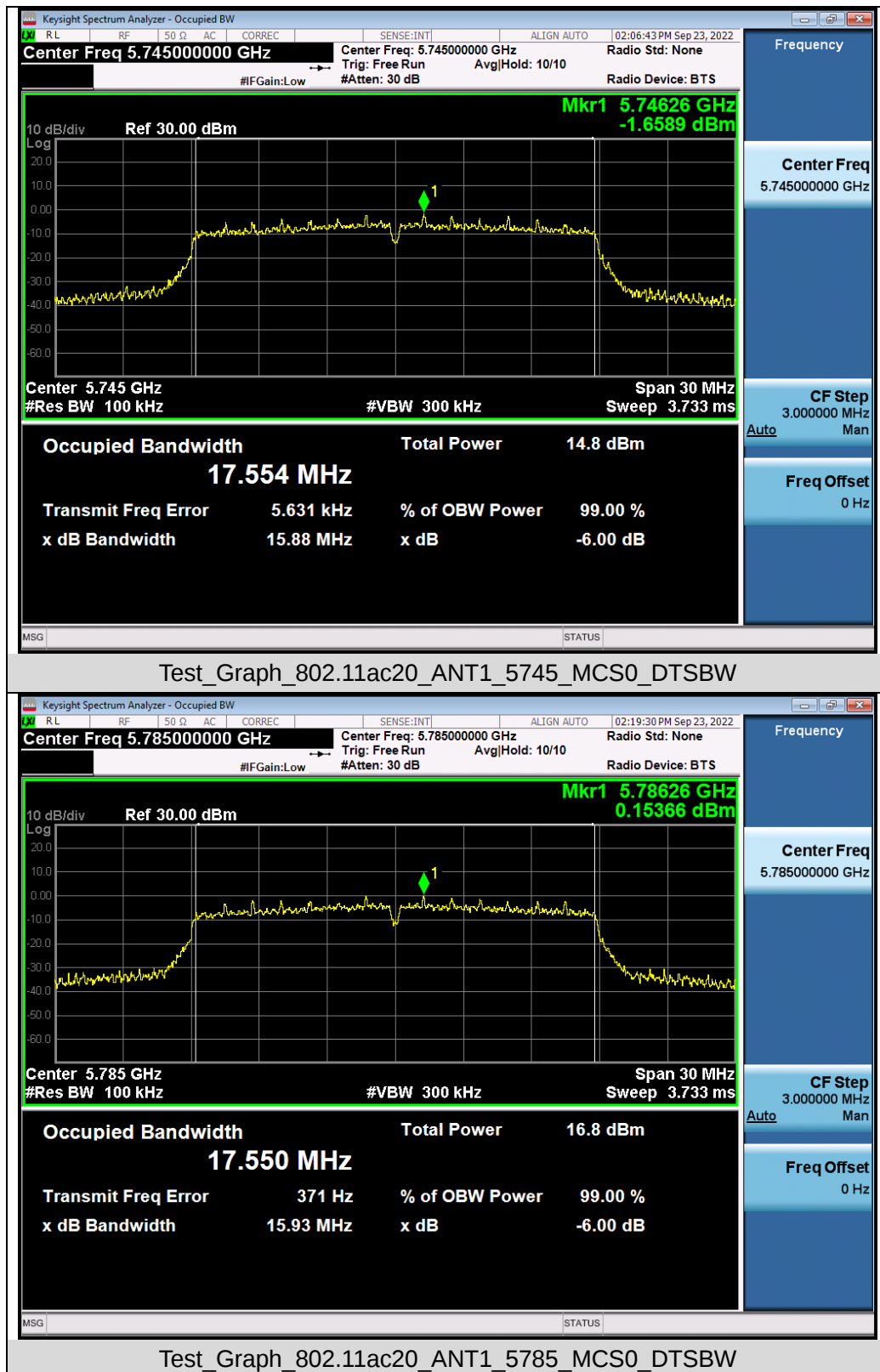


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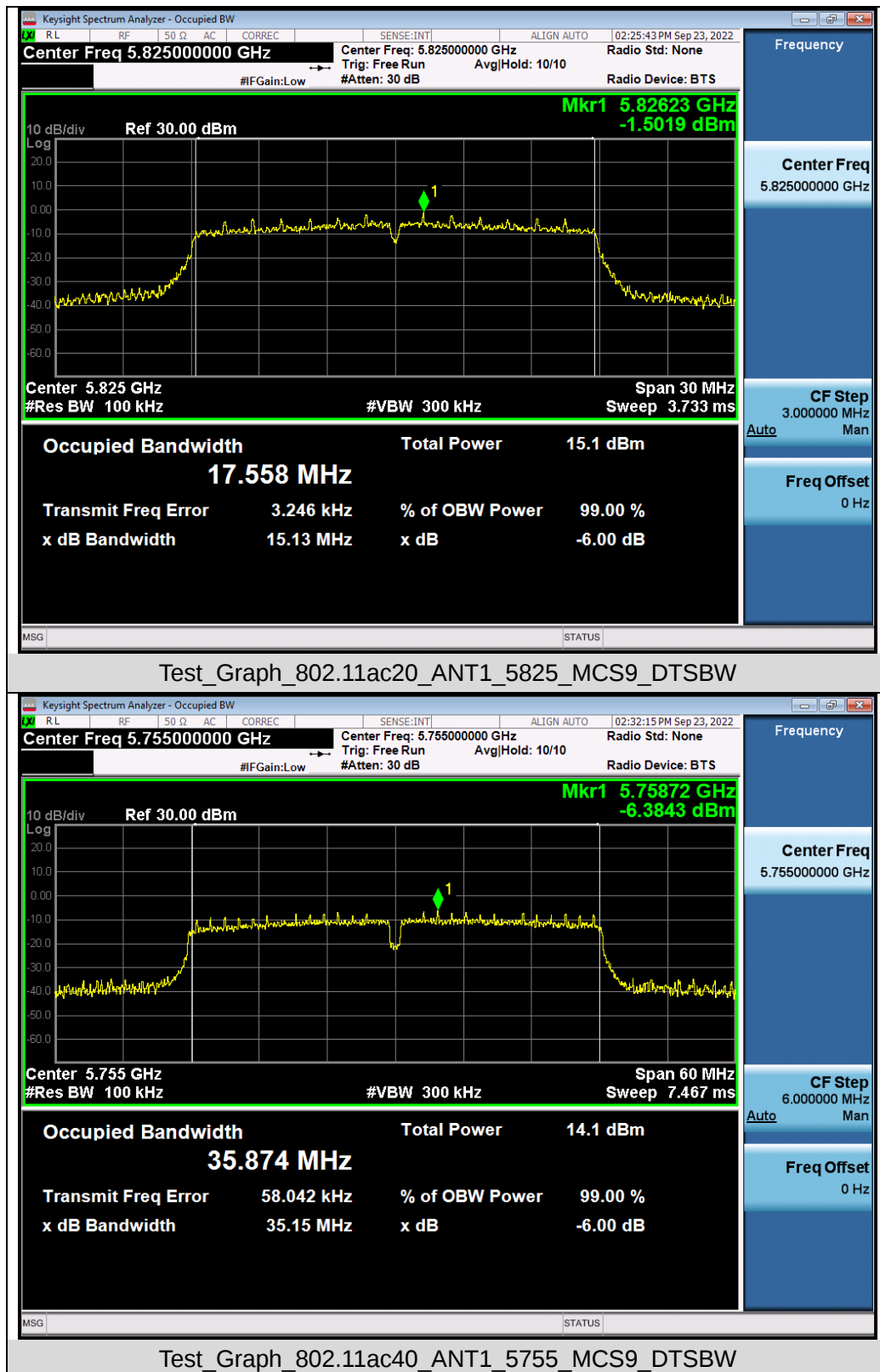
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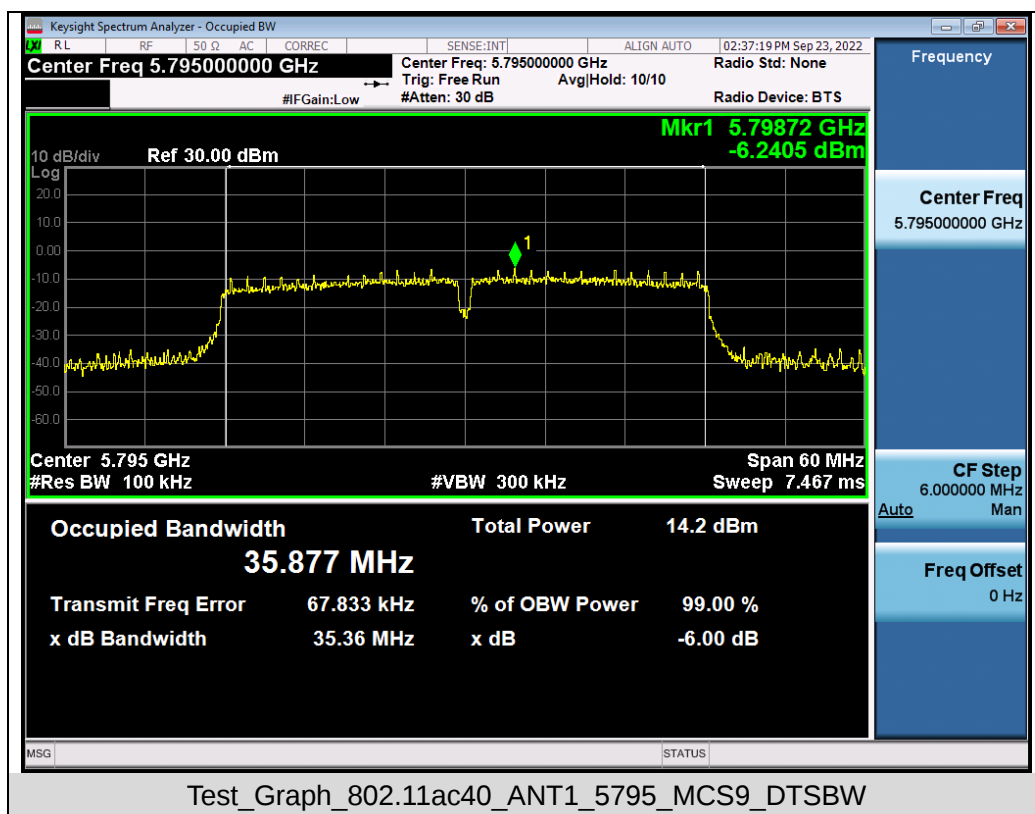
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## 9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

### 9.1 MEASUREMENT LIMITS

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 MHz band.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band.

For the 5.745–5.825 GHz bands, the maximum power spectral density shall not exceed 30 dBm in any 500kHz band.

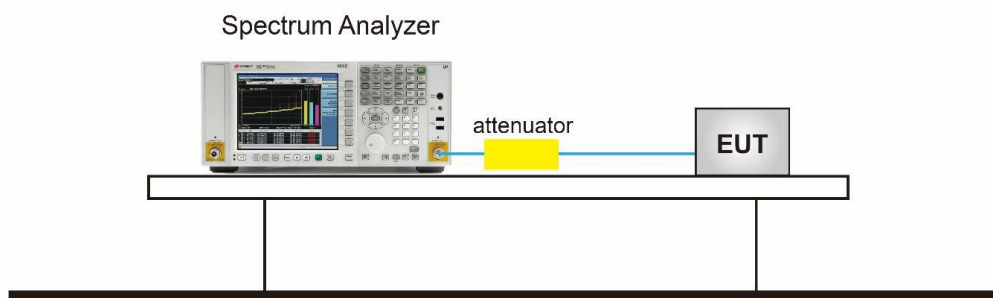
For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 9.2 MEASUREMENT PROCEDURE

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz, RBW = 510KHz
4. VBW  $\geq$  3RBW
5. Number of sweep points  $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average), Sweep time = auto
7. Trigger = free run
8. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
9. When the measurement bandwidth of Maximum PSD is specified in 500 kHz, add a constant factor  $10 \times \log(500\text{kHz}/510\text{kHz}) = -0.09 \text{ dB}$  to the measured result.

Note: The EUT was tested according to KDB 789033 section F for compliance to Part 15.407 requirements.

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



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#### 9.4. LIMITS AND MEASUREMENT RESULT

| Test Data of Conducted Output Power Density for band 5.15-5.25 GHz |                    |                                 |                  |              |
|--------------------------------------------------------------------|--------------------|---------------------------------|------------------|--------------|
| Test Mode                                                          | Test Channel (MHz) | Average Power Density (dBm/MHz) | Limits (dBm/MHz) | Pass or Fail |
| 802.11a                                                            | 5180               | 0.266                           | 11               | Pass         |
|                                                                    | 5200               | 0.068                           | 11               | Pass         |
|                                                                    | 5240               | 0.191                           | 11               | Pass         |
| 802.11n20                                                          | 5180               | -0.278                          | 11               | Pass         |
|                                                                    | 5200               | -0.290                          | 11               | Pass         |
|                                                                    | 5240               | -0.410                          | 11               | Pass         |
| 802.11n40                                                          | 5190               | -3.653                          | 11               | Pass         |
|                                                                    | 5230               | -3.549                          | 11               | Pass         |
| 802.11ac20                                                         | 5180               | -0.475                          | 11               | Pass         |
|                                                                    | 5200               | -0.914                          | 11               | Pass         |
|                                                                    | 5240               | -0.793                          | 11               | Pass         |
| 802.11ac40                                                         | 5190               | -4.016                          | 11               | Pass         |
|                                                                    | 5230               | -4.445                          | 11               | Pass         |

| Test Data of Conducted Output Power Density for band 5.25-5.35 GHz |                    |                                 |                  |              |
|--------------------------------------------------------------------|--------------------|---------------------------------|------------------|--------------|
| Test Mode                                                          | Test Channel (MHz) | Average Power Density (dBm/MHz) | Limits (dBm/MHz) | Pass or Fail |
| 802.11a                                                            | 5260               | -0.048                          | 11               | Pass         |
|                                                                    | 5300               | -0.220                          | 11               | Pass         |
|                                                                    | 5320               | -0.150                          | 11               | Pass         |
| 802.11n20                                                          | 5260               | -0.340                          | 11               | Pass         |
|                                                                    | 5300               | -0.176                          | 11               | Pass         |
|                                                                    | 5320               | -0.406                          | 11               | Pass         |
| 802.11n40                                                          | 5270               | -3.837                          | 11               | Pass         |
|                                                                    | 5310               | -4.169                          | 11               | Pass         |
| 802.11ac20                                                         | 5260               | -0.414                          | 11               | Pass         |
|                                                                    | 5300               | -0.517                          | 11               | Pass         |
|                                                                    | 5320               | -0.244                          | 11               | Pass         |
| 802.11ac40                                                         | 5270               | -4.062                          | 11               | Pass         |
|                                                                    | 5310               | -4.245                          | 11               | Pass         |

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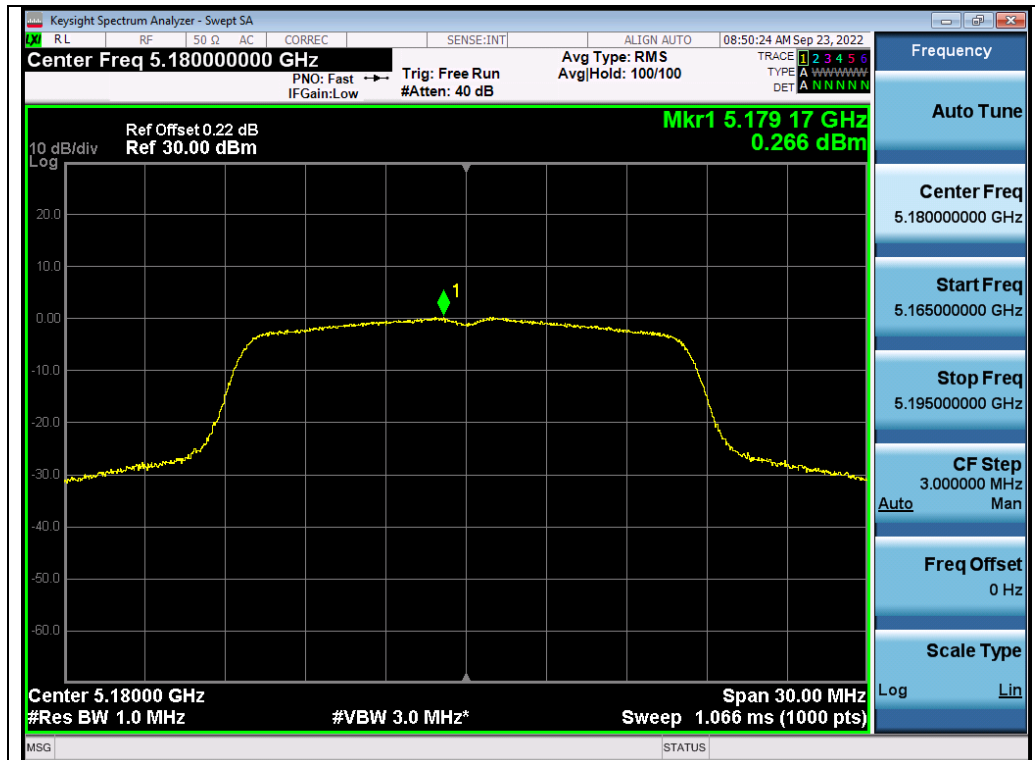
| Test Data of Conducted Output Power Density for band 5.725-5.85 GHz |                    |                                    |                                    |                     |              |
|---------------------------------------------------------------------|--------------------|------------------------------------|------------------------------------|---------------------|--------------|
| Test Mode                                                           | Test Channel (MHz) | Average Power Density (dBm/100kHz) | Average Power Density (dBm/500kHz) | Limits (dBm/500kHz) | Pass or Fail |
| 802.11a                                                             | 5745               | -8.894                             | -1.904                             | 30                  | Pass         |
|                                                                     | 5785               | -8.878                             | -1.888                             | 30                  | Pass         |
|                                                                     | 5825               | -9.113                             | -2.123                             | 30                  | Pass         |
| 802.11n20                                                           | 5745               | -9.450                             | -2.460                             | 30                  | Pass         |
|                                                                     | 5785               | -9.691                             | -2.701                             | 30                  | Pass         |
|                                                                     | 5825               | -9.244                             | -2.254                             | 30                  | Pass         |
| 802.11n40                                                           | 5755               | -13.141                            | -6.151                             | 30                  | Pass         |
|                                                                     | 5795               | -13.154                            | -6.164                             | 30                  | Pass         |
| 802.11ac20                                                          | 5745               | -9.700                             | -2.710                             | 30                  | Pass         |
|                                                                     | 5785               | -9.892                             | -2.902                             | 30                  | Pass         |
|                                                                     | 5825               | -9.749                             | -2.759                             | 30                  | Pass         |
| 802.11ac40                                                          | 5755               | -13.677                            | -6.687                             | 30                  | Pass         |
|                                                                     | 5795               | -13.556                            | -6.566                             | 30                  | Pass         |

**Note:** Power density(dBm/500kHz) = Power density(dBm/100kHz) +10\*log(500/100).

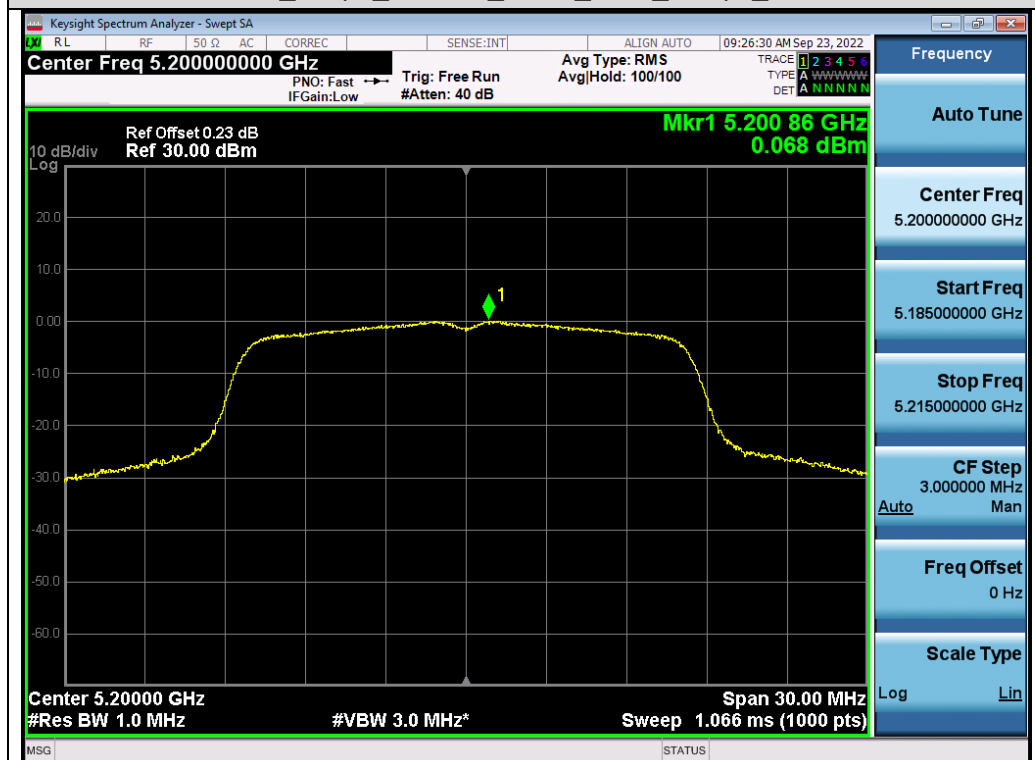
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### Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz

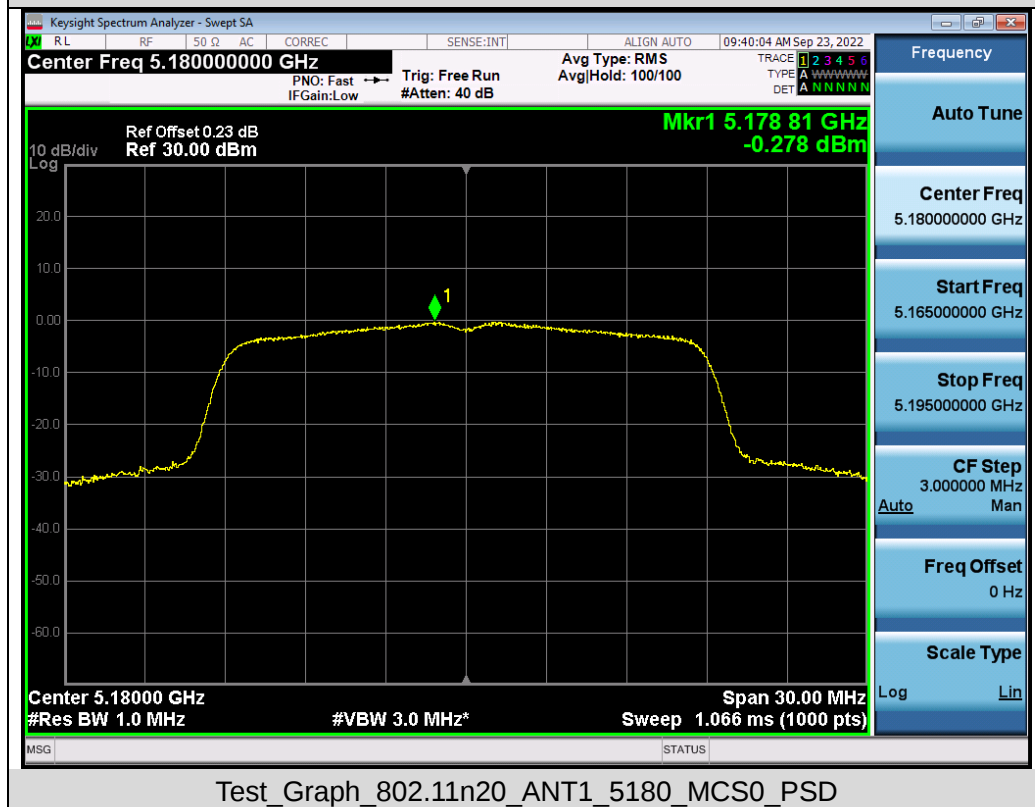


Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_PSD



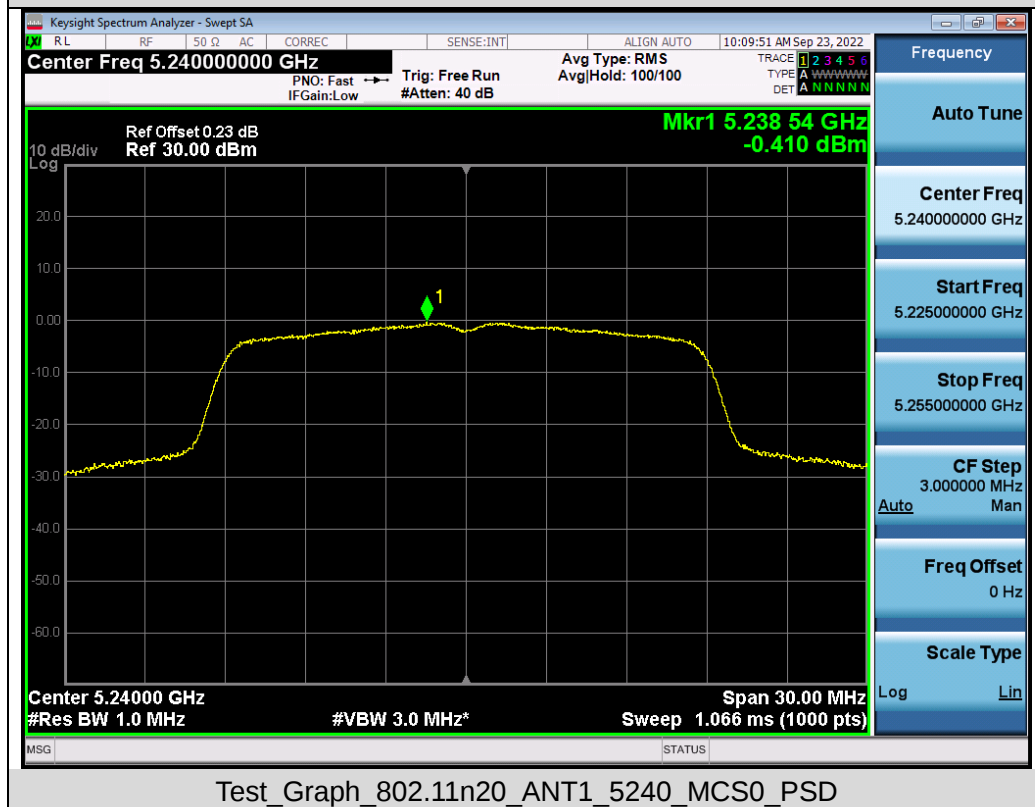
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Test\_Graph\_802.11n40\_ANT1\_5190\_MCS0\_PSD

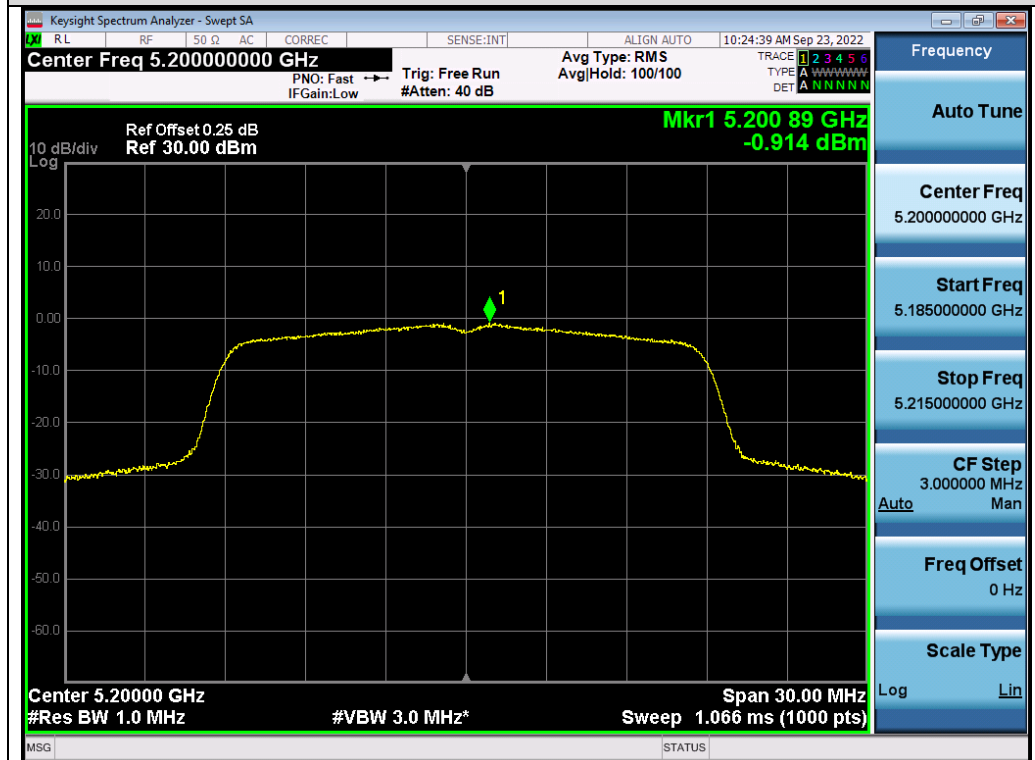


Test\_Graph\_802.11n40\_ANT1\_5230\_MCS0\_PSD

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Test\_Graph\_802.11ac20\_ANT1\_5180\_MCS0\_PSD

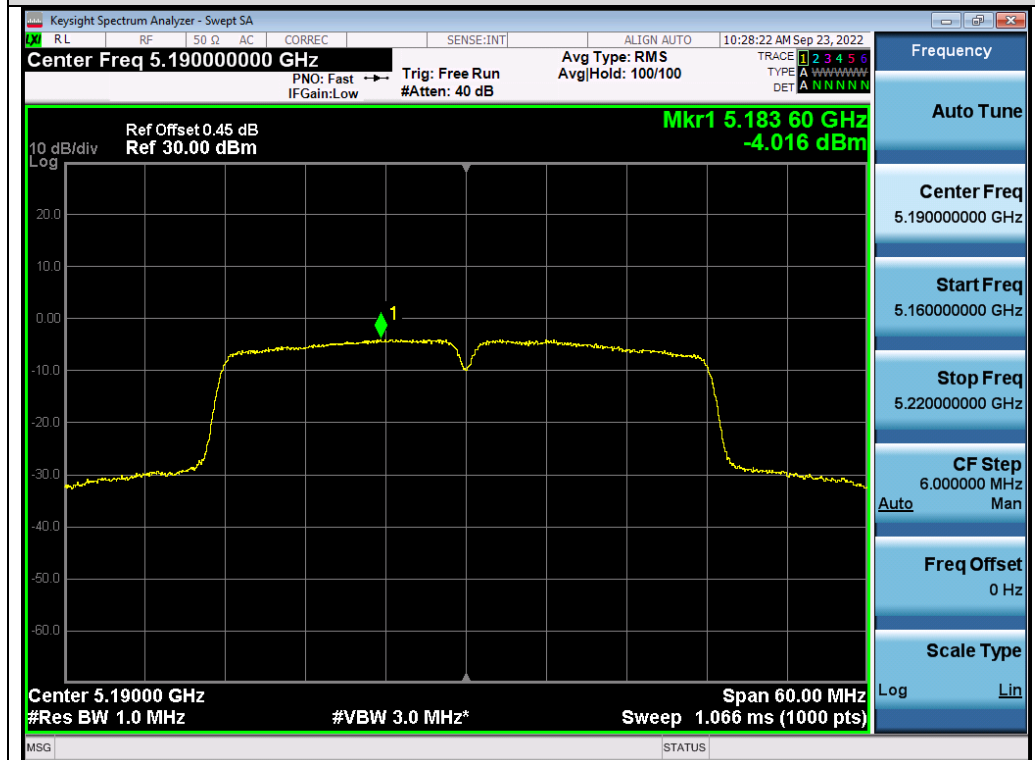


Test\_Graph\_802.11ac20\_ANT1\_5200\_MCS0\_PSD

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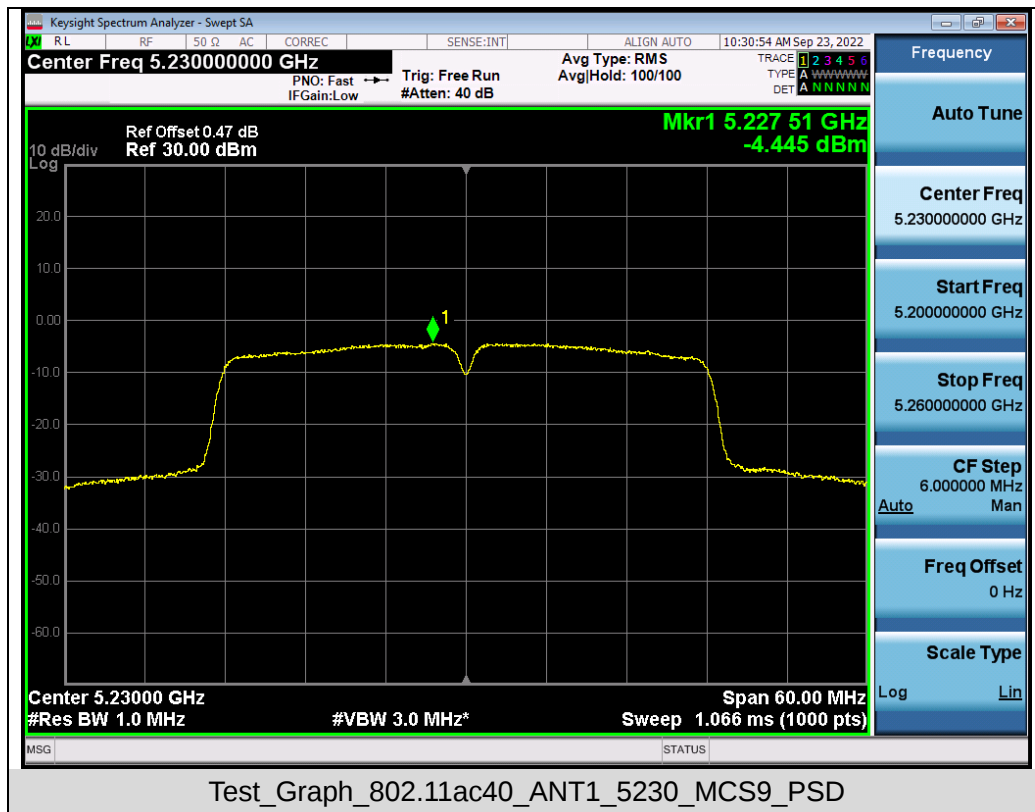


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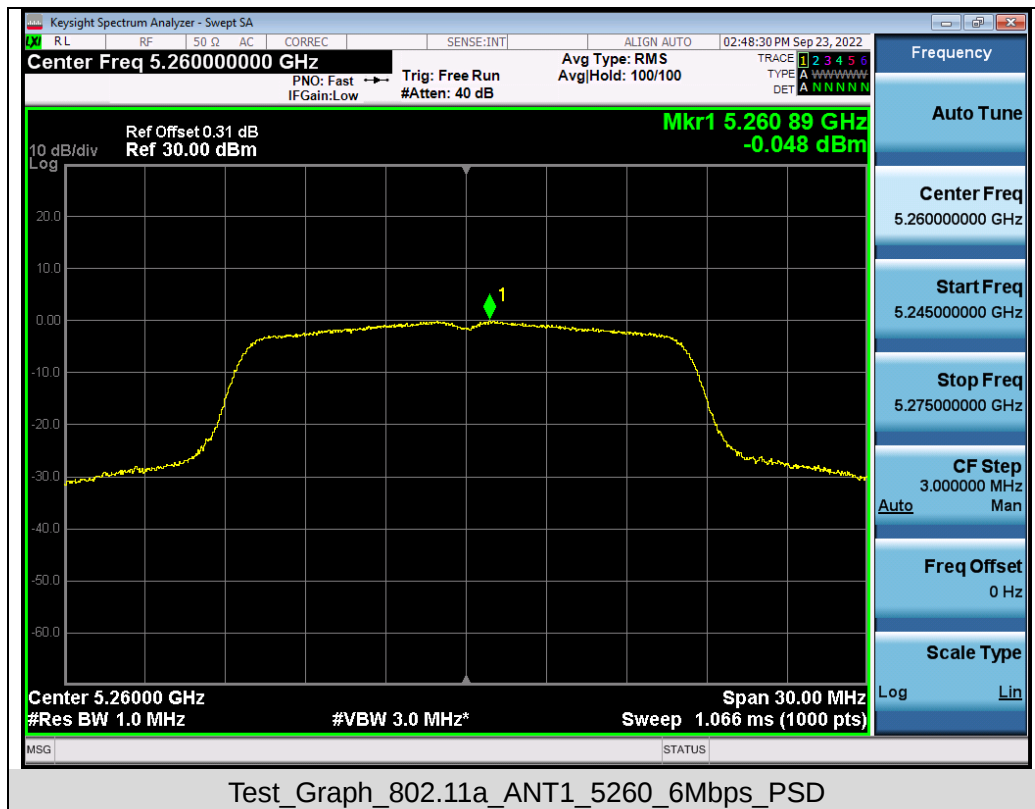


Test\_Graph\_802.11ac40\_ANT1\_5190\_MCS9\_PSD

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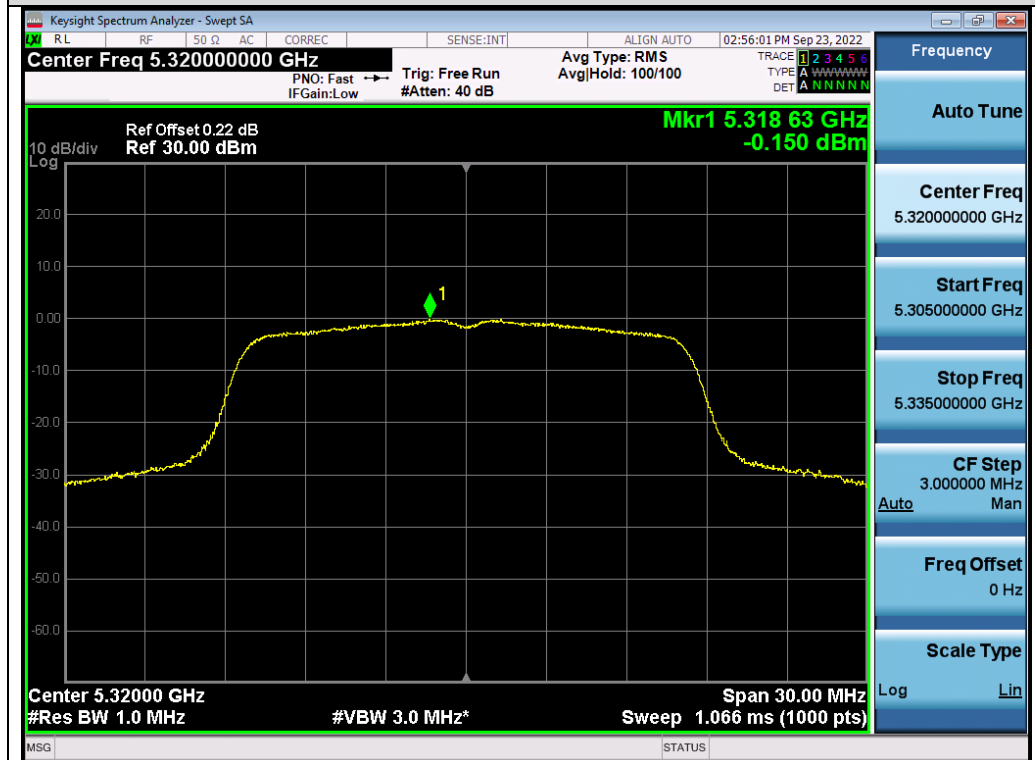
### Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz



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Test\_Graph\_802.11a\_ANT1\_5300\_6Mbps\_PSD

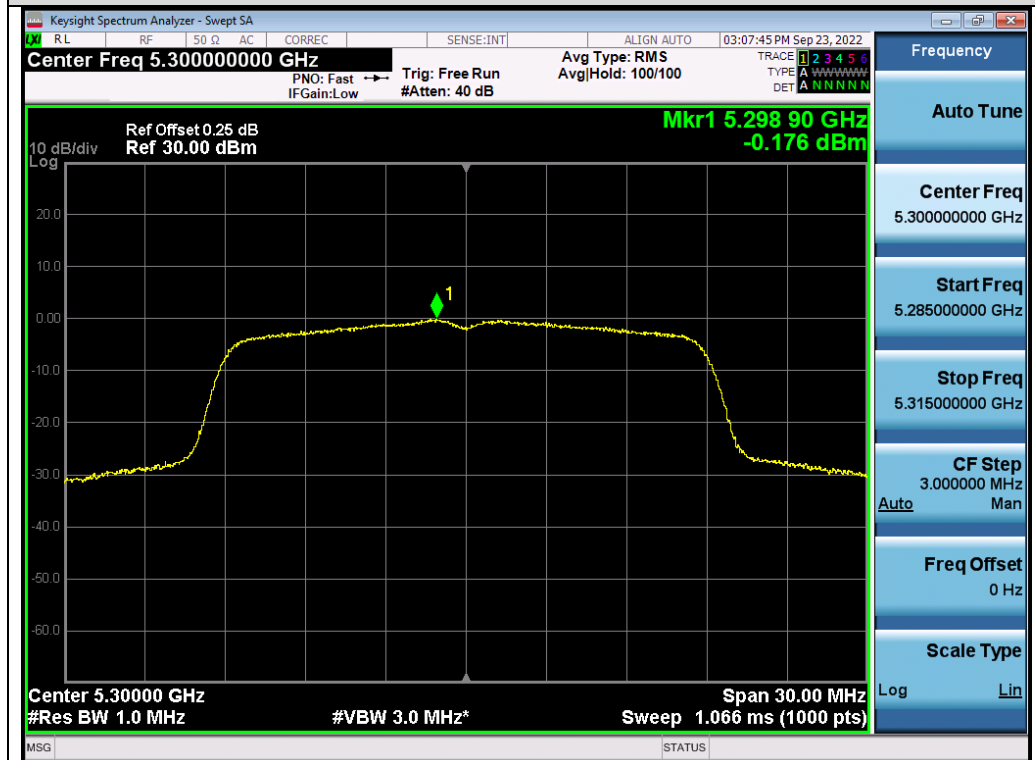


Test\_Graph\_802.11a\_ANT1\_5320\_6Mbps\_PSD

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Test\_Graph\_802.11n20\_ANT1\_5260\_MCS0\_PSD

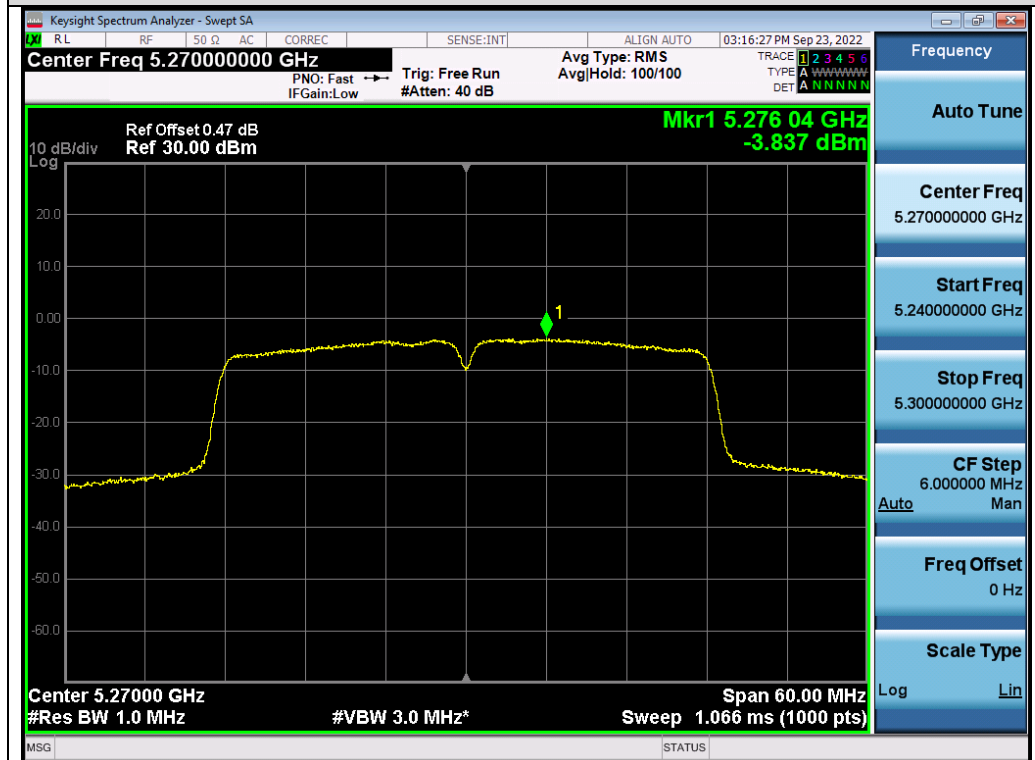


Test\_Graph\_802.11n20\_ANT1\_5300\_MCS0\_PSD

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Test\_Graph\_802.11n20\_ANT1\_5320\_MCS0\_PSD

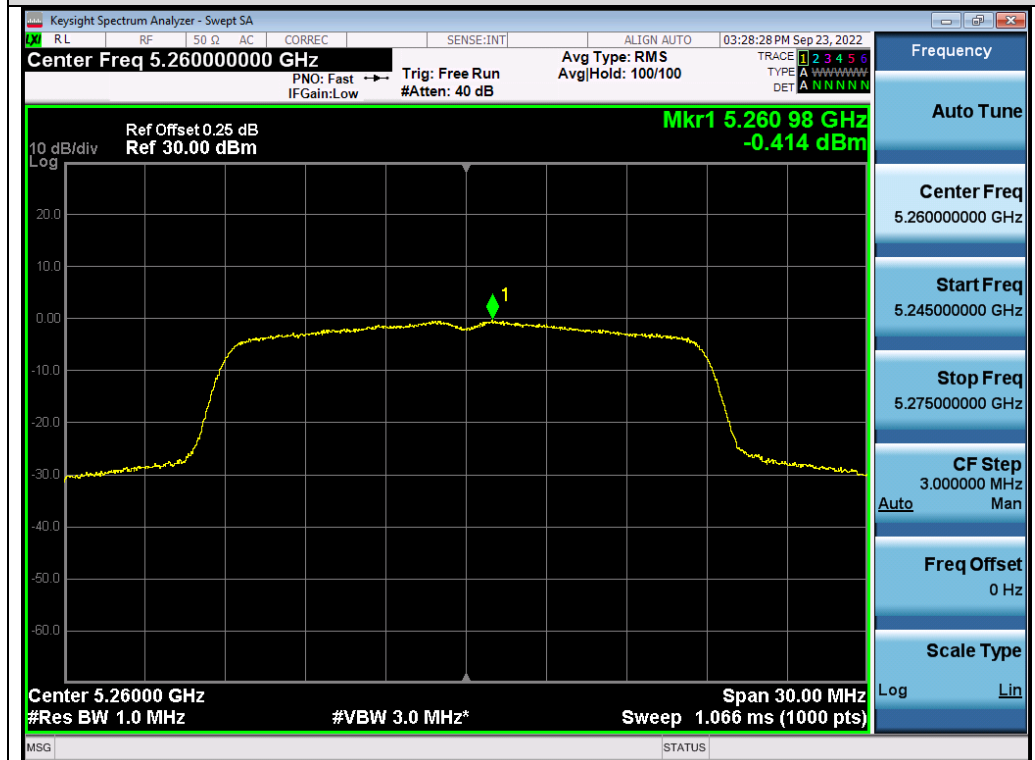


Test\_Graph\_802.11n40\_ANT1\_5270\_MCS0\_PSD

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Test\_Graph\_802.11n40\_ANT1\_5310\_MCS0\_PSD

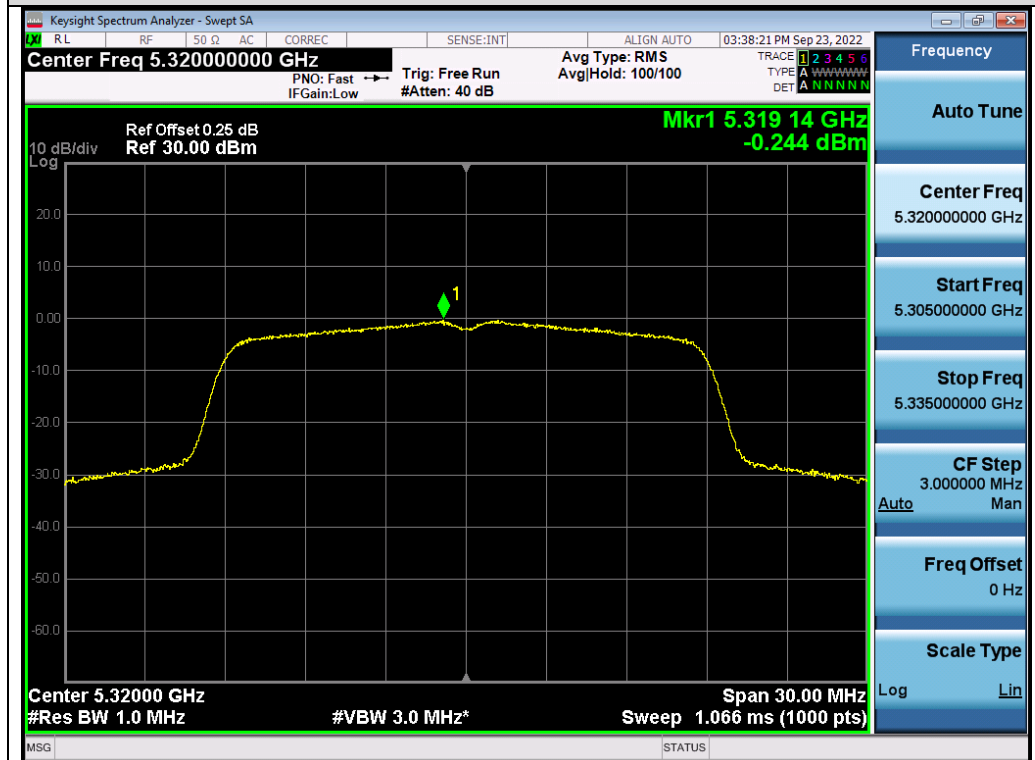


Test\_Graph\_802.11ac20\_ANT1\_5260\_MCS0\_PSD

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Test\_Graph\_802.11ac20\_ANT1\_5300\_MCS0\_PSD

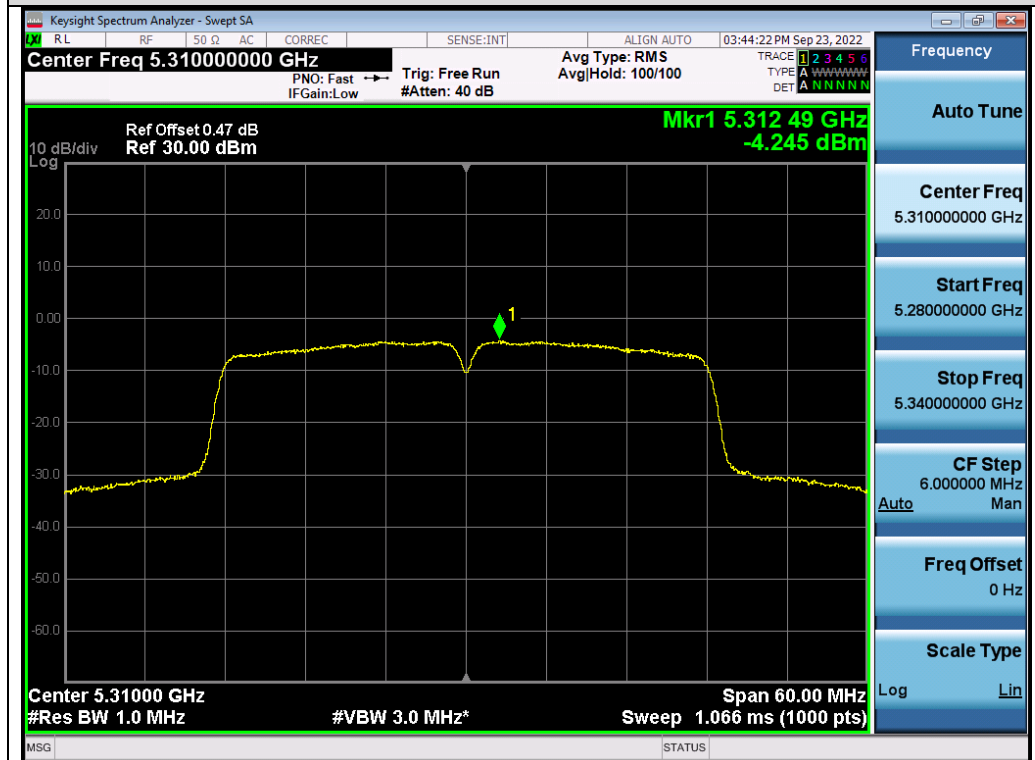


Test\_Graph\_802.11ac20\_ANT1\_5320\_MCS9\_PSD

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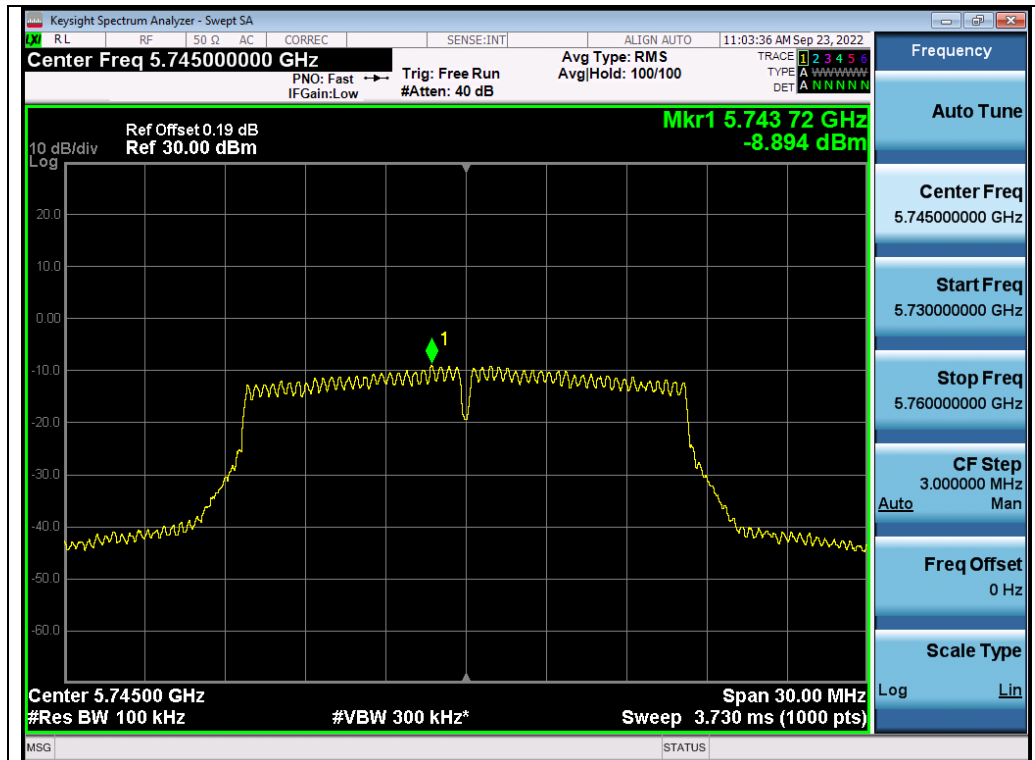
Test\_Graph\_802.11ac40\_ANT1\_5270\_MCS9\_PSD



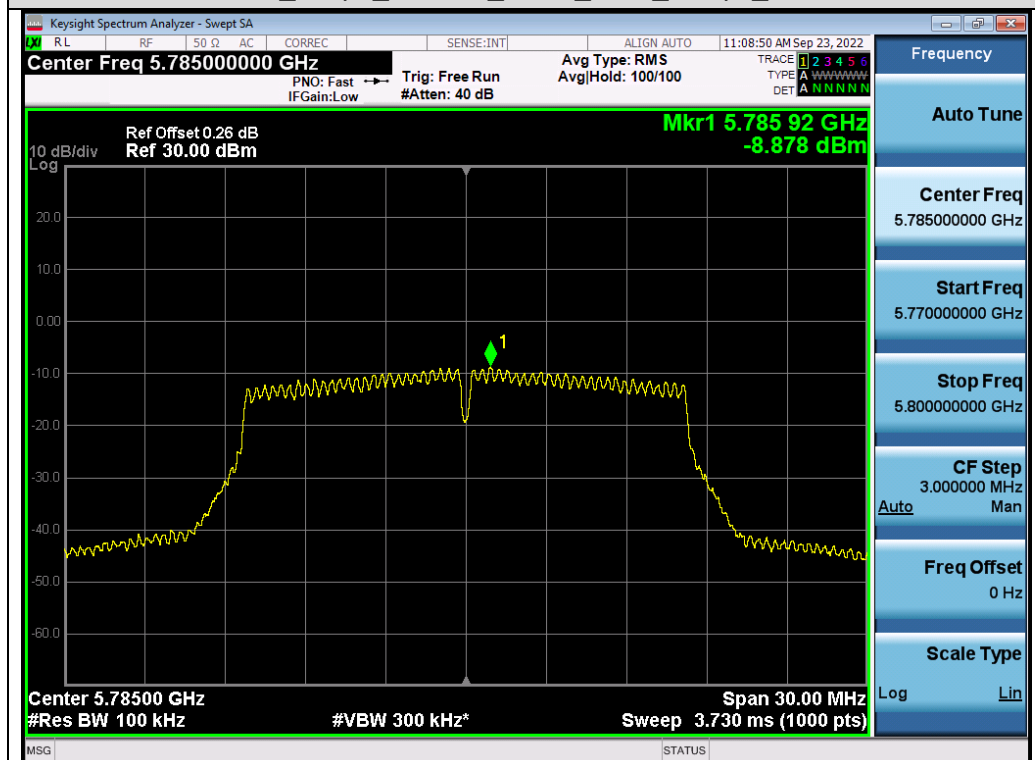
Test\_Graph\_802.11ac40\_ANT1\_5310\_MCS9\_PSD

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### Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



Test\_Graph\_802.11a\_ANT1\_5745\_6Mbps\_PSD



Test\_Graph\_802.11a\_ANT1\_5785\_6Mbps\_PSD

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