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# FCC Test Report

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Report No.: AGC11034220106FE06

**FCC ID** : 2AYHE-2201E  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : WiFi IP Camera  
**BRAND NAME** : Reolink  
**MODEL NAME** : RLC-542WA  
**APPLICANT** : Reolink Innovation Limited  
**DATE OF ISSUE** : Mar. 14, 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	/	Mar. 14, 2022	Valid	Initial Release

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## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	Reolink Innovation Limited
<b>Address</b>	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
<b>Manufacturer</b>	Reolink Innovation Limited
<b>Address</b>	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
<b>Factory</b>	Shenzhen Reolink Technology Co., Ltd.
<b>Address</b>	2-4th Floor, Building 2, YuanLing Industrial Park, ShangWu, Shiyan Street, Bao'an District, Shenzhen, China
<b>Product Designation</b>	WiFi IP Camera
<b>Brand Name</b>	Reolink
<b>Test Model</b>	RLC-542WA
<b>Date of test</b>	Feb. 17, 2022 to Mar. 14, 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		
	Cool Cheng (Project Engineer)	Mar. 14, 2022
Reviewed By		
	Calvin Liu (Reviewer)	Mar. 14, 2022
Approved By		
	Max Zhang (Authorized Officer)	Mar. 14, 2022

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as “WiFi IP Camera”. 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 <input type="checkbox"/> Fixed P2P access points	<input type="checkbox"/> Indoor 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 2C:5470MHz~5725MHz	<input checked="" type="checkbox"/> U-NII 2A: 5250MHz~5350MHz <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/ac-HT20-VHT20: 5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 5745~5825MHz For 802.11n/ac-HT40: 5190~5230MHz, 5270~5310MHz, 5510~5670MHz, 5755~5795MHz For 802.11ac-HT80: 5210MHz, 5290MHz, 5530MHz, 5610MHz, 5775MHz	
<b>Output Power</b>	IEEE 802.11a:16.21dBm; IEEE 802.11n-HT20:14.94dBm; IEEE 802.11n-HT40:14.36dBm; IEEE 802.11ac-VHT20:13.85dBm; IEEE 802.11ac-VHT40:13.64dBm; IEEE 802.11ac-VHT80:13.61dBm	
<b>Output Power_MIMO</b>	IEEE 802.11n(20):17.51dBm; IEEE802.11n(40):16.70dBm IEEE 802.11ac(20):16.38dBm; IEEE802.11ac(40):16.43dBm; IEEE802.11ac(80):15.32dBm	
<b>Modulation</b>	802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM	
<b>Data Rate</b>	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 400Mbps	
<b>Number of channels</b>	7 channels of U-NII-1 Band 7 channels of U-NII-2A Band 21 channels of U-NII-2C Band 8 channels of U-NII-3 Band	
<b>Hardware Version</b>	N25C11	
<b>Software Version</b>	710_22011364	
<b>Antenna Designation</b>	External antenna (Comply with requirements of the FCC part 15.203)	
<b>Number of transmit chain</b>	2(802.a/11n/ac all used two antennas, but 802.11a support SISO and 802.11n/ac support MIMO)	
<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):

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

1 channel is provided for 802.11ac (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	--	--

**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 channels 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):**

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

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

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: 2AYHE-2201E** 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.

## 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 External Antenna List (5GHz 2*2 MIMO)						
External Antenna	5150 ~ 5250	2	20,40,80	3	3	6.01
	5250 ~ 5350	2	20,40,80	3	3	6.01
	5470 ~ 5725	2	20,40,80	3	3	6.01
	5725 ~ 5850	2	20,40,80	3	3	6.01

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11n/ac 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 =  $G_{ANT}$  + 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 802.11 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. 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	$U_c = \pm 2 \%$

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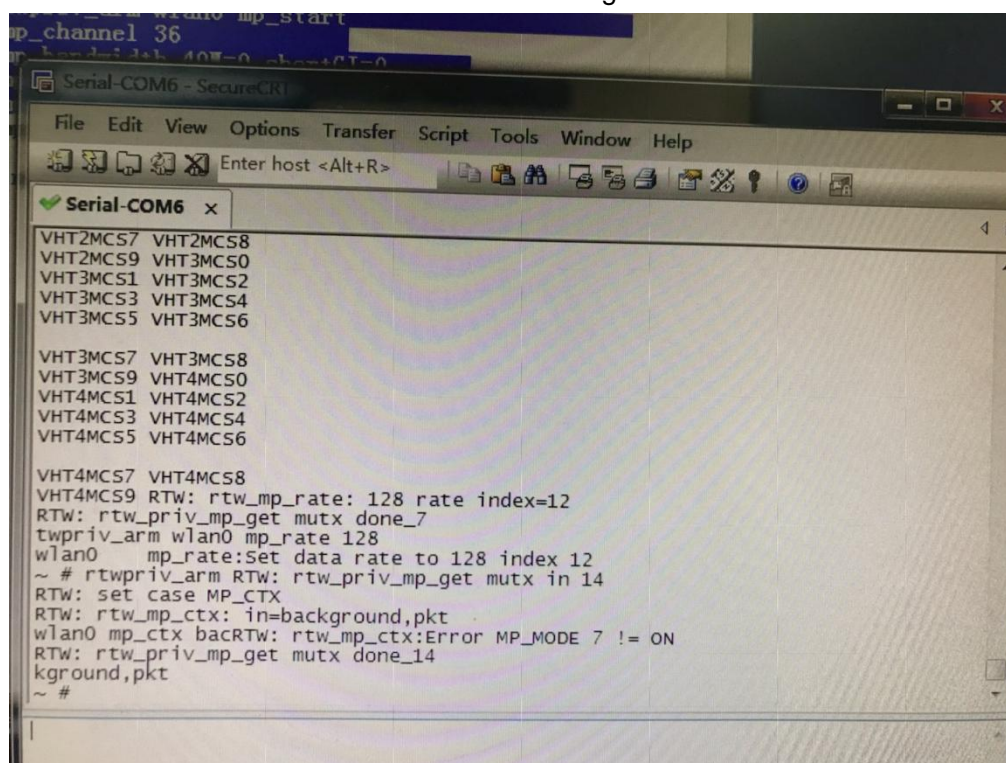
#### 4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate (Mbps)
802.11a/n/ac20	36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 149, 153, 157, 161, 165	36, 40, 48, 52, 60, 64, 100, 120, 140, 149, 157, 165	OFDM	6Mbps/MCS0
802.11n/ac40	38, 46, 54, 62, 102, 110, 118, 126, 134, 151, 159;	38, 46, 54, 62, 102, 118, 134, 151, 159	OFDM	MCS0
802.11ac80	42, 58, 106, 122, 155	42, 58, 106, 122, 155	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.

#### Software Setting



```

VHT2MCS7 VHT2MCS8
VHT2MCS9 VHT3MCS0
VHT3MCS1 VHT3MCS2
VHT3MCS3 VHT3MCS4
VHT3MCS5 VHT3MCS6

VHT3MCS7 VHT3MCS8
VHT3MCS9 VHT4MCS0
VHT4MCS1 VHT4MCS2
VHT4MCS3 VHT4MCS4
VHT4MCS5 VHT4MCS6

VHT4MCS7 VHT4MCS8
VHT4MCS9 RTW: rtw_mp_rate: 128 rate index=12
RTW: rtw_priv_mp_get mutx done_7
twpriv_arm wlan0 mp_rate 128
wlan0 mp_rate:Set data rate to 128 index 12
~ # rtwpriv_arm RTW: rtw_priv_mp_get mutx in 14
RTW: set case MP_CTX
RTW: rtw_mp_ctx: in=background,pkt
wlan0 mp_ctx bacRTW: rtw_mp_ctx:Error MP_MODE 7 != ON
RTW: rtw_priv_mp_get mutx done_14
kground,pkt
~ #
  
```

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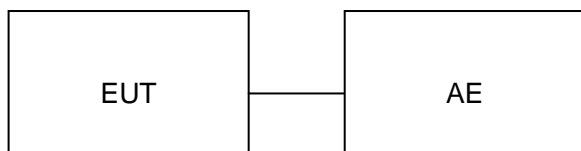
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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	WiFi IP Camera	RLC-542WA	2AYHE-2201E	EUT
2	Adapter	DCT12W120100US-B0	Input:100-240V, 50/60Hz, 0.3A Output:12.0V, 1.0A	AE

### 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	May 15, 2021	May 14, 2022
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
Test software	R&S	ES-K1 (Ver V1.71)	N/A	N/A	N/A

### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2021	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
Power sensor	Aglient	U2021XA	MY54110007	Jun. 06, 2021	Jun. 05, 2022
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2022
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2020	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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## 7. MAXIMUM CONDUCTED OUTPUT POWER

### 7.1. MEASUREMENT PROCEDURE

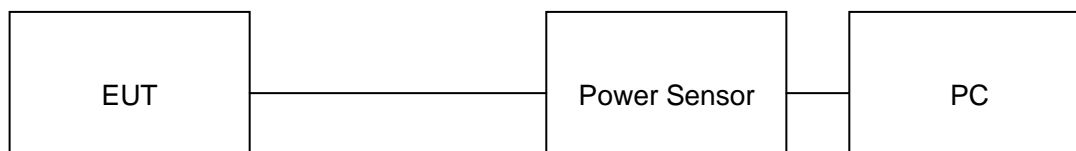
For average power test:

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

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

### 7.2. TEST SET-UP

#### AVERAGE POWER SETUP





### 7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power for band 5.15-5.25 GHz-antenna 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	14.63	24	Pass
	5200	14.40	24	Pass
	5240	15.54	24	Pass
802.11n20	5180	13.16	24	Pass
	5200	13.31	24	Pass
	5240	14.00	24	Pass
802.11n40	5190	12.63	24	Pass
	5230	12.91	24	Pass
802.11ac20	5180	11.55	24	Pass
	5200	11.99	24	Pass
	5240	12.37	24	Pass
802.11ac40	5190	11.65	24	Pass
	5230	12.55	24	Pass
802.11ac80	5210	10.06	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz-antenna 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	13.76	24	Pass
	5200	14.06	24	Pass
	5240	14.18	24	Pass
802.11n20	5180	14.44	24	Pass
	5200	14.51	24	Pass
	5240	14.94	24	Pass
802.11n40	5190	14.36	24	Pass
	5230	13.05	24	Pass
802.11ac20	5180	11.29	24	Pass
	5200	11.68	24	Pass
	5240	10.38	24	Pass
802.11ac40	5190	11.56	24	Pass
	5230	11.16	24	Pass
802.11ac80	5210	11.79	24	Pass

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Test Data of Conducted Output Power for band 5.15-5.25 GHz-antenna 1+2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5180	16.86	24	Pass
	5200	16.96	24	Pass
	5240	17.51	24	Pass
802.11n40	5190	16.59	24	Pass
	5230	15.99	24	Pass
802.11ac20	5180	14.43	24	Pass
	5200	14.85	24	Pass
	5240	14.50	24	Pass
802.11ac40	5190	14.62	24	Pass
	5230	14.92	24	Pass
802.11ac80	5210	14.02	24	Pass

Test Data of Conducted Output Power for band 5.25-5.35 GHz-antenna 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5260	14.69	24	Pass
	5300	14.59	24	Pass
	5320	14.33	24	Pass
802.11n20	5260	13.31	24	Pass
	5300	13.12	24	Pass
	5320	13.20	24	Pass
802.11n40	5270	13.23	24	Pass
	5310	13.56	24	Pass
802.11ac20	5260	11.68	24	Pass
	5300	11.50	24	Pass
	5320	10.60	24	Pass
802.11ac40	5270	13.05	24	Pass
	5310	12.46	24	Pass
802.11ac80	5290	10.04	24	Pass

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Test Data of Conducted Output Power for band 5.25-5.35 GHz-antenna 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5260	13.73	24	Pass
	5300	13.37	24	Pass
	5320	13.60	24	Pass
802.11n20	5260	14.03	24	Pass
	5300	13.85	24	Pass
	5320	13.97	24	Pass
802.11n40	5270	12.80	24	Pass
	5310	13.81	24	Pass
802.11ac20	5260	12.38	24	Pass
	5300	13.84	24	Pass
	5320	11.65	24	Pass
802.11ac40	5270	11.89	24	Pass
	5310	10.68	24	Pass
802.11ac80	5290	12.47	24	Pass

Test Data of Conducted Output Power for band 5.25-5.35 GHz-antenna 1+2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5260	16.70	24	Pass
	5300	16.51	24	Pass
	5320	16.61	24	Pass
802.11n40	5270	16.03	24	Pass
	5310	16.70	24	Pass
802.11ac20	5260	15.05	24	Pass
	5300	15.84	24	Pass
	5320	14.17	24	Pass
802.11ac40	5270	15.52	24	Pass
	5310	14.67	24	Pass
802.11ac80	5290	14.43	24	Pass

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Test Data of Conducted Output Power for band 5.47-5.725 GHz-antenna 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5500	13.29	24	Pass
	5600	14.60	24	Pass
	5700	13.58	24	Pass
802.11n20	5500	12.22	24	Pass
	5600	12.39	24	Pass
	5700	11.87	24	Pass
802.11n40	5510	11.67	24	Pass
	5590	12.61	24	Pass
	5670	13.55	24	Pass
802.11ac20	5500	12.36	24	Pass
	5600	12.65	24	Pass
	5700	11.93	24	Pass
802.11ac40	5510	12.00	24	Pass
	5590	12.37	24	Pass
	5670	13.64	24	Pass
802.11ac80	5530	9.97	24	Pass
	5610	10.46	24	Pass

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Test Data of Conducted Output Power for band 5.47-5.725 GHz-antenna 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5500	13.16	24	Pass
	5600	14.04	24	Pass
	5700	14.76	24	Pass
802.11n20	5500	13.97	24	Pass
	5600	14.87	24	Pass
	5700	14.17	24	Pass
802.11n40	5510	12.75	24	Pass
	5590	13.41	24	Pass
	5670	12.12	24	Pass
802.11ac20	5500	10.13	24	Pass
	5600	11.26	24	Pass
	5700	11.02	24	Pass
802.11ac40	5510	12.21	24	Pass
	5590	11.27	24	Pass
	5670	13.18	24	Pass
802.11ac80	5530	10.23	24	Pass
	5610	13.61	24	Pass

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Test Data of Conducted Output Power for band 5.47-5.725 GHz-antenna 1+2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5500	16.19	24	Pass
	5600	16.81	24	Pass
	5700	16.18	24	Pass
802.11n40	5510	15.25	24	Pass
	5590	16.04	24	Pass
	5670	15.90	24	Pass
802.11ac20	5500	14.40	24	Pass
	5600	15.02	24	Pass
	5700	14.51	24	Pass
802.11ac40	5510	15.12	24	Pass
	5590	14.87	24	Pass
	5670	16.43	24	Pass
802.11ac80	5530	13.11	24	Pass
	5610	15.32	24	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz-antenna 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	13.15	30	Pass
	5785	14.60	30	Pass
	5825	16.21	30	Pass
802.11n20	5745	13.07	30	Pass
	5785	13.06	30	Pass
	5825	14.27	30	Pass
802.11n40	5755	12.27	30	Pass
	5795	13.18	30	Pass
802.11ac20	5745	11.24	30	Pass
	5785	12.15	30	Pass
	5825	13.85	30	Pass
802.11ac40	5755	12.44	30	Pass
	5795	12.72	30	Pass
802.11ac80	5775	10.72	30	Pass

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Test Data of Conducted Output Power for band 5.725-5.85 GHz-antenna 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	11.62	30	Pass
	5785	12.42	30	Pass
	5825	14.46	30	Pass
802.11n20	5745	10.13	30	Pass
	5785	11.52	30	Pass
	5825	13.07	30	Pass
802.11n40	5755	10.62	30	Pass
	5795	12.07	30	Pass
802.11ac20	5745	10.49	30	Pass
	5785	11.27	30	Pass
	5825	12.83	30	Pass
802.11ac40	5755	11.05	30	Pass
	5795	11.67	30	Pass
802.11ac80	5775	9.85	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz-antenna 1+2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5745	14.85	30	Pass
	5785	15.37	30	Pass
	5825	16.72	30	Pass
802.11n40	5755	14.53	30	Pass
	5795	15.67	30	Pass
802.11ac20	5745	13.89	30	Pass
	5785	14.74	30	Pass
	5825	16.38	30	Pass
802.11ac40	5755	14.81	30	Pass
	5795	15.24	30	Pass
802.11ac80	5775	13.32	30	Pass

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## 8. BANDWIDTH

### 8.1. MEASUREMENT PROCEDURE

-6dB bandwidth (DTS bandwidth):

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  $\geq 3 \times$  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.

99% occupied bandwidth:

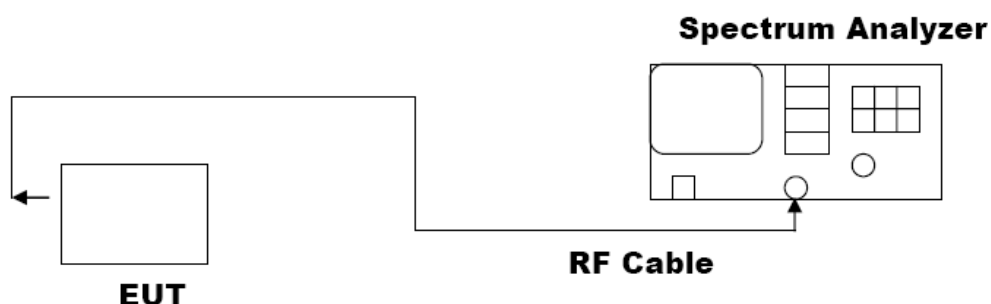
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel  
The nominal IF filter bandwidth (3 dB RBW) shall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

-26dB Bandwidth:

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.

### 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-antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.365	20.62	N/A	Pass
	5200	16.406	22.49	N/A	Pass
	5240	17.041	29.68	N/A	Pass
802.11n20	5180	17.575	22.17	N/A	Pass
	5200	17.617	25.81	N/A	Pass
	5240	18.721	30.00	N/A	Pass
802.11n40	5190	36.186	49.22	N/A	Pass
	5230	36.590	57.07	N/A	Pass
802.11ac20	5180	17.565	23.59	N/A	Pass
	5200	17.596	26.55	N/A	Pass
	5240	18.413	30.00	N/A	Pass
802.11ac40	5190	36.204	48.29	N/A	Pass
	5230	36.673	58.40	N/A	Pass
802.11ac80	5210	78.362	111.5	N/A	Pass

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz-antenna 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.817	29.12	N/A	Pass
	5200	17.079	29.98	N/A	Pass
	5240	16.607	29.48	N/A	Pass
802.11n20	5180	18.270	30.00	N/A	Pass
	5200	18.827	30.00	N/A	Pass
	5240	17.885	30.00	N/A	Pass
802.11n40	5190	36.899	59.95	N/A	Pass
	5230	36.485	59.95	N/A	Pass
802.11ac20	5180	17.597	19.11	N/A	Pass
	5200	17.593	19.15	N/A	Pass
	5240	17.588	19.09	N/A	Pass
802.11ac40	5190	36.165	39.92	N/A	Pass
	5230	36.035	39.59	N/A	Pass
802.11ac80	5210	75.406	80.42	N/A	Pass

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Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz-antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5260	16.946	30.00	N/A	Pass
	5300	16.672	29.91	N/A	Pass
	5320	16.483	27.57	N/A	Pass
802.11n20	5260	18.521	29.99	N/A	Pass
	5300	17.976	30.00	N/A	Pass
	5320	17.701	29.71	N/A	Pass
802.11n40	5270	36.860	60.00	N/A	Pass
	5310	36.433	60.00	N/A	Pass
802.11ac20	5260	18.740	30.00	N/A	Pass
	5300	17.964	30.00	N/A	Pass
	5320	17.695	30.00	N/A	Pass
802.11ac40	5270	36.921	60.00	N/A	Pass
	5310	36.443	59.82	N/A	Pass
802.11ac80	5290	76.865	119.9	N/A	Pass

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz-antenna 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5260	16.398	23.11	N/A	Pass
	5300	16.364	18.72	N/A	Pass
	5320	16.394	22.93	N/A	Pass
802.11n20	5260	17.584	25.70	N/A	Pass
	5300	17.558	22.61	N/A	Pass
	5320	17.598	26.63	N/A	Pass
802.11n40	5270	36.115	41.36	N/A	Pass
	5310	36.121	46.64	N/A	Pass
802.11ac20	5260	17.565	18.99	N/A	Pass
	5300	17.567	19.01	N/A	Pass
	5320	17.538	18.98	N/A	Pass
802.11ac40	5270	35.984	39.27	N/A	Pass
	5310	36.104	39.41	N/A	Pass
802.11ac80	5290	75.220	80.35	N/A	Pass

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Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5500	16.455	25.44	N/A	Pass
	5600	16.400	21.99	N/A	Pass
	5700	16.428	24.14	N/A	Pass
802.11n20	5500	17.665	28.25	N/A	Pass
	5600	17.590	26.78	N/A	Pass
	5700	17.427	18.02	N/A	Pass
802.11n40	5510	36.288	59.08	N/A	Pass
	5590	36.168	49.96	N/A	Pass
	5670	36.707	60.00	N/A	Pass
802.11ac20	5500	16.591	29.34	N/A	Pass
	5600	17.634	26.60	N/A	Pass
	5700	17.643	28.50	N/A	Pass
802.11ac40	5510	36.317	58.13	N/A	Pass
	5590	36.206	51.27	N/A	Pass
	5670	36.327	60.00	N/A	Pass
802.11ac80	5530	75.660	118.7	N/A	Pass
	5610	75.542	109.6	N/A	Pass

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Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz antenna 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5500	16.480	26.06	N/A	Pass
	5600	16.378	23.05	N/A	Pass
	5700	16.409	24.09	N/A	Pass
802.11n20	5500	17.676	28.20	N/A	Pass
	5600	17.604	24.30	N/A	Pass
	5700	17.636	28.92	N/A	Pass
802.11n40	5510	36.411	56.28	N/A	Pass
	5590	36.256	57.95	N/A	Pass
	5670	36.235	55.94	N/A	Pass
802.11ac20	5500	17.555	19.04	N/A	Pass
	5600	17.556	18.95	N/A	Pass
	5700	17.604	19.01	N/A	Pass
802.11ac40	5510	36.104	40.34	N/A	Pass
	5590	36.098	40.30	N/A	Pass
	5670	36.115	40.23	N/A	Pass
802.11ac80	5530	75.634	80.94	N/A	Pass
	5610	75.472	80.40	N/A	Pass

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Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz-antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.334	16.34	0.5	Pass
	5785	16.335	16.34	0.5	Pass
	5825	16.377	16.32	0.5	Pass
802.11n20	5745	17.500	17.51	0.5	Pass
	5785	17.505	17.56	0.5	Pass
	5825	17.550	17.30	0.5	Pass
802.11n40	5755	36.009	35.16	0.5	Pass
	5795	36.031	35.13	0.5	Pass
802.11ac20	5745	17.504	17.57	0.5	Pass
	5785	17.508	17.53	0.5	Pass
	5825	17.554	17.56	0.5	Pass
802.11ac40	5755	36.068	35.15	0.5	Pass
	5795	36.089	35.36	0.5	Pass
802.11ac80	5775	75.223	75.07	0.5	Pass

Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz-antenna 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.317	16.32	0.5	Pass
	5785	16.315	16.33	0.5	Pass
	5825	16.345	16.32	0.5	Pass
802.11n20	5745	17.517	17.56	0.5	Pass
	5785	17.524	17.53	0.5	Pass
	5825	17.559	17.31	0.5	Pass
802.11n40	5755	36.108	35.12	0.5	Pass
	5795	36.138	35.15	0.5	Pass
802.11ac20	5745	17.507	17.54	0.5	Pass
	5785	17.514	17.57	0.5	Pass
	5825	17.555	17.53	0.5	Pass
802.11ac40	5755	36.050	35.15	0.5	Pass
	5795	36.094	35.47	0.5	Pass
802.11ac80	5775	75.142	75.10	0.5	Pass

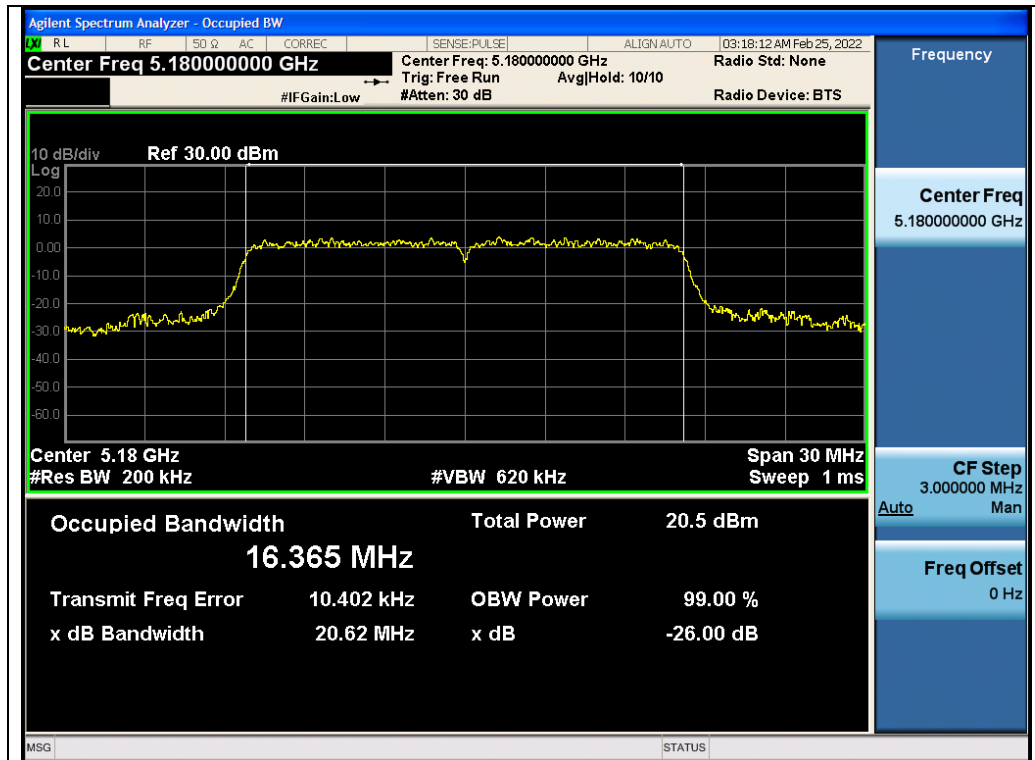
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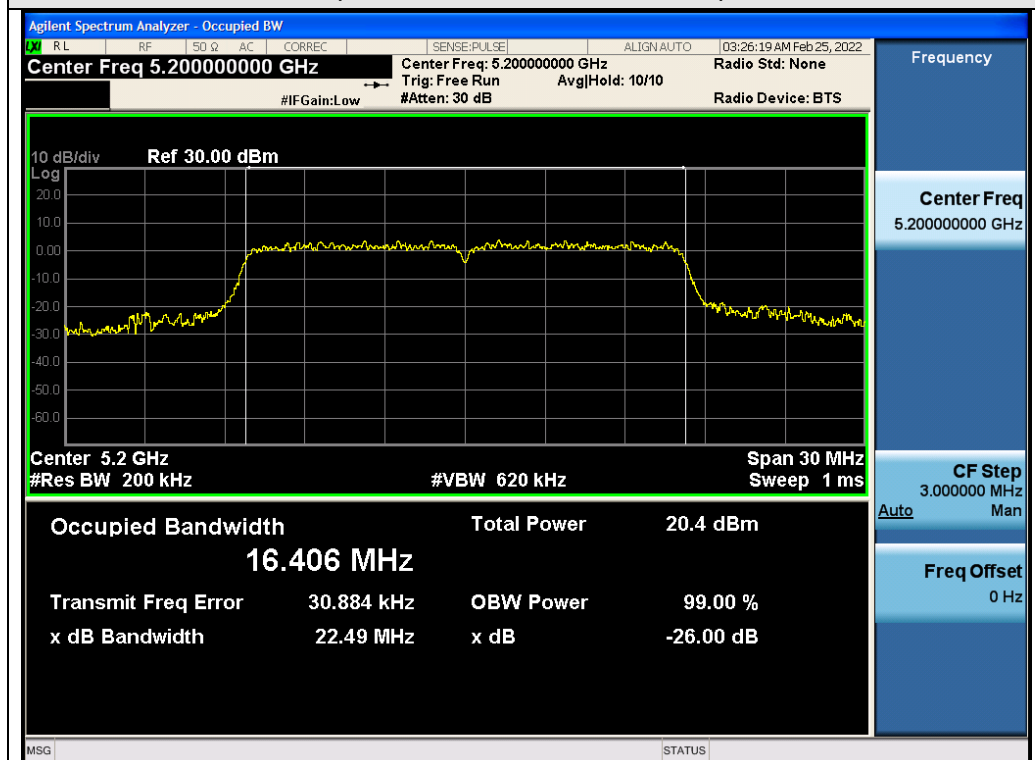
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### Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz



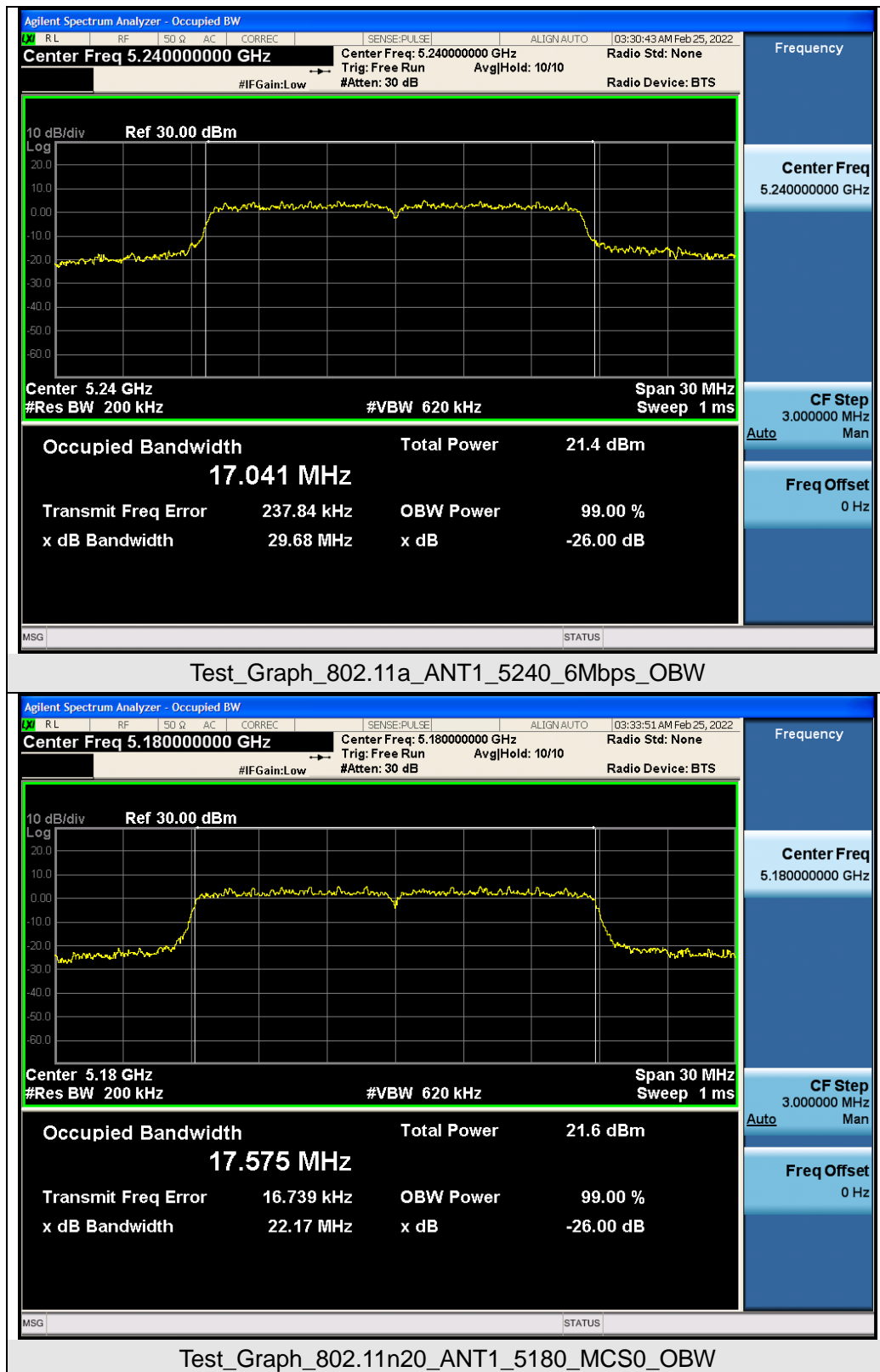
Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_OBW



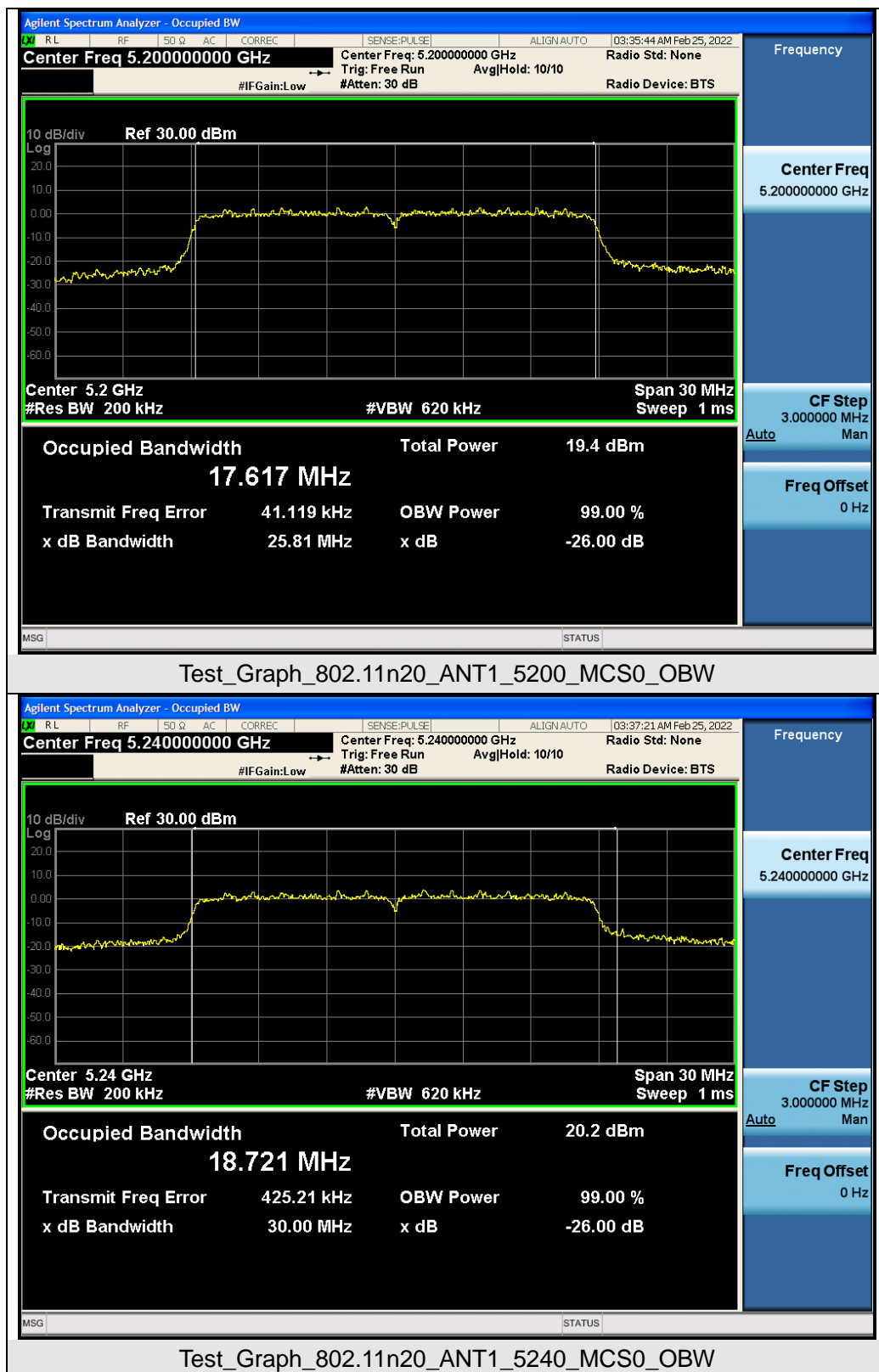
Test\_Graph\_802.11a\_ANT1\_5200\_6Mbps\_OBW

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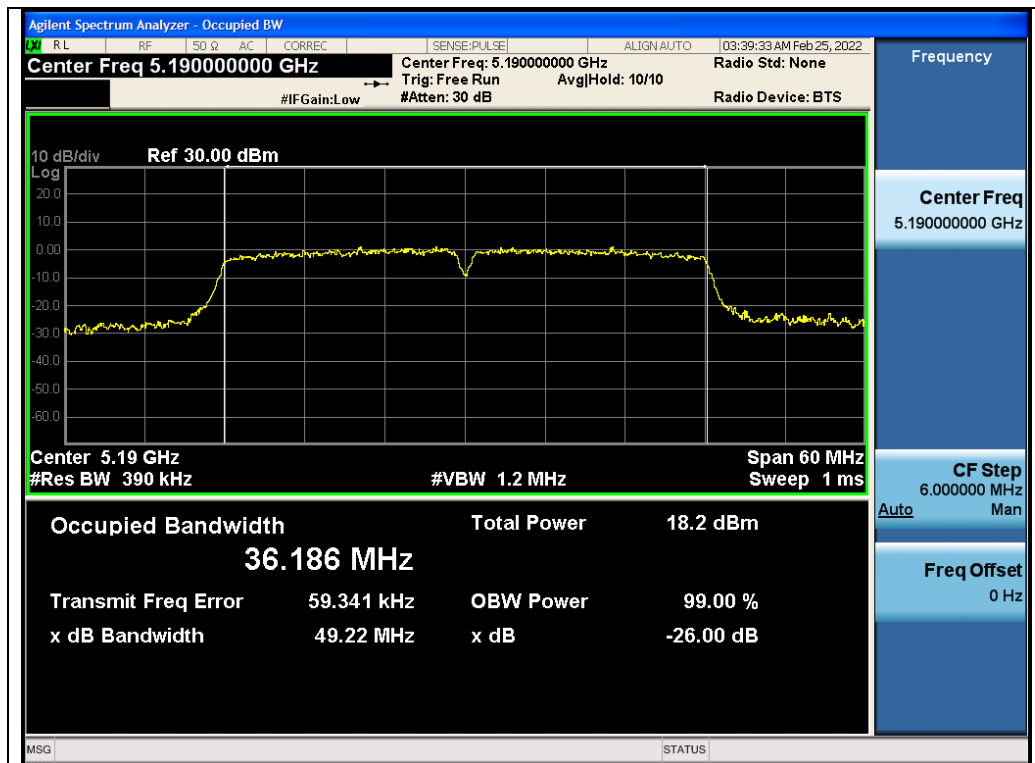


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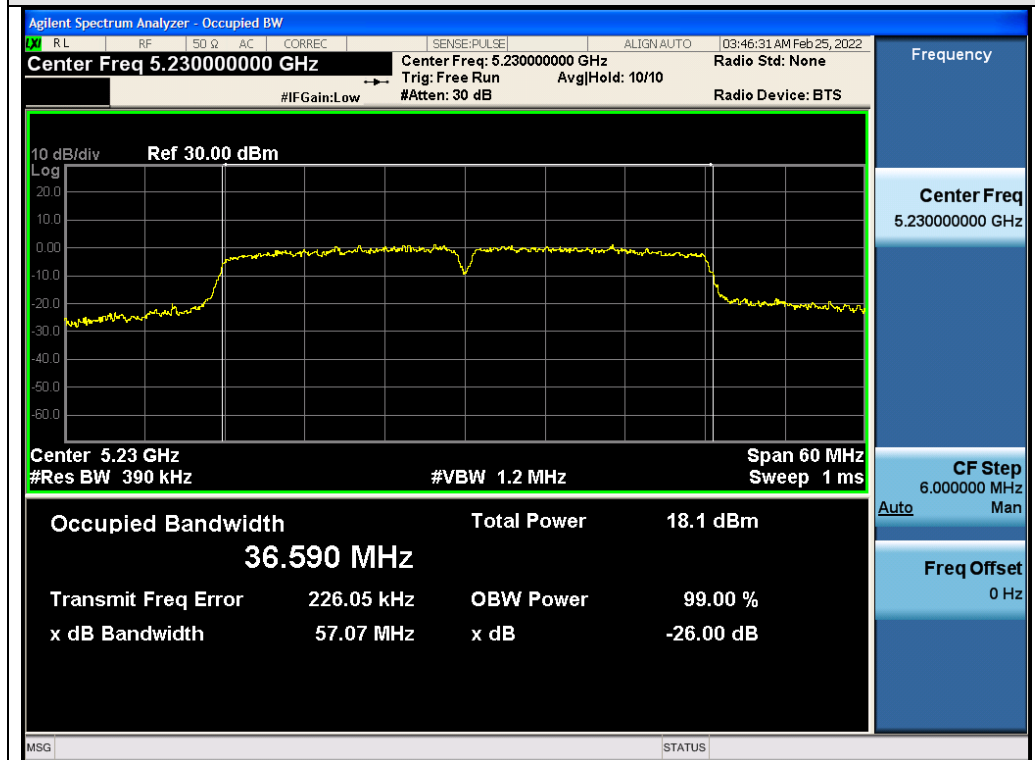


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Test\_Graph\_802.11n40\_ANT1\_5190\_MCS0\_OBW



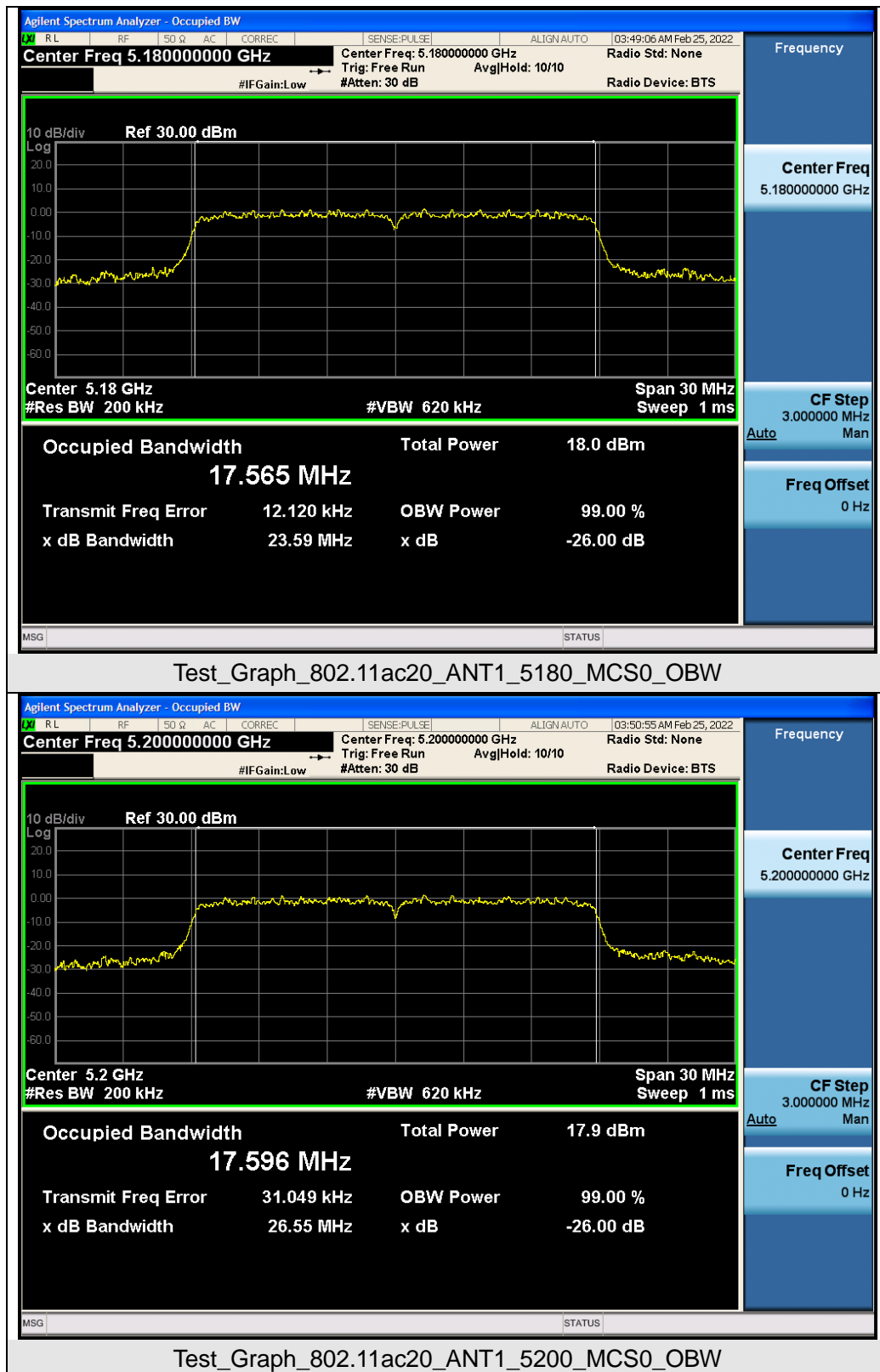
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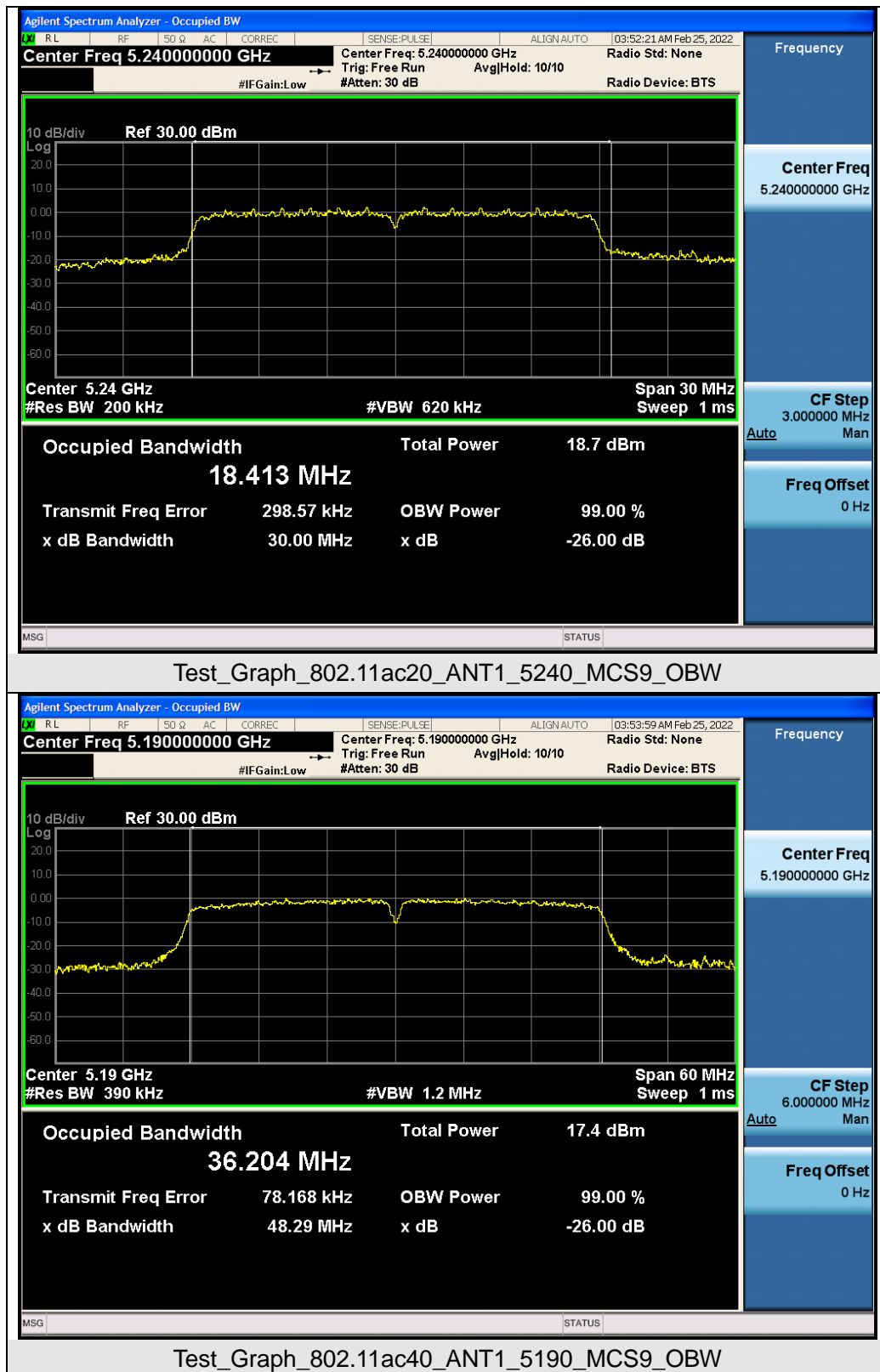


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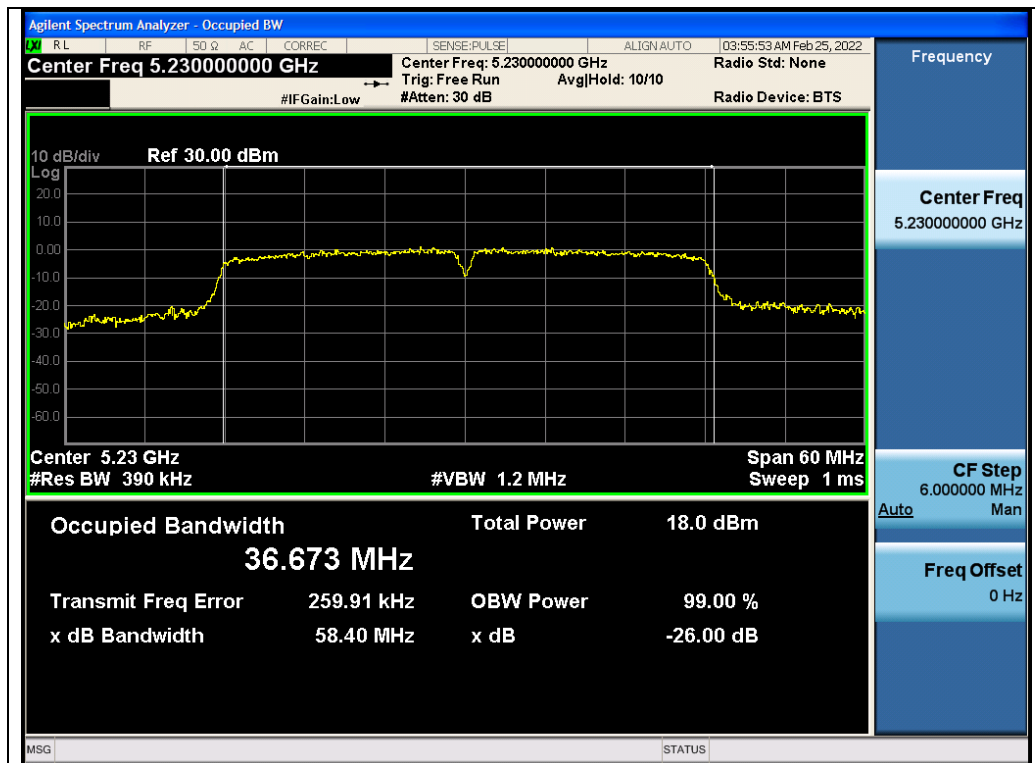
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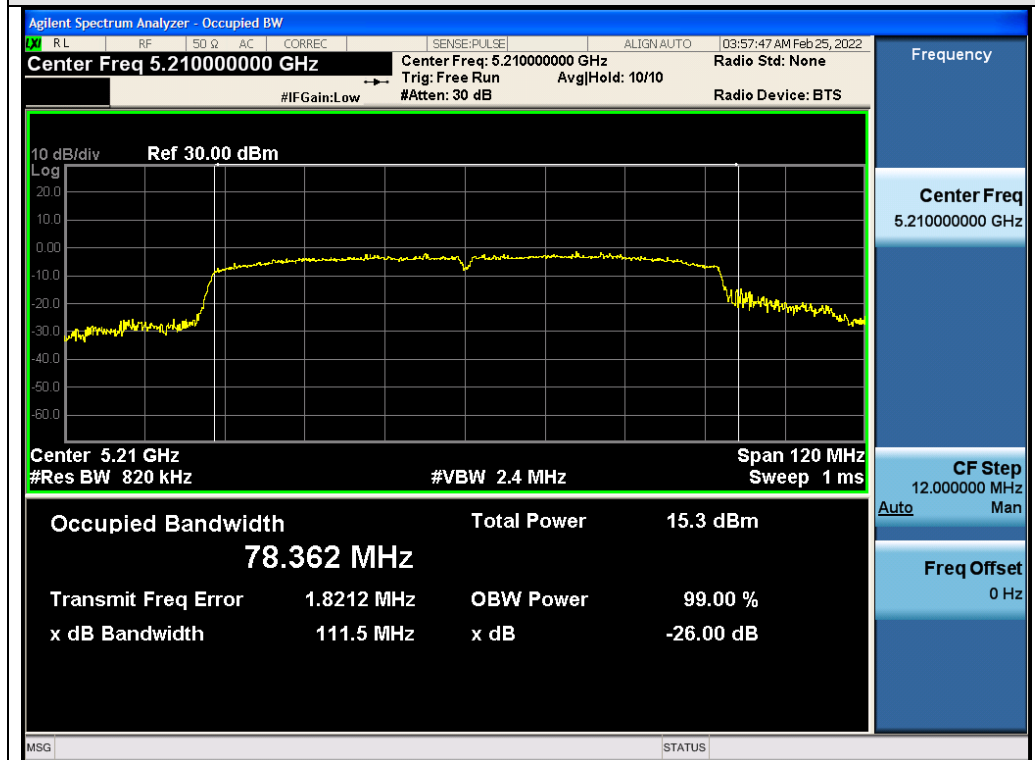
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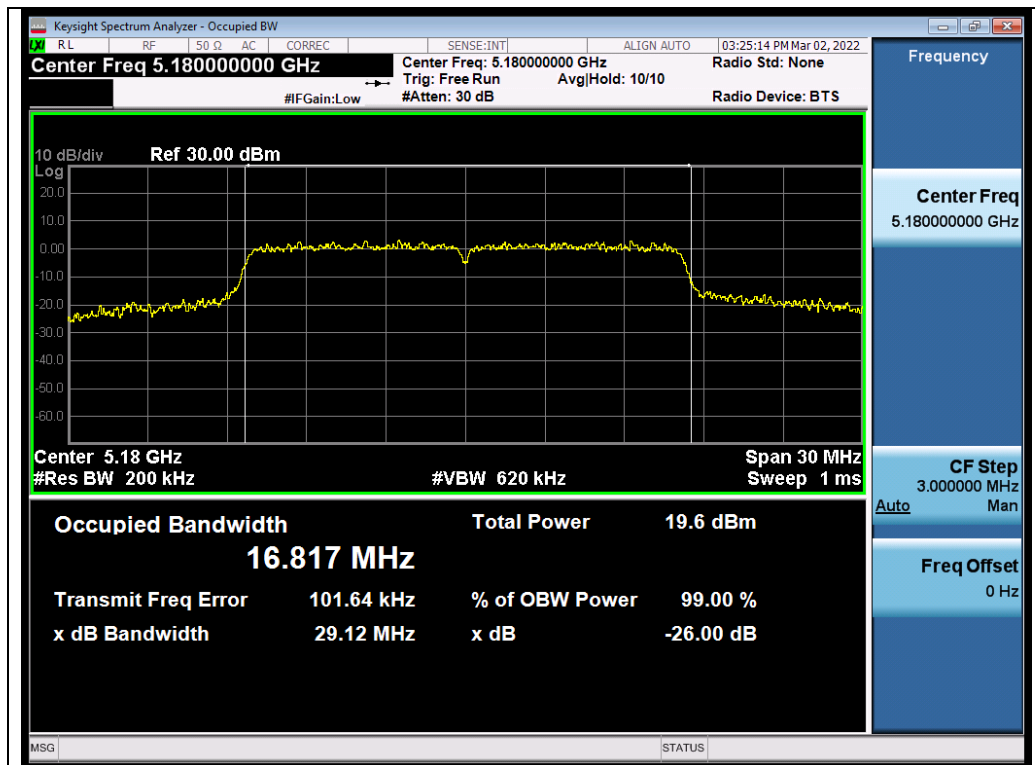


Test\_Graph\_802.11ac40\_ANT1\_5230\_MCS9\_OBW

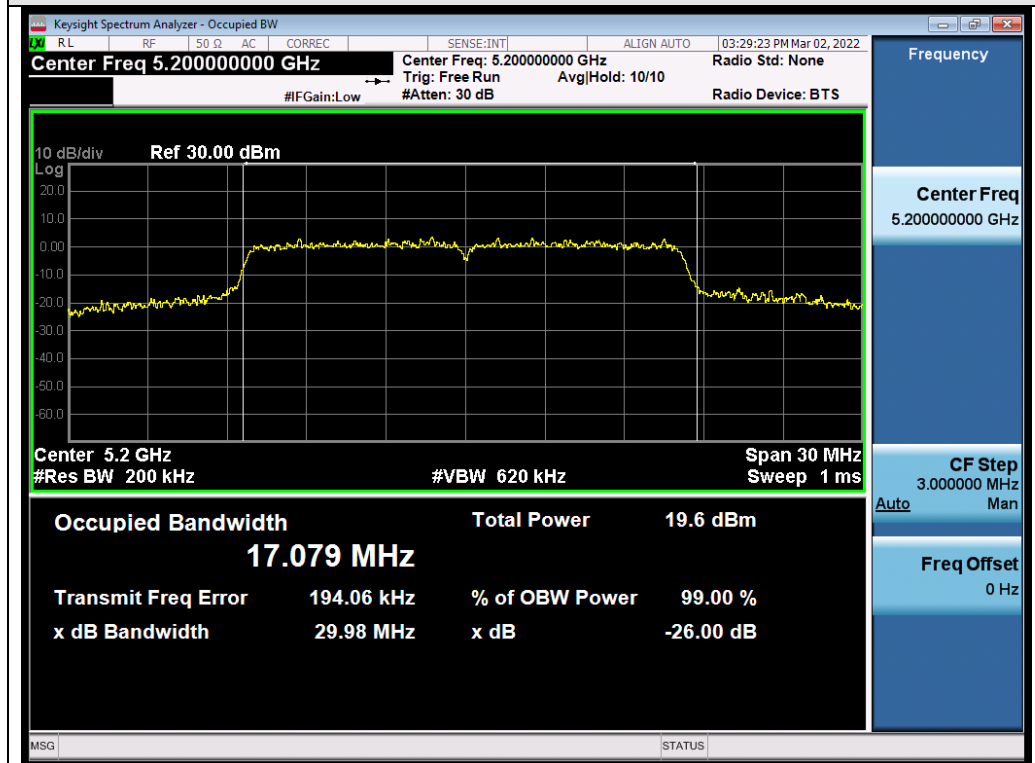


Test\_Graph\_802.11ac80\_ANT1\_5210\_MCS9\_OBW

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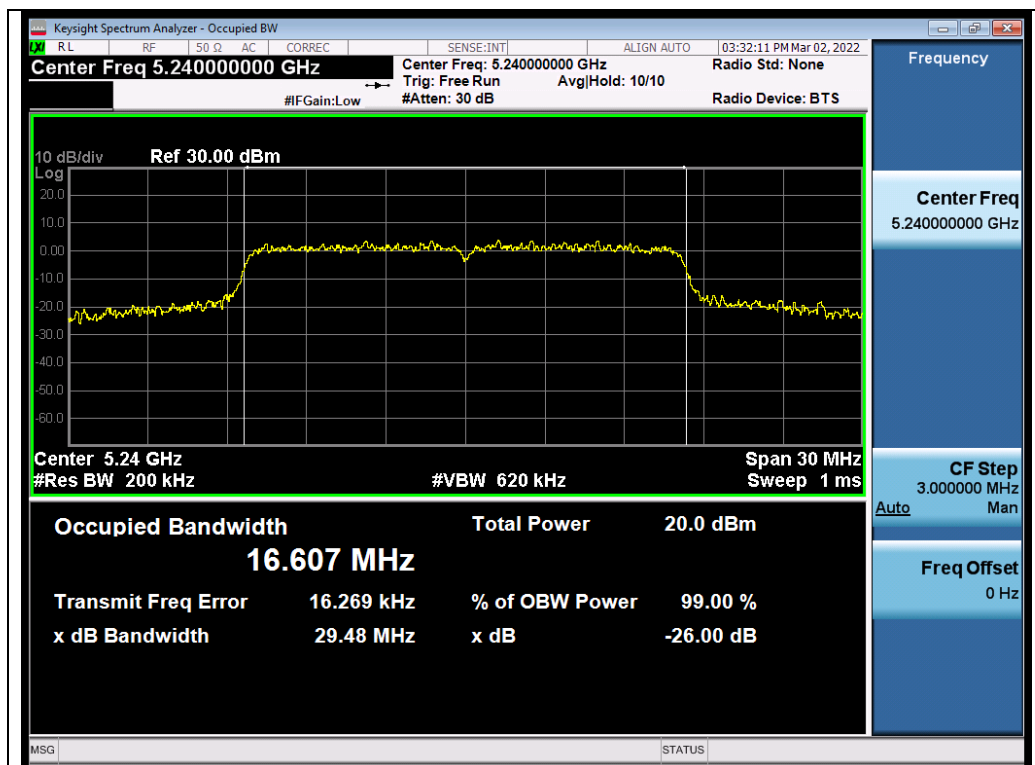


Test\_Graph\_802.11a\_ANT2\_5180\_6Mbps\_OBW

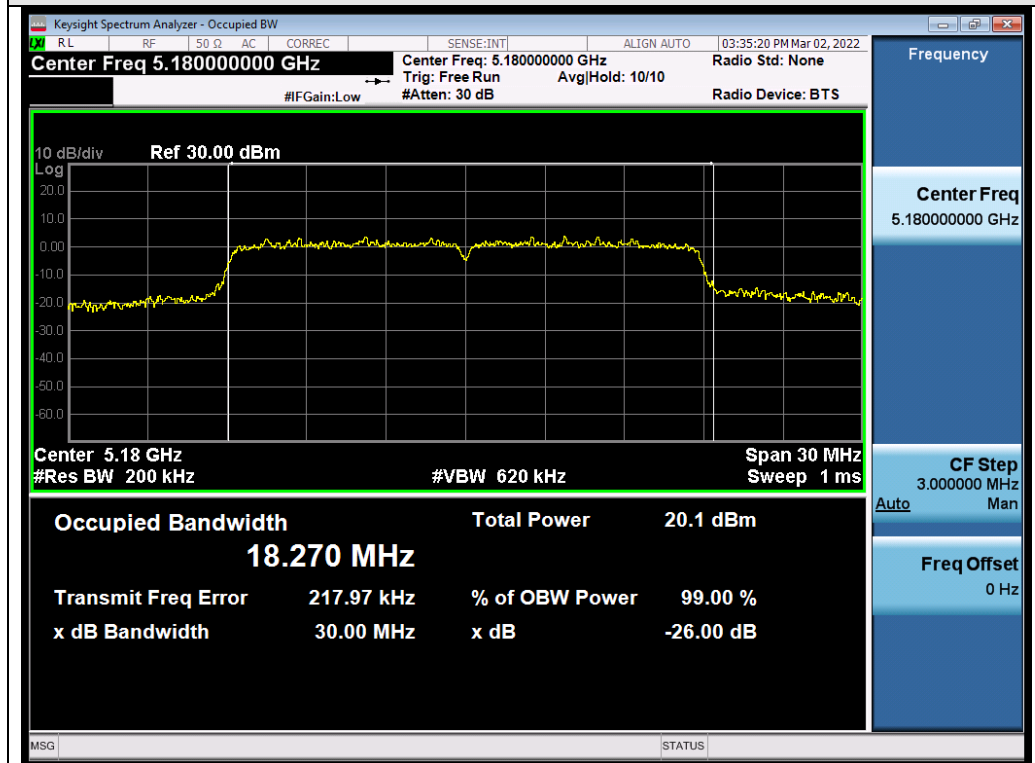


Test\_Graph\_802.11a\_ANT2\_5200\_6Mbps\_OBW

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Test\_Graph\_802.11a\_ANT2\_5240\_6Mbps\_OBW



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

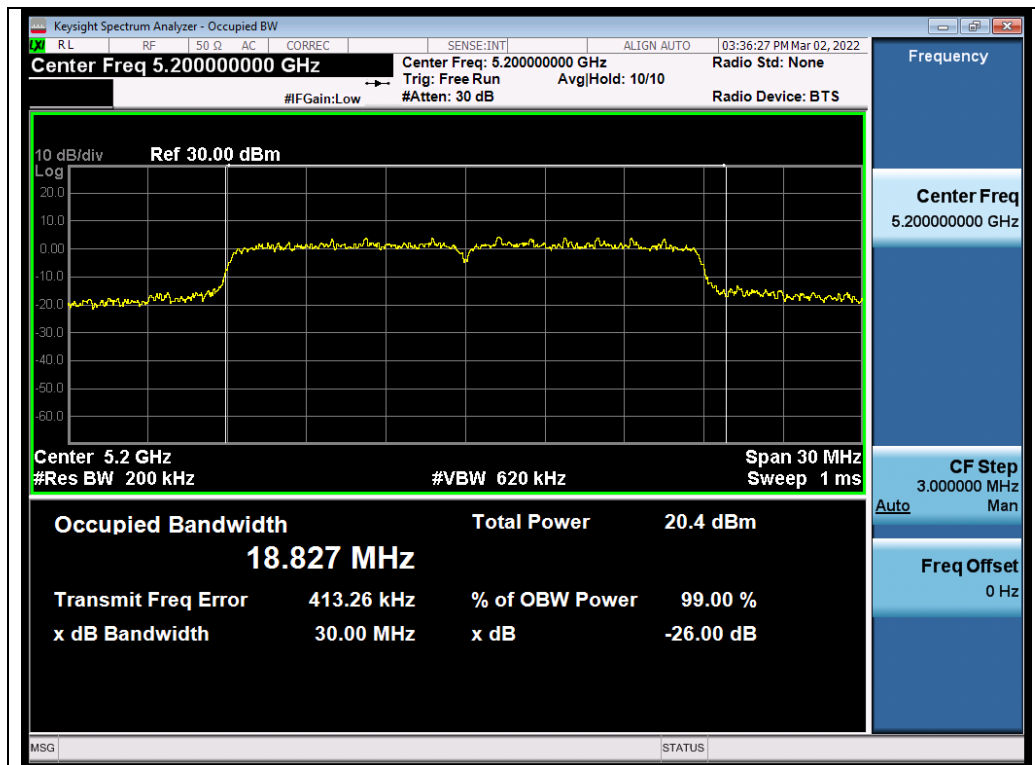
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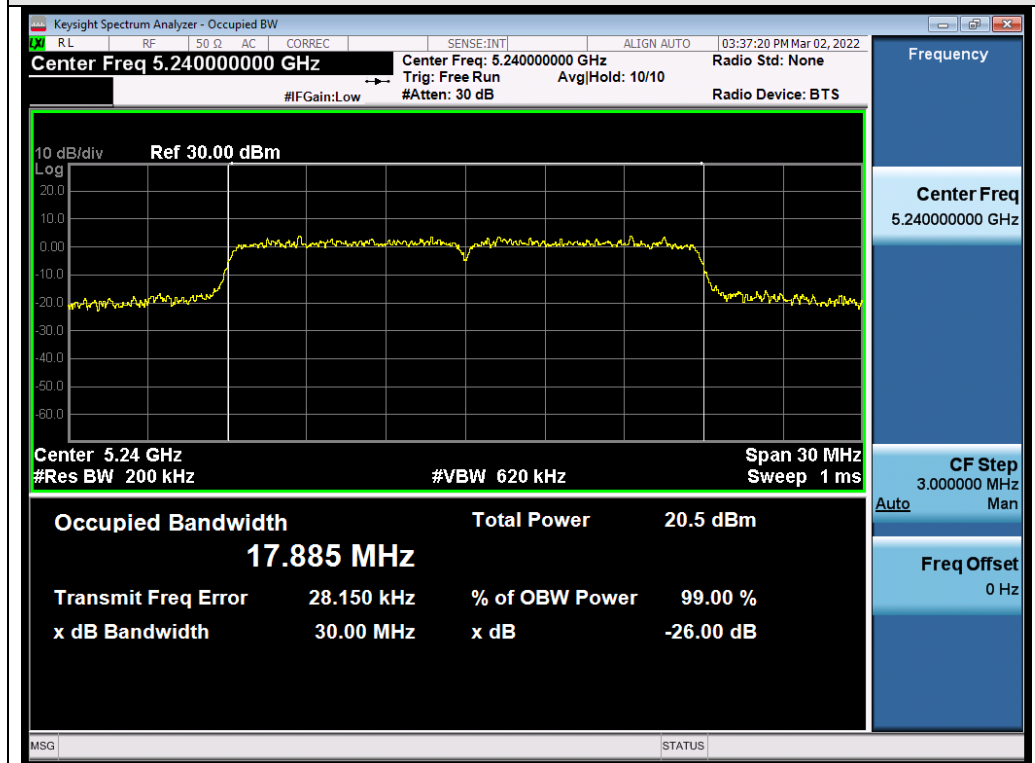
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Test\_Graph\_802.11n20\_ANT2\_5200\_MCS0\_OBW



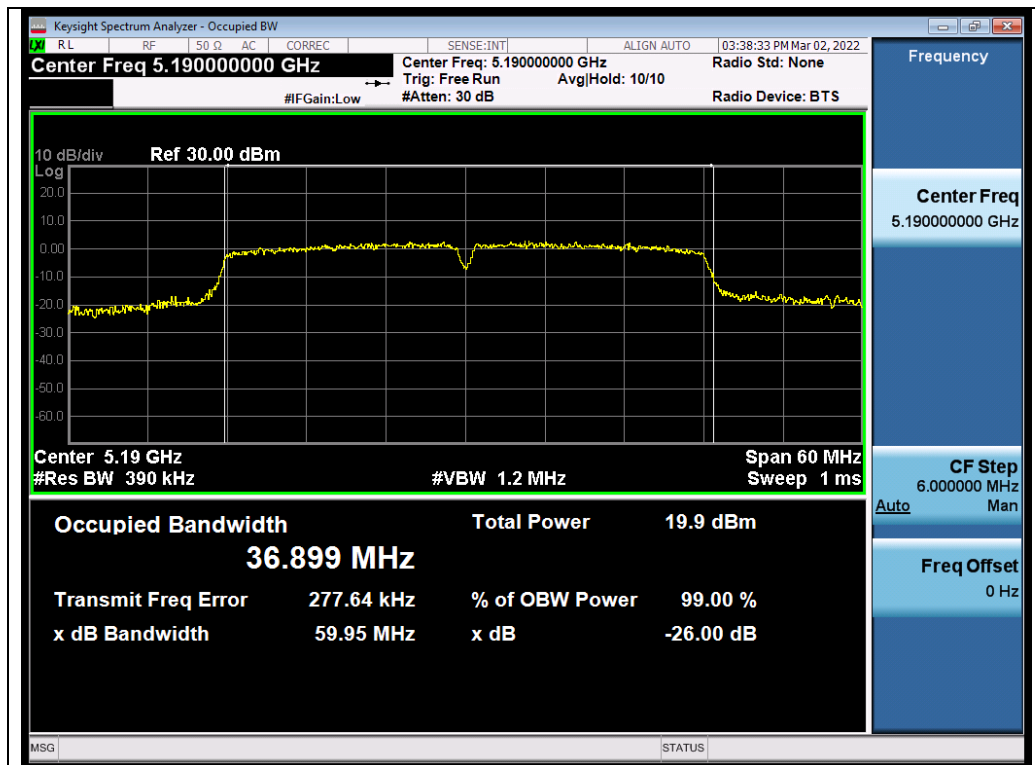
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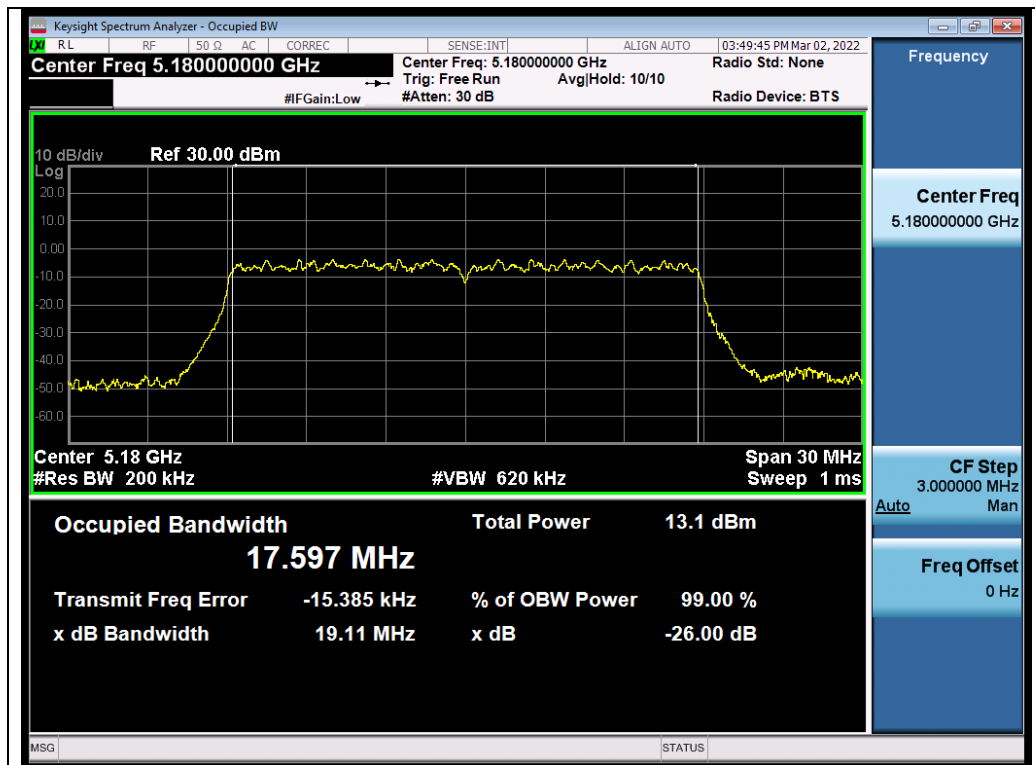
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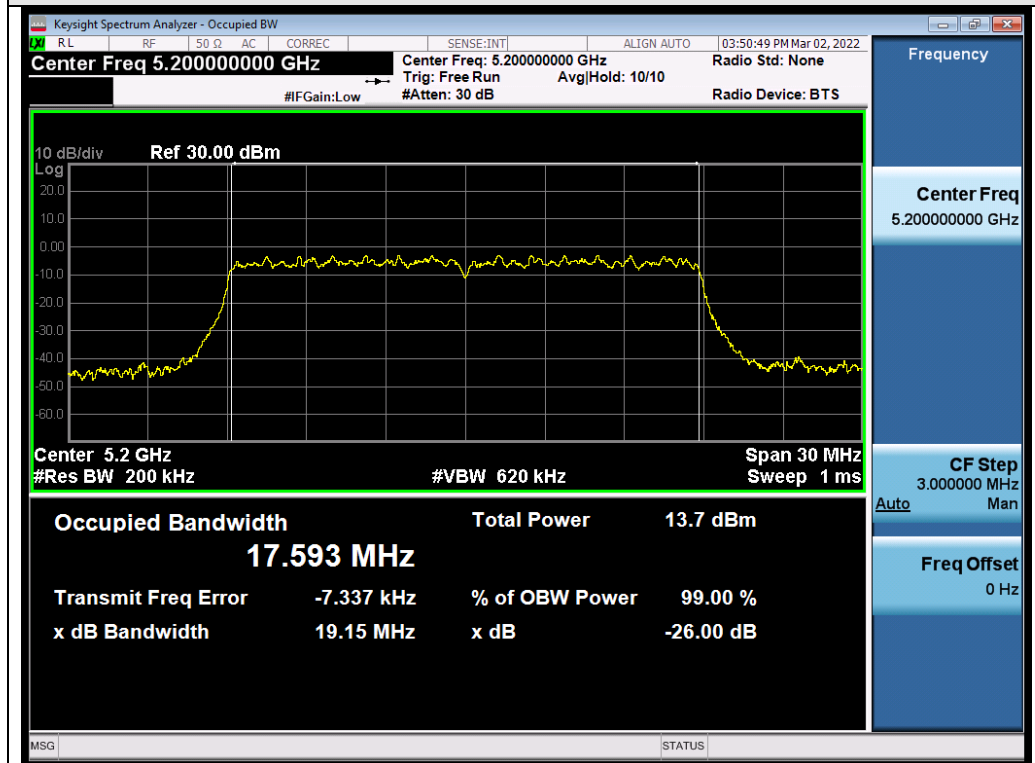
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Test\_Graph\_802.11ac20\_ANT2\_5180\_MCS0\_OBW



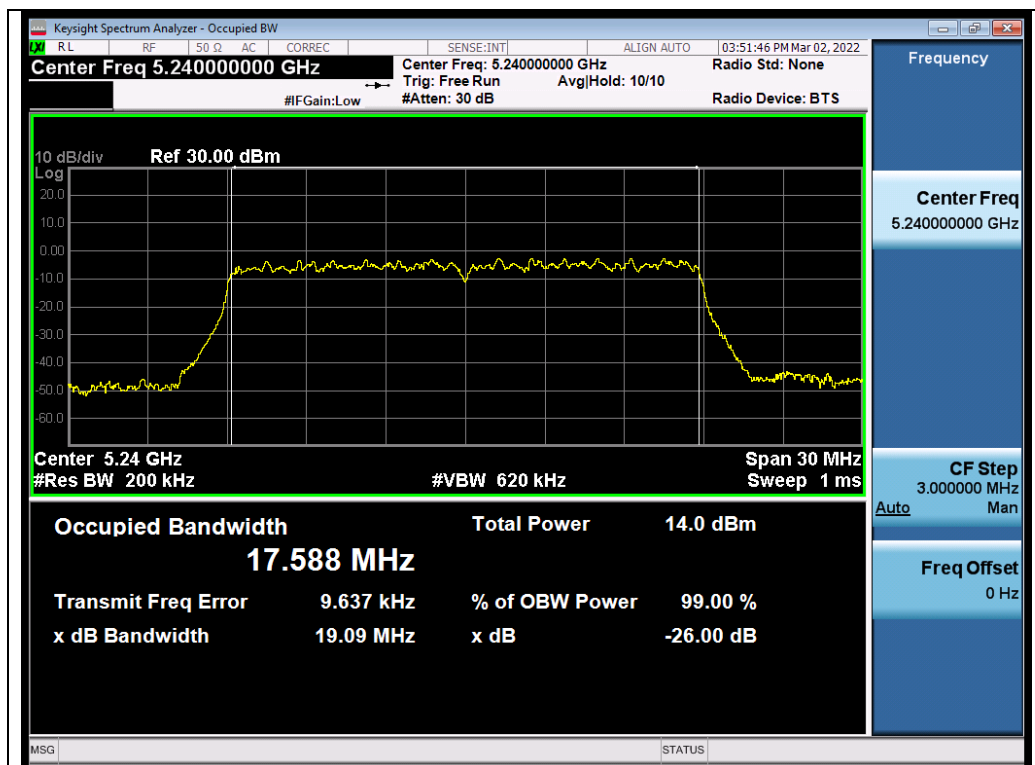
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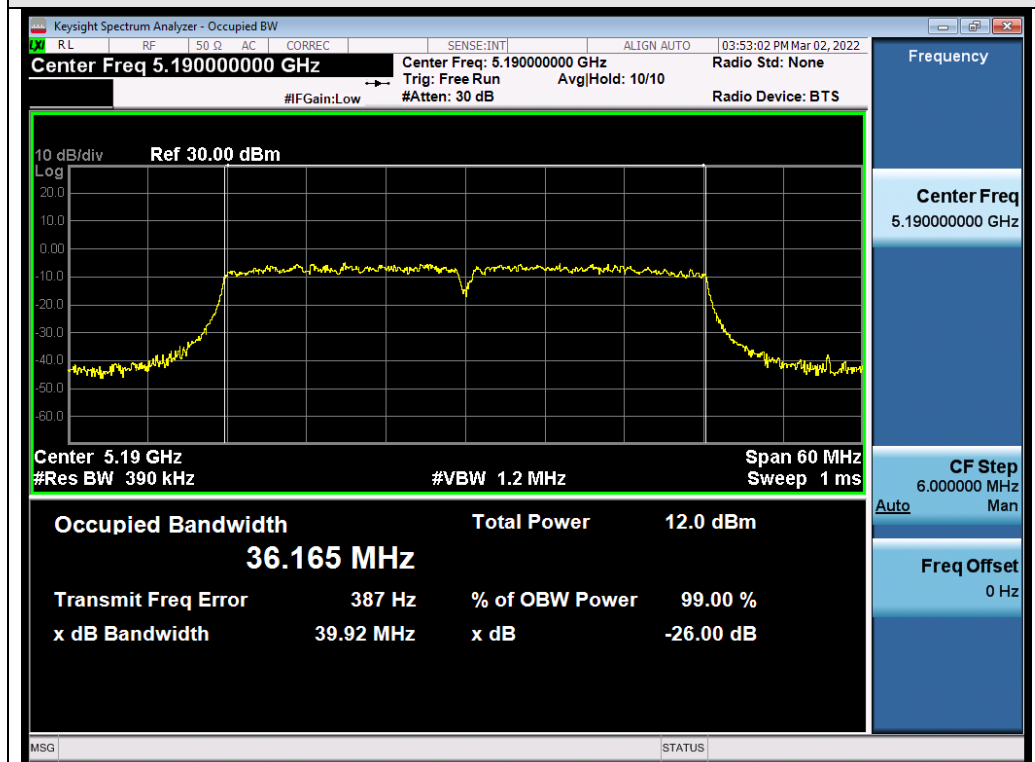
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Test\_Graph\_802.11ac20\_ANT2\_5240\_MCS9\_OBW



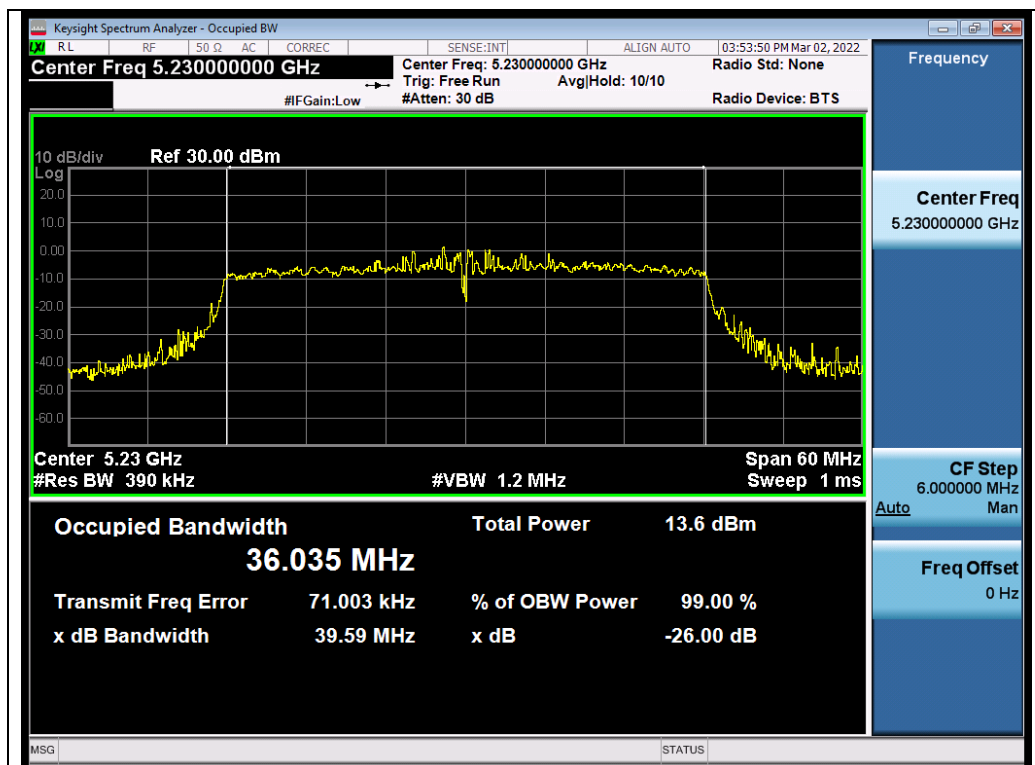
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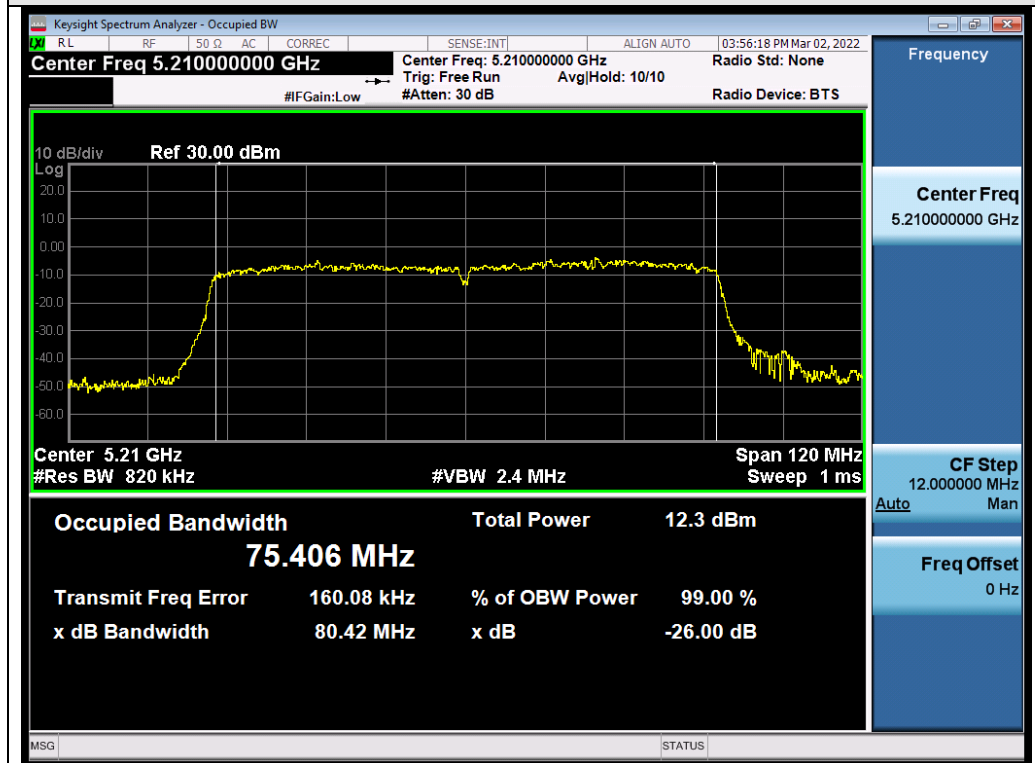
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Test\_Graph\_802.11ac40\_ANT2\_5230\_MCS9\_OBW



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

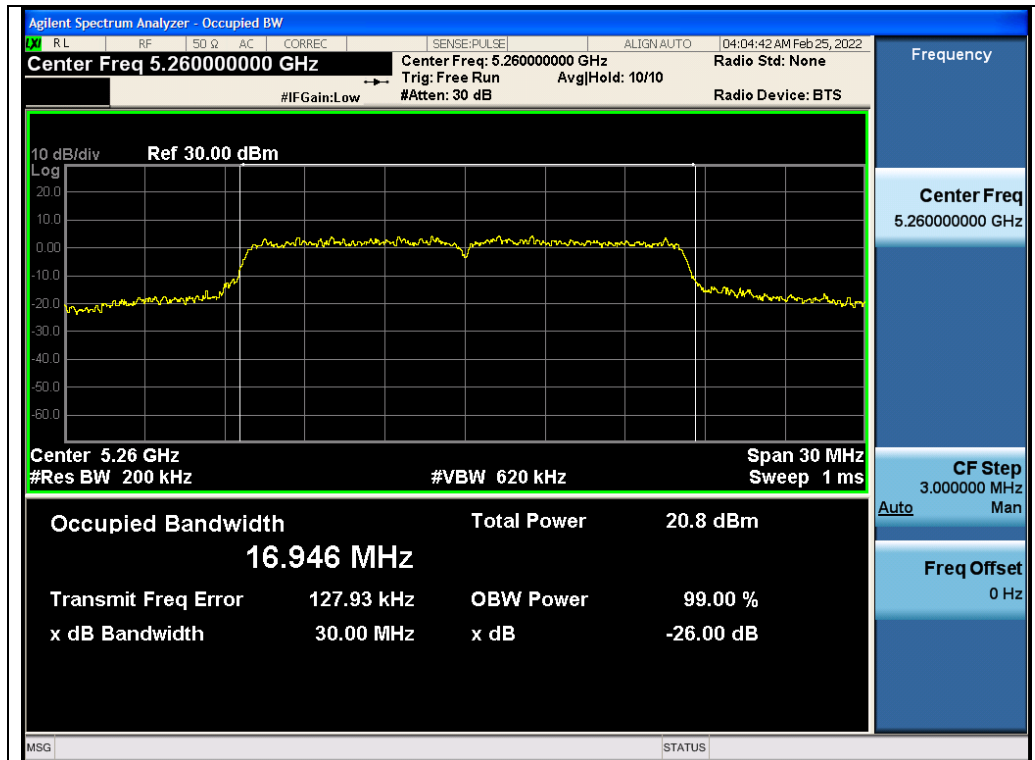
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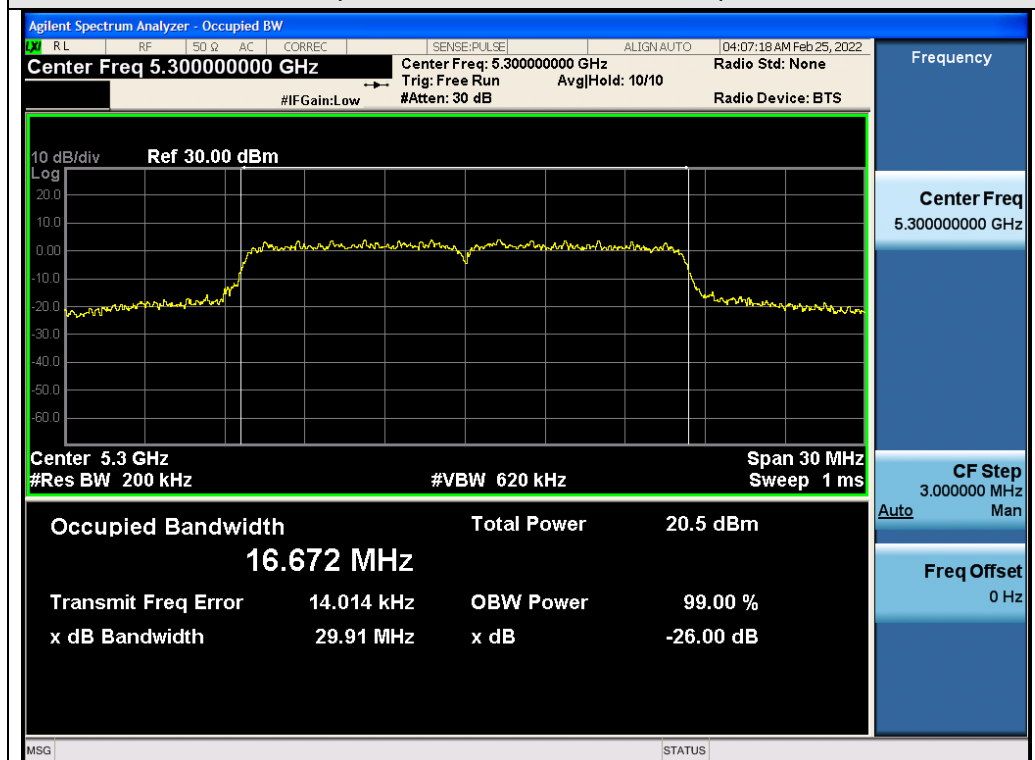
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### Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz

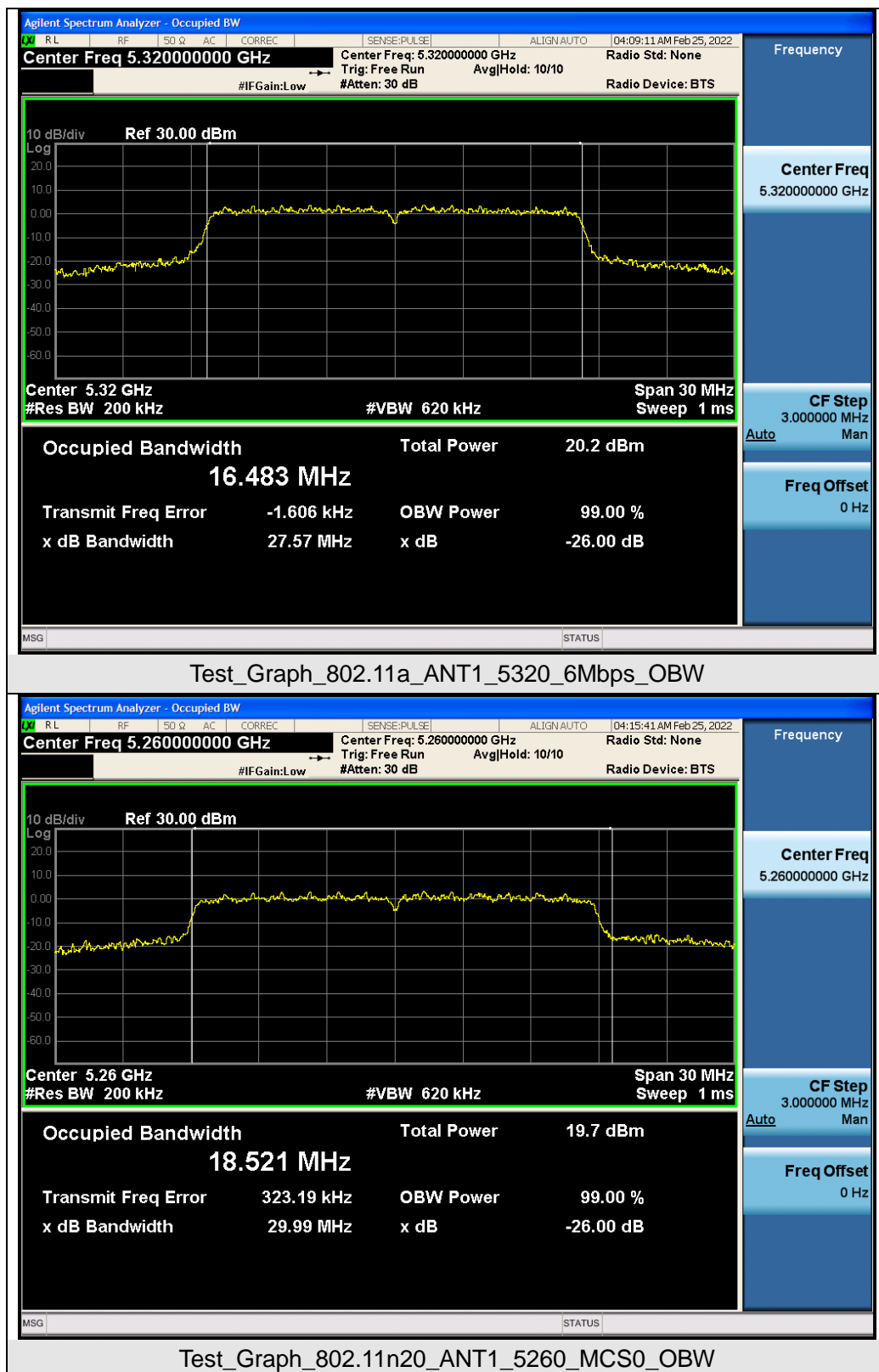


Test\_Graph\_802.11a\_ANT1\_5260\_6Mbps\_OBW

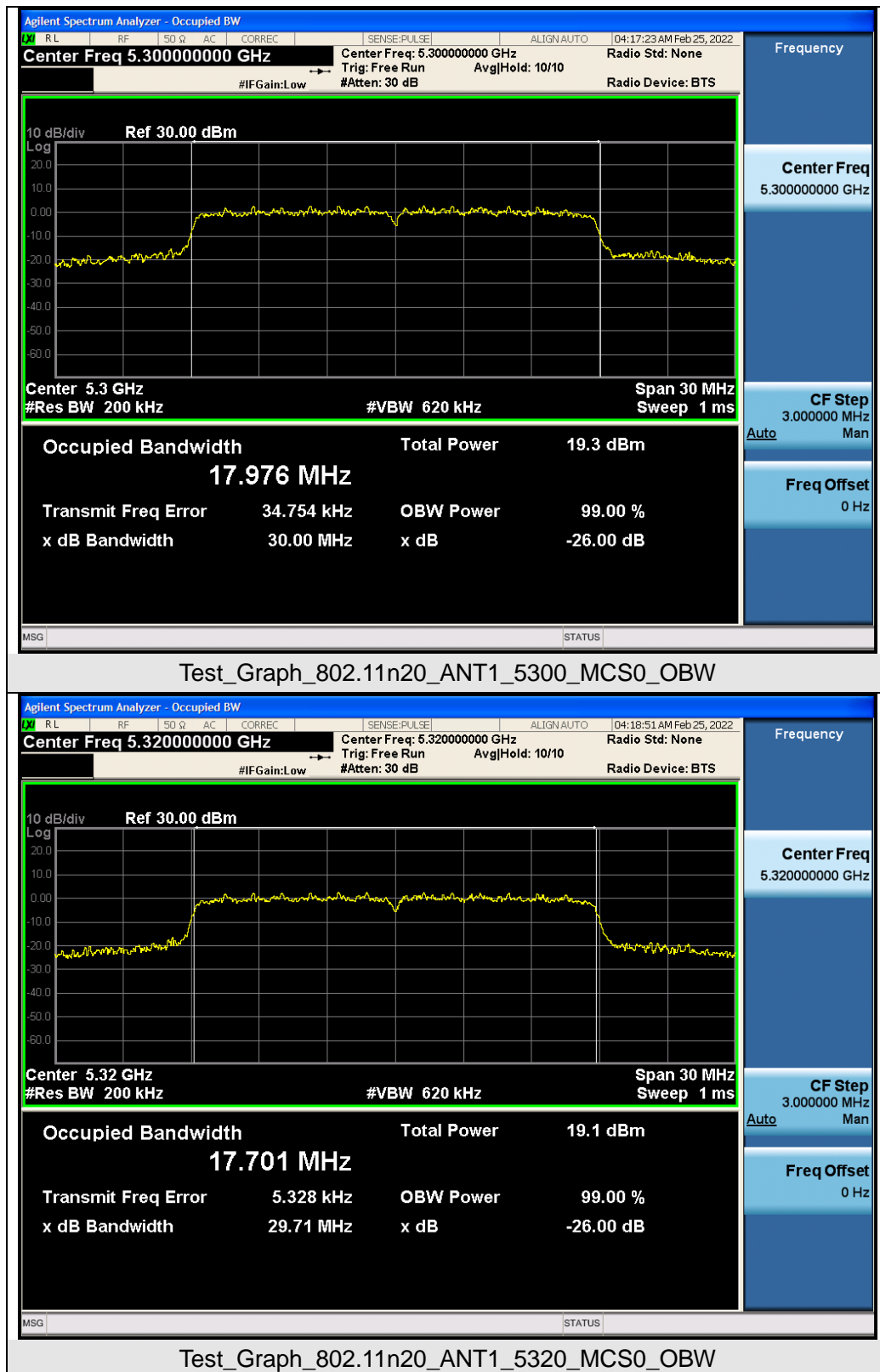


Test\_Graph\_802.11a\_ANT1\_5300\_6Mbps\_OBW

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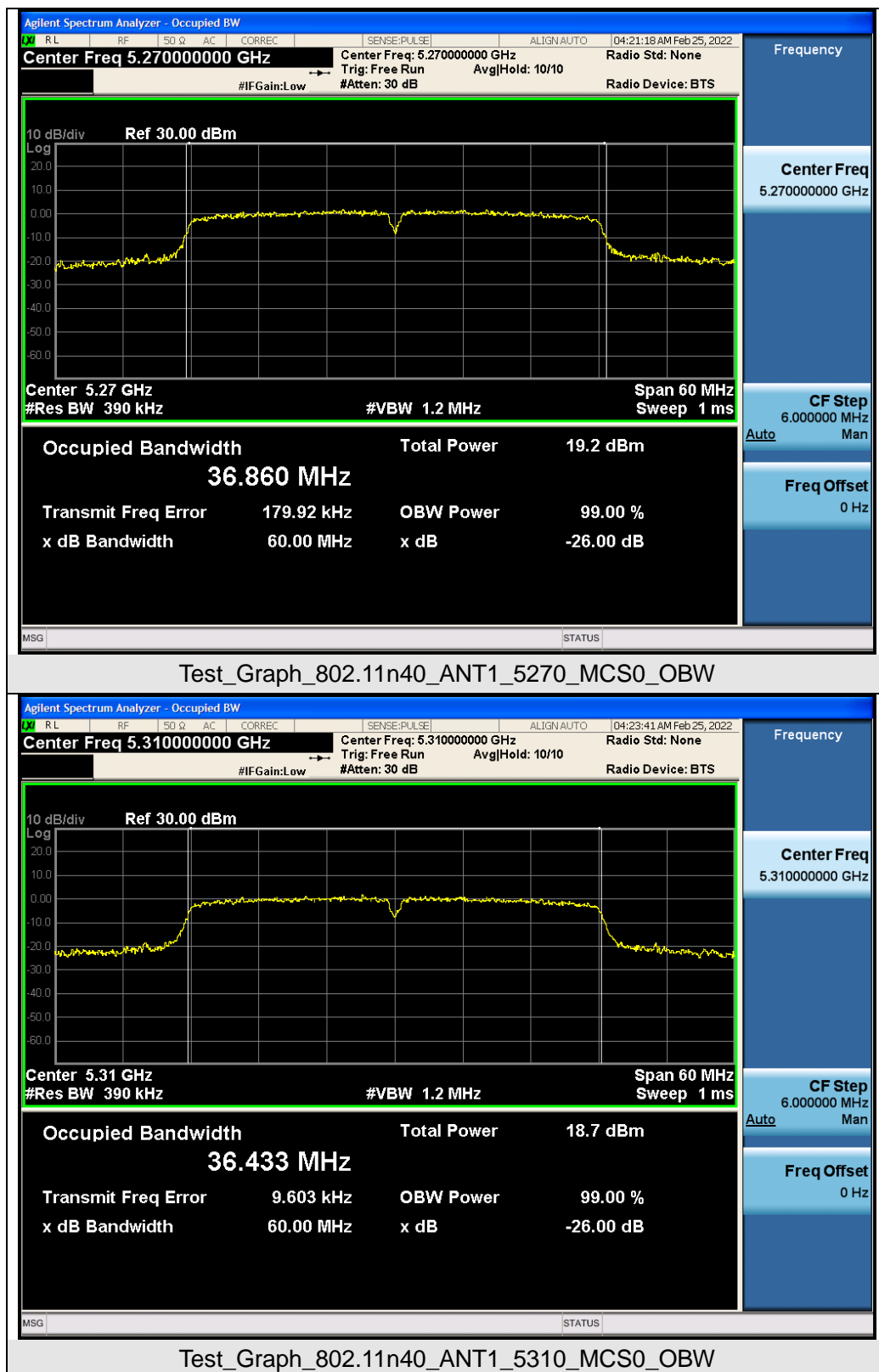


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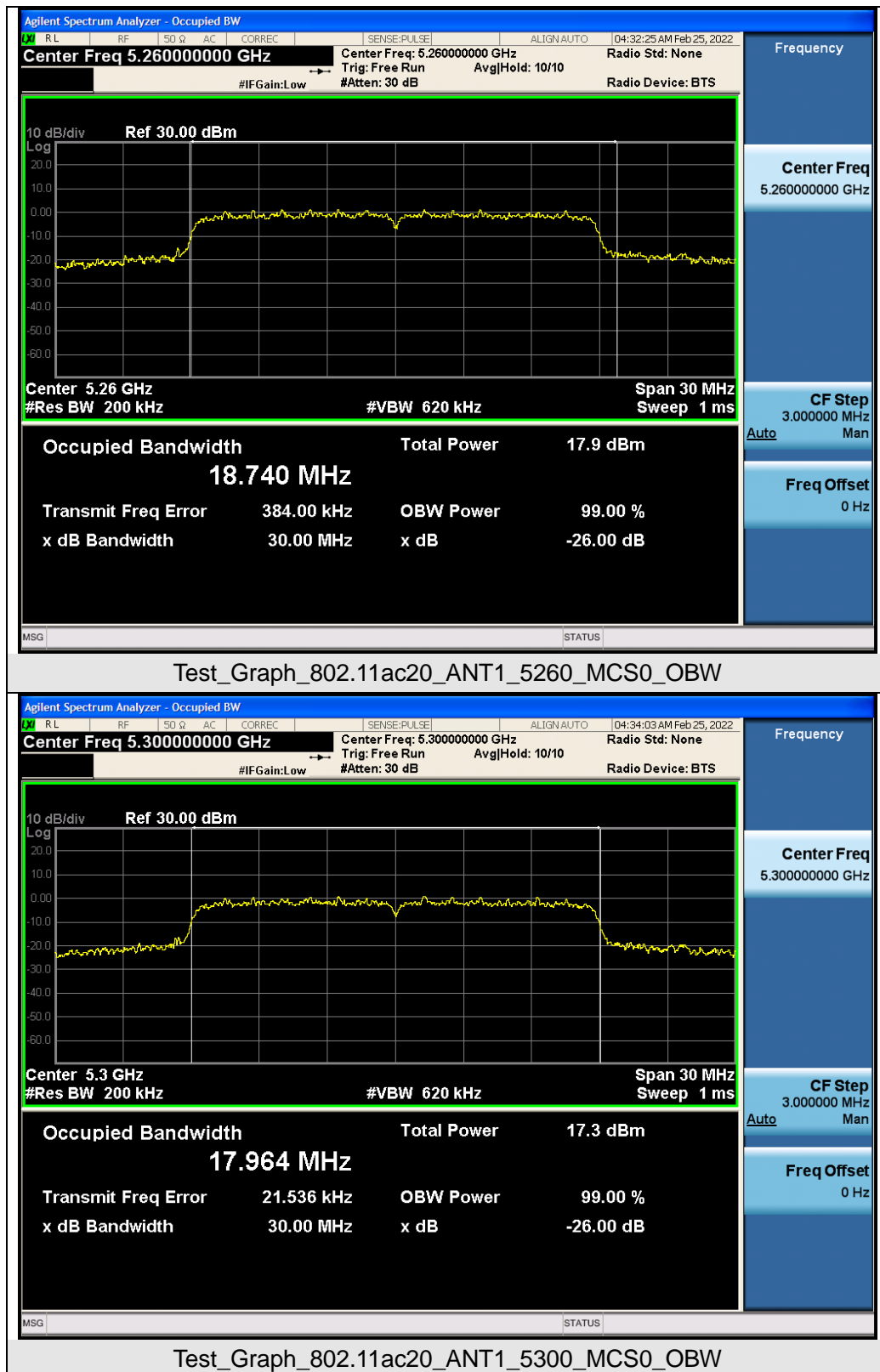
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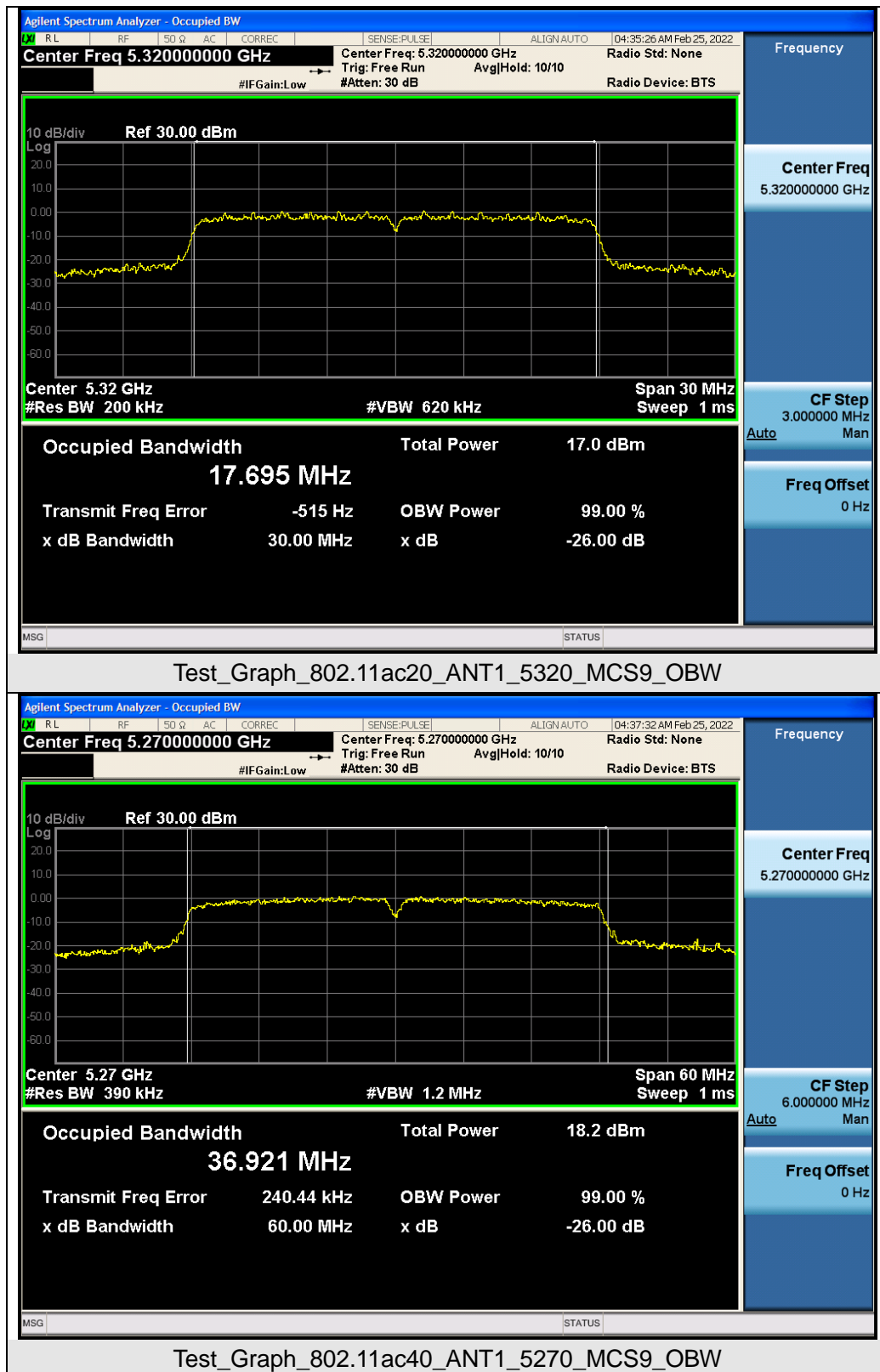
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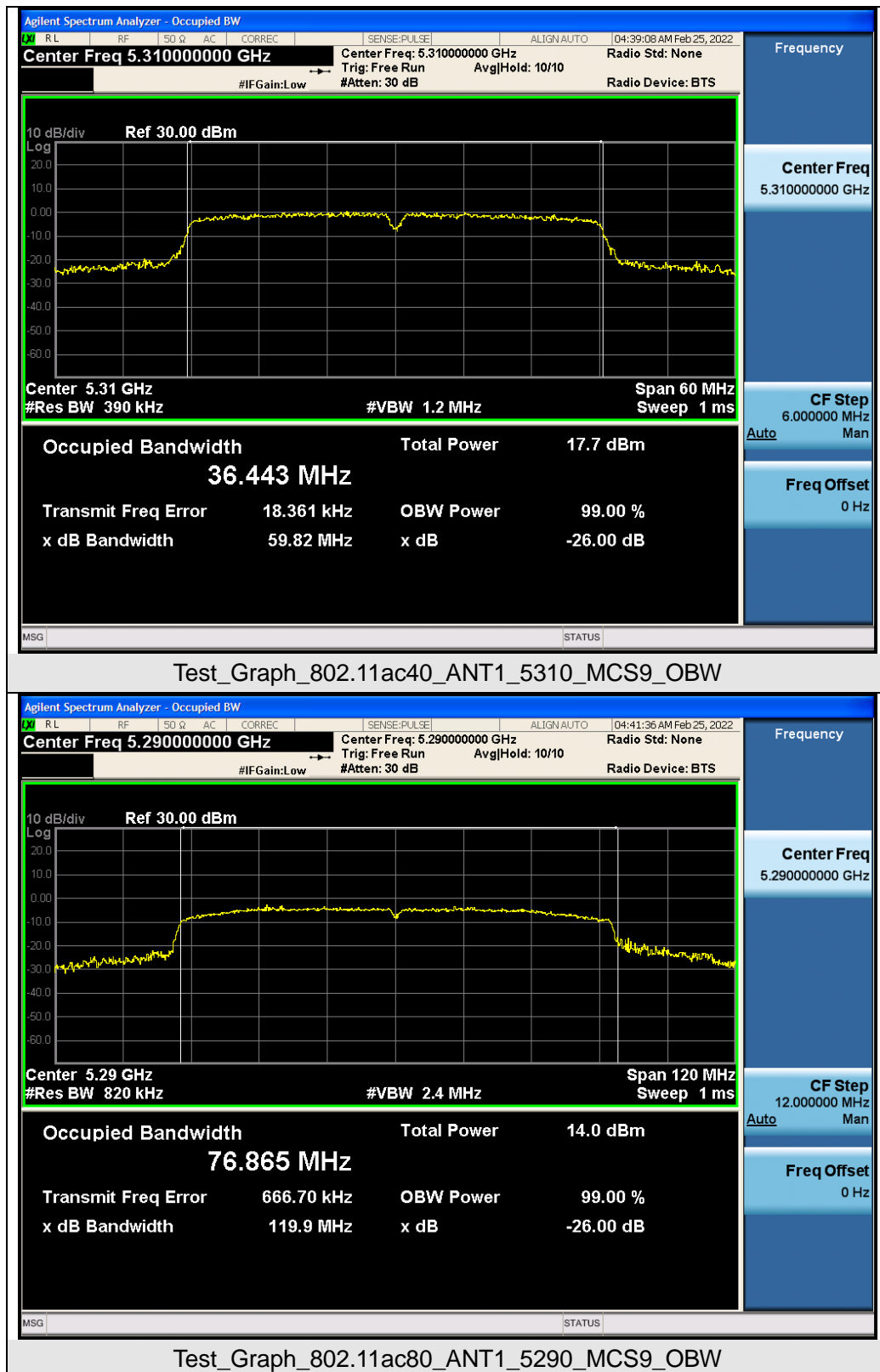


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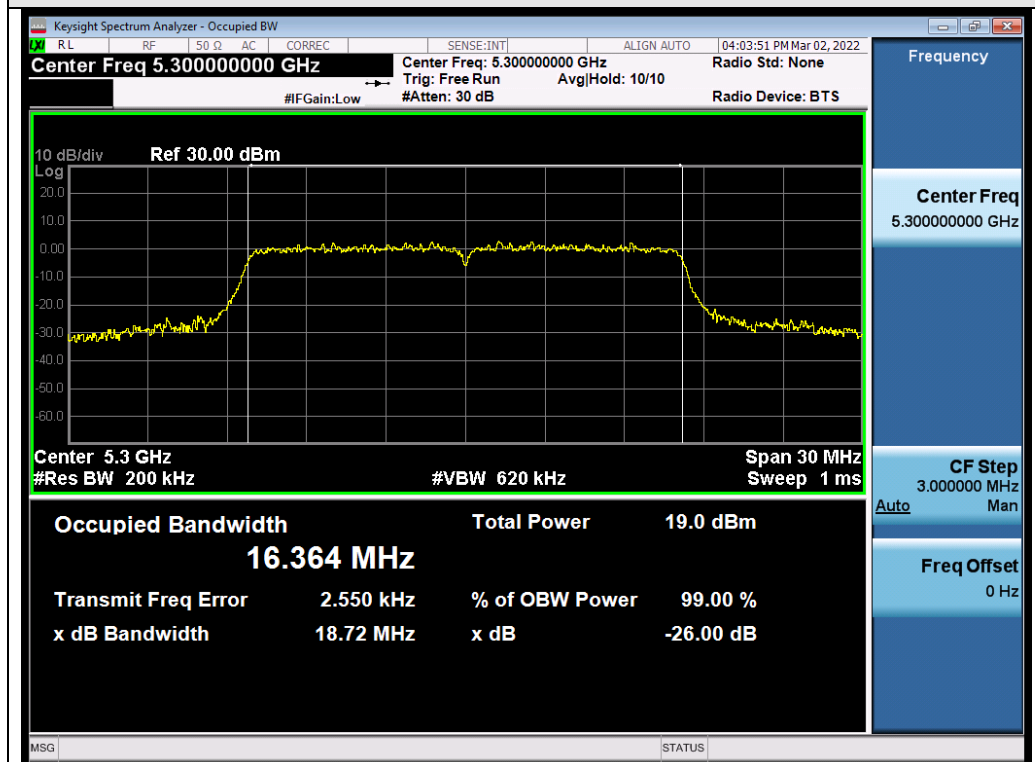
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Test\_Graph\_802.11a\_ANT2\_5260\_6Mbps\_OBW



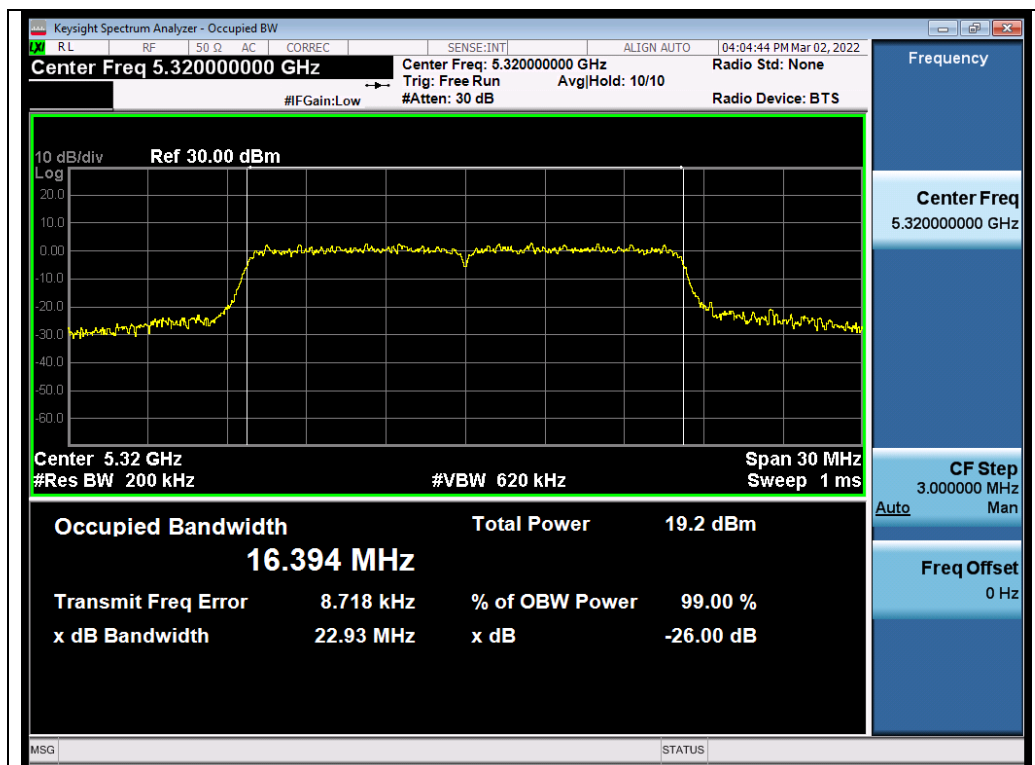
Test\_Graph\_802.11a\_ANT2\_5300\_6Mbps\_OBW

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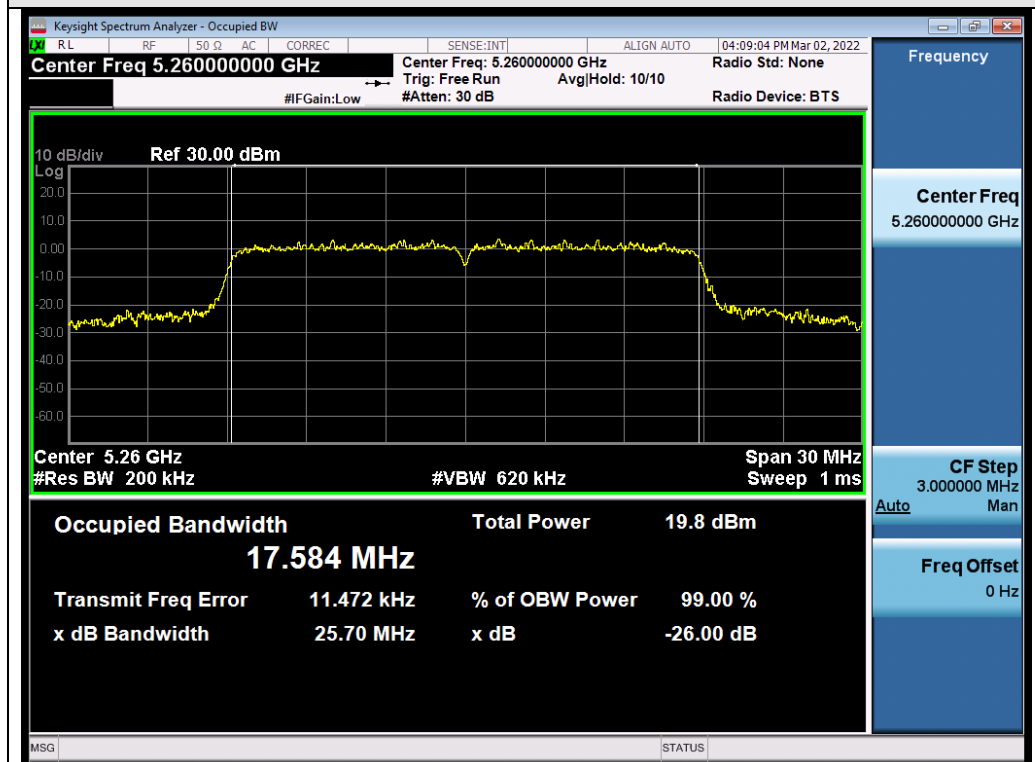
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Test\_Graph\_802.11a\_ANT2\_5320\_6Mbps\_OBW



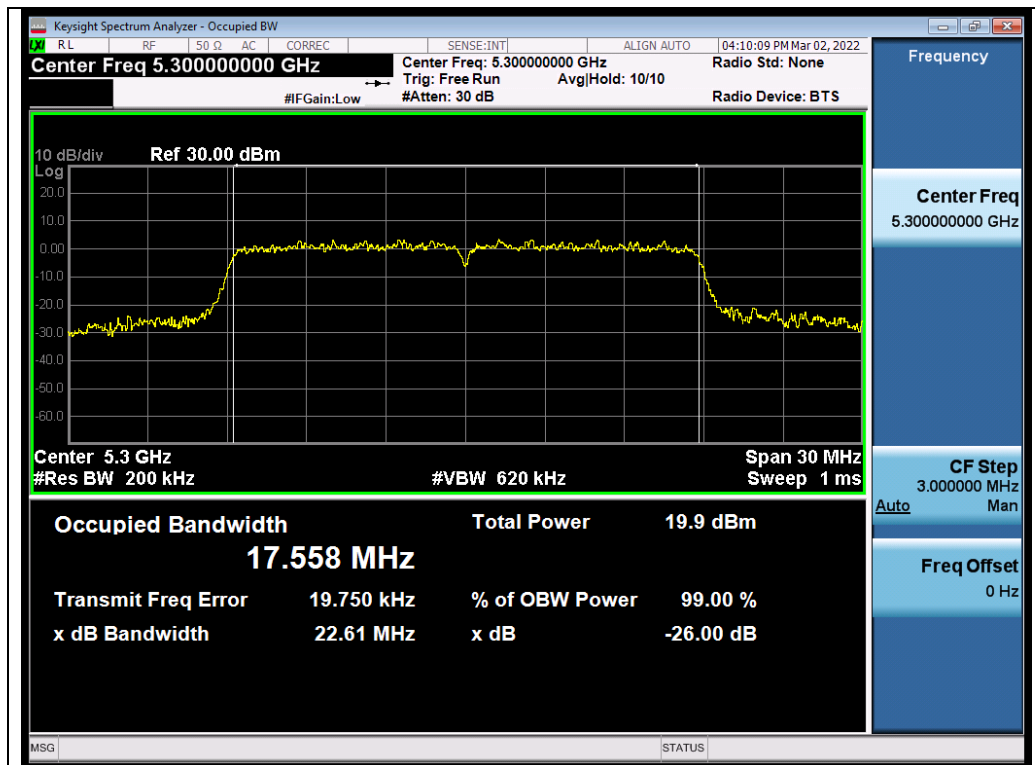
Test\_Graph\_802.11n20\_ANT2\_5260\_MCS0\_OBW

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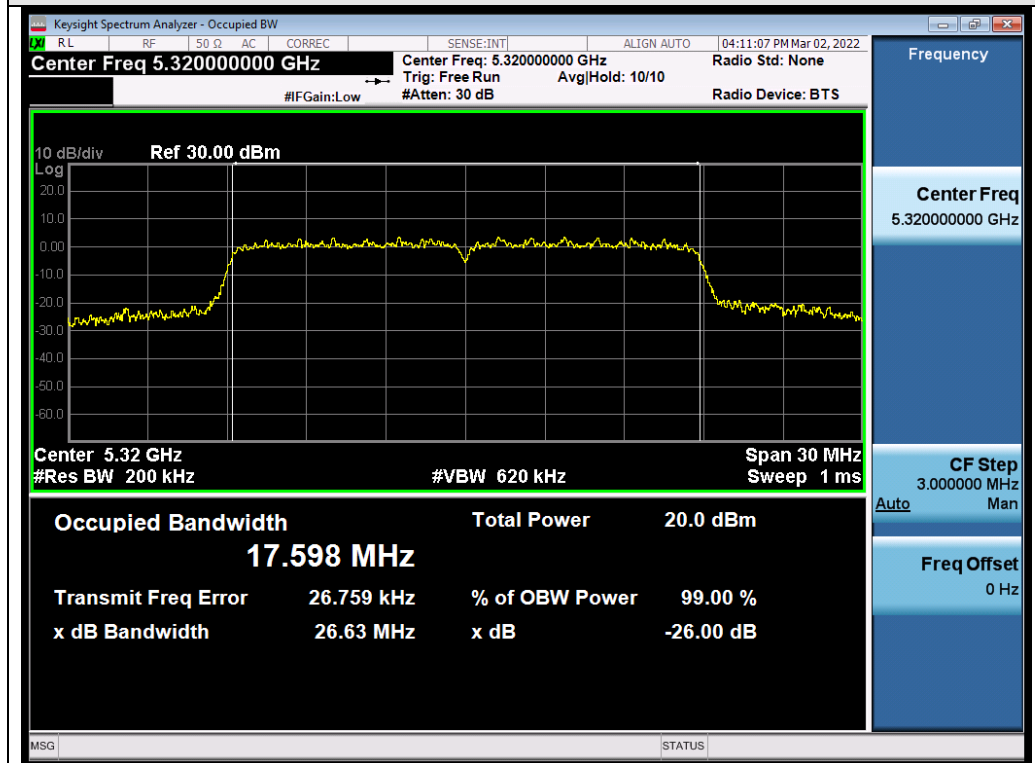
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Test\_Graph\_802.11n20\_ANT2\_5300\_MCS0\_OBW



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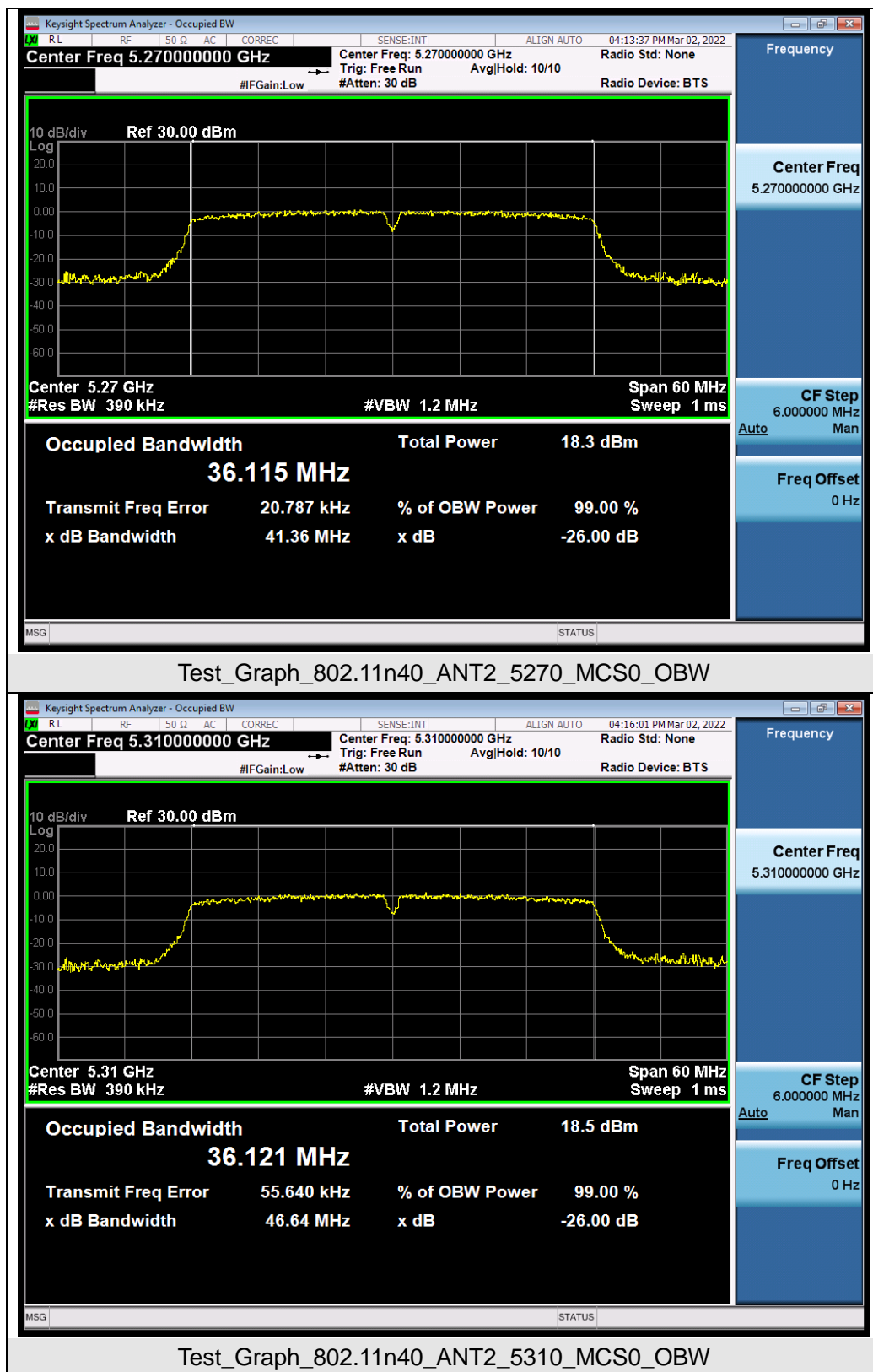
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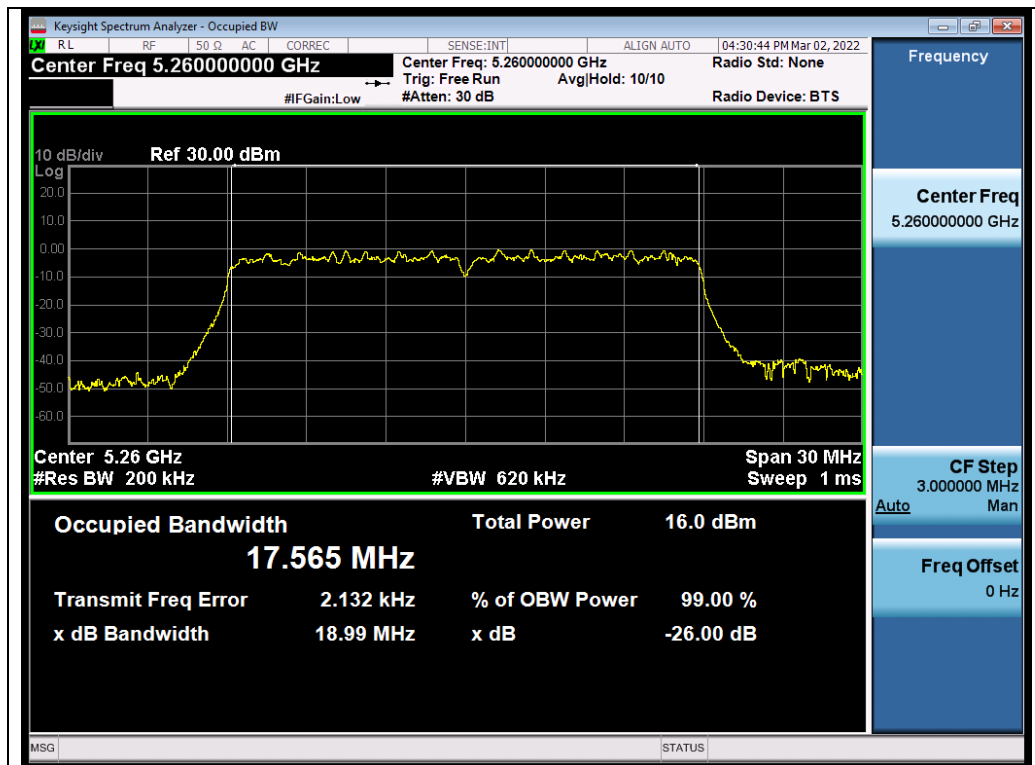
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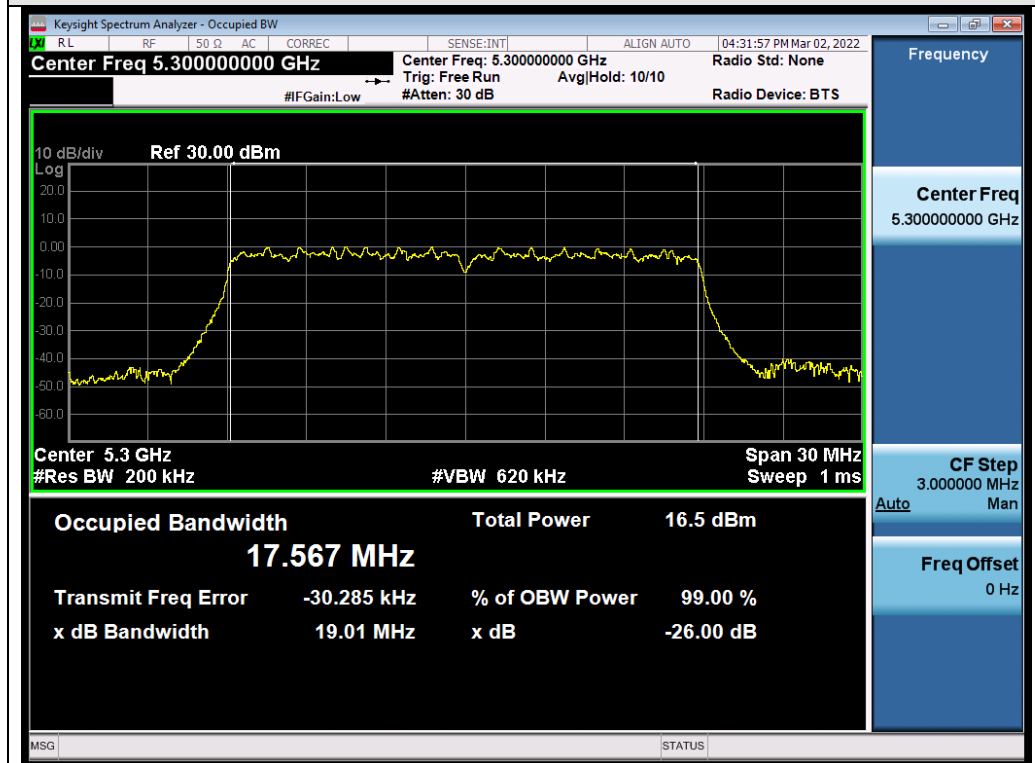


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Test\_Graph\_802.11ac20\_ANT2\_5260\_MCS0\_OBW



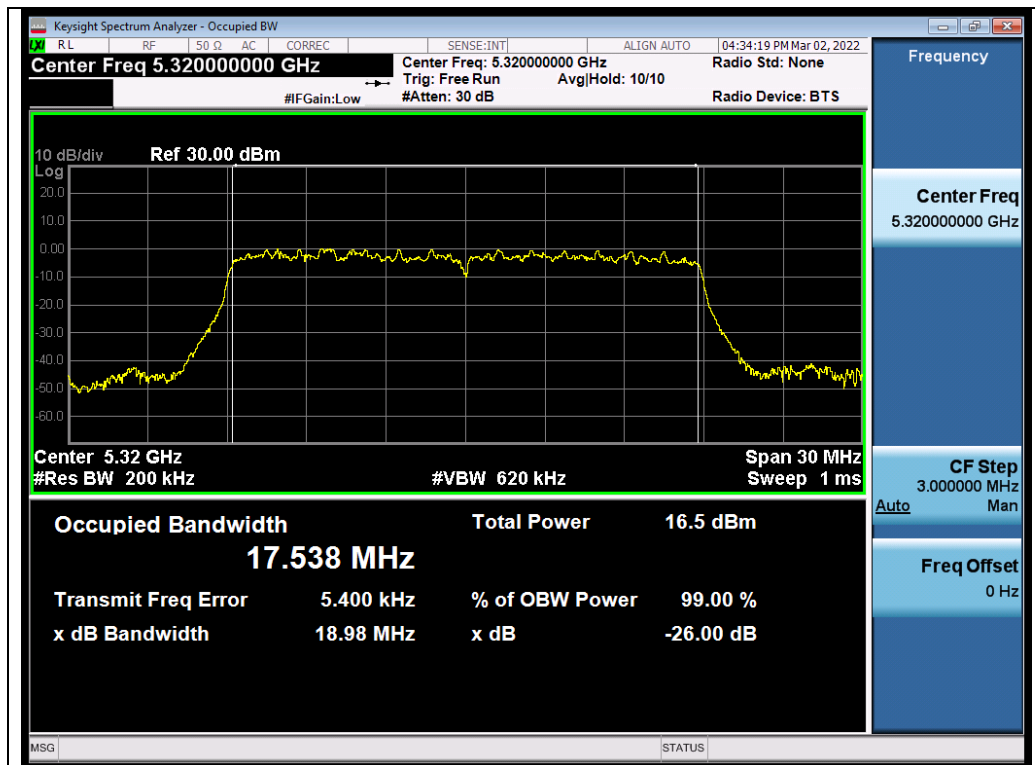
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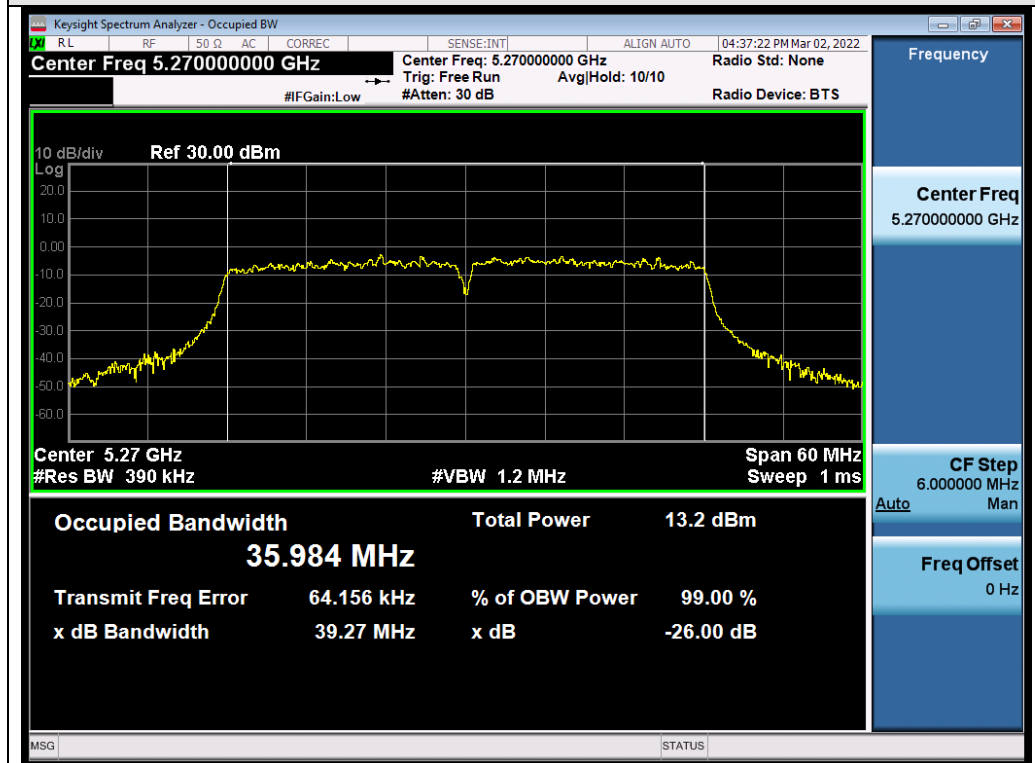
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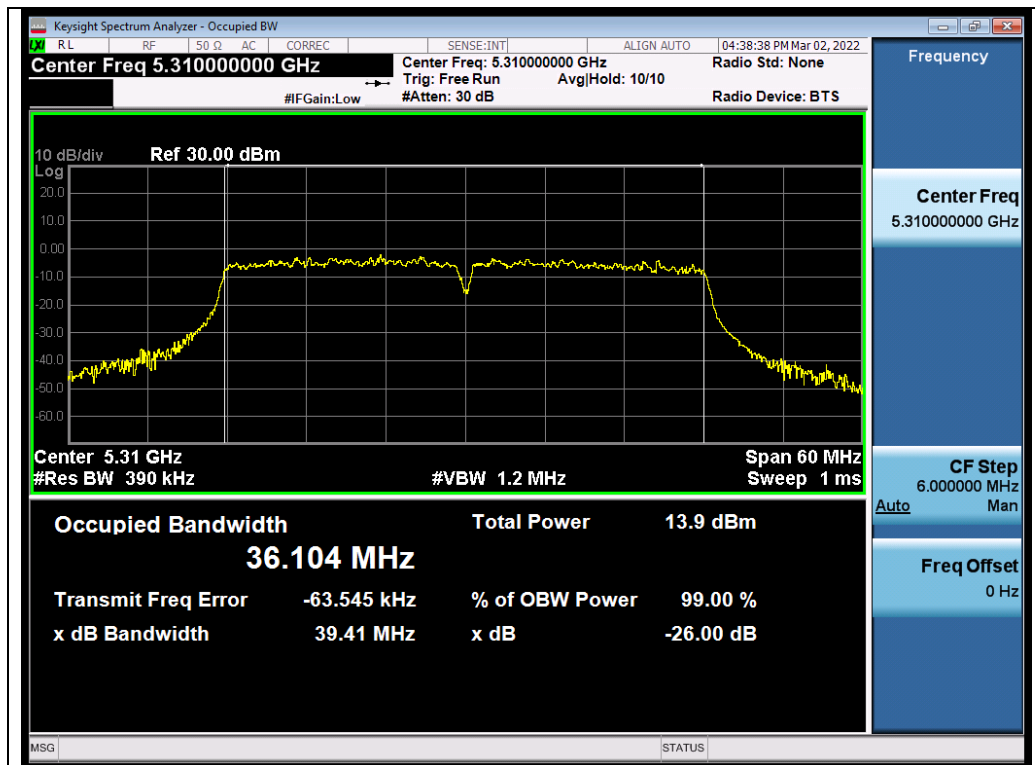


Test\_Graph\_802.11ac20\_ANT2\_5320\_MCS9\_OBW

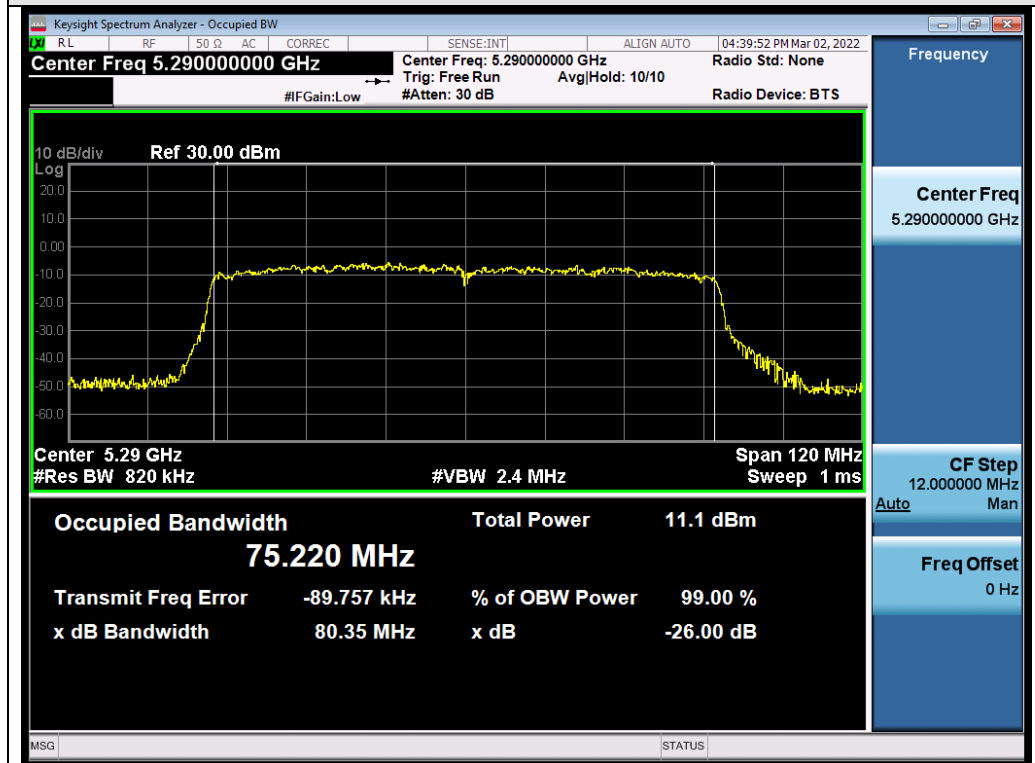


Test\_Graph\_802.11ac40\_ANT2\_5270\_MCS9\_OBW

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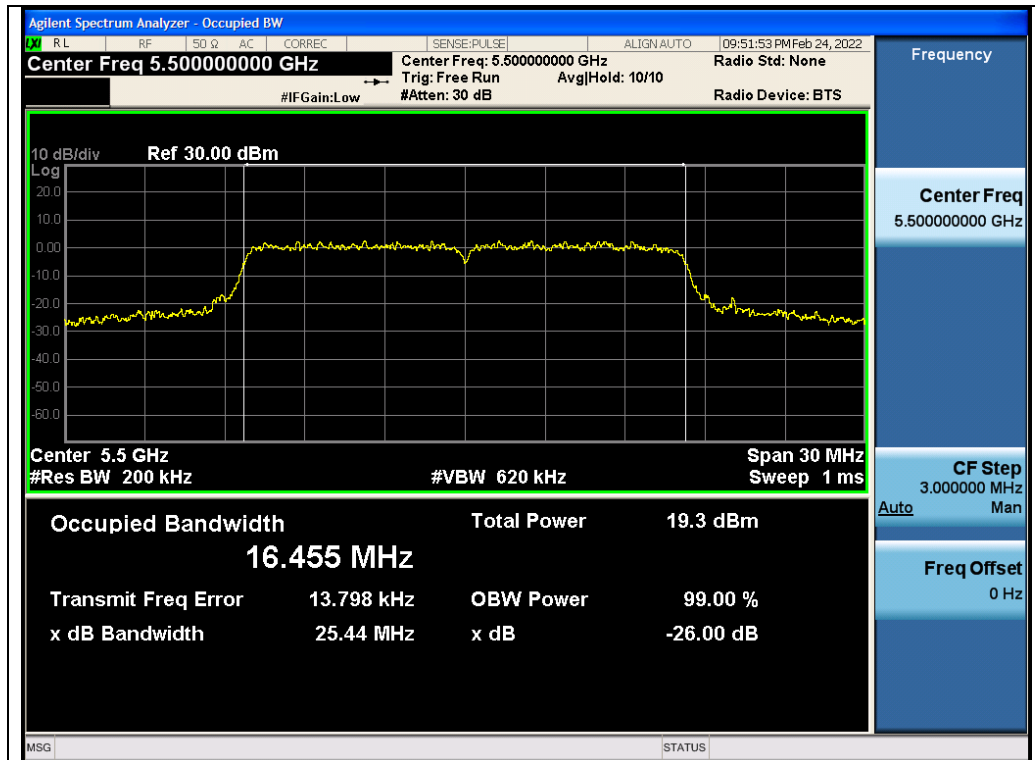
Test\_Graph\_802.11ac40\_ANT2\_5310\_MCS9\_OBW



Test\_Graph\_802.11ac80\_ANT2\_5290\_MCS9\_OBW

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

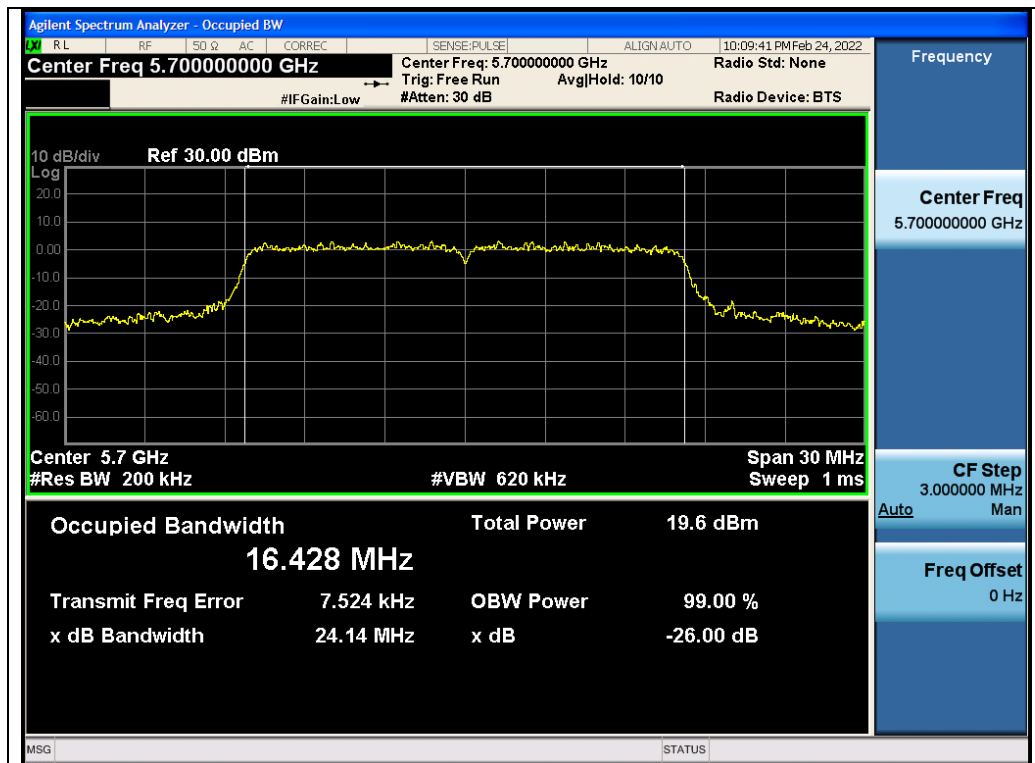


Test\_Graph\_802.11a\_ANT1\_5500\_6Mbps\_OBW

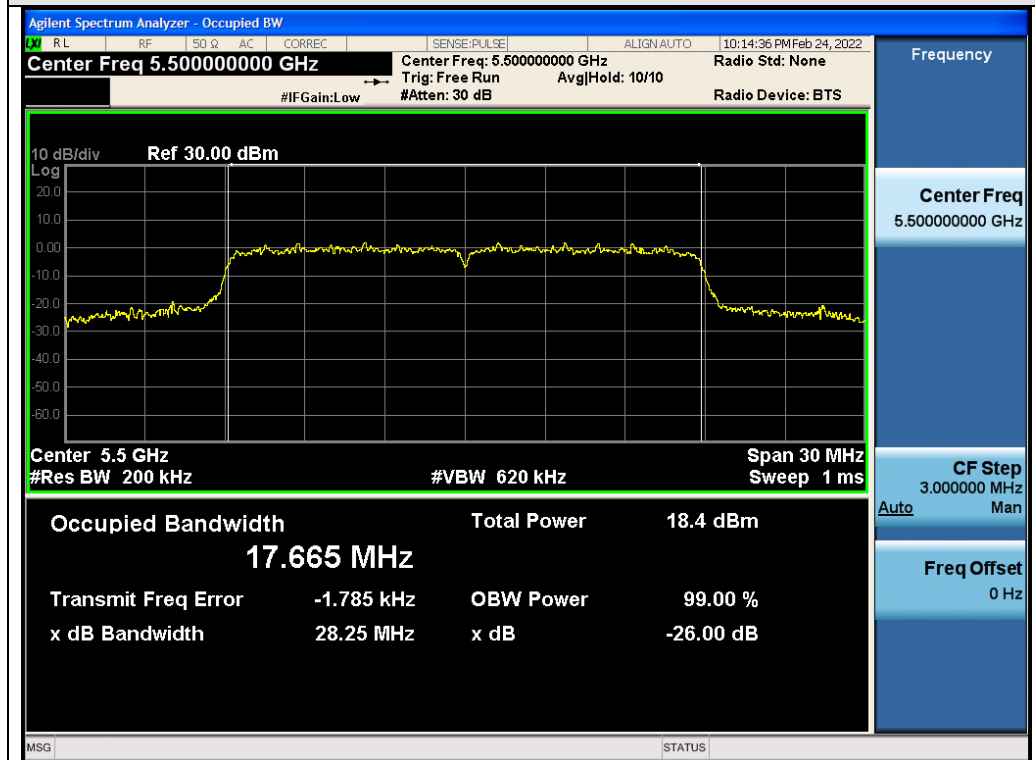


Test\_Graph\_802.11a\_ANT1\_5600\_6Mbps\_OBW

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



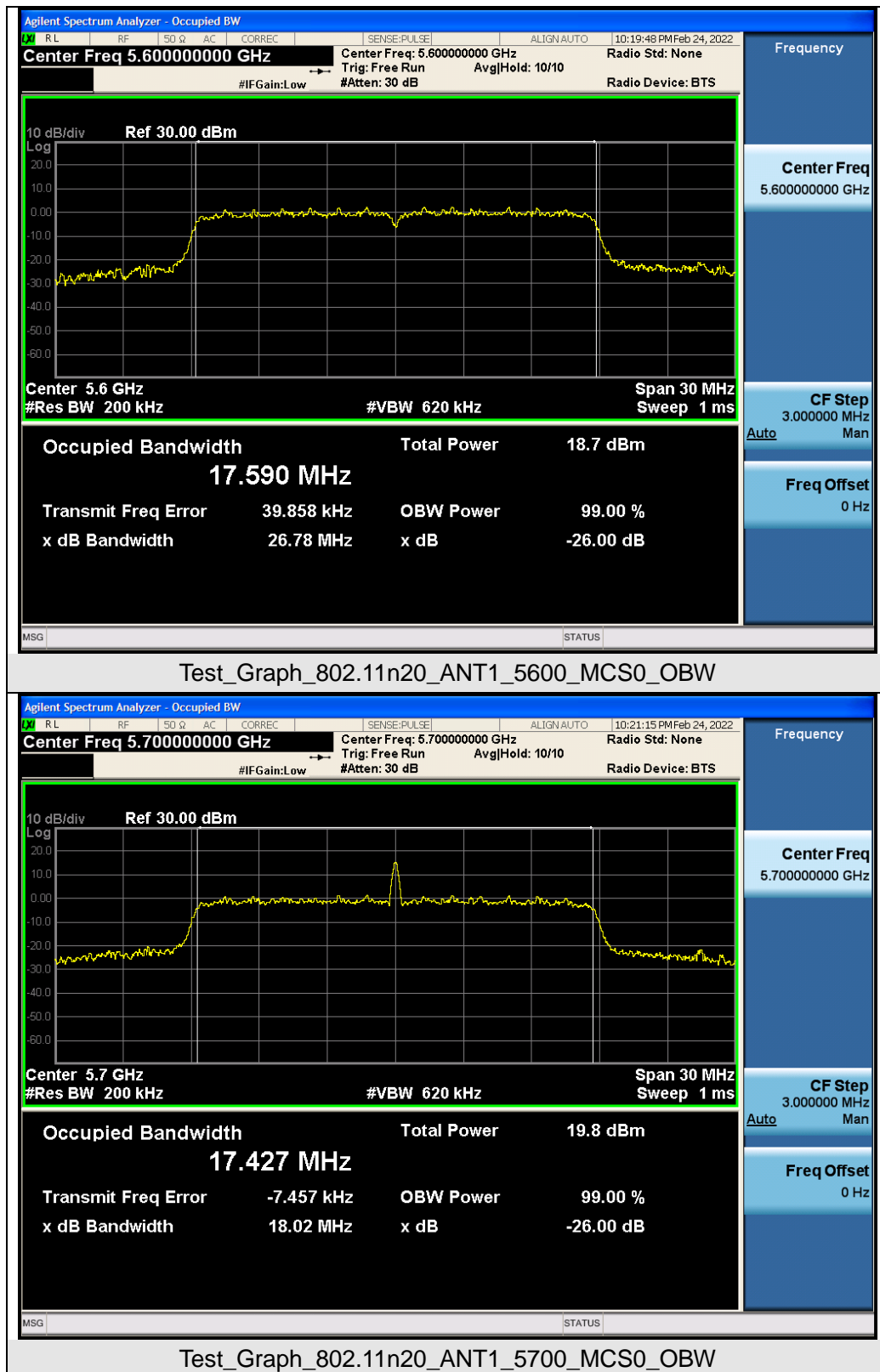
Test\_Graph\_802.11n20\_ANT1\_5500\_MCS0\_OBW

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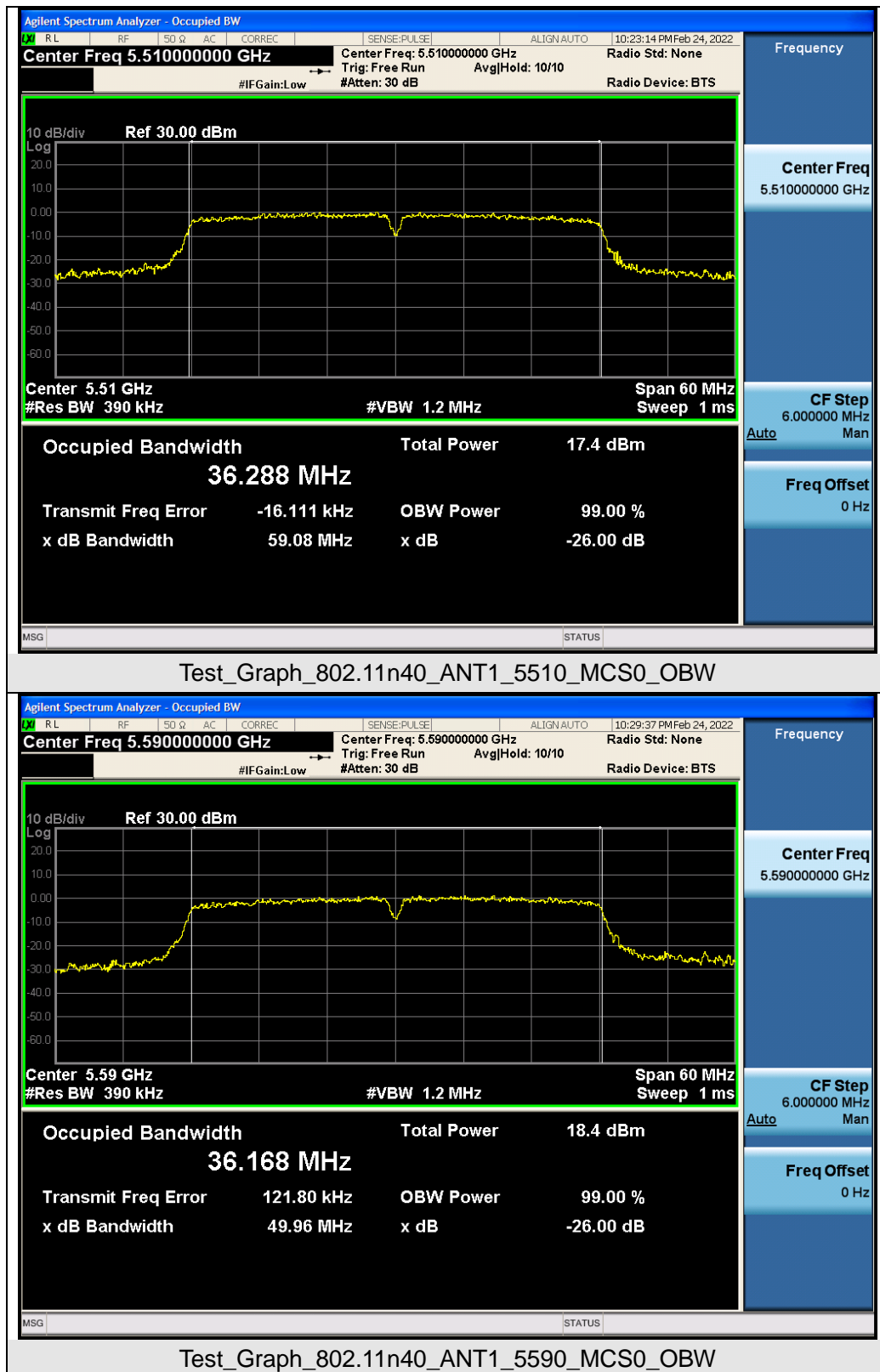
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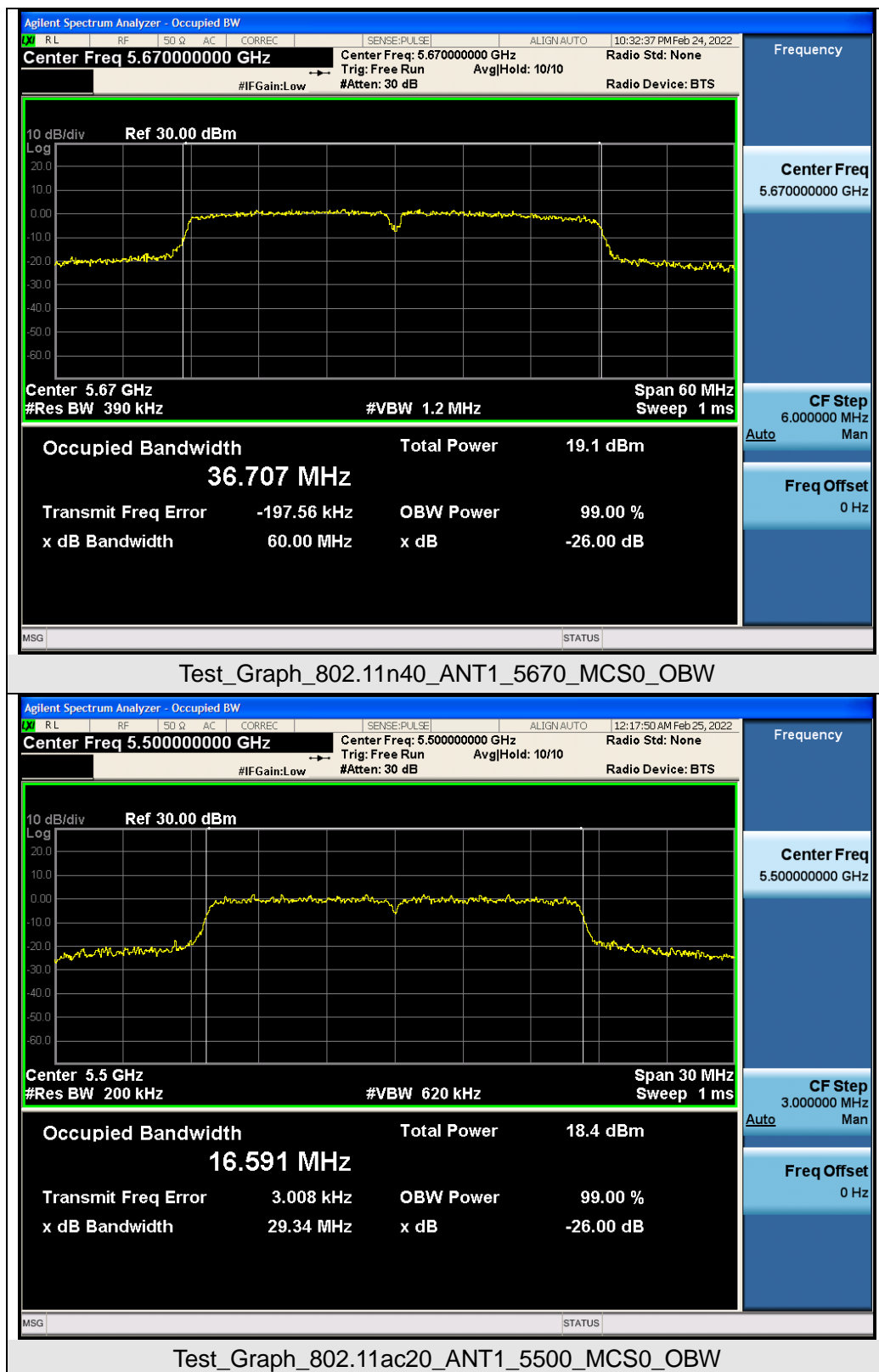
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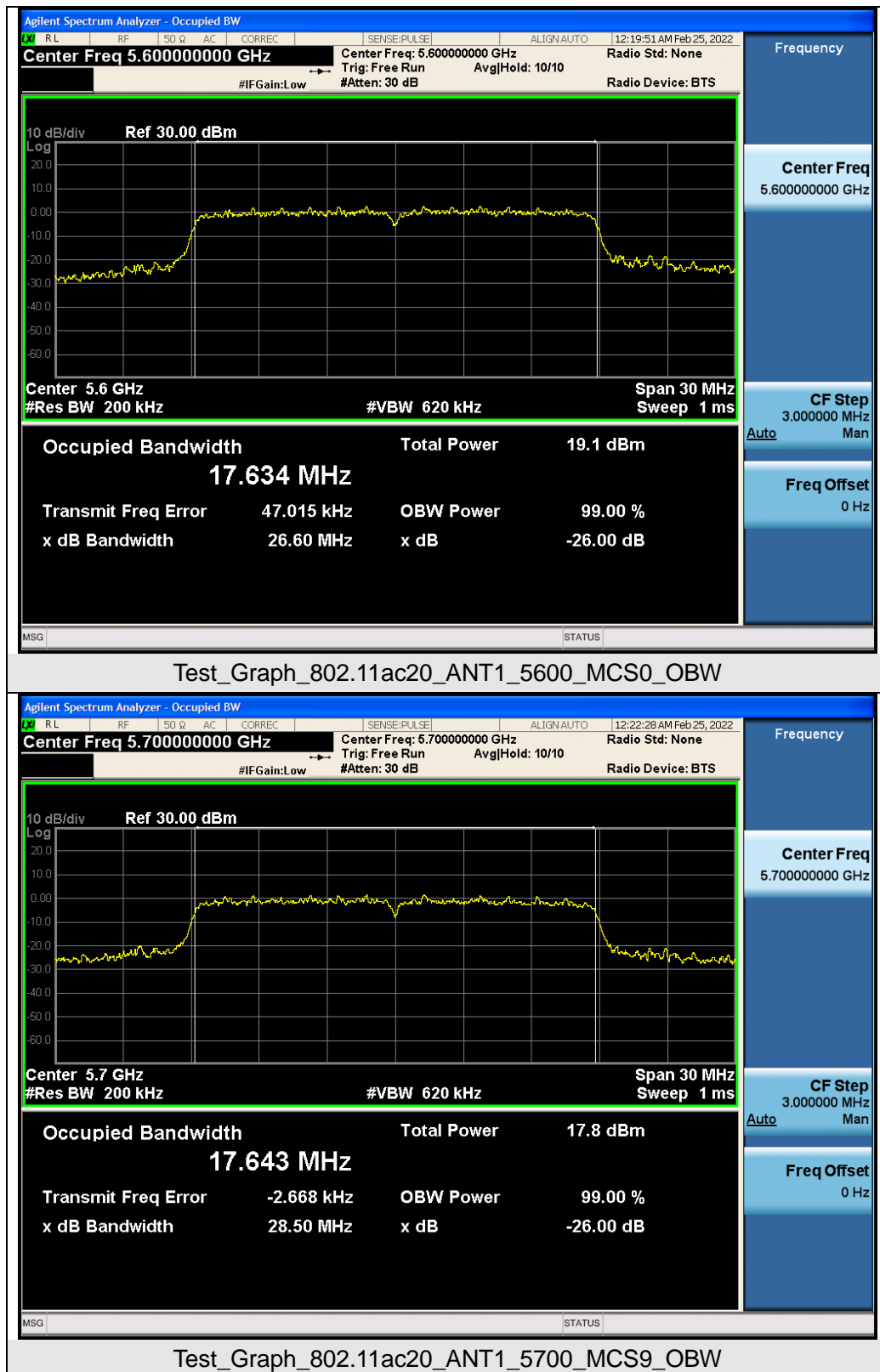


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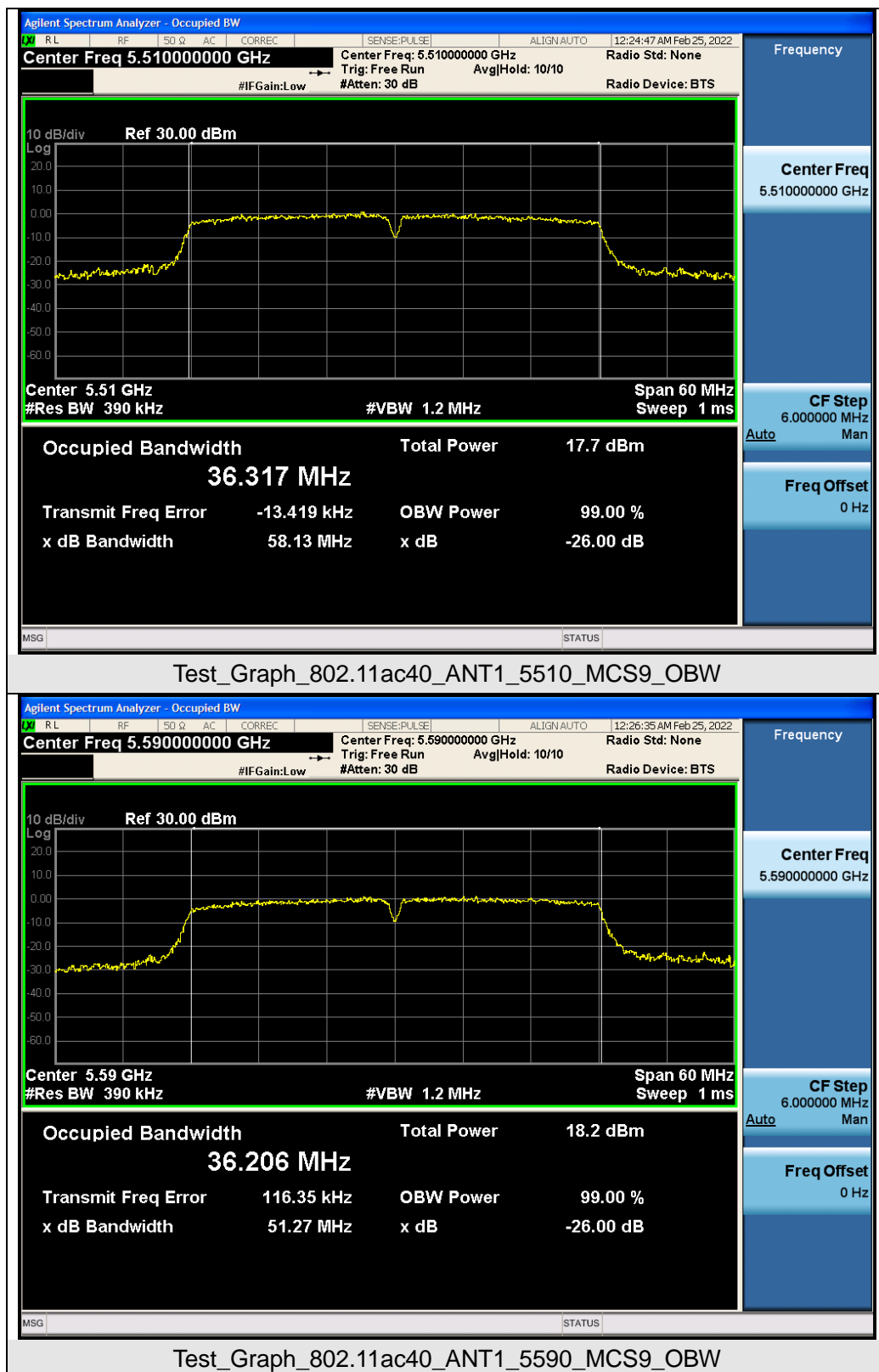




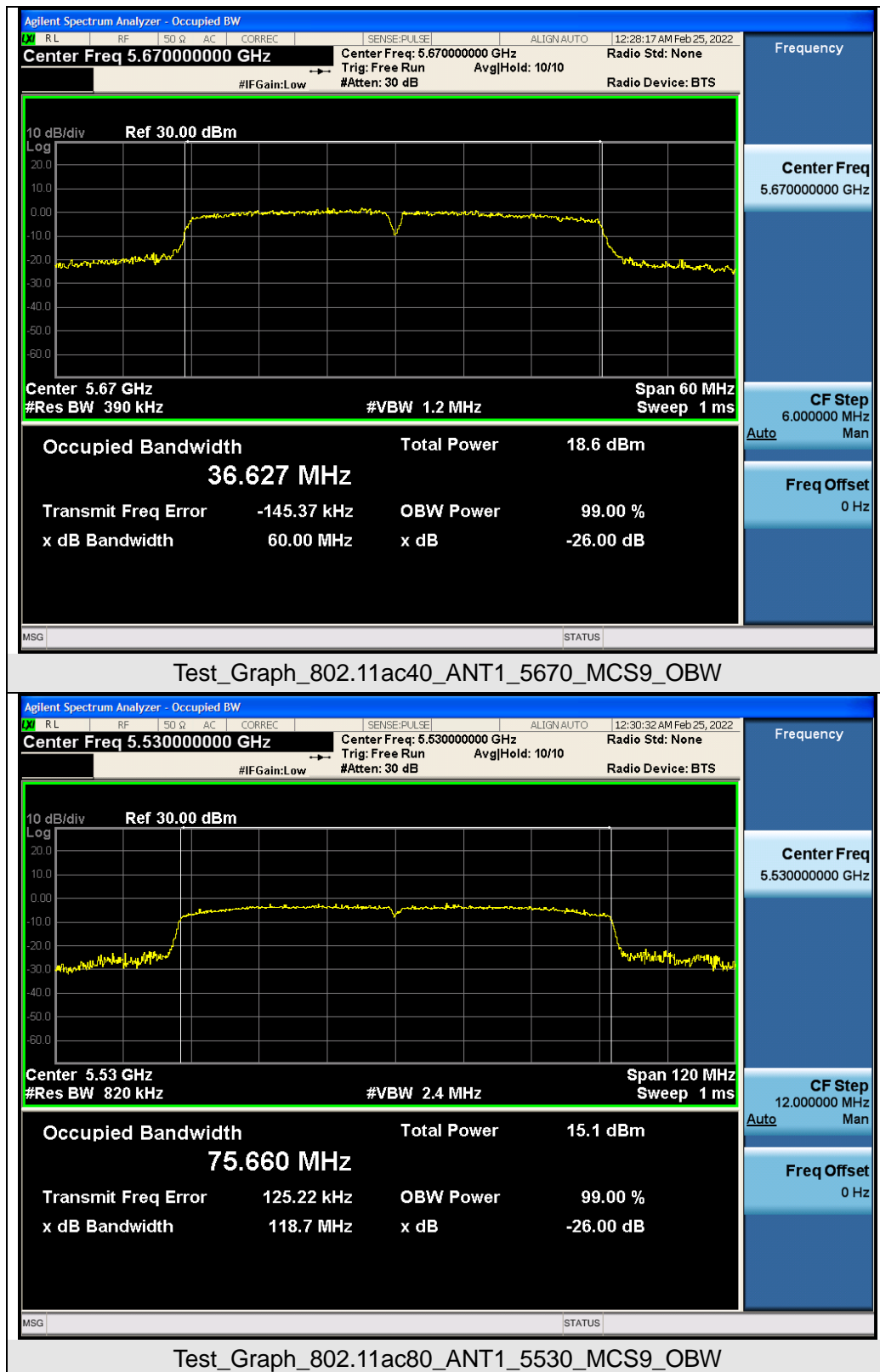
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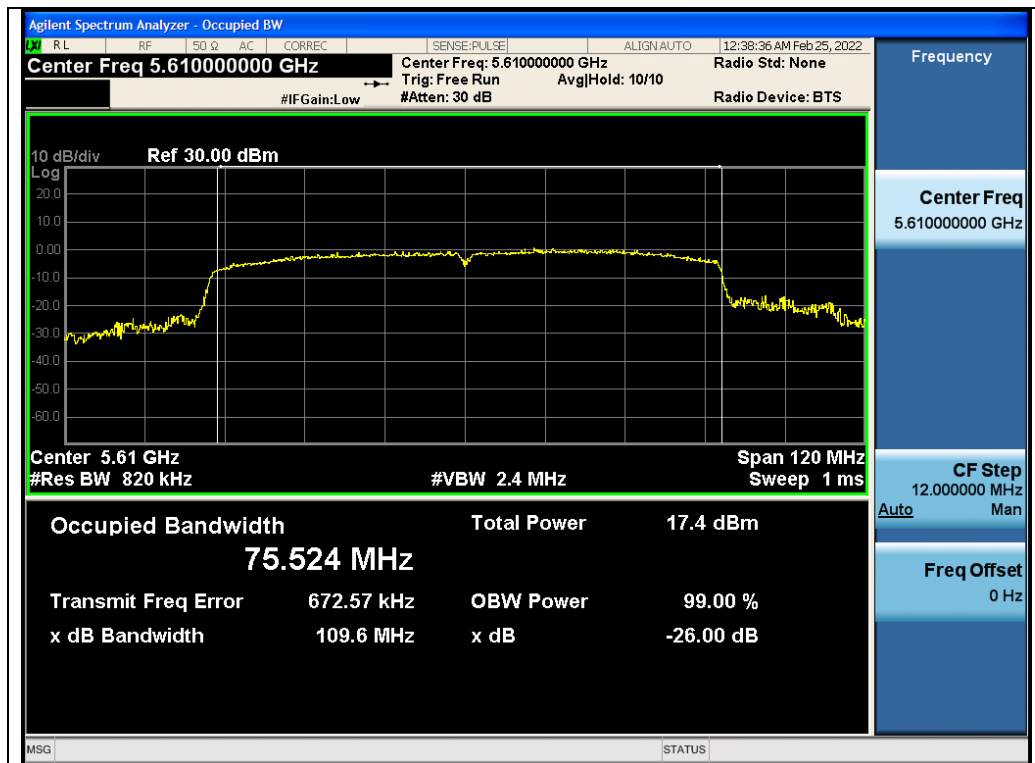
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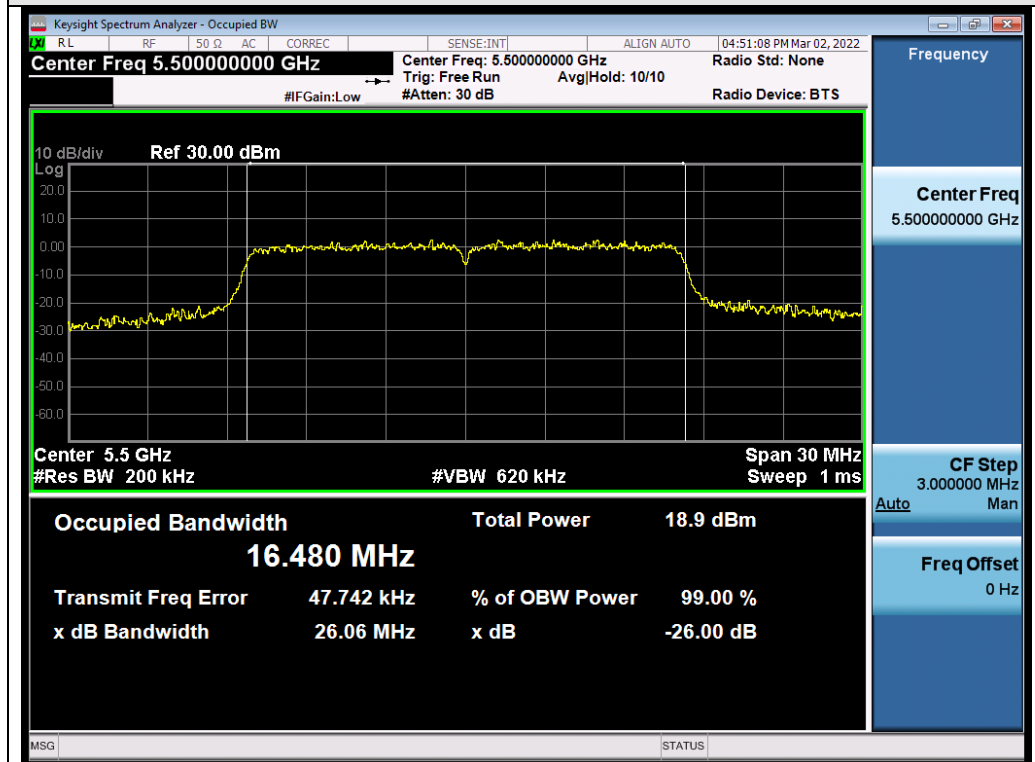
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Test\_Graph\_802.11ac80\_ANT1\_5610\_MCS9\_OBW



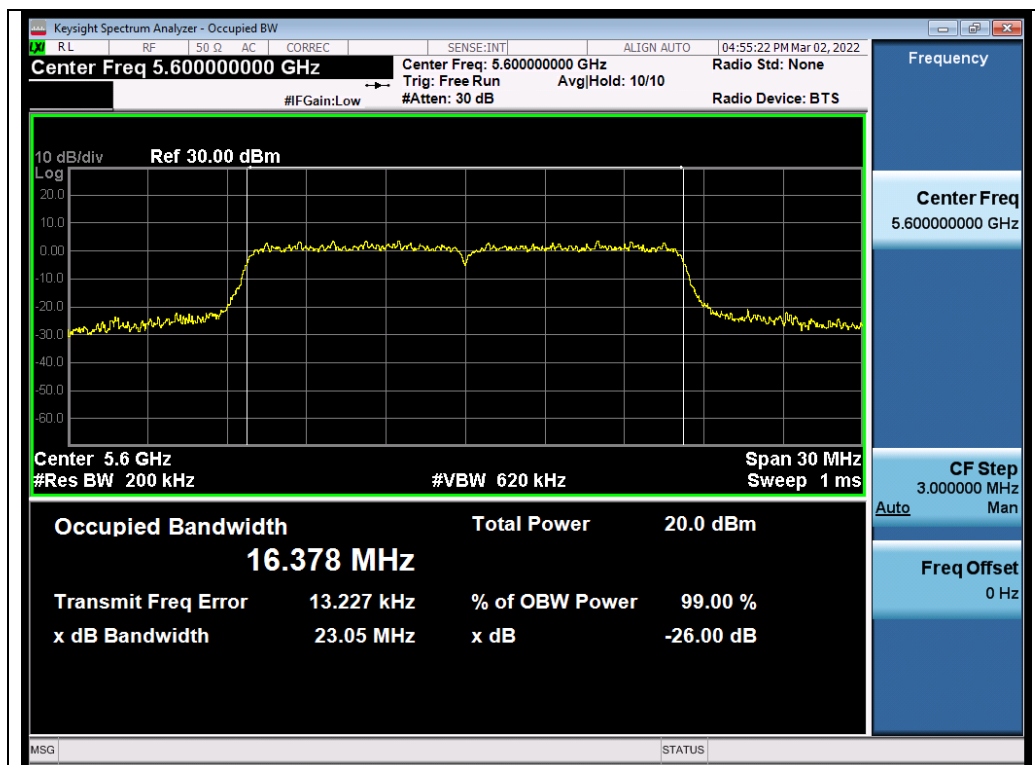
Test\_Graph\_802.11a\_ANT2\_5500\_6Mbps\_OBW

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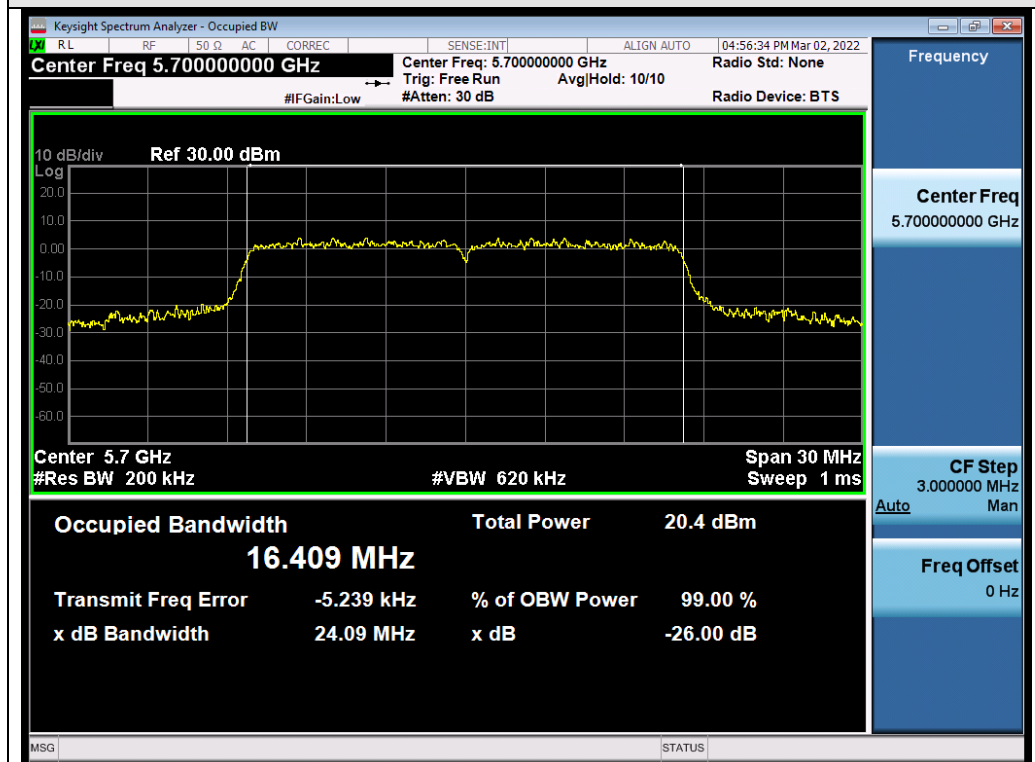
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Test\_Graph\_802.11a\_ANT2\_5700\_6Mbps\_OBW

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