

FCC Test Report

Report No.: AGC11034220105FE06

FCC ID : 2AYHE-2201D
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : WiFi IP Camera
BRAND NAME : Reolink
MODEL NAME : RLC-410W
APPLICANT : Reolink Innovation Limited
DATE OF ISSUE : Mar. 10, 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. 10, 2022	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Reolink Innovation Limited
Address	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
Manufacturer	Reolink Innovation Limited
Address	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
Factory	Shenzhen Reolink Technology Co., Ltd.
Address	2-4th Floor, Building 2, YuanLing Industrial Park, ShangWu, Shiyan Street, Bao'an District, Shenzhen, China
Product Designation	WiFi IP Camera
Brand Name	Reolink
Test Model	RLC-410W
Date of test	Feb. 17, 2022 to Mar. 10, 2022
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	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. 10, 2022
Reviewed By		
	Calvin Liu (Reviewer)	Mar. 10, 2022
Approved By		
	Max Zhang (Authorized Officer)	Mar. 10, 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

Equipment Type	☐ Outdoor access points ☐ Fixed P2P access points	☐ Indoor access points ☒ Client devices
Operation Frequency	☒ U-NII 1:5150MHz~5250MHz ☒ U-NII 2C:5470MHz~5725MHz	☒ U-NII 2A: 5250MHz~5350MHz ☒ U-NII 3: 5725MHz~5850MHz
DFS Design Type	☐ Master ☐ Slave with radar detection ☒ Slave without radar detection	
TPC Function	☐ Yes ☒ No	
Test Frequency Range:	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	
Output Power	IEEE 802.11a:14.09dBm; IEEE 802.11n-HT20:13.79dBm; IEEE 802.11n-HT40:13.31dBm; IEEE 802.11ac-VHT20:12.04dBm; IEEE 802.11ac-VHT40:12.63dBm; IEEE 802.11ac-VHT80:11.99dBm	
Output Power_MIMO	IEEE 802.11n(20):16.33dBm; IEEE802.11n(40):15.52dBm IEEE 802.11ac(20):14.56dBm; IEEE802.11ac(40):14.74dBm; IEEE802.11ac(80):14.26dBm	
Modulation	802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM	
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 400Mbps	
Number of channels	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	
Hardware Version	M30C01	
Software Version	802_22011303	
Antenna Designation	omnidirectional antenna Antenna (Comply with requirements of the FCC part 15.203)	
Number of transmit chain	2(802.11n/ac all used two antennas, but 802.11a support SISO and 802.11n/ac support MIMO)	
Antenna Gain	Refer to Chapter 2.8 of the report.	
Power Supply	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-2201D** 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 omnidirectional Antenna List (5GHz 2*2 MIMO)						
omnidirectional Antenna	5150 ~ 5250	2	20,40,80	2.55	2.55	5.56
	5250 ~ 5350	2	20,40,80	2.55	2.55	5.56
	5470 ~ 5725	2	20,40,80	2.55	2.55	5.56
	5725 ~ 5850	2	20,40,80	2.55	2.55	5.56

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 expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$
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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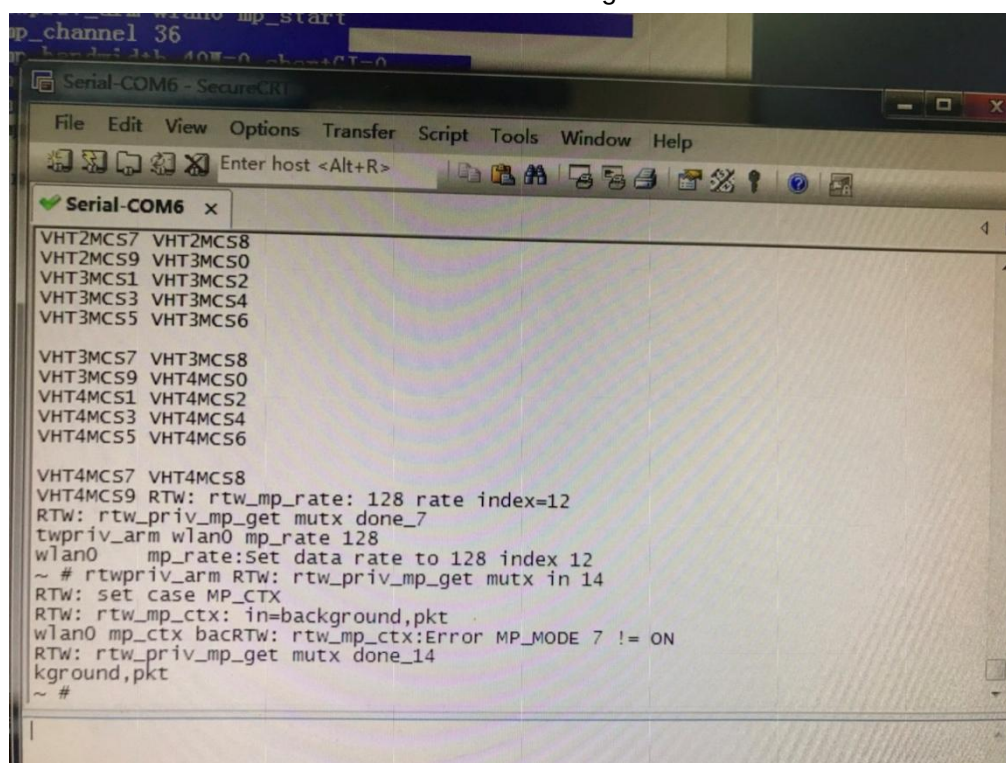
4. DESCRIPTION OF TEST MODES

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



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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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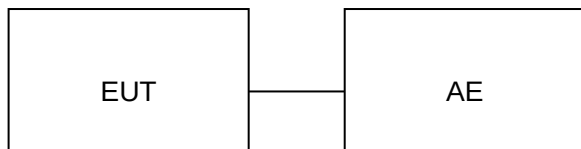
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5. SYSTEM TEST CONFIGURATION

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-410W	2AYHE-2201D	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

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

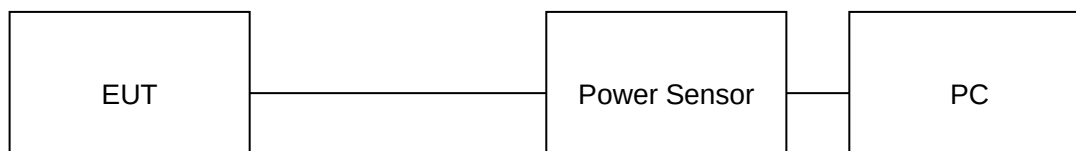
For average power test:

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



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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	13.36	24	Pass
	5200	12.91	24	Pass
	5240	13.28	24	Pass
802.11n20	5180	12.68	24	Pass
	5200	12.99	24	Pass
	5240	13.88	24	Pass
802.11n40	5190	11.67	24	Pass
	5230	12.75	24	Pass
802.11ac20	5180	10.77	24	Pass
	5200	10.80	24	Pass
	5240	11.73	24	Pass
802.11ac40	5190	10.86	24	Pass
	5230	11.85	24	Pass
802.11ac80	5210	11.32	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	12.25	24	Pass
	5200	12.84	24	Pass
	5240	12.74	24	Pass
802.11n20	5180	11.69	24	Pass
	5200	11.20	24	Pass
	5240	12.68	24	Pass
802.11n40	5190	10.92	24	Pass
	5230	11.78	24	Pass
802.11ac20	5180	10.87	24	Pass
	5200	10.42	24	Pass
	5240	11.12	24	Pass
802.11ac40	5190	10.46	24	Pass
	5230	10.51	24	Pass
802.11ac80	5210	10.72	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	15.22	24	Pass
	5200	15.20	24	Pass
	5240	16.33	24	Pass
802.11n40	5190	14.32	24	Pass
	5230	15.30	24	Pass
802.11ac20	5180	13.83	24	Pass
	5200	13.62	24	Pass
	5240	14.45	24	Pass
802.11ac40	5190	13.67	24	Pass
	5230	14.24	24	Pass
802.11ac80	5210	14.04	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	13.84	24	Pass
	5300	14.09	24	Pass
	5320	13.88	24	Pass
802.11n20	5260	13.24	24	Pass
	5300	13.69	24	Pass
	5320	13.06	24	Pass
802.11n40	5270	12.86	24	Pass
	5310	12.58	24	Pass
802.11ac20	5260	11.39	24	Pass
	5300	11.22	24	Pass
	5320	11.66	24	Pass
802.11ac40	5270	12.22	24	Pass
	5310	10.63	24	Pass
802.11ac80	5290	10.51	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	12.69	24	Pass
	5300	13.07	24	Pass
	5320	12.47	24	Pass
802.11n20	5260	12.40	24	Pass
	5300	11.27	24	Pass
	5320	11.73	24	Pass
802.11n40	5270	11.45	24	Pass
	5310	11.53	24	Pass
802.11ac20	5260	10.26	24	Pass
	5300	10.26	24	Pass
	5320	11.22	24	Pass
802.11ac40	5270	11.18	24	Pass
	5310	10.15	24	Pass
802.11ac80	5290	10.44	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	15.85	24	Pass
	5300	15.66	24	Pass
	5320	15.46	24	Pass
802.11n40	5270	15.22	24	Pass
	5310	15.10	24	Pass
802.11ac20	5260	13.87	24	Pass
	5300	13.78	24	Pass
	5320	14.46	24	Pass
802.11ac40	5270	14.74	24	Pass
	5310	13.41	24	Pass
802.11ac80	5290	13.49	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	13.18	24	Pass
	5600	12.39	24	Pass
	5700	12.93	24	Pass
802.11n20	5500	13.79	24	Pass
	5600	12.25	24	Pass
	5700	12.54	24	Pass
802.11n40	5510	13.31	24	Pass
	5590	11.69	24	Pass
	5670	11.06	24	Pass
802.11ac20	5500	10.51	24	Pass
	5600	12.04	24	Pass
	5700	11.70	24	Pass
802.11ac40	5510	10.59	24	Pass
	5590	10.63	24	Pass
	5670	12.13	24	Pass
802.11ac80	5530	11.74	24	Pass
	5610	11.99	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	12.13	24	Pass
	5600	11.74	24	Pass
	5700	11.44	24	Pass
802.11n20	5500	11.11	24	Pass
	5600	11.47	24	Pass
	5700	11.08	24	Pass
802.11n40	5510	11.53	24	Pass
	5590	11.57	24	Pass
	5670	11.43	24	Pass
802.11ac20	5500	10.26	24	Pass
	5600	10.99	24	Pass
	5700	10.76	24	Pass
802.11ac40	5510	10.32	24	Pass
	5590	10.54	24	Pass
	5670	10.84	24	Pass
802.11ac80	5530	10.55	24	Pass
	5610	10.36	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	15.66	24	Pass
	5600	14.89	24	Pass
	5700	14.88	24	Pass
802.11n40	5510	15.52	24	Pass
	5590	14.64	24	Pass
	5670	14.26	24	Pass
802.11ac20	5500	13.40	24	Pass
	5600	14.56	24	Pass
	5700	14.27	24	Pass
802.11ac40	5510	13.47	24	Pass
	5590	13.60	24	Pass
	5670	14.54	24	Pass
802.11ac80	5530	14.20	24	Pass
	5610	14.26	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	12.99	30	Pass
	5785	11.87	30	Pass
	5825	11.80	30	Pass
802.11n20	5745	12.99	30	Pass
	5785	12.04	30	Pass
	5825	12.15	30	Pass
802.11n40	5755	12.81	30	Pass
	5795	12.16	30	Pass
802.11ac20	5745	10.65	30	Pass
	5785	11.98	30	Pass
	5825	11.74	30	Pass
802.11ac40	5755	12.63	30	Pass
	5795	10.15	30	Pass
802.11ac80	5775	10.31	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	12.63	30	Pass
	5785	12.29	30	Pass
	5825	11.64	30	Pass
802.11n20	5745	12.10	30	Pass
	5785	11.85	30	Pass
	5825	11.57	30	Pass
802.11n40	5755	11.55	30	Pass
	5795	11.47	30	Pass
802.11ac20	5745	10.65	30	Pass
	5785	10.16	30	Pass
	5825	10.44	30	Pass
802.11ac40	5755	10.25	30	Pass
	5795	10.34	30	Pass
802.11ac80	5775	11.11	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	15.58	30	Pass
	5785	14.96	30	Pass
	5825	14.88	30	Pass
802.11n40	5755	15.24	30	Pass
	5795	14.84	30	Pass
802.11ac20	5745	13.66	30	Pass
	5785	14.17	30	Pass
	5825	14.15	30	Pass
802.11ac40	5755	14.61	30	Pass
	5795	13.26	30	Pass
802.11ac80	5775	13.74	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 $\geq 3 \times \text{RBW}$. 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.

99% occupied bandwidth:

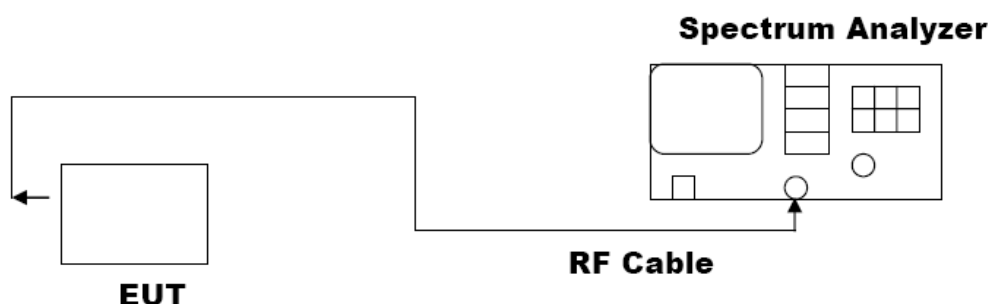
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall 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 $> \text{RBW}$.
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	16.319	18.35	N/A	Pass
	5200	16.323	18.29	N/A	Pass
	5240	16.321	18.27	N/A	Pass
802.11n20	5180	17.519	19.29	N/A	Pass
	5200	17.513	19.22	N/A	Pass
	5240	17.516	19.33	N/A	Pass
802.11n40	5190	36.040	41.18	N/A	Pass
	5230	36.047	41.11	N/A	Pass
802.11ac20	5180	17.594	19.15	N/A	Pass
	5200	17.586	19.18	N/A	Pass
	5240	17.576	19.16	N/A	Pass
802.11ac40	5190	36.103	39.99	N/A	Pass
	5230	36.106	39.61	N/A	Pass
802.11ac80	5210	75.475	80.31	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	16.336	18.37	N/A	Pass
	5200	16.337	18.40	N/A	Pass
	5240	16.344	18.35	N/A	Pass
802.11n20	5180	17.506	19.33	N/A	Pass
	5200	17.508	19.28	N/A	Pass
	5240	17.517	19.35	N/A	Pass
802.11n40	5190	36.041	40.68	N/A	Pass
	5230	36.005	40.27	N/A	Pass
802.11ac20	5180	17.580	19.23	N/A	Pass
	5200	17.584	19.23	N/A	Pass
	5240	17.575	19.21	N/A	Pass
802.11ac40	5190	36.170	40.15	N/A	Pass
	5230	36.159	40.20	N/A	Pass
802.11ac80	5210	75.742	80.94	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	16.318	18.24	N/A	Pass
	5300	16.326	18.33	N/A	Pass
	5320	16.324	18.40	N/A	Pass
802.11n20	5260	17.509	19.26	N/A	Pass
	5300	17.514	19.23	N/A	Pass
	5320	17.512	19.25	N/A	Pass
802.11n40	5270	36.059	40.93	N/A	Pass
	5310	36.053	40.91	N/A	Pass
802.11ac20	5260	17.615	19.25	N/A	Pass
	5300	17.604	19.22	N/A	Pass
	5320	17.604	19.23	N/A	Pass
802.11ac40	5270	36.110	39.54	N/A	Pass
	5310	36.155	39.71	N/A	Pass
802.11ac80	5290	75.469	80.54	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	16.330	18.47	N/A	Pass
	5300	16.348	18.27	N/A	Pass
	5320	16.335	18.52	N/A	Pass
802.11n20	5260	17.521	19.29	N/A	Pass
	5300	17.513	19.33	N/A	Pass
	5320	17.517	19.37	N/A	Pass
802.11n40	5270	35.982	40.94	N/A	Pass
	5310	36.028	41.11	N/A	Pass
802.11ac20	5260	17.564	19.04	N/A	Pass
	5300	17.566	19.07	N/A	Pass
	5320	17.570	18.98	N/A	Pass
802.11ac40	5270	36.063	39.86	N/A	Pass
	5310	35.999	39.89	N/A	Pass
802.11ac80	5290	75.309	80.51	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	16.341	18.32	N/A	Pass
	5600	16.345	18.50	N/A	Pass
	5700	16.335	18.35	N/A	Pass
802.11n20	5500	17.509	19.22	N/A	Pass
	5600	17.519	19.36	N/A	Pass
	5700	17.509	19.31	N/A	Pass
802.11n40	5510	36.062	41.06	N/A	Pass
	5590	36.047	40.63	N/A	Pass
	5670	36.028	40.34	N/A	Pass
802.11ac20	5500	17.571	19.09	N/A	Pass
	5600	17.557	19.08	N/A	Pass
	5700	17.574	19.11	N/A	Pass
802.11ac40	5510	36.087	39.88	N/A	Pass
	5590	36.084	39.95	N/A	Pass
	5670	36.033	39.85	N/A	Pass
802.11ac80	5530	75.498	80.42	N/A	Pass
	5610	75.067	79.83	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	16.347	18.50	N/A	Pass
	5600	16.329	18.35	N/A	Pass
	5700	16.339	18.51	N/A	Pass
802.11n20	5500	17.508	19.24	N/A	Pass
	5600	17.509	19.29	N/A	Pass
	5700	17.512	19.39	N/A	Pass
802.11n40	5510	36.077	40.41	N/A	Pass
	5590	36.026	40.56	N/A	Pass
	5670	36.023	40.61	N/A	Pass
802.11ac20	5500	17.627	19.11	N/A	Pass
	5600	17.624	19.18	N/A	Pass
	5700	17.620	19.10	N/A	Pass
802.11ac40	5510	36.086	39.98	N/A	Pass
	5590	36.085	40.07	N/A	Pass
	5670	36.078	39.78	N/A	Pass
802.11ac80	5530	75.518	80.69	N/A	Pass
	5610	74.544	79.88	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	16.337	16.34	0.5	Pass
	5785	16.330	16.34	0.5	Pass
	5825	16.330	16.34	0.5	Pass
802.11n20	5745	17.508	17.57	0.5	Pass
	5785	17.507	17.57	0.5	Pass
	5825	17.512	17.56	0.5	Pass
802.11n40	5755	36.017	35.13	0.5	Pass
	5795	36.025	35.30	0.5	Pass
802.11ac20	5745	17.578	17.59	0.5	Pass
	5785	17.579	17.59	0.5	Pass
	5825	17.567	17.60	0.5	Pass
802.11ac40	5755	36.109	35.35	0.5	Pass
	5795	36.099	35.37	0.5	Pass
802.11ac80	5775	75.283	75.11	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	16.369	16.35	0.5	Pass
	5785	16.341	16.33	0.5	Pass
	5825	16.343	16.34	0.5	Pass
802.11n20	5745	17.521	17.56	0.5	Pass
	5785	17.515	17.56	0.5	Pass
	5825	17.502	17.58	0.5	Pass
802.11n40	5755	36.067	35.66	0.5	Pass
	5795	36.048	35.33	0.5	Pass
802.11ac20	5745	17.566	17.52	0.5	Pass
	5785	17.571	17.50	0.5	Pass
	5825	17.563	17.52	0.5	Pass
802.11ac40	5755	36.182	35.98	0.5	Pass
	5795	36.183	36.31	0.5	Pass
802.11ac80	5775	74.848	72.62	0.5	Pass

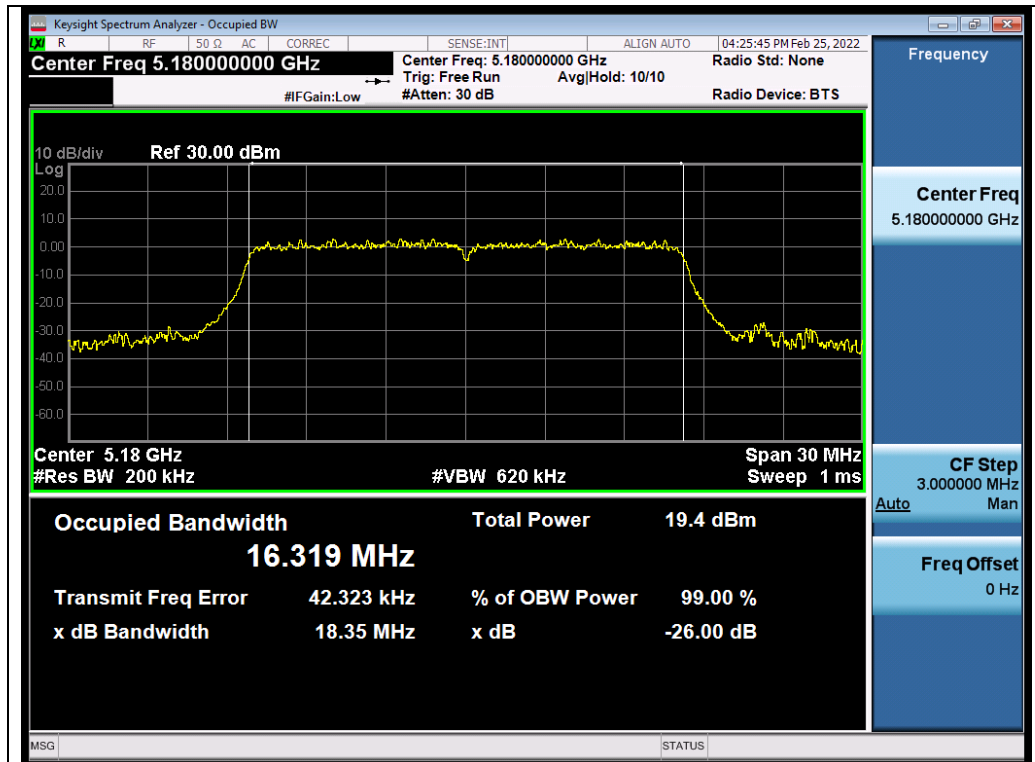
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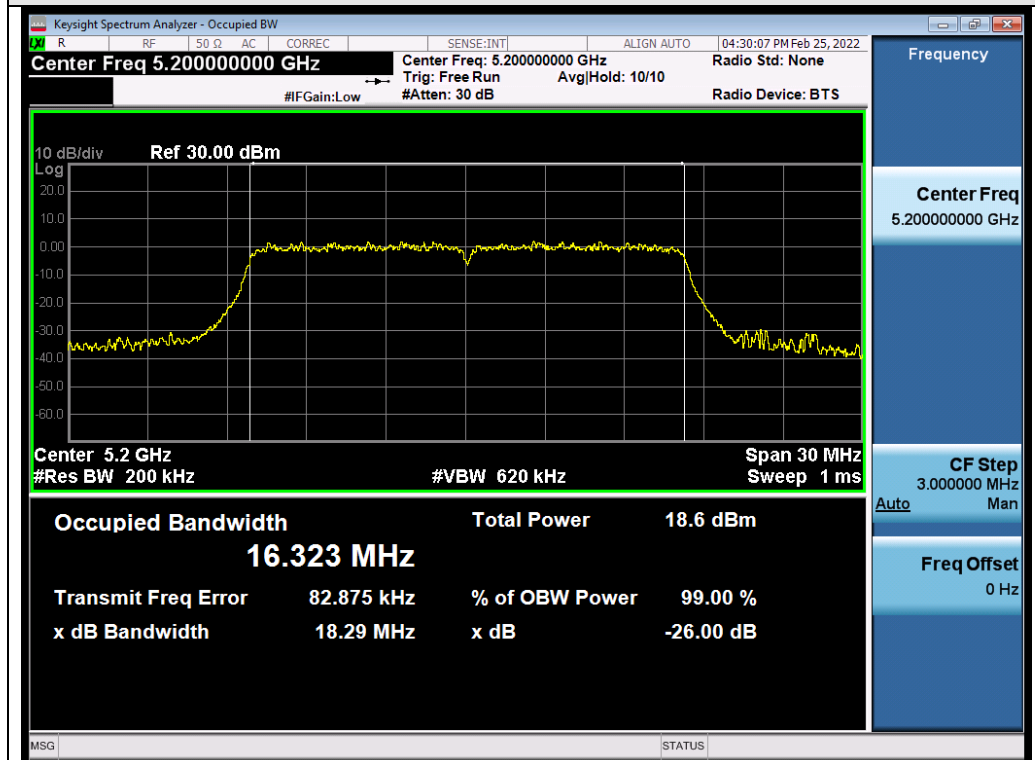
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz

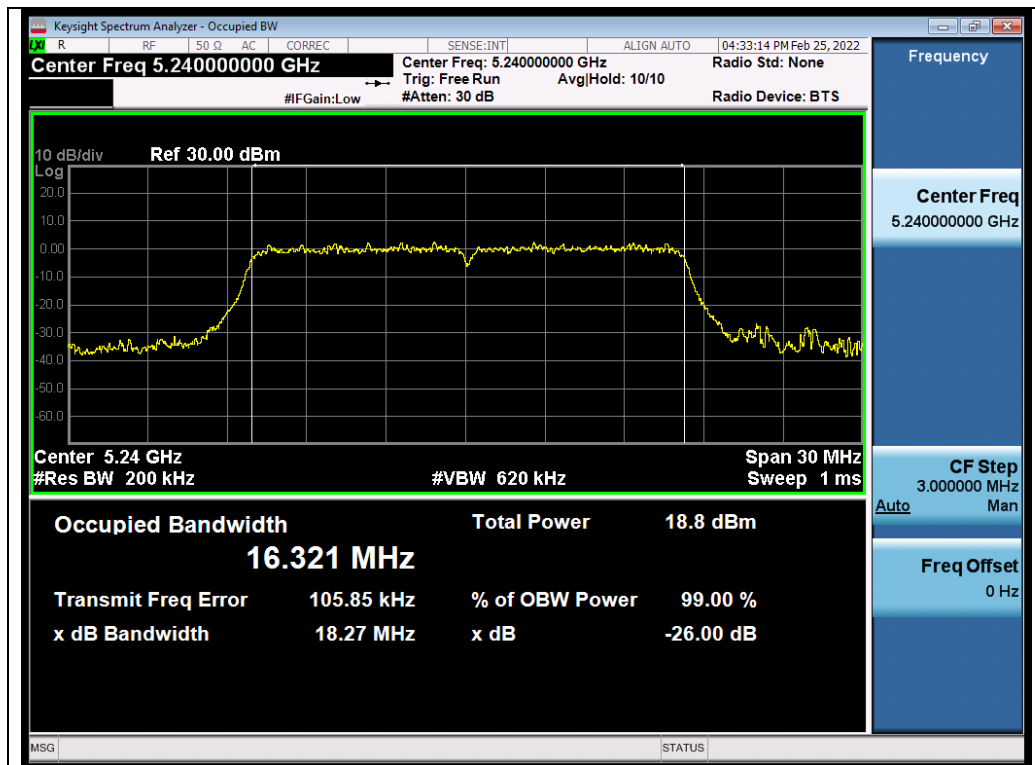


Test_Graph_802.11a_ANT1_5180_6Mbps_OBW

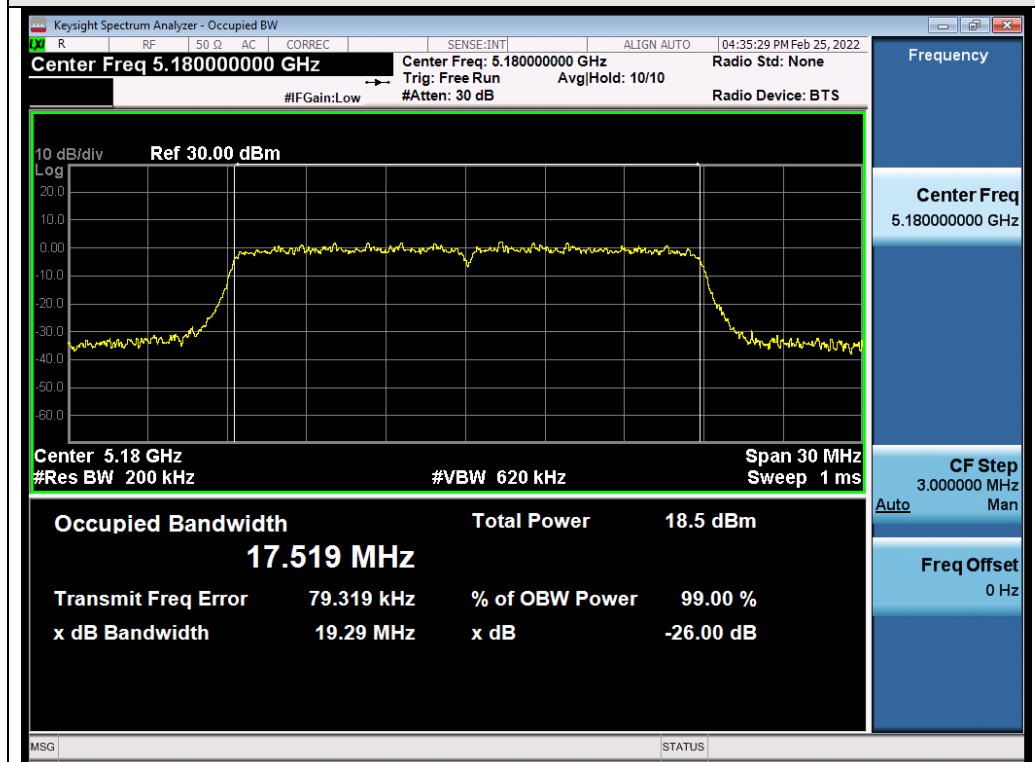


Test_Graph_802.11a_ANT1_5200_6Mbps_OBW

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Test_Graph_802.11a_ANT1_5240_6Mbps_OBW



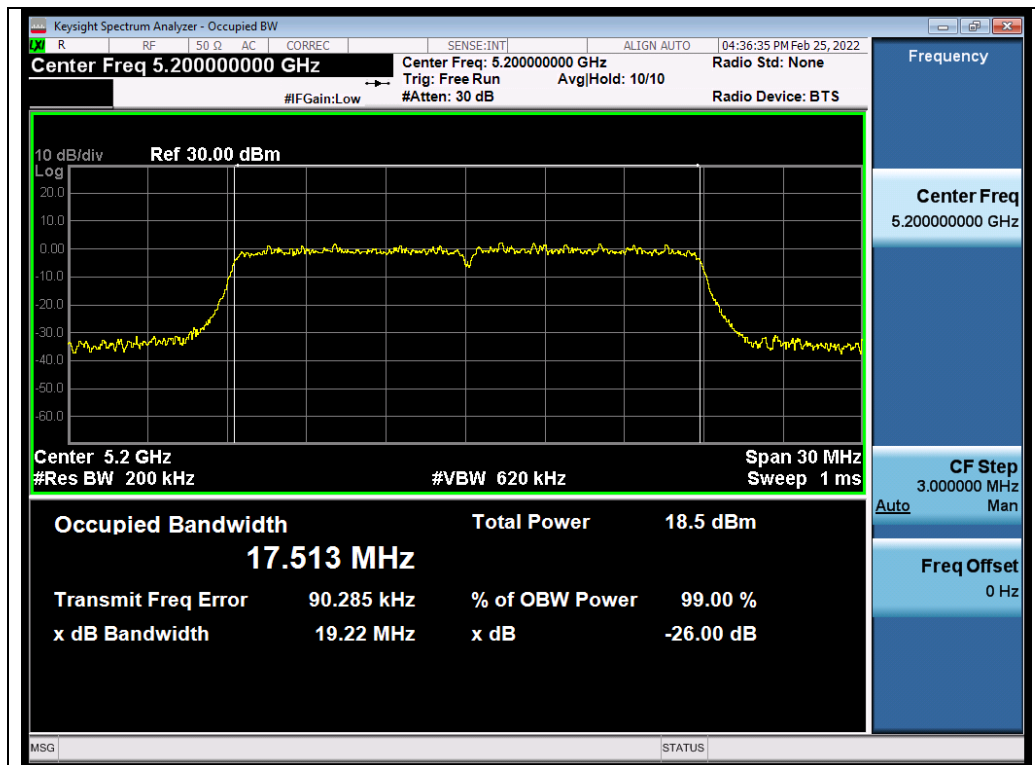
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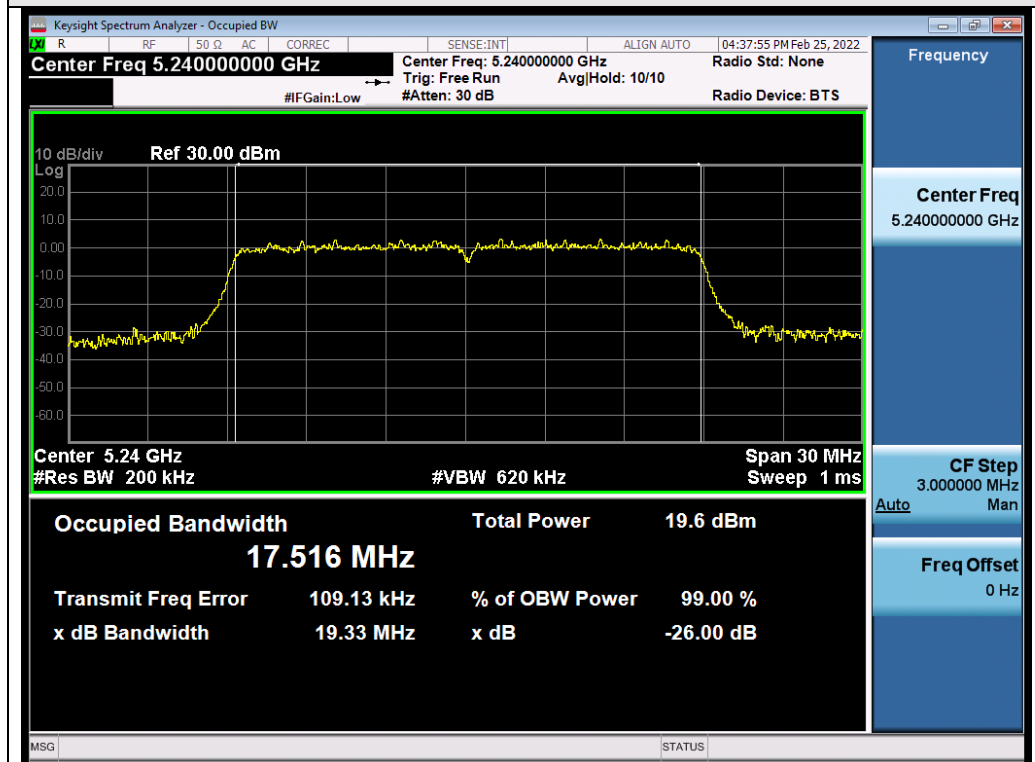
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Test_Graph_802.11n20_ANT1_5200_MCS0_OBW



Test_Graph_802.11n20_ANT1_5240_MCS0_OBW

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Test_Graph_802.11n40_ANT1_5190_MCS0_OBW



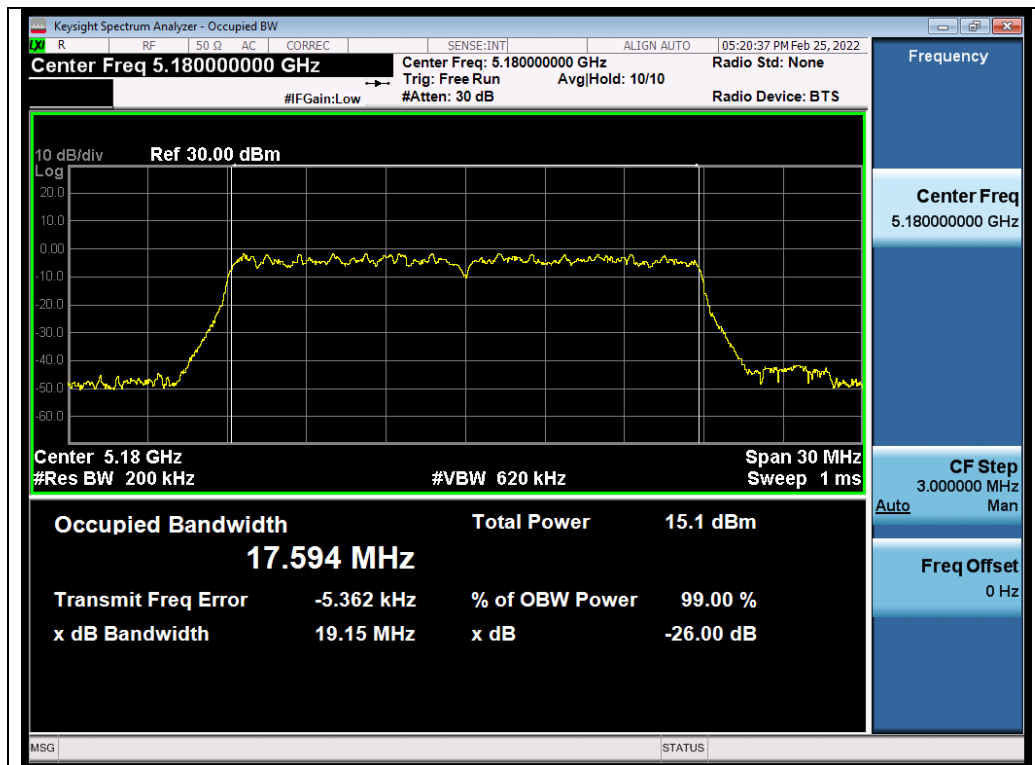
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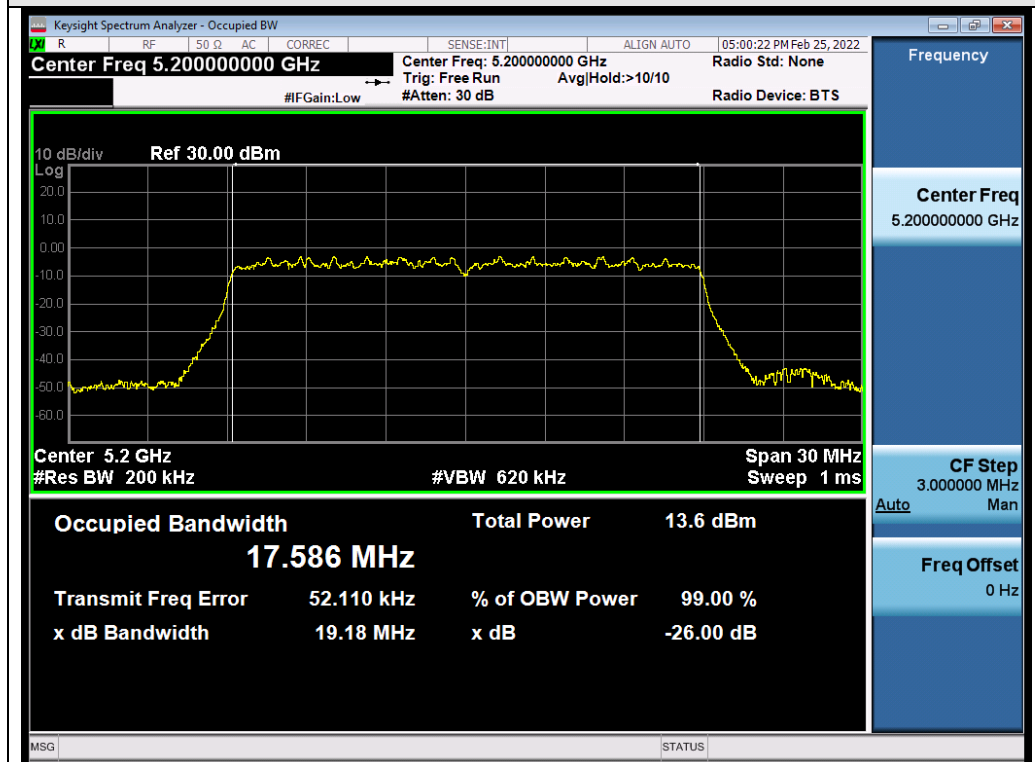
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Test_Graph_802.11ac20_ANT1_5180_MCS0_OBW



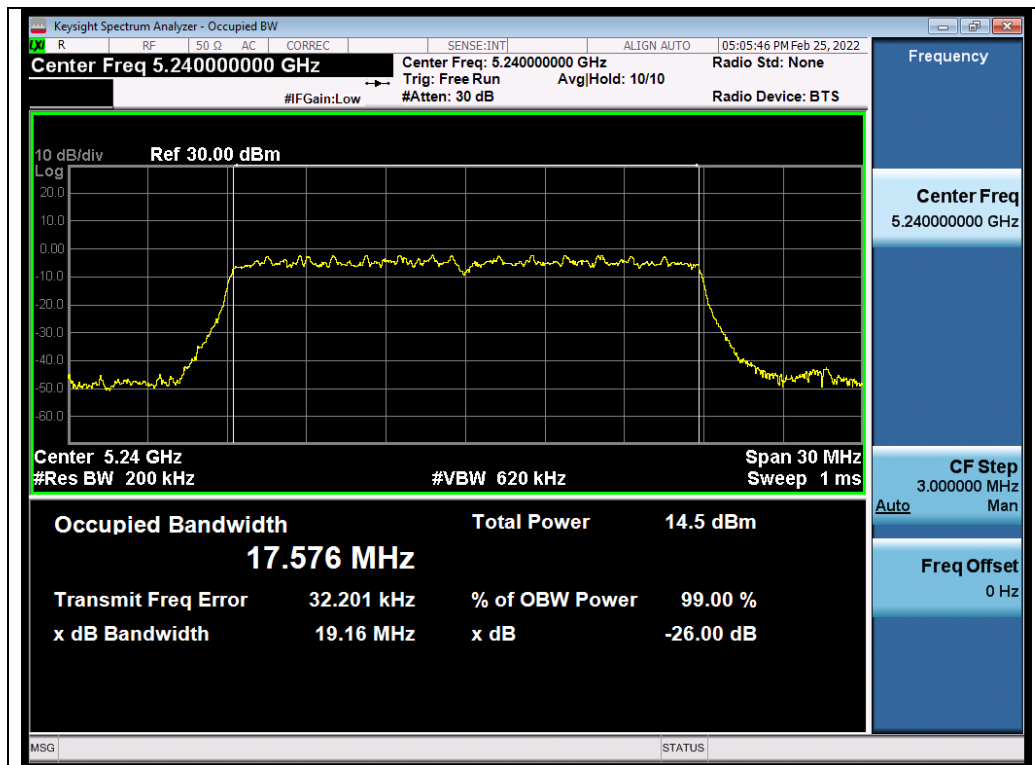
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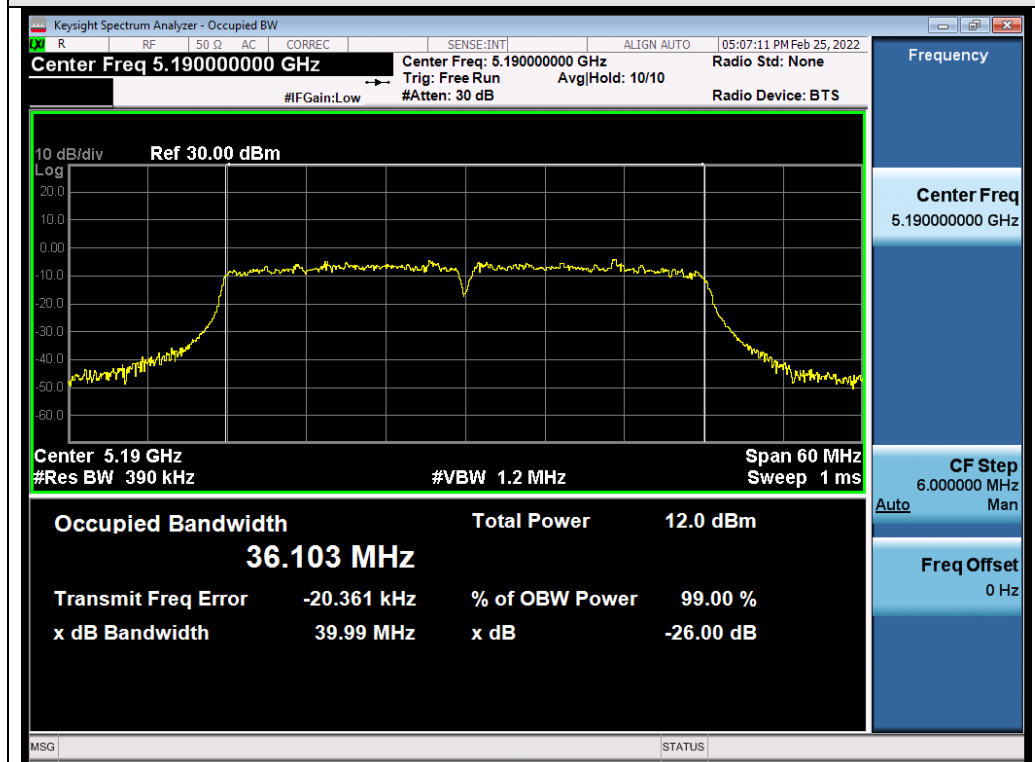
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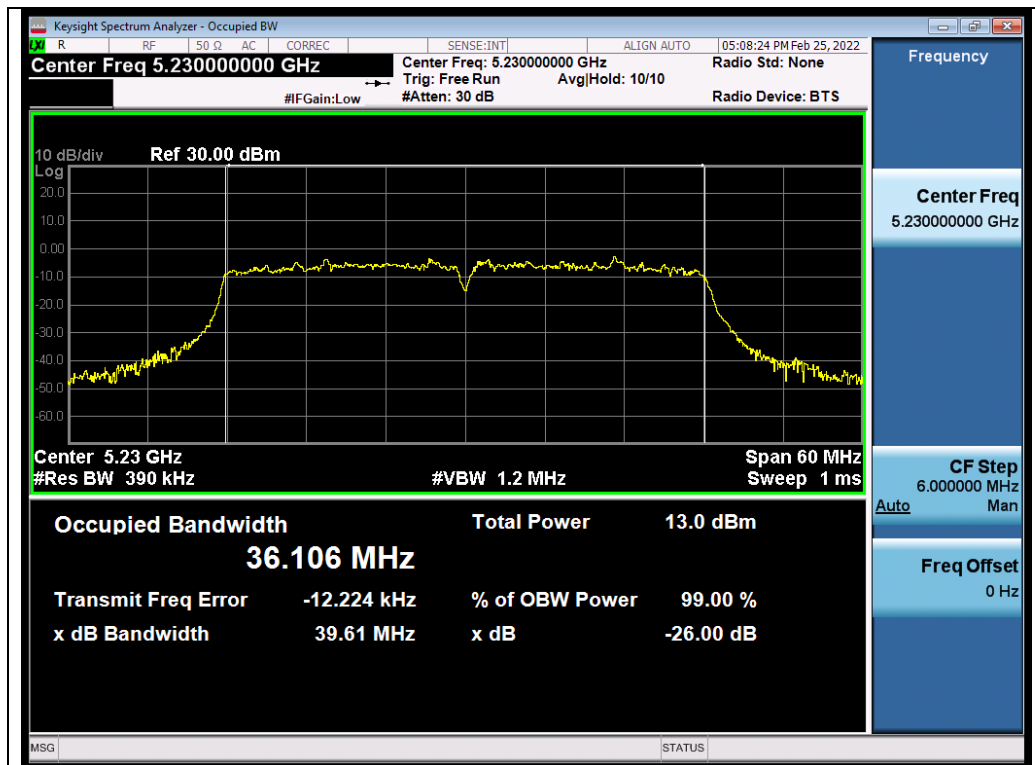


Test_Graph_802.11ac20_ANT1_5240_MCS9_OBW

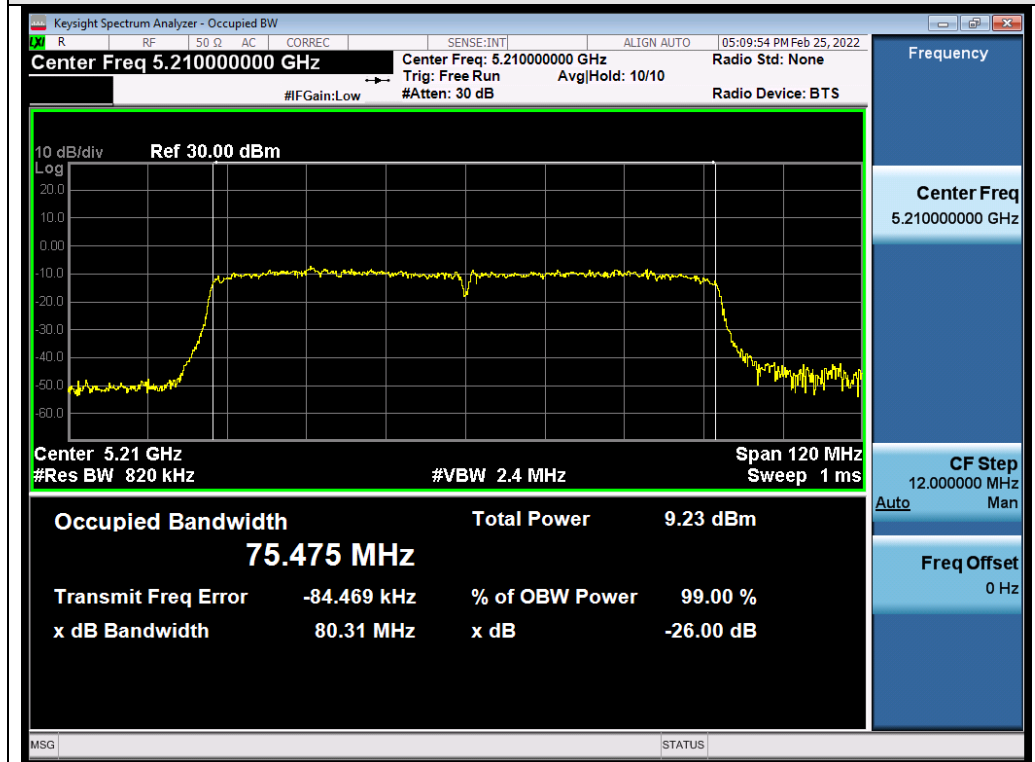


Test_Graph_802.11ac40_ANT1_5190_MCS9_OBW

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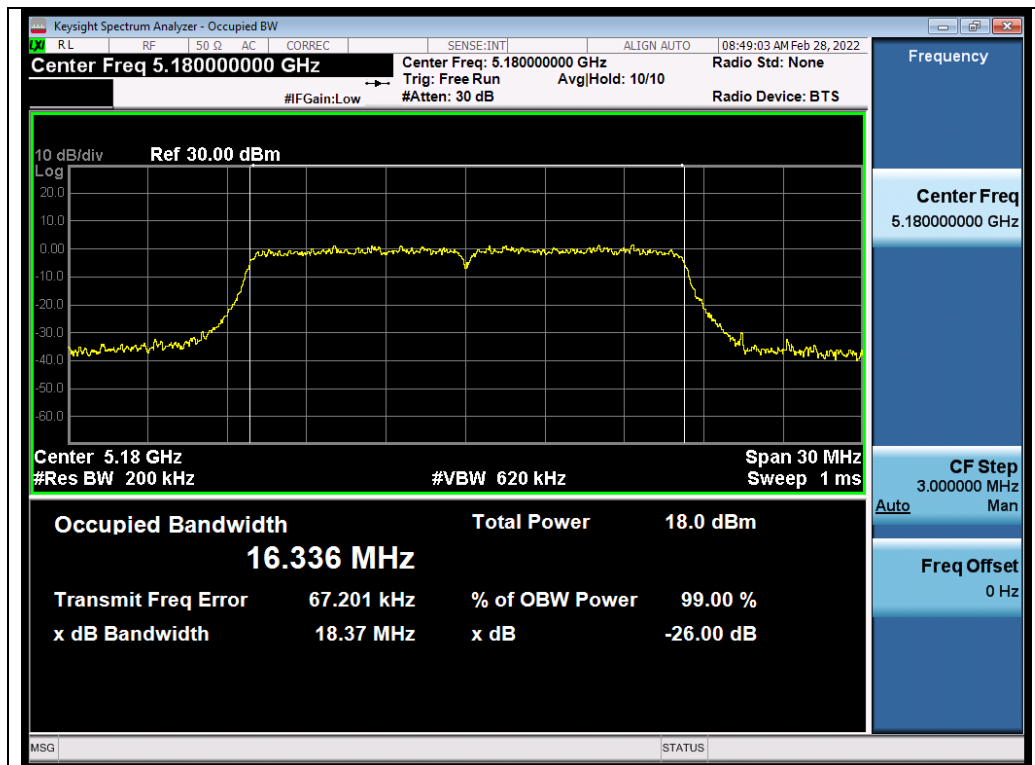


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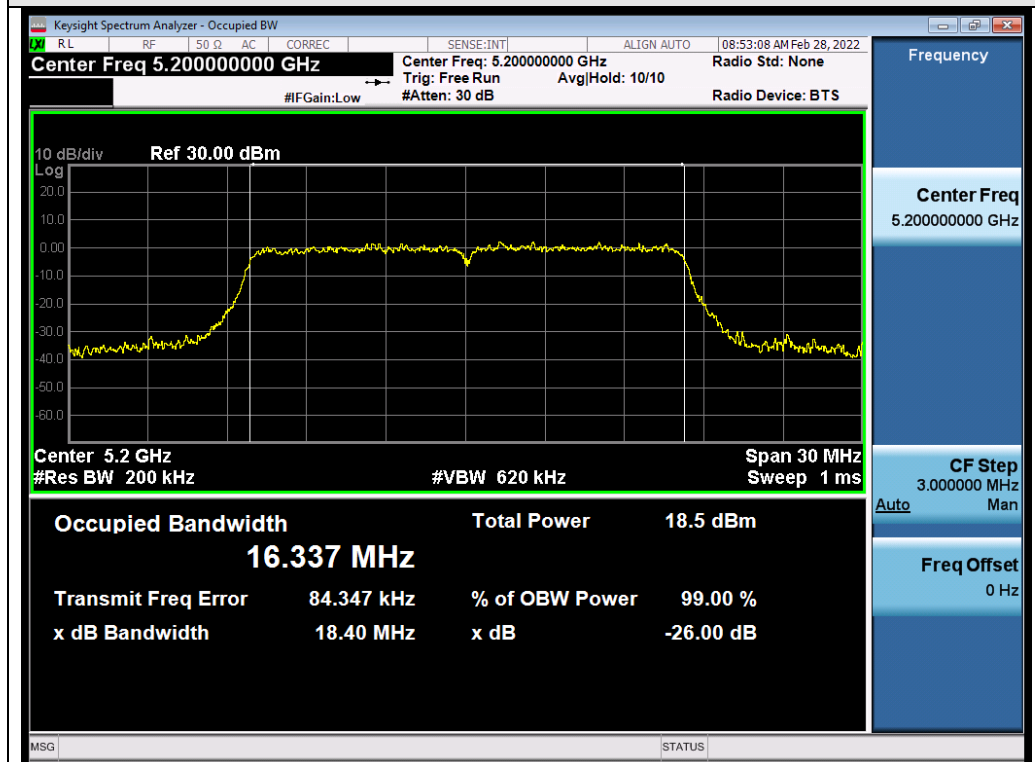


Test_Graph_802.11ac80_ANT1_5210_MCS9_OBW

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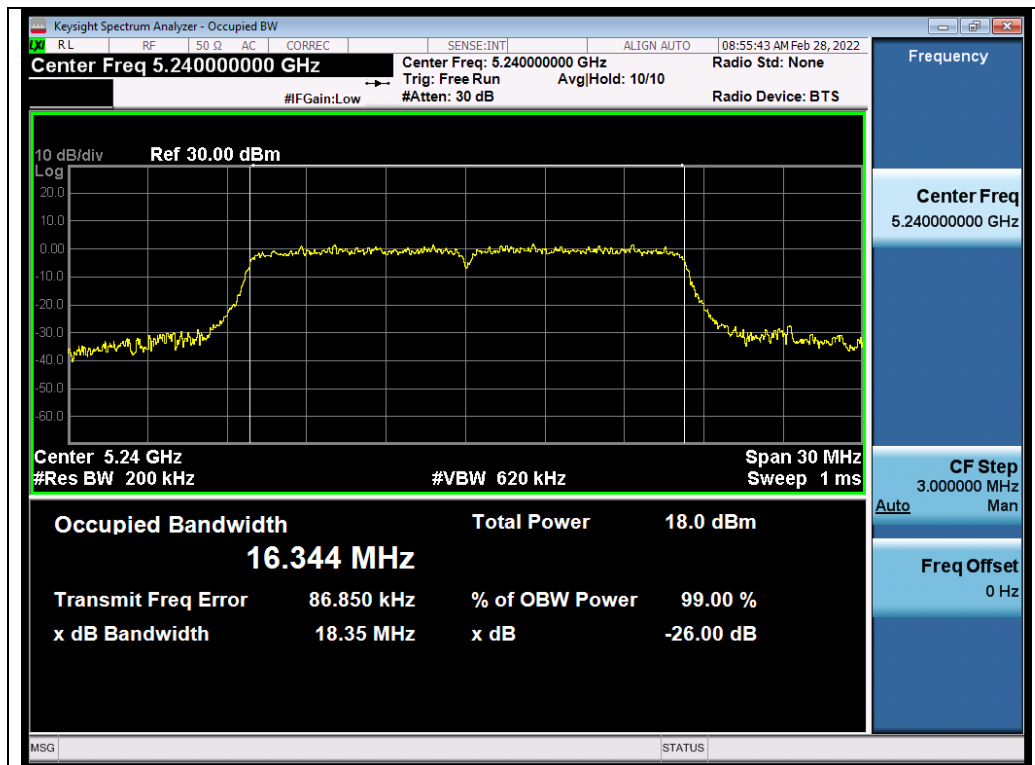


Test_Graph_802.11a_ANT2_5180_6Mbps_OBW

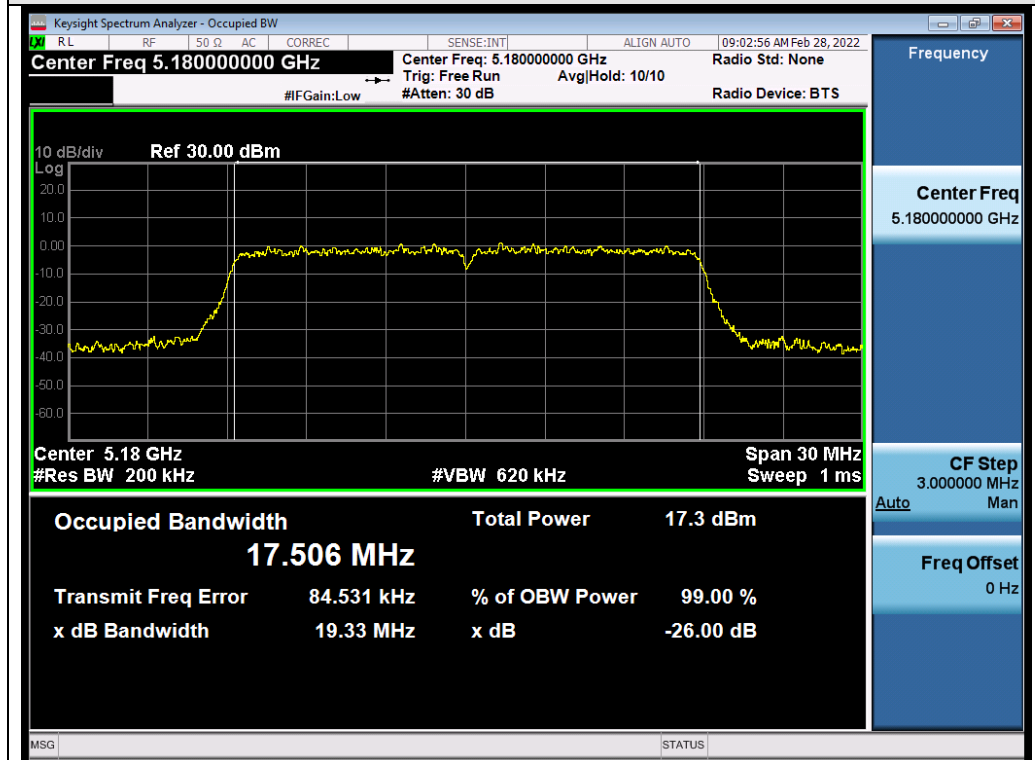


Test_Graph_802.11a_ANT2_5200_6Mbps_OBW

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Test_Graph_802.11a_ANT2_5240_6Mbps_OBW



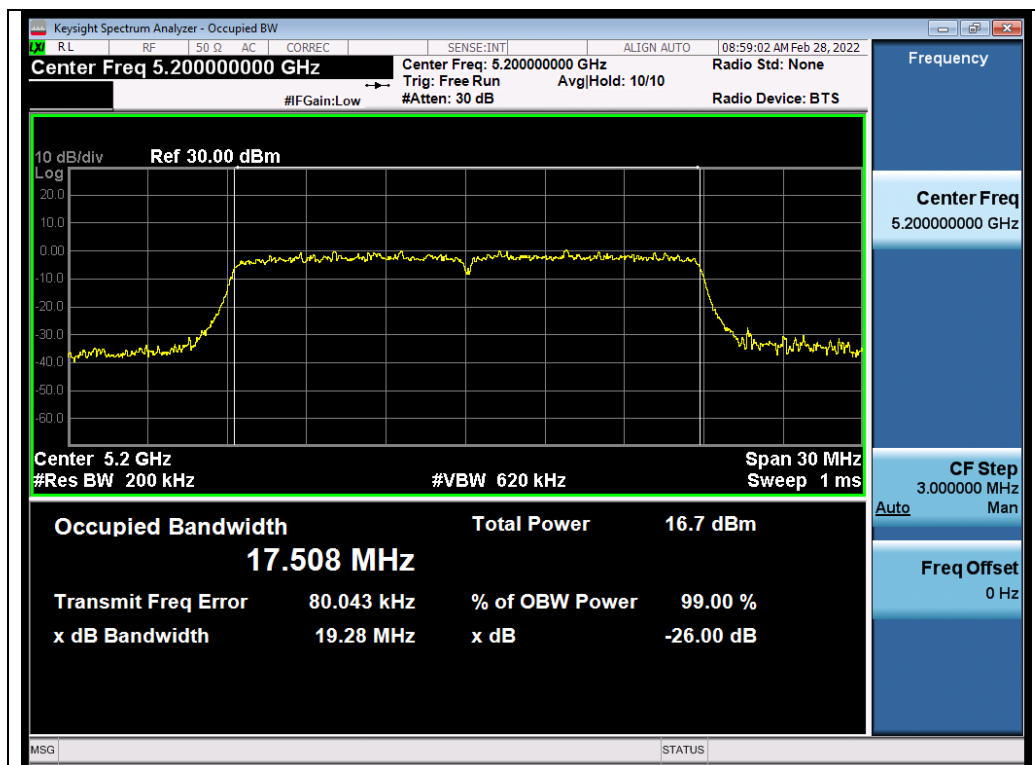
Test_Graph_802.11n20_ANT2_5180_MCS0_OBW

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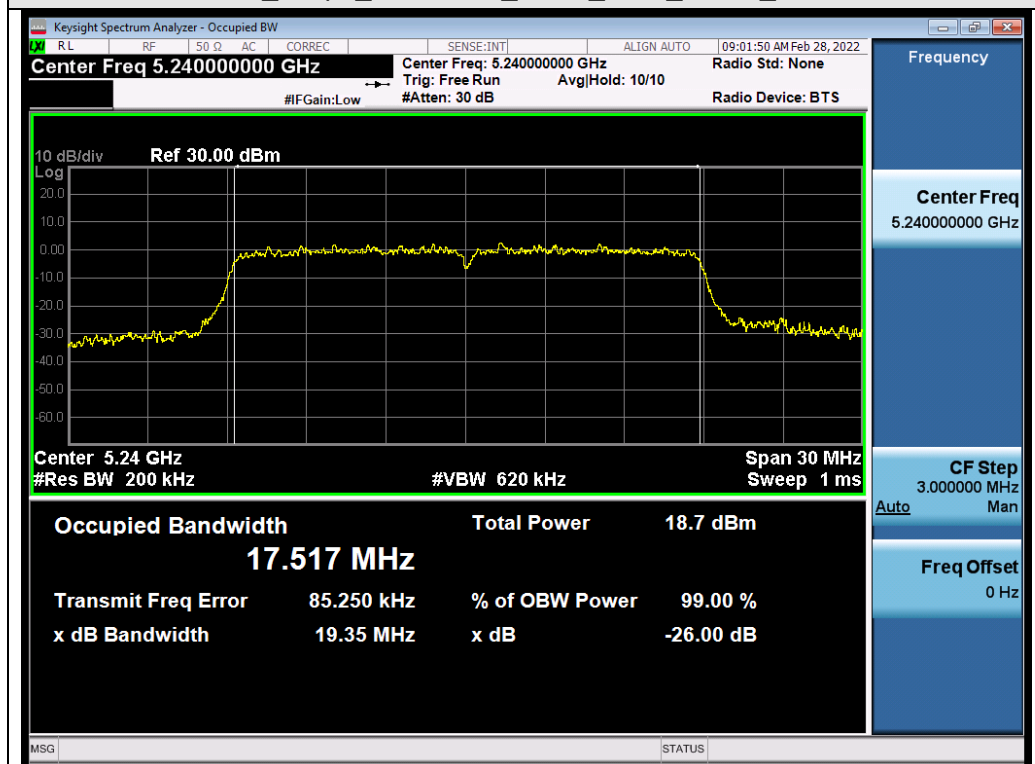
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Test_Graph_802.11n20_ANT2_5200_MCS0_OBW



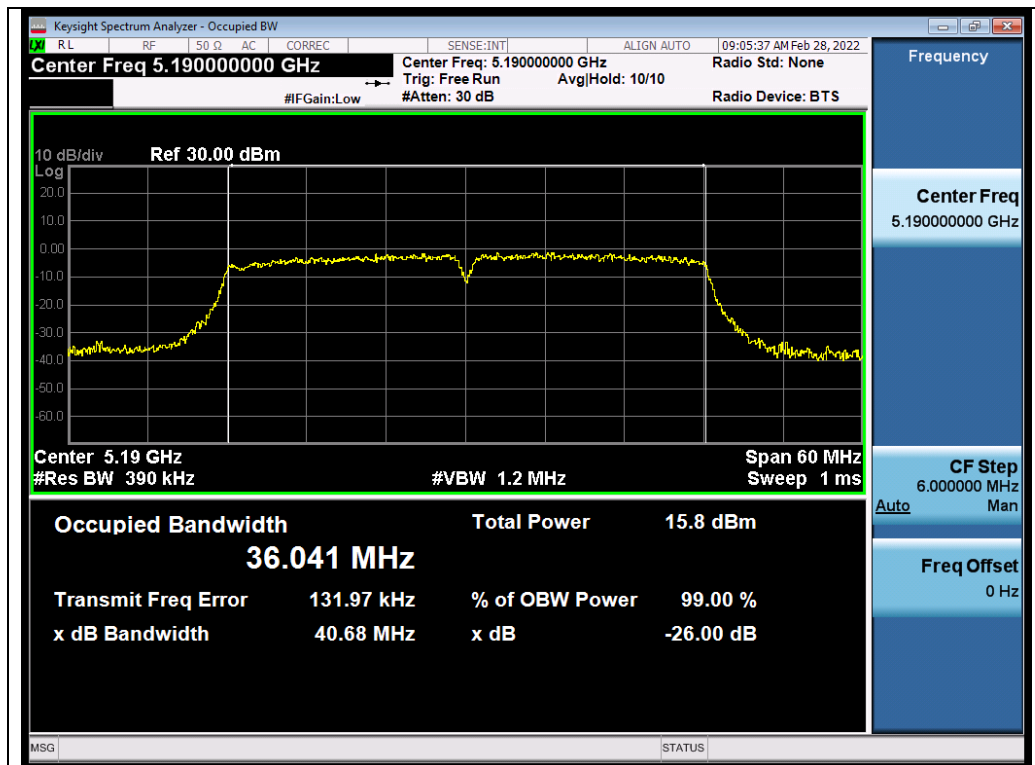
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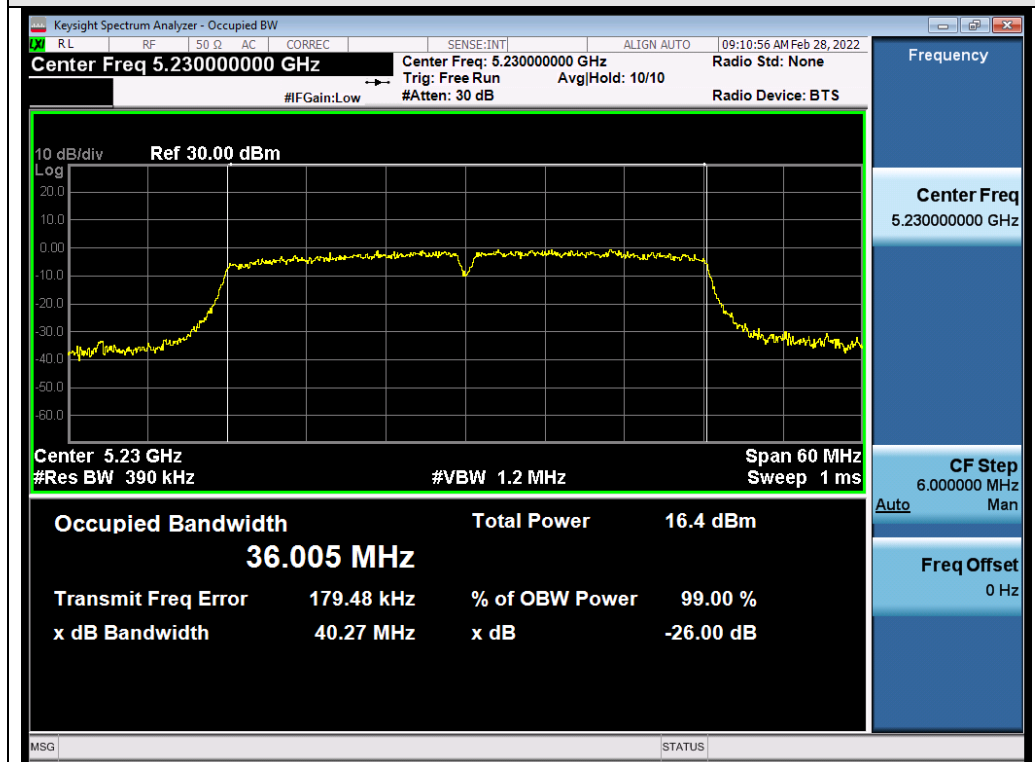
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Test_Graph_802.11n40_ANT2_5190_MCS0_OBW



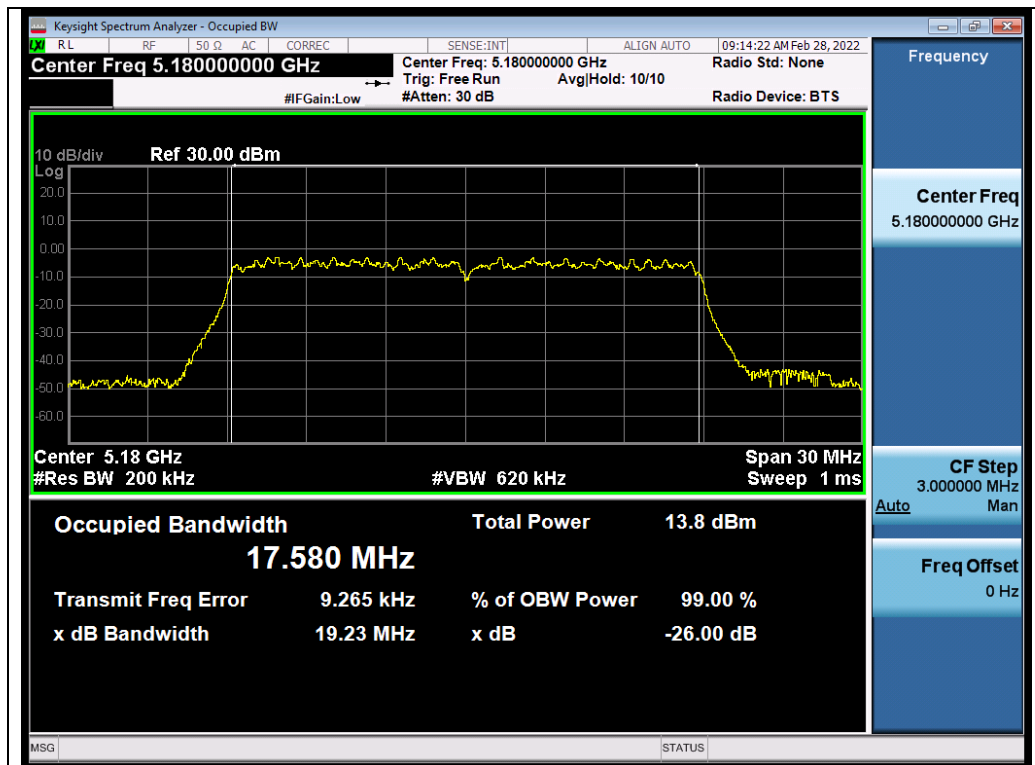
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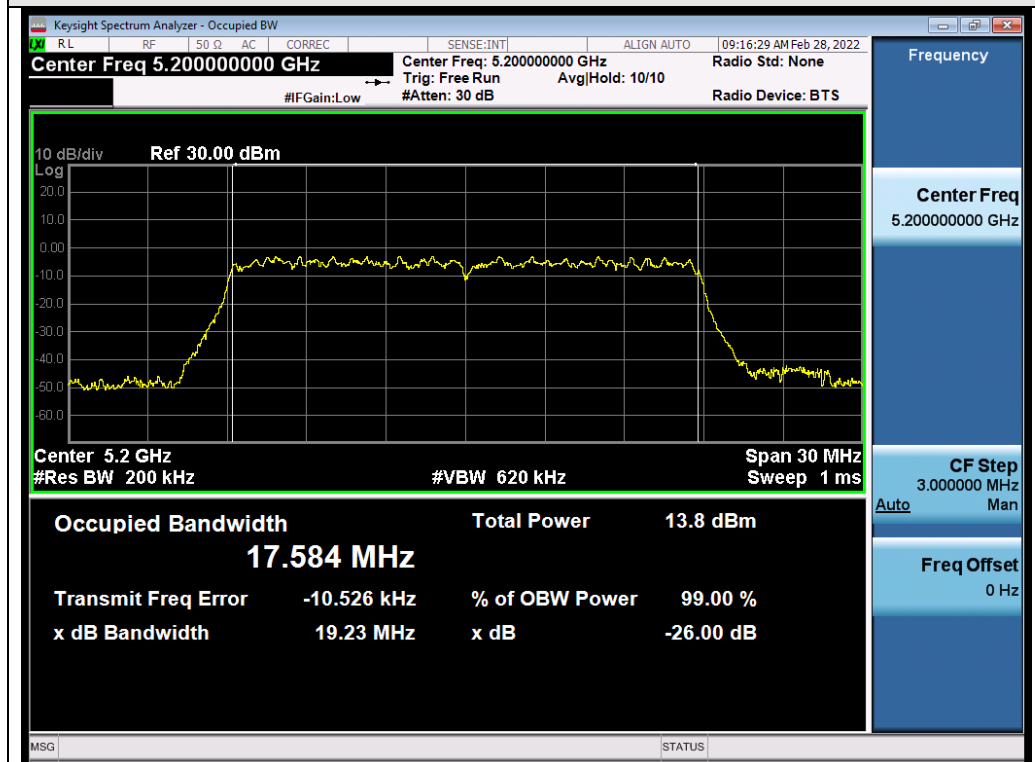
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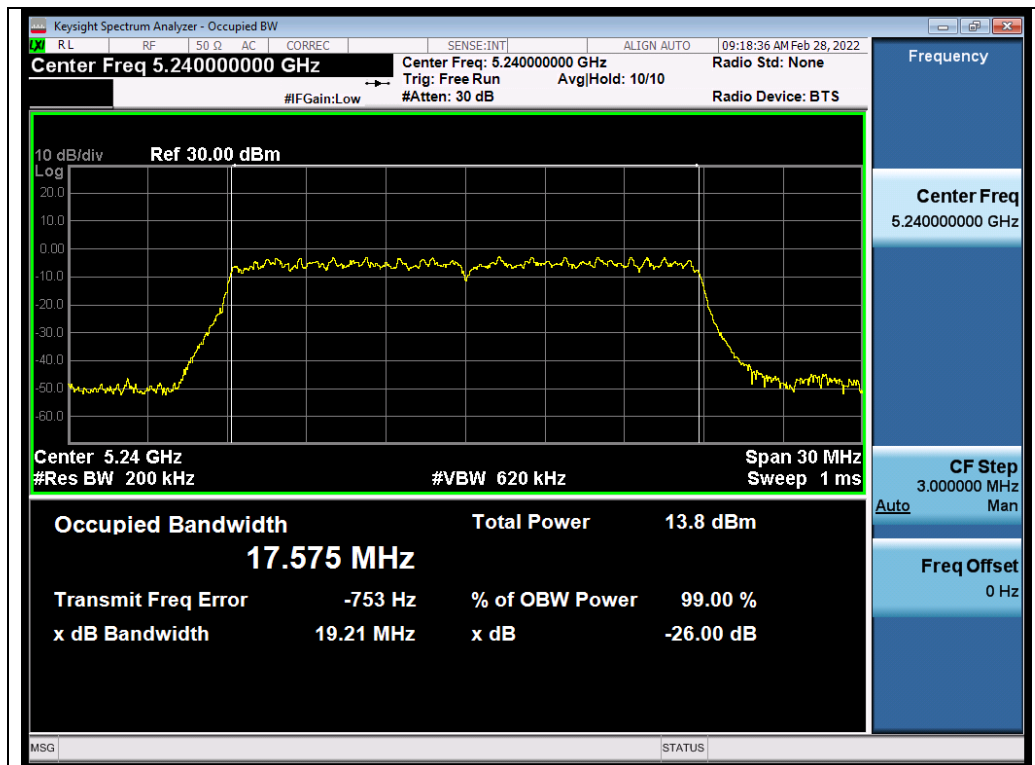


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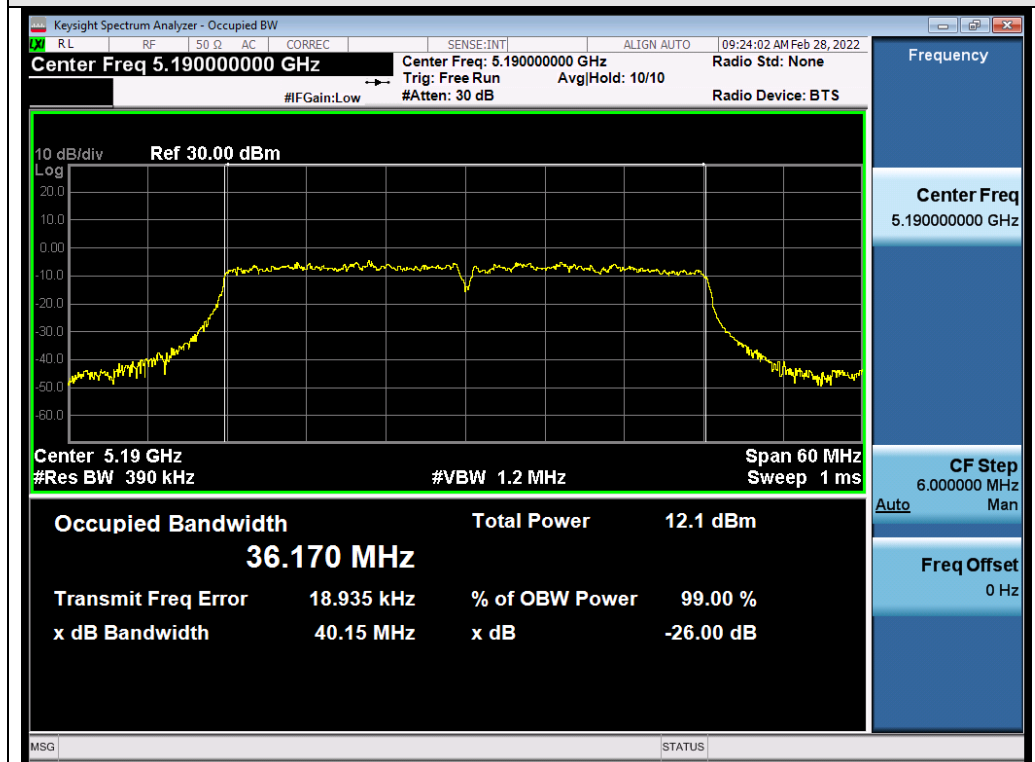


Test_Graph_802.11ac20_ANT2_5200_MCS0_OBW

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Test_Graph_802.11ac20_ANT2_5240_MCS9_OBW



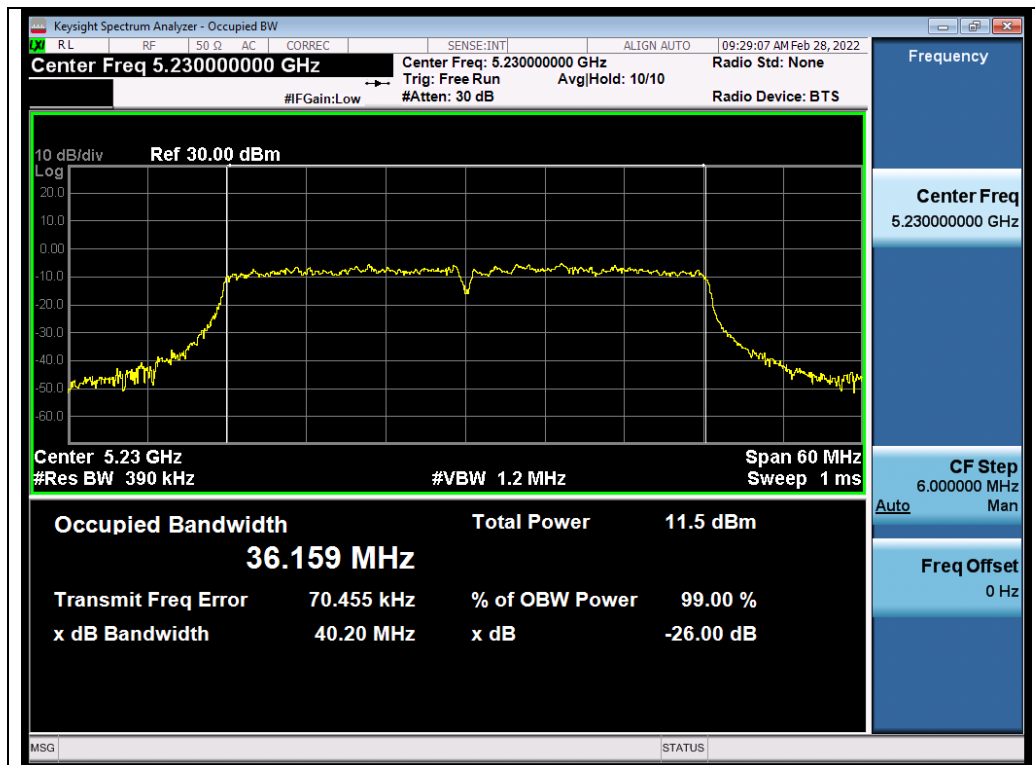
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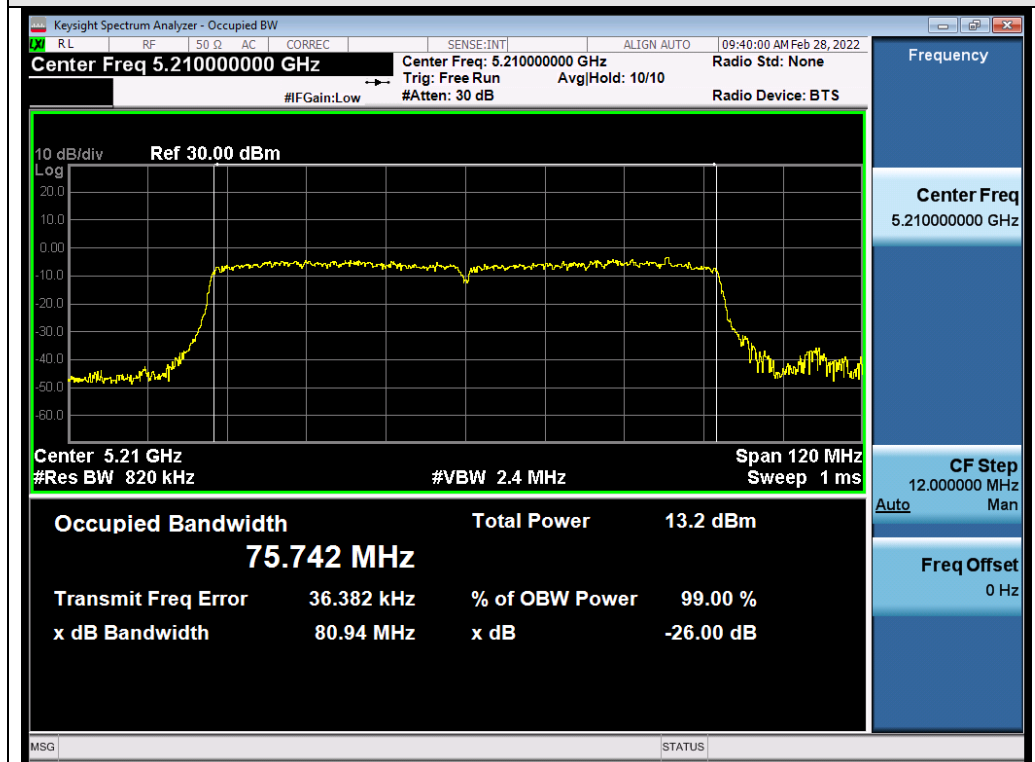
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Test_Graph_802.11ac40_ANT2_5230_MCS9_OBW



Test_Graph_802.11ac80_ANT2_5210_MCS9_OBW

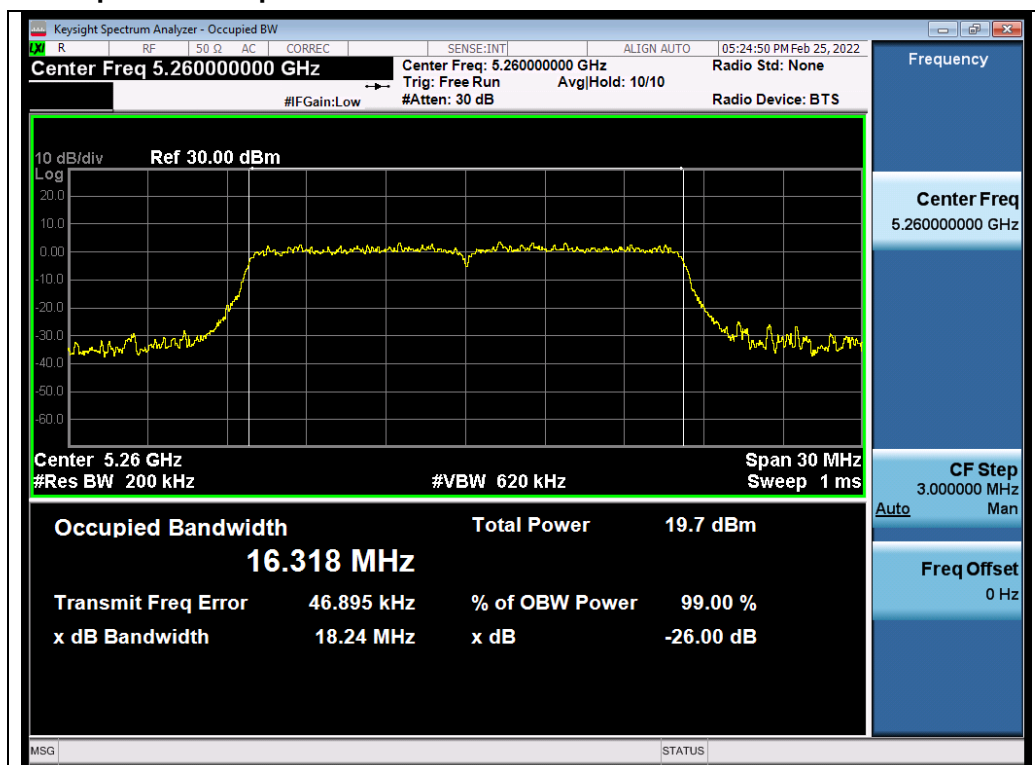
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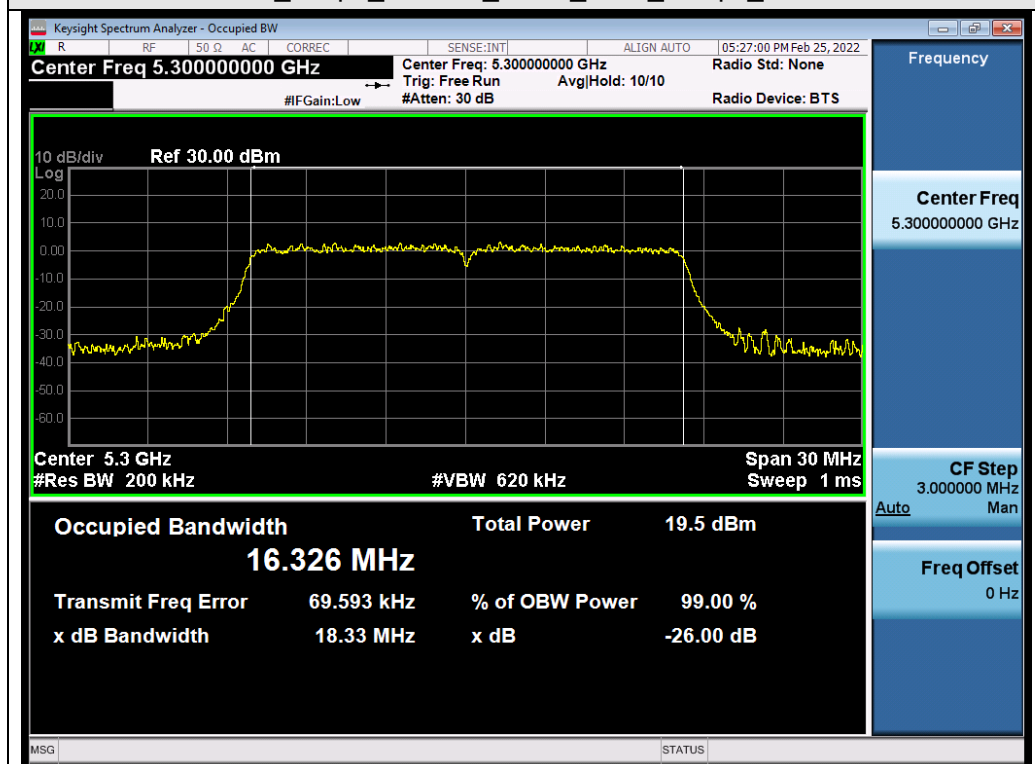
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz



Test_Graph_802.11a_ANT1_5260_6Mbps_OBW



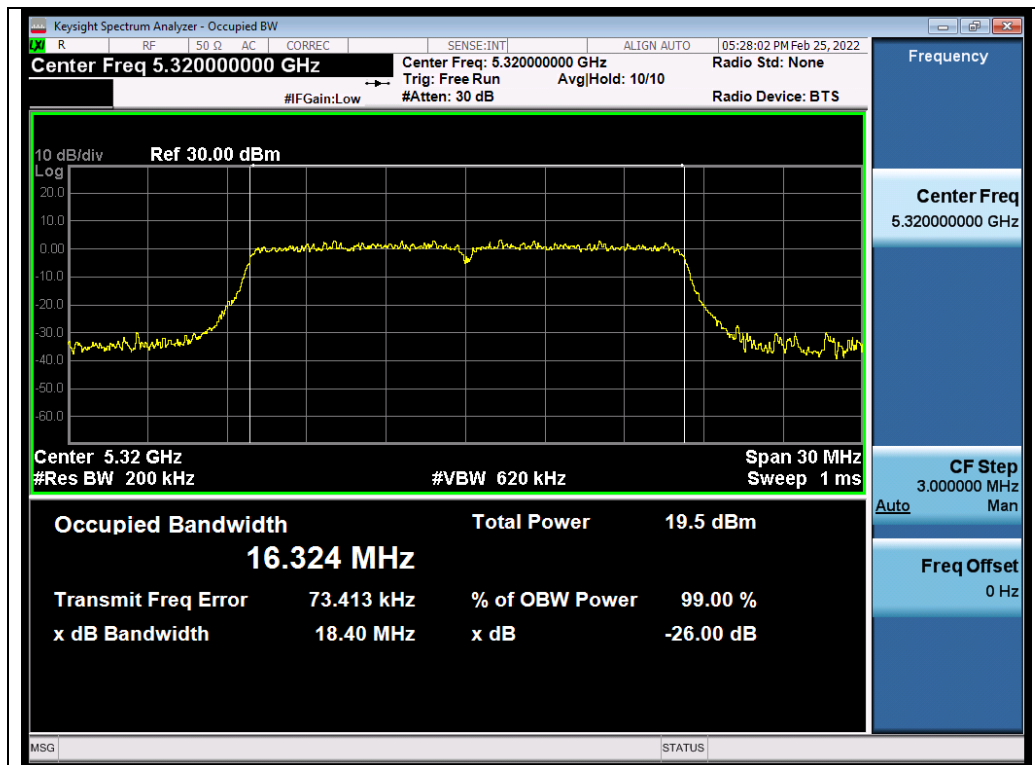
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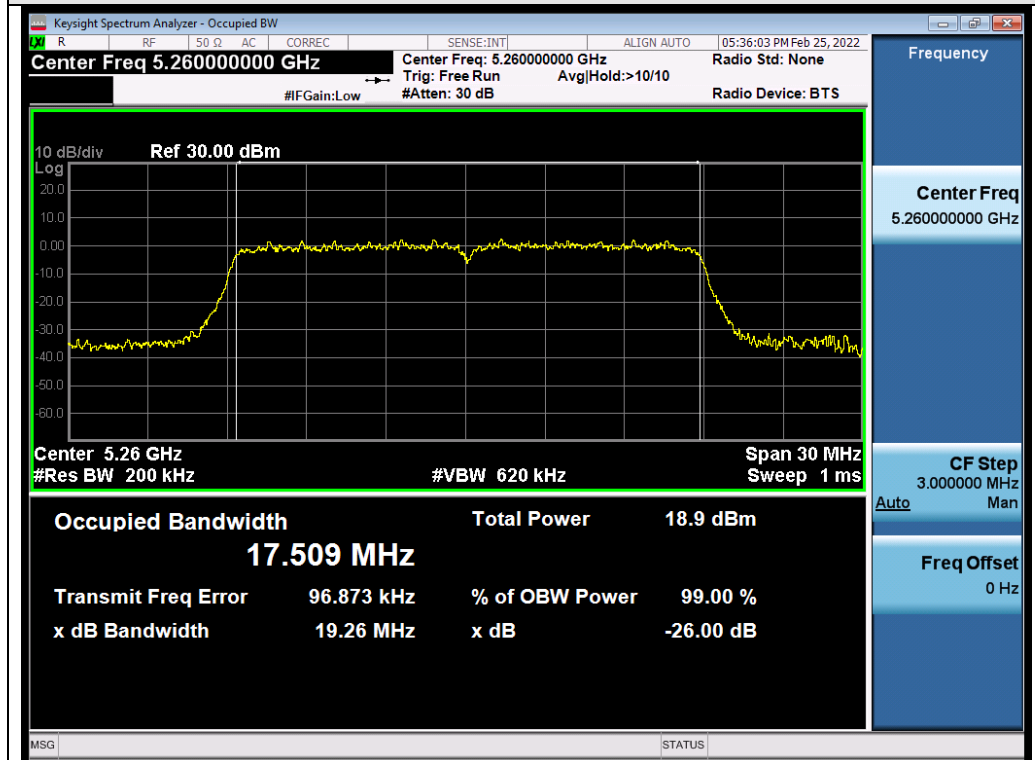
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Test_Graph_802.11a_ANT1_5320_6Mbps_OBW



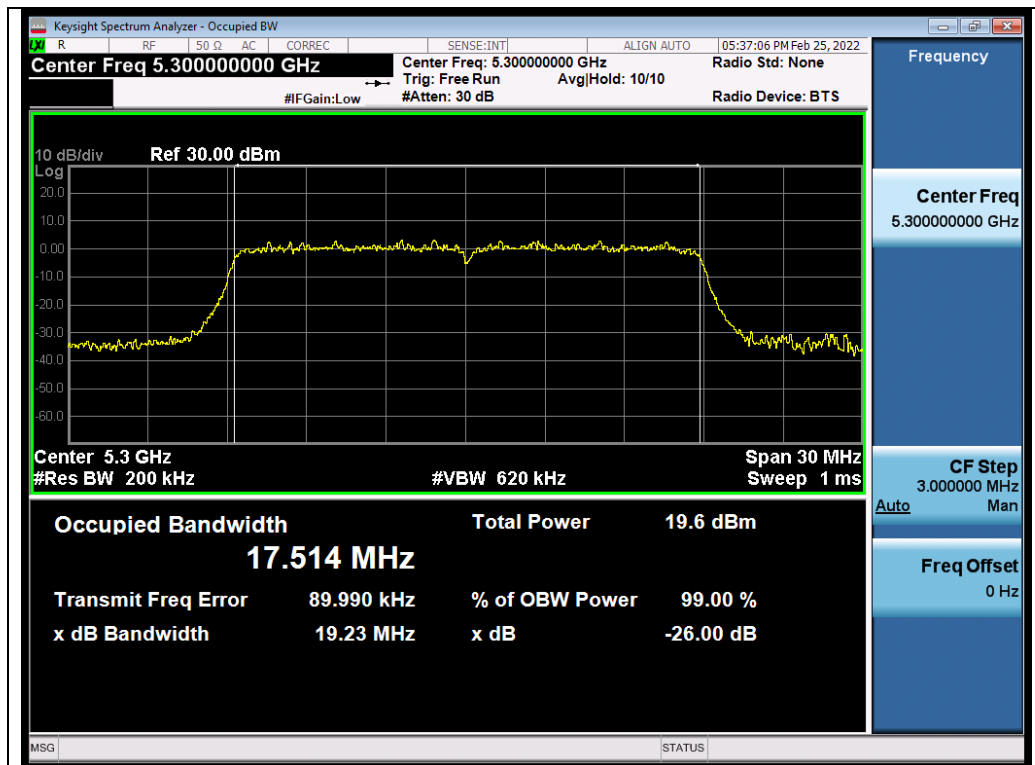
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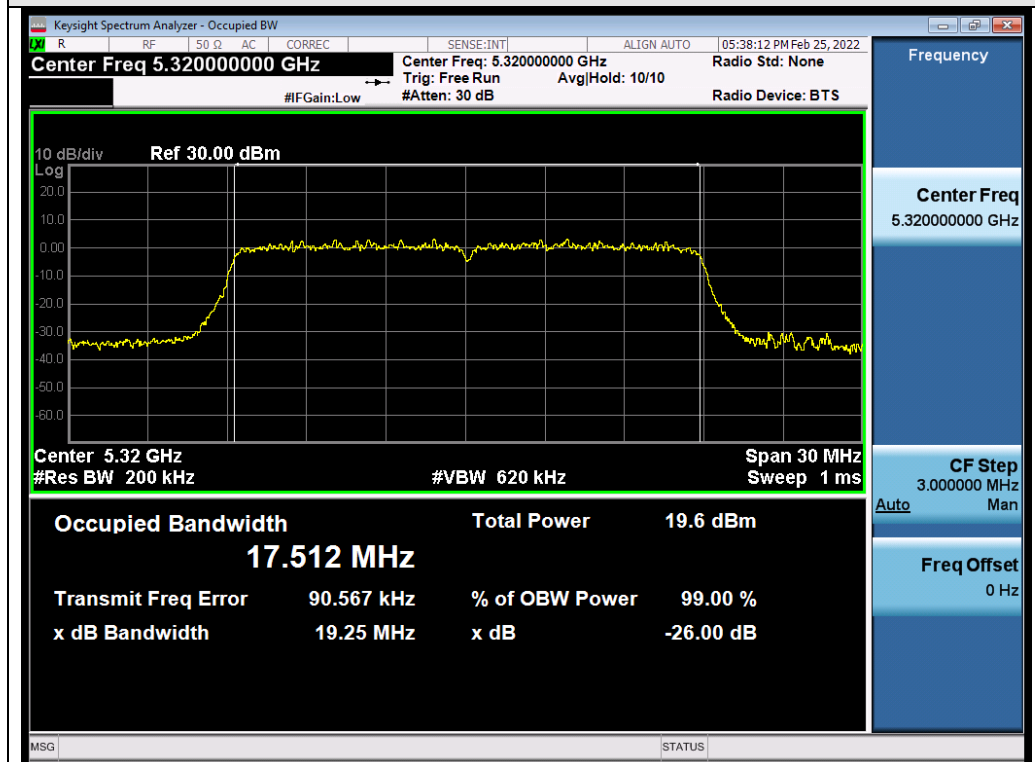
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Test_Graph_802.11n20_ANT1_5300_MCS0_OBW



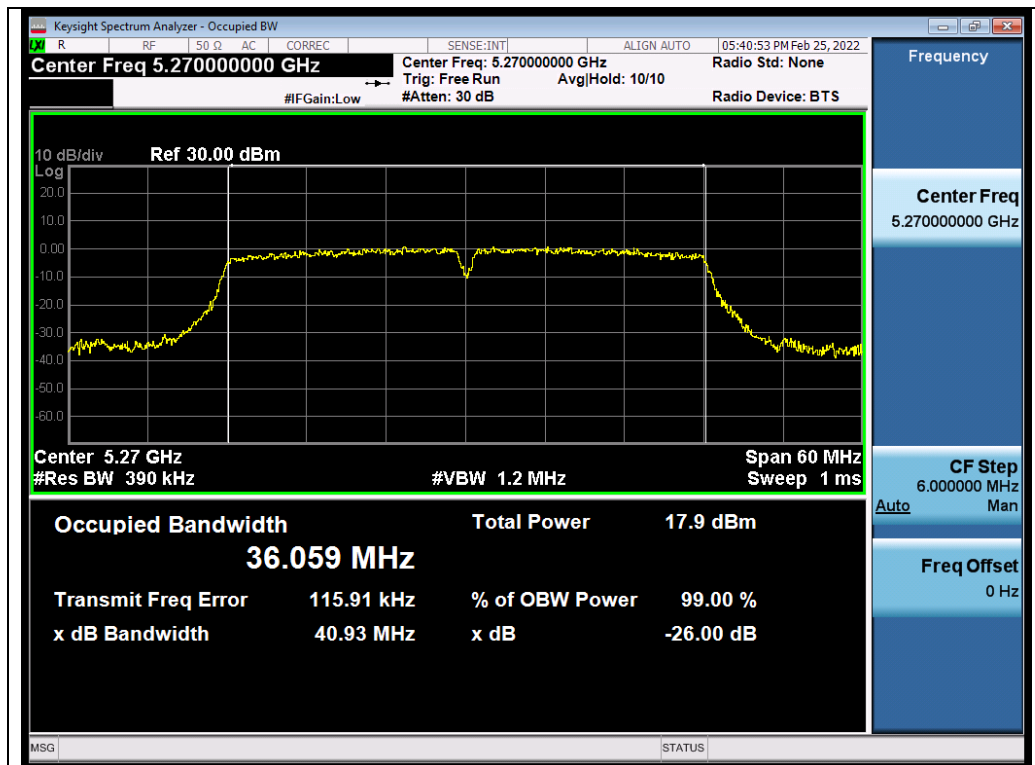
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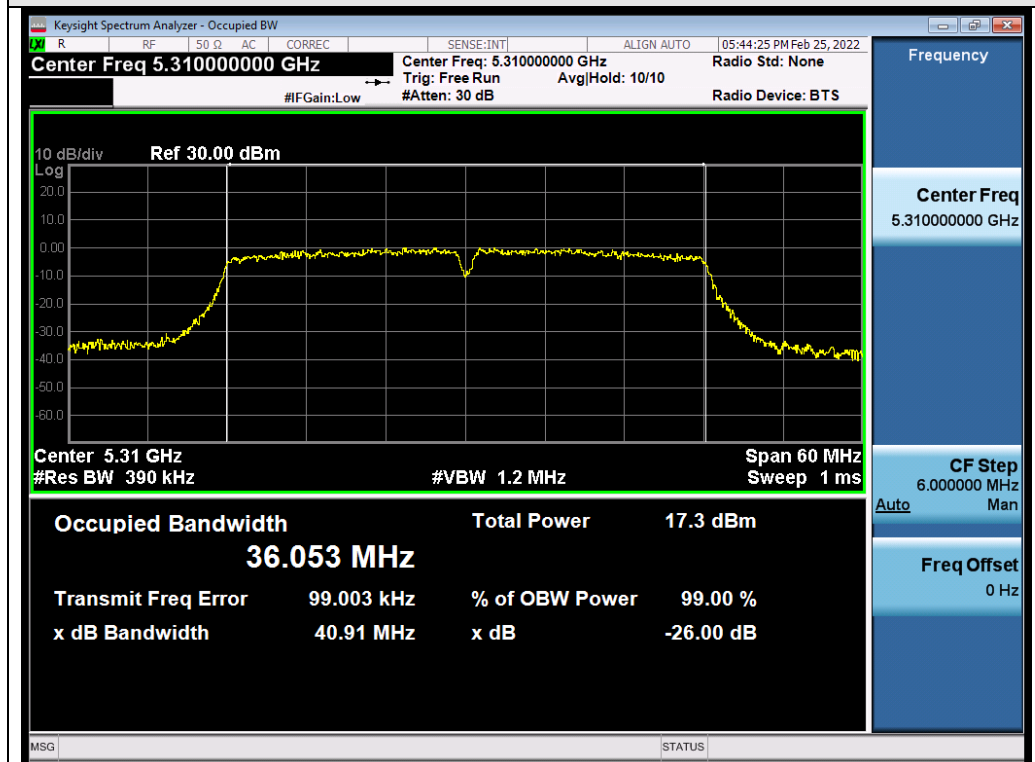
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Test_Graph_802.11n40_ANT1_5270_MCS0_OBW



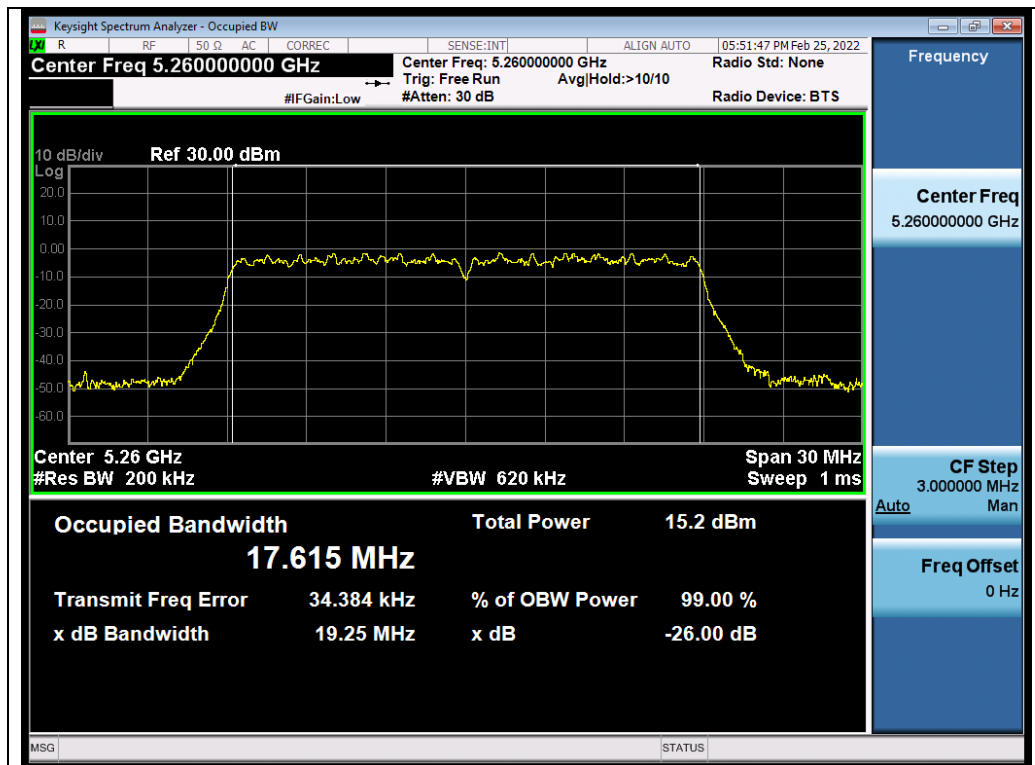
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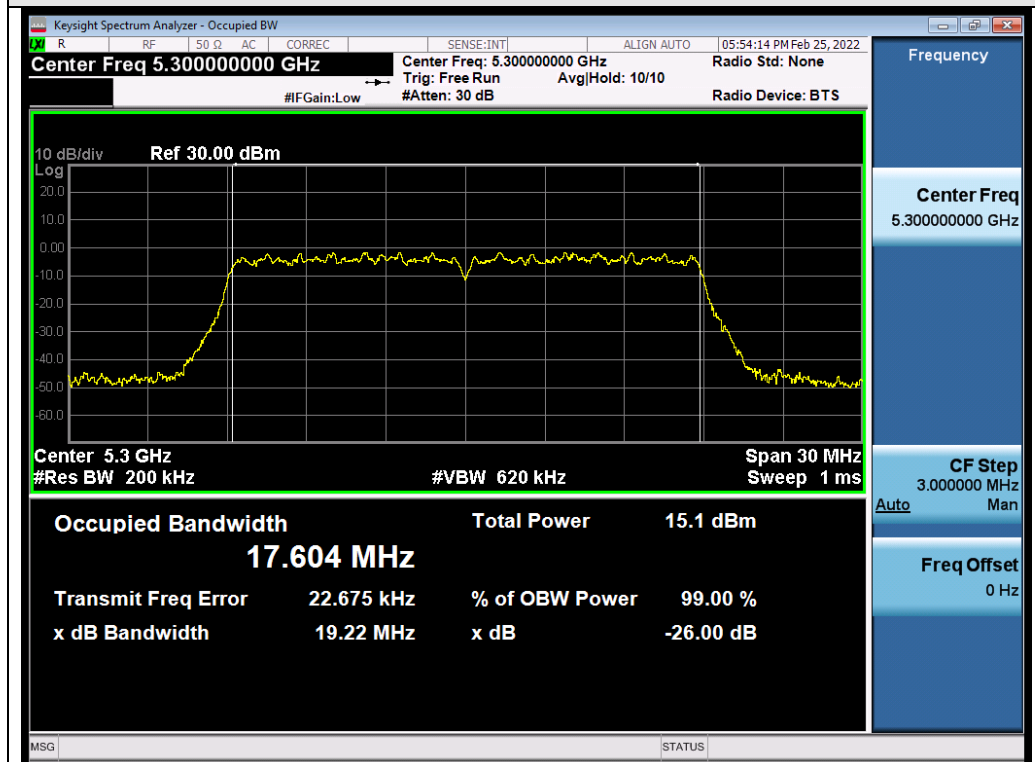
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Test_Graph_802.11ac20_ANT1_5260_MCS0_OBW



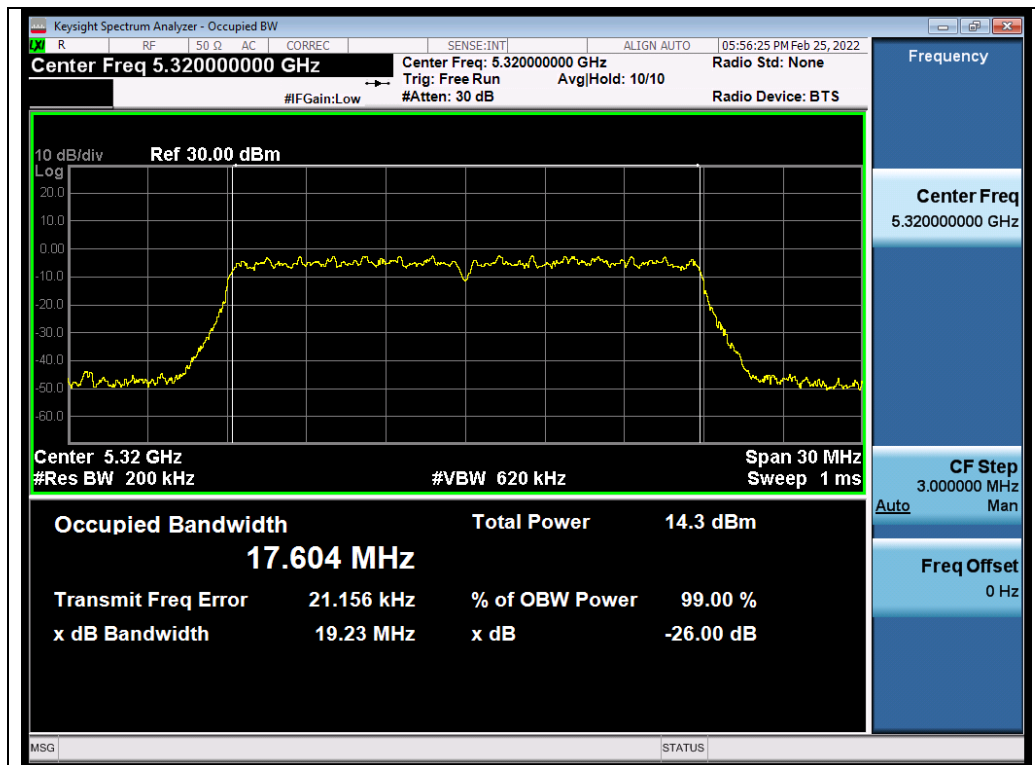
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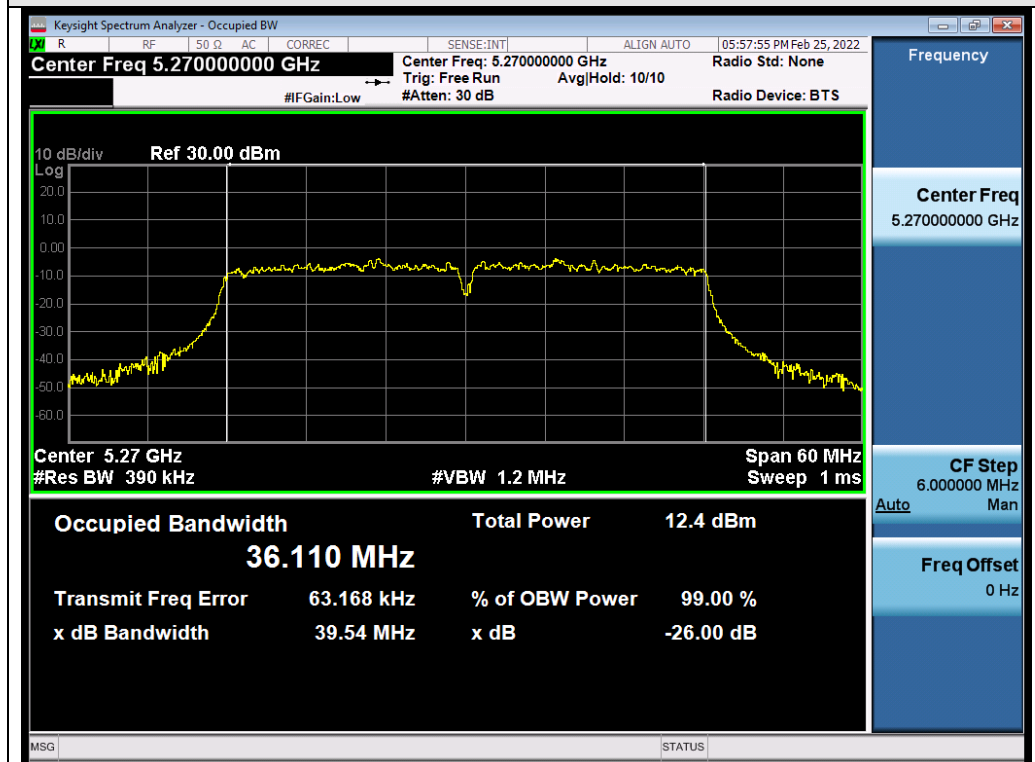
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Test_Graph_802.11ac20_ANT1_5320_MCS9_OBW



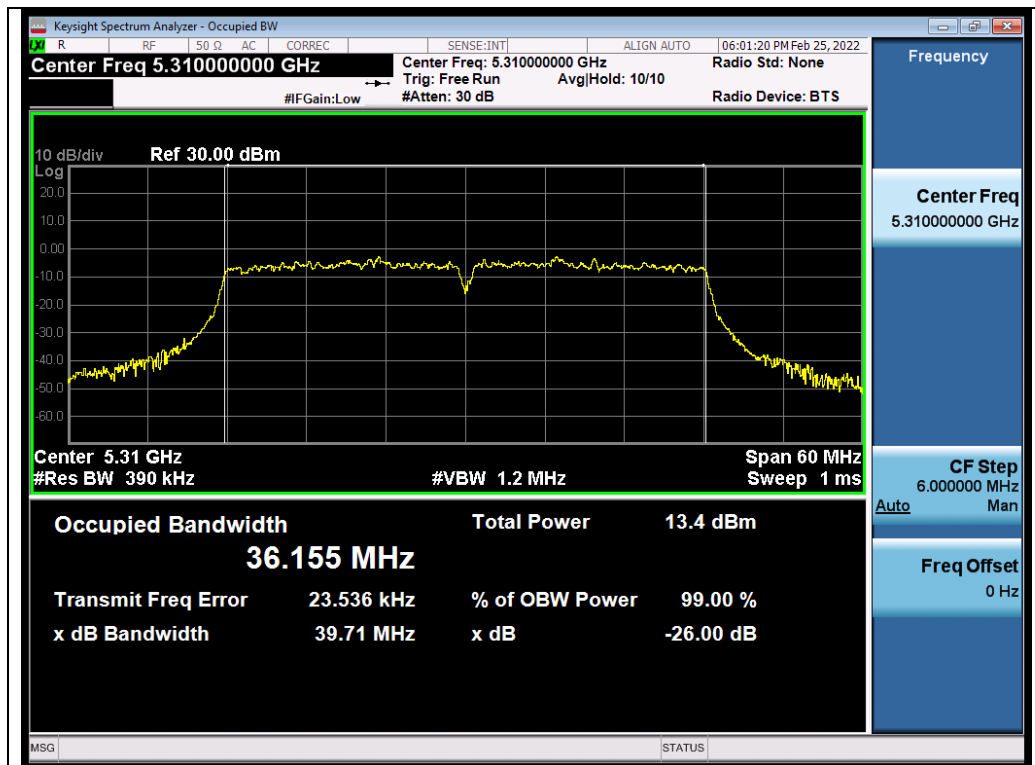
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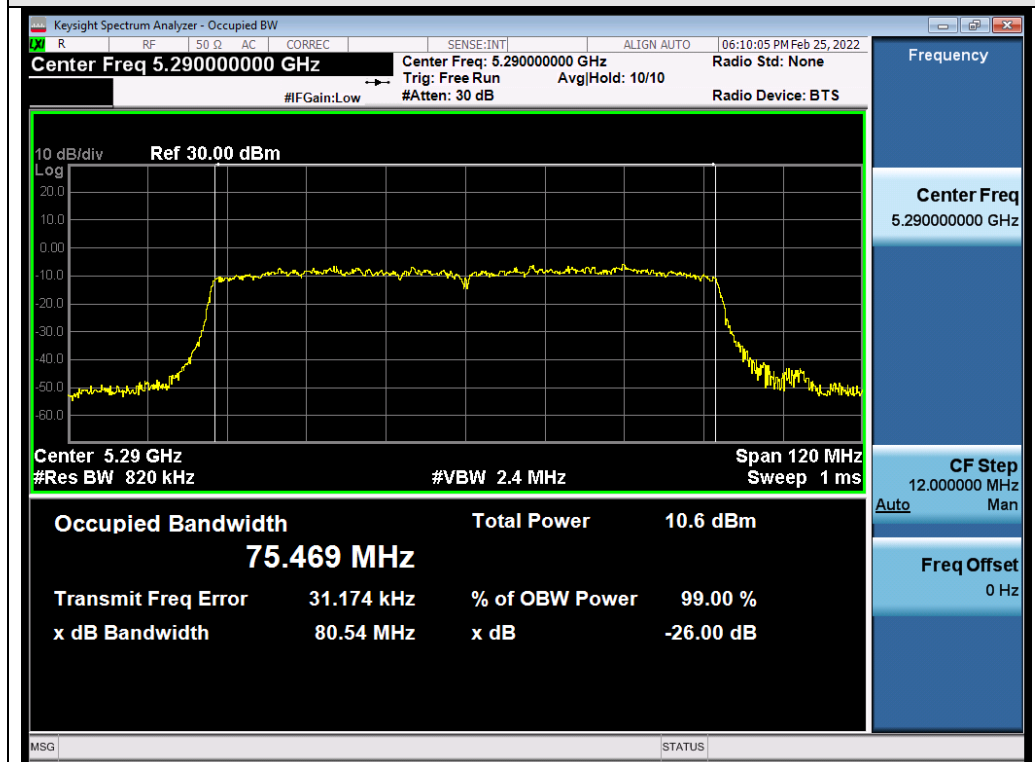
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Test_Graph_802.11ac40_ANT1_5310_MCS9_OBW



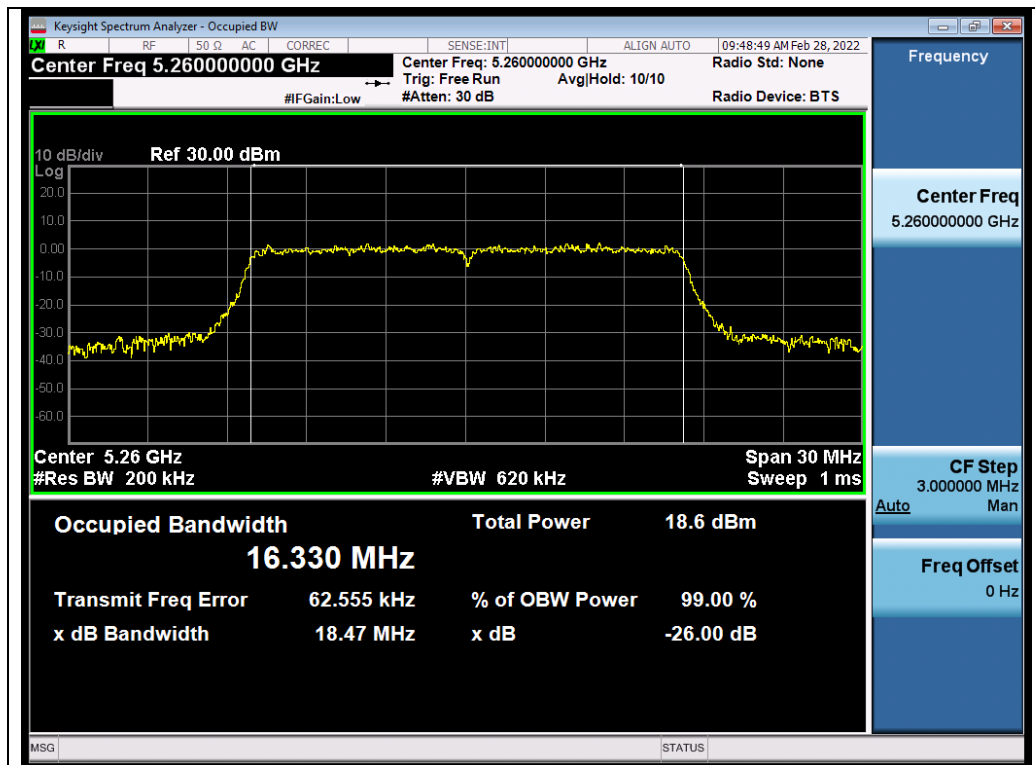
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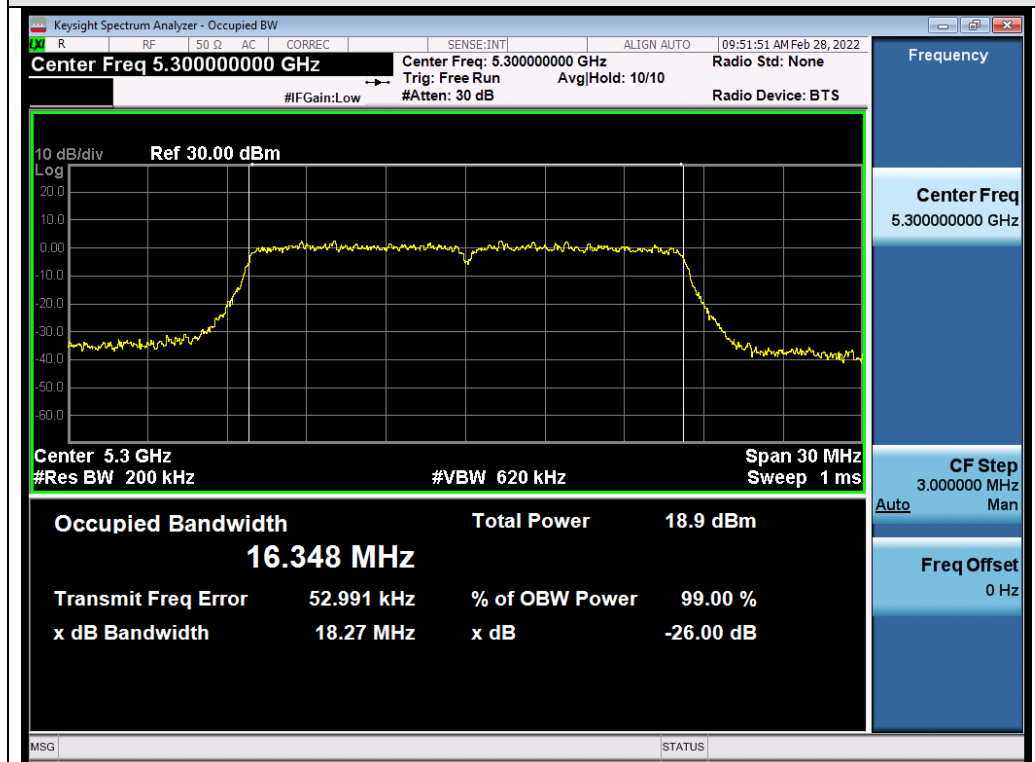
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Test_Graph_802.11a_ANT2_5260_6Mbps_OBW



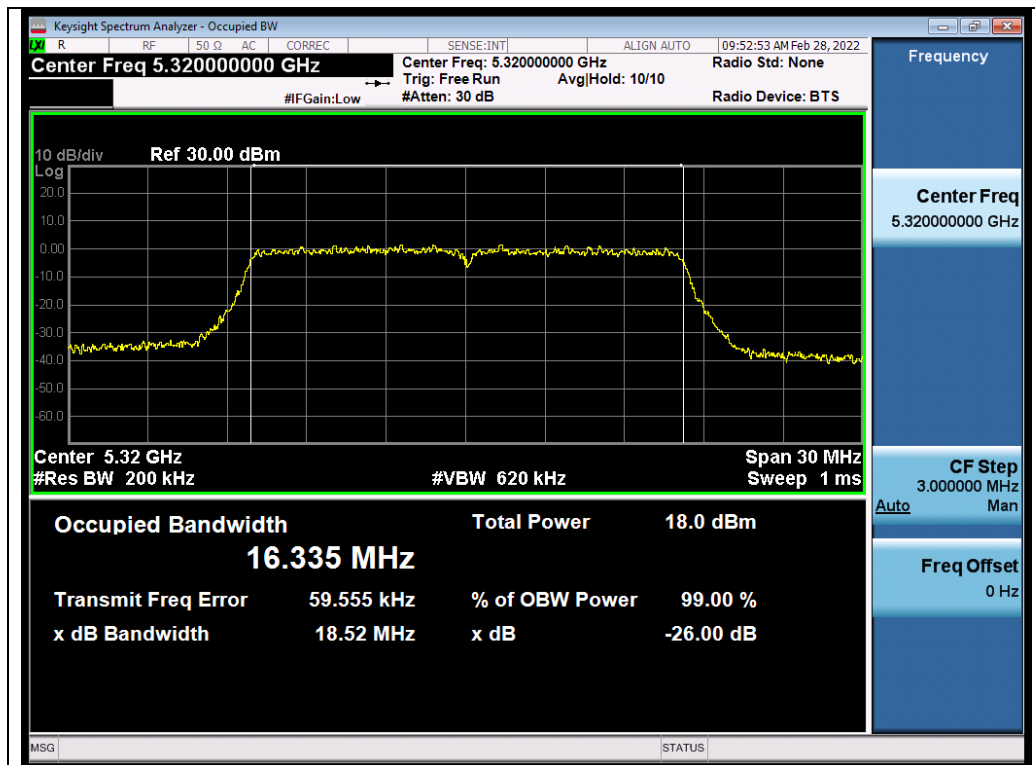
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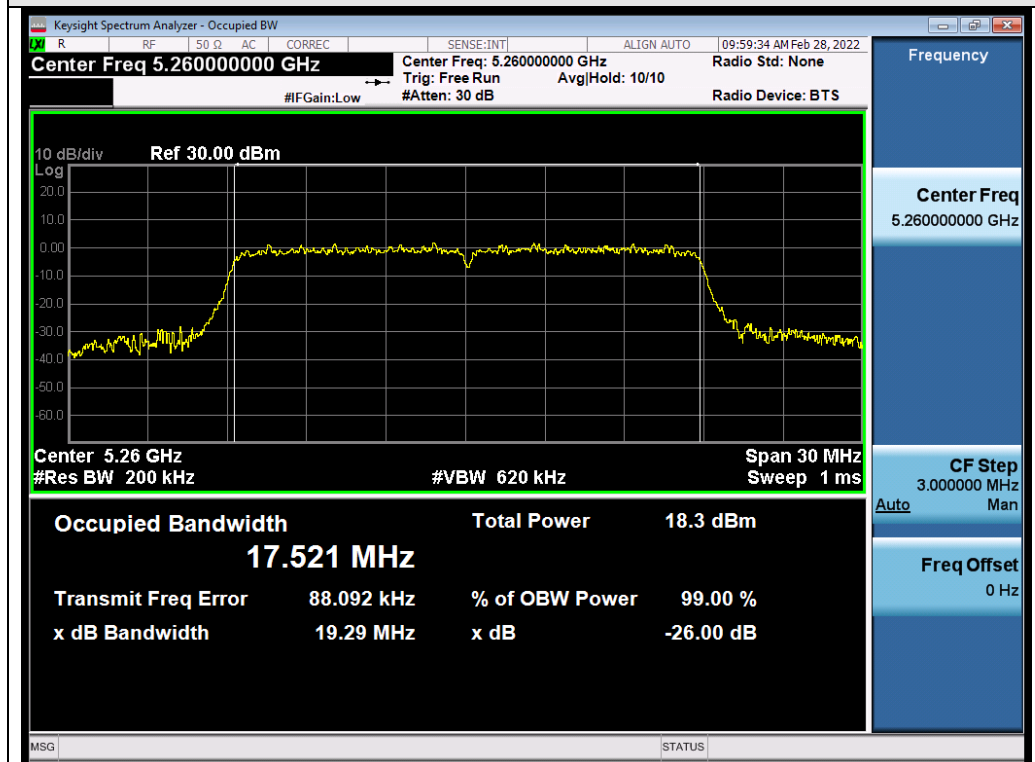
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Test_Graph_802.11a_ANT2_5320_6Mbps_OBW



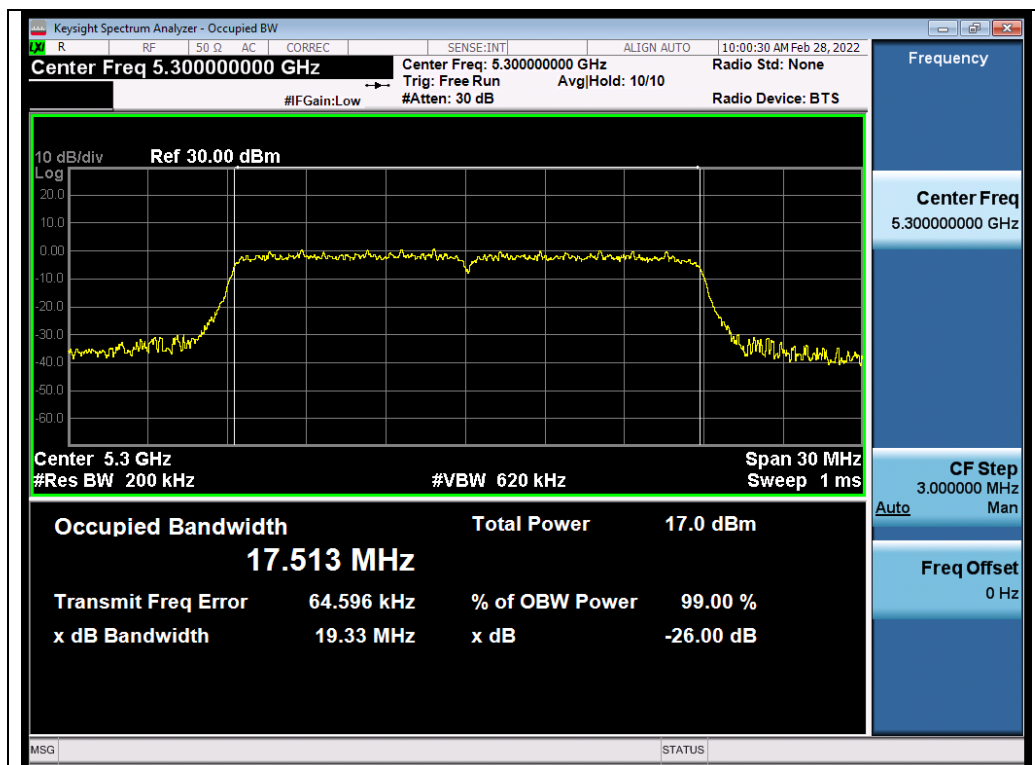
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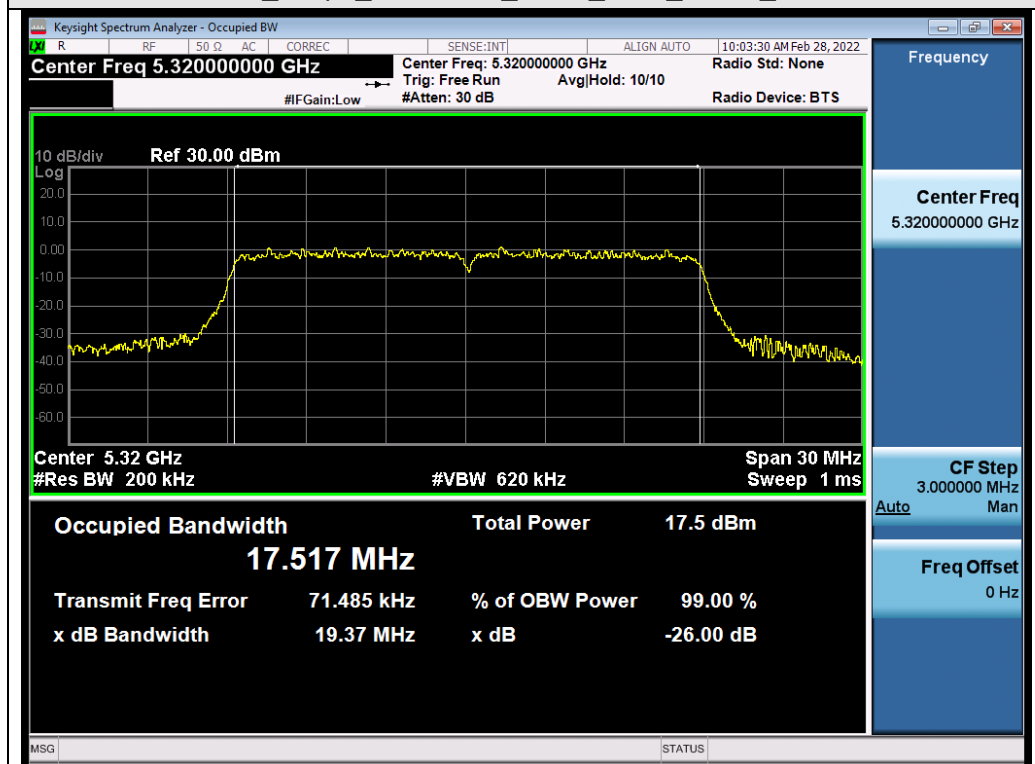
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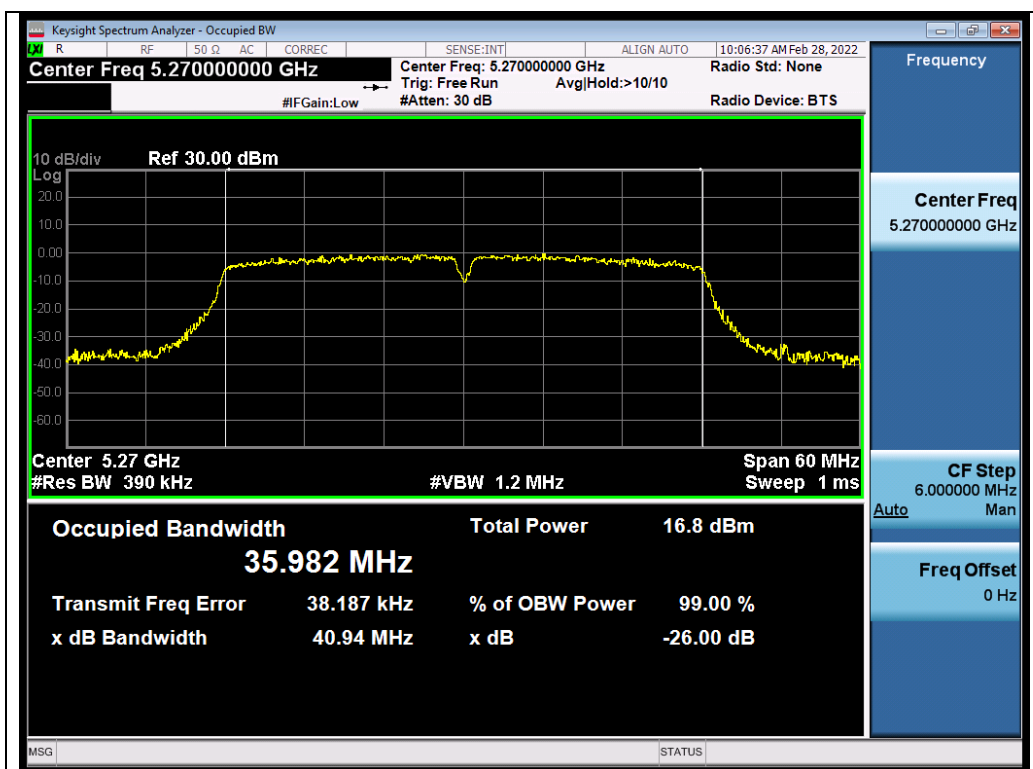
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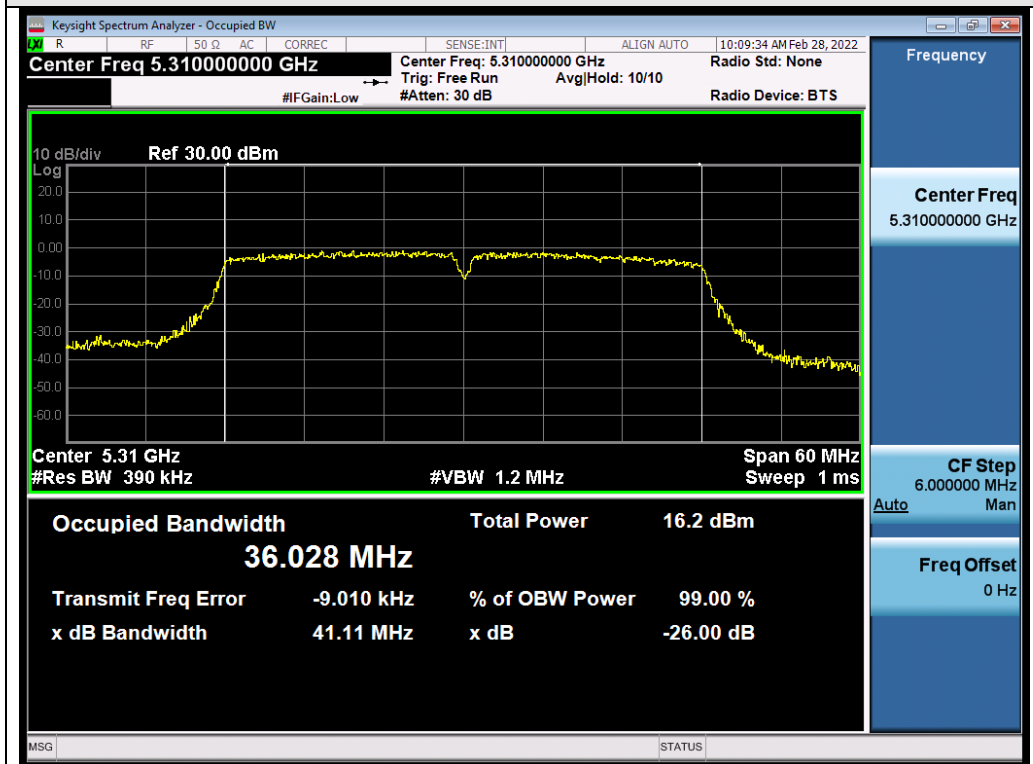
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Test_Graph_802.11n40_ANT2_5270_MCS0_OBW



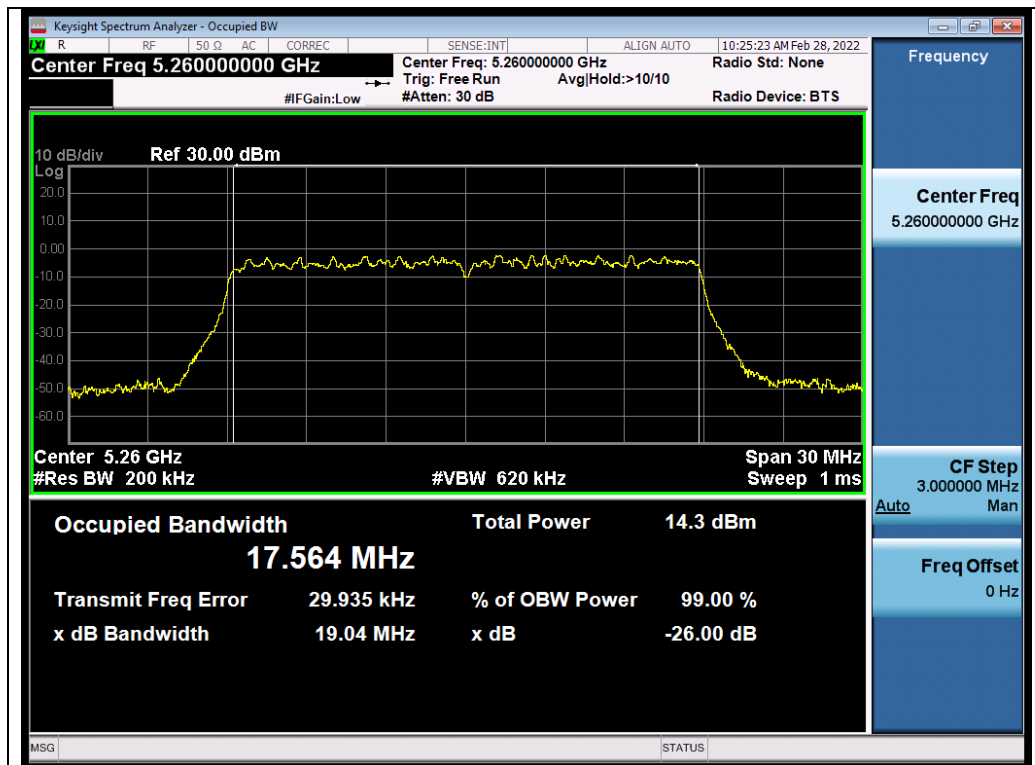
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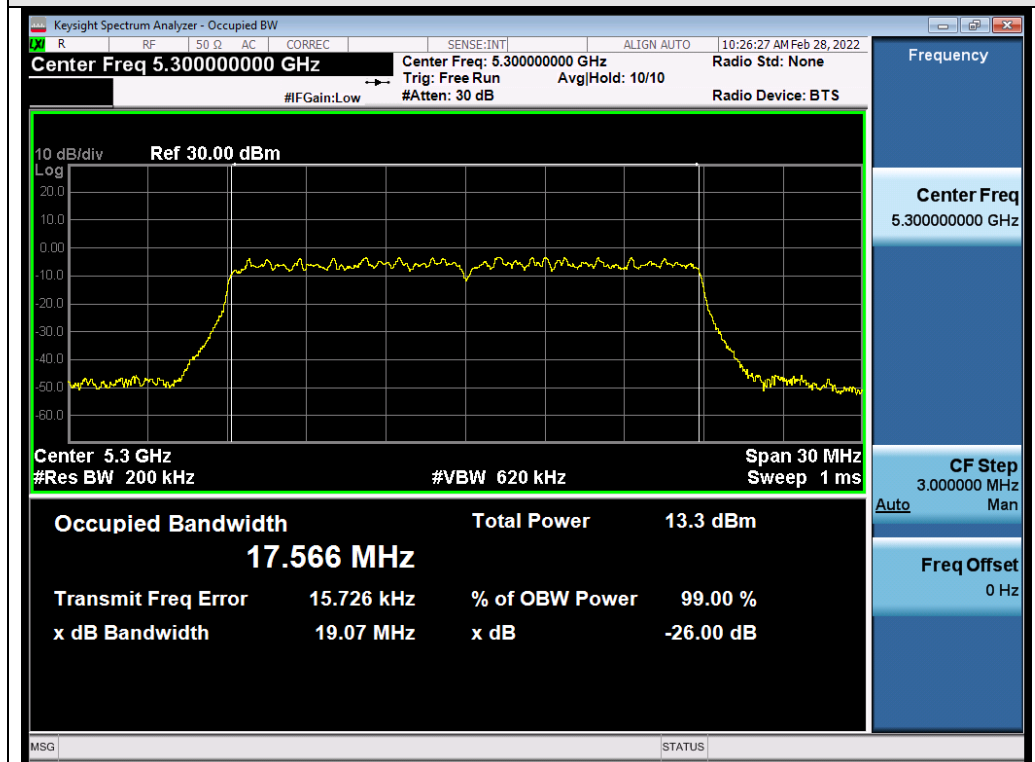
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Test_Graph_802.11ac20_ANT2_5260_MCS0_OBW



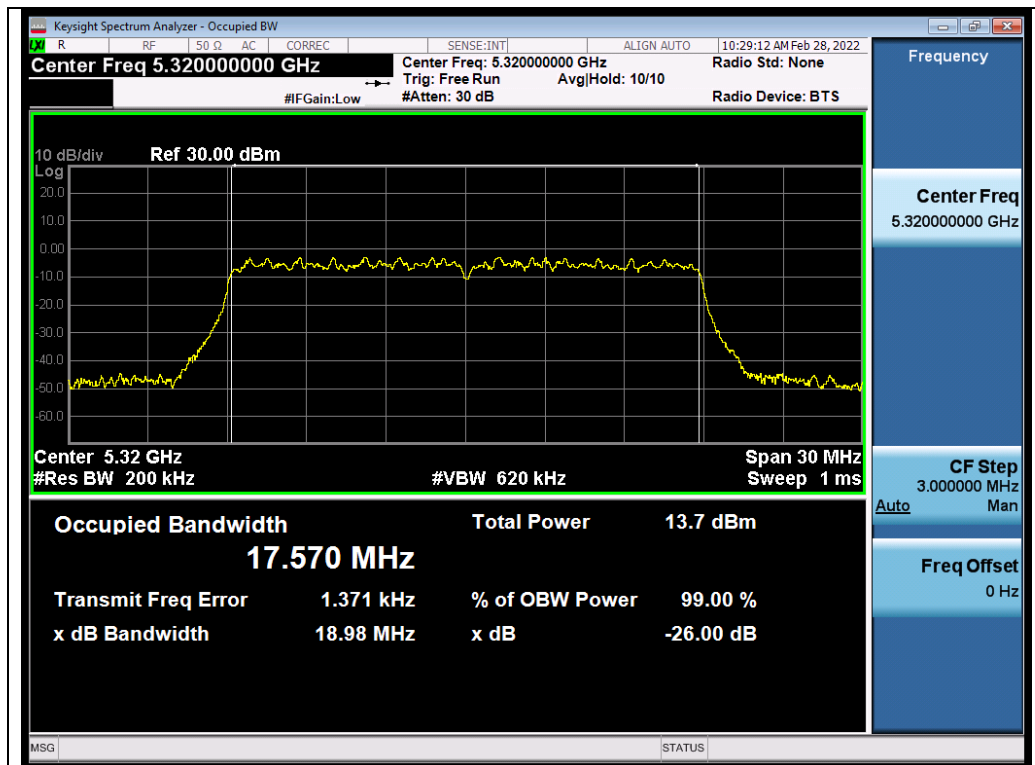
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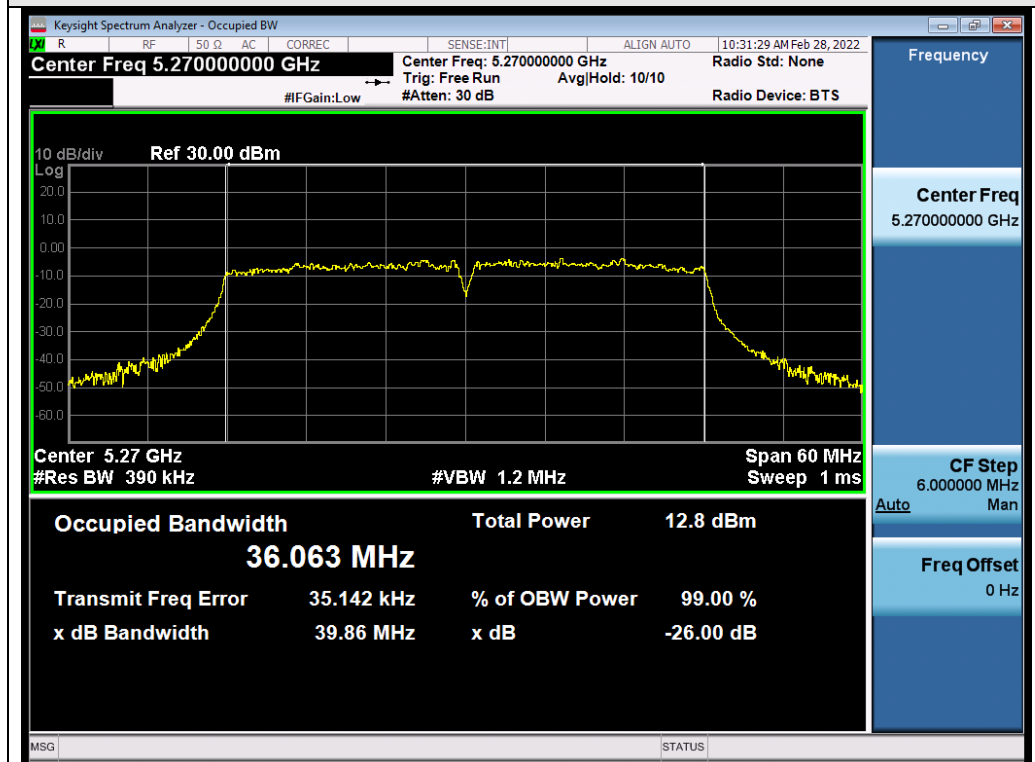
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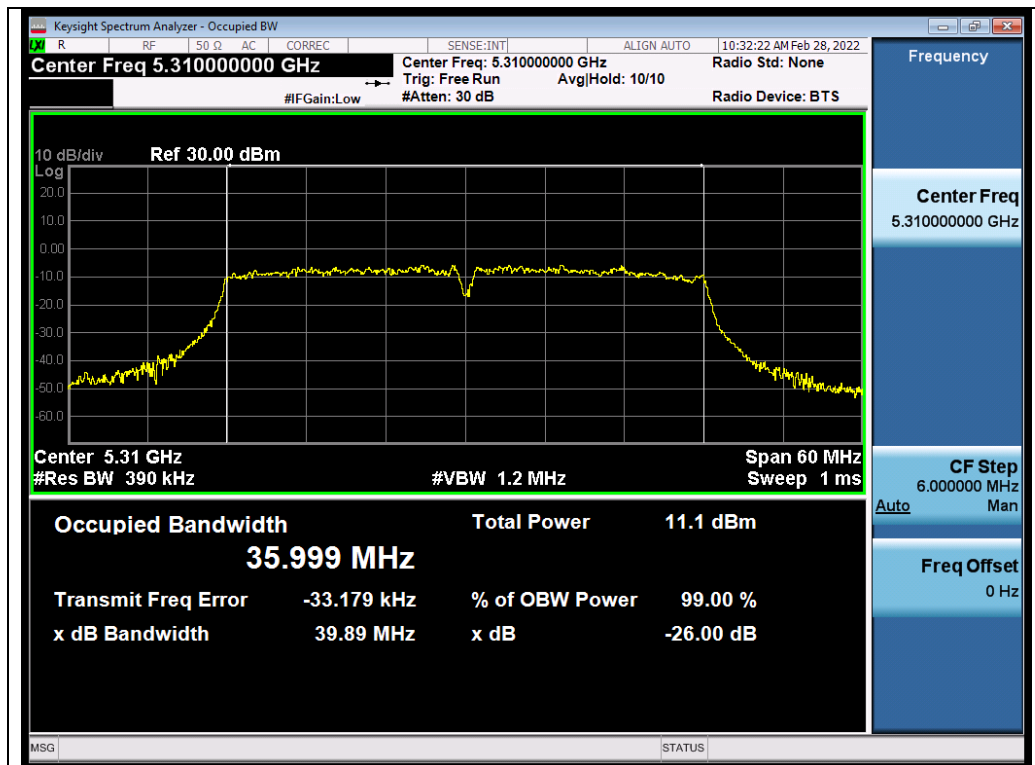


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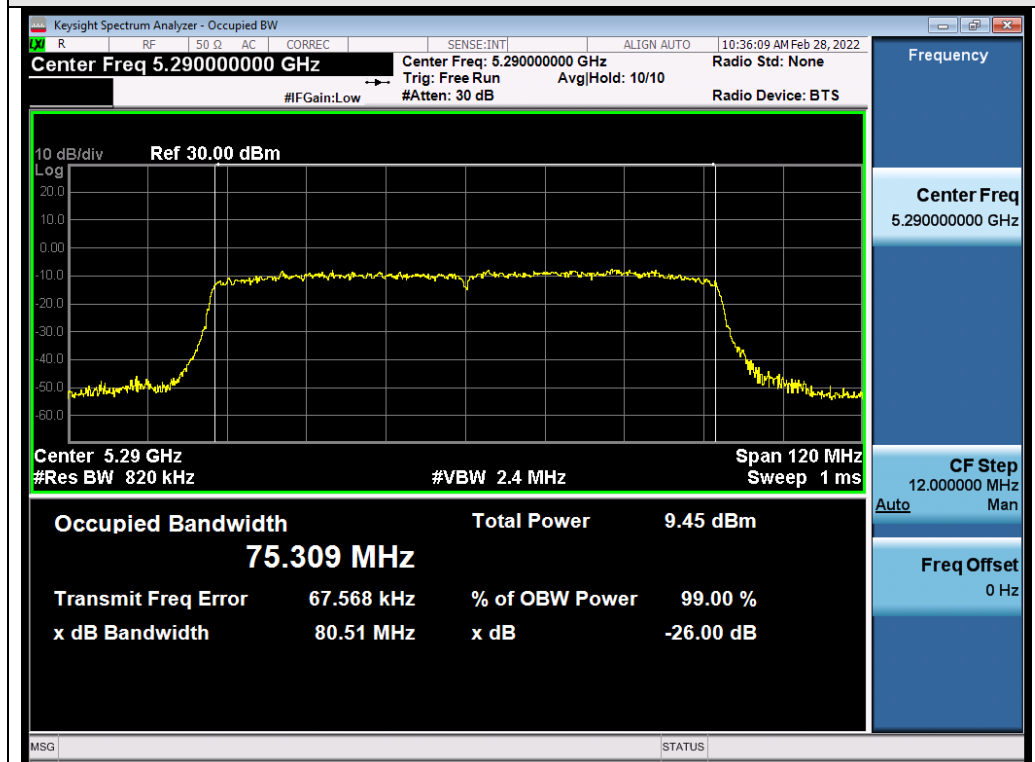


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Test_Graph_802.11ac40_ANT2_5310_MCS9_OBW



Test_Graph_802.11ac80_ANT2_5290_MCS9_OBW

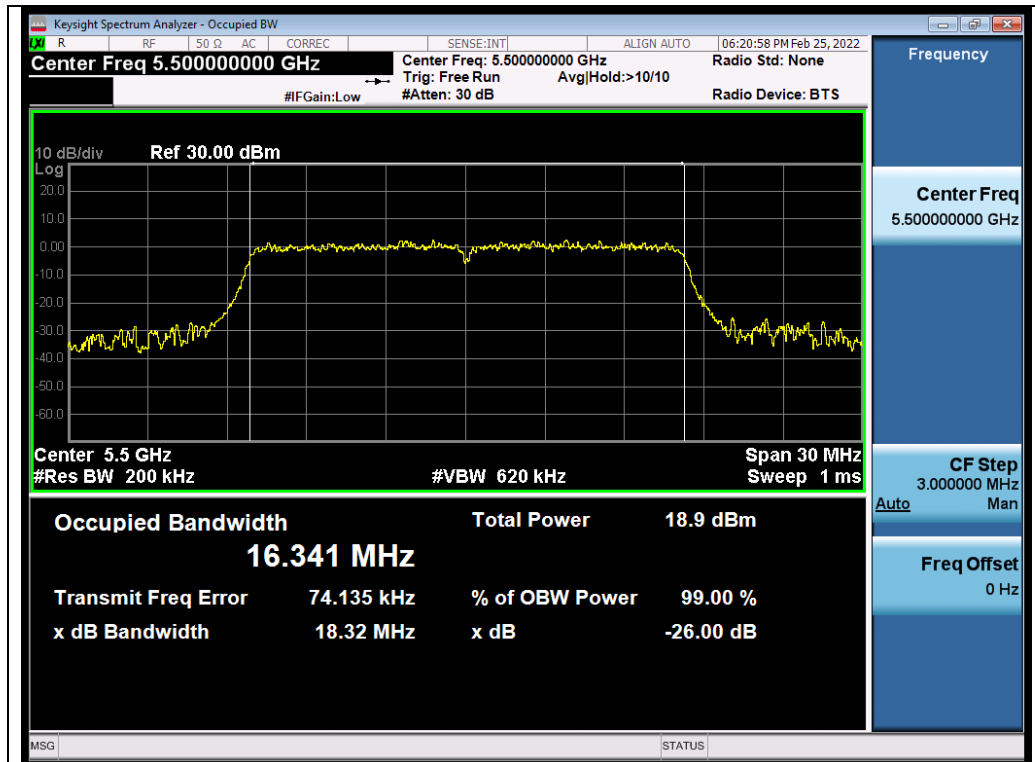
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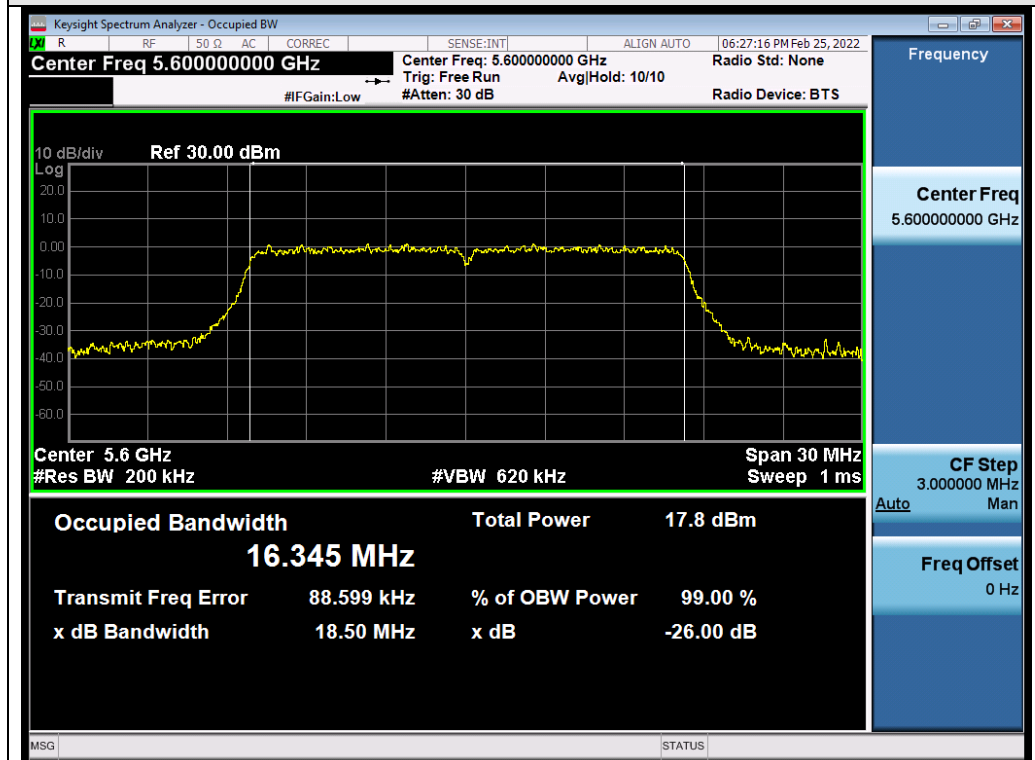
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz

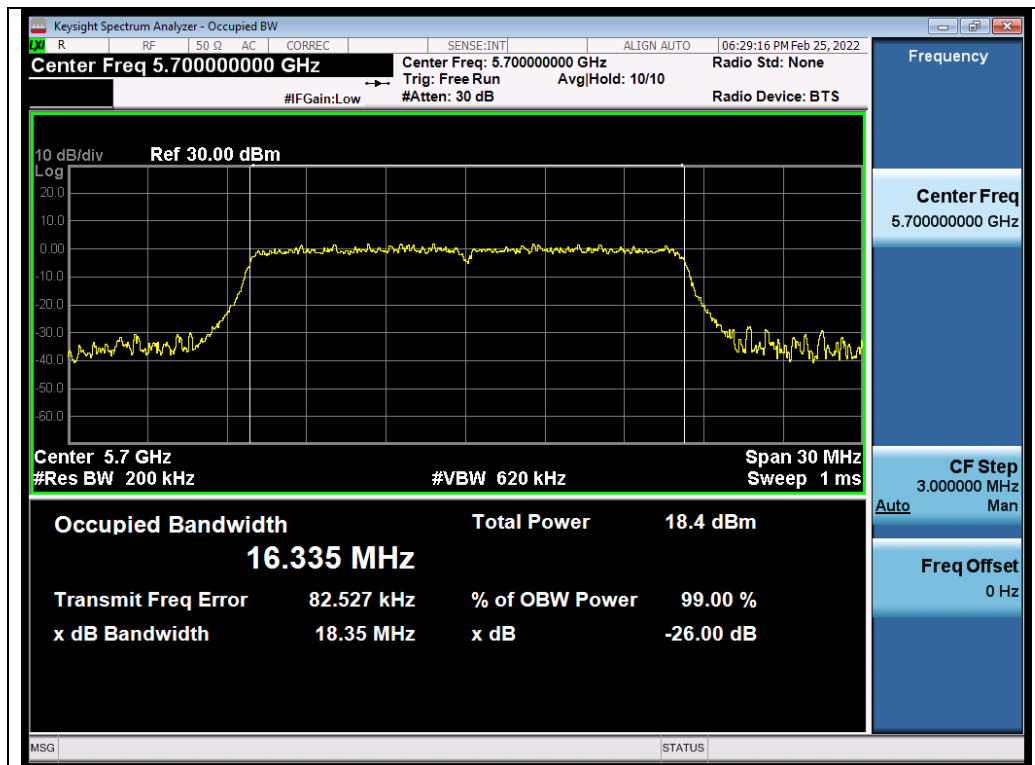


Test_Graph_802.11a_ANT1_5500_6Mbps_OBW

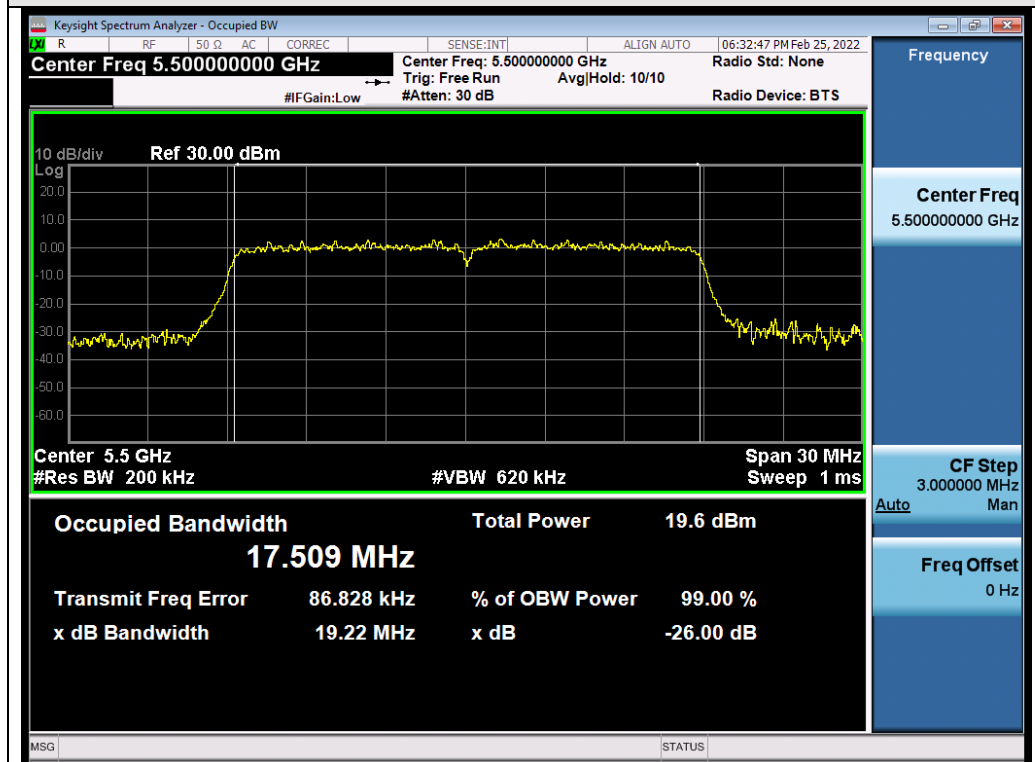


Test_Graph_802.11a_ANT1_5600_6Mbps_OBW

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Test_Graph_802.11a_ANT1_5700_6Mbps_OBW



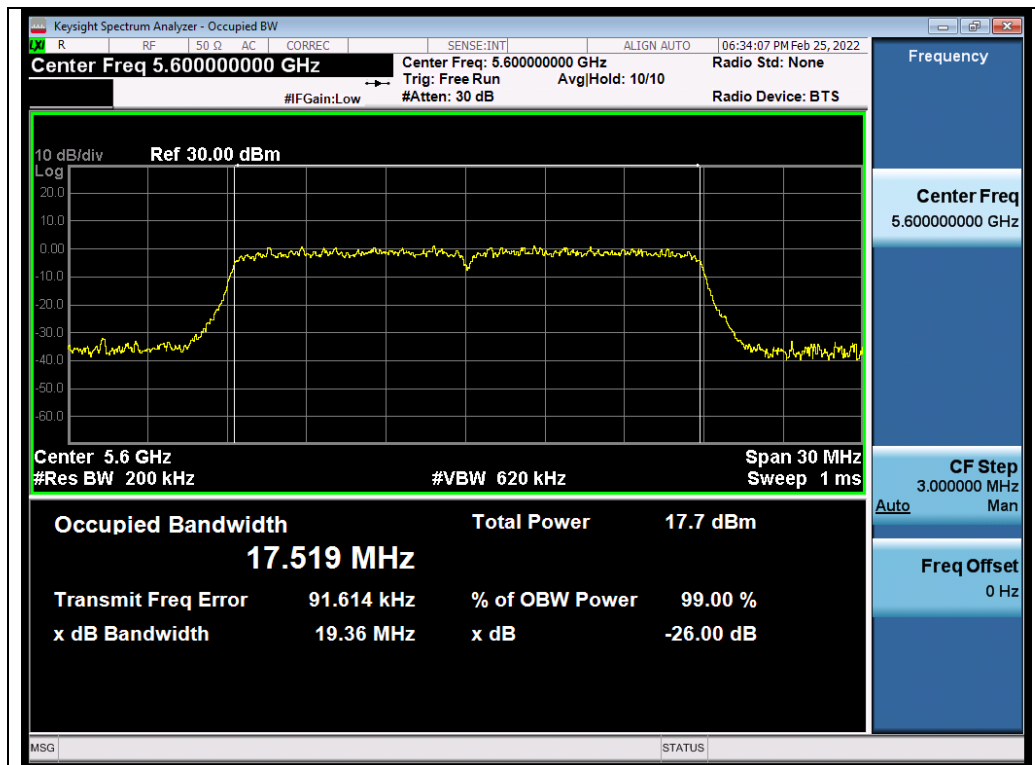
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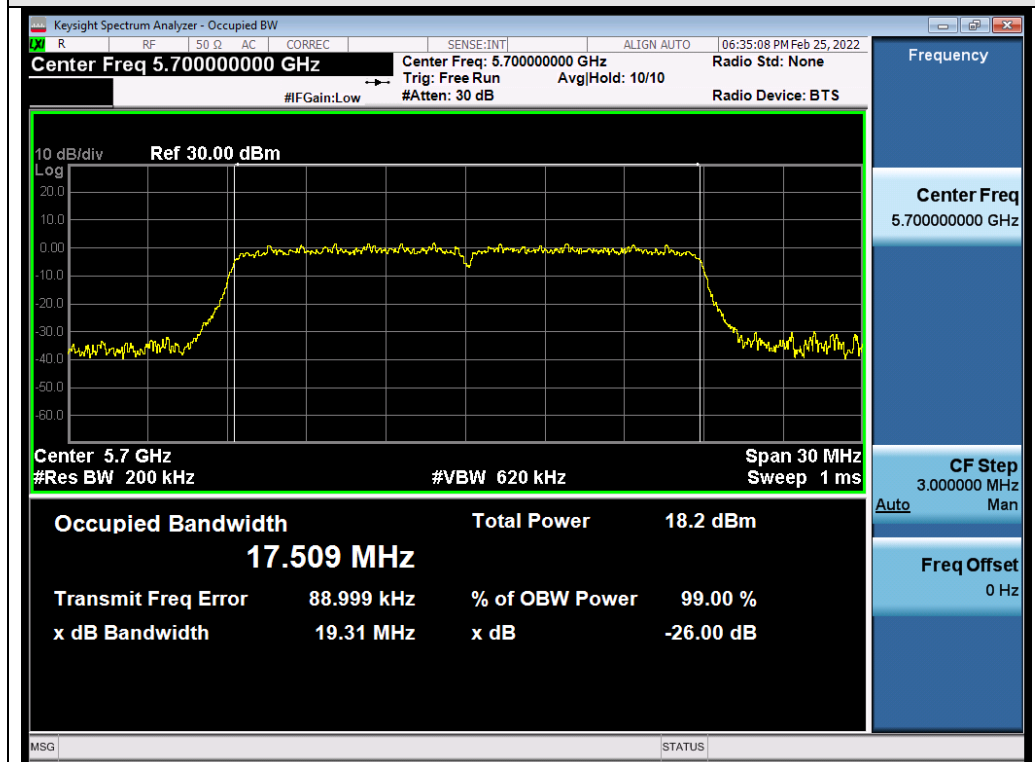
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Test_Graph_802.11n20_ANT1_5600_MCS0_OBW



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Test_Graph_802.11n40_ANT1_5510_MCS0_OBW



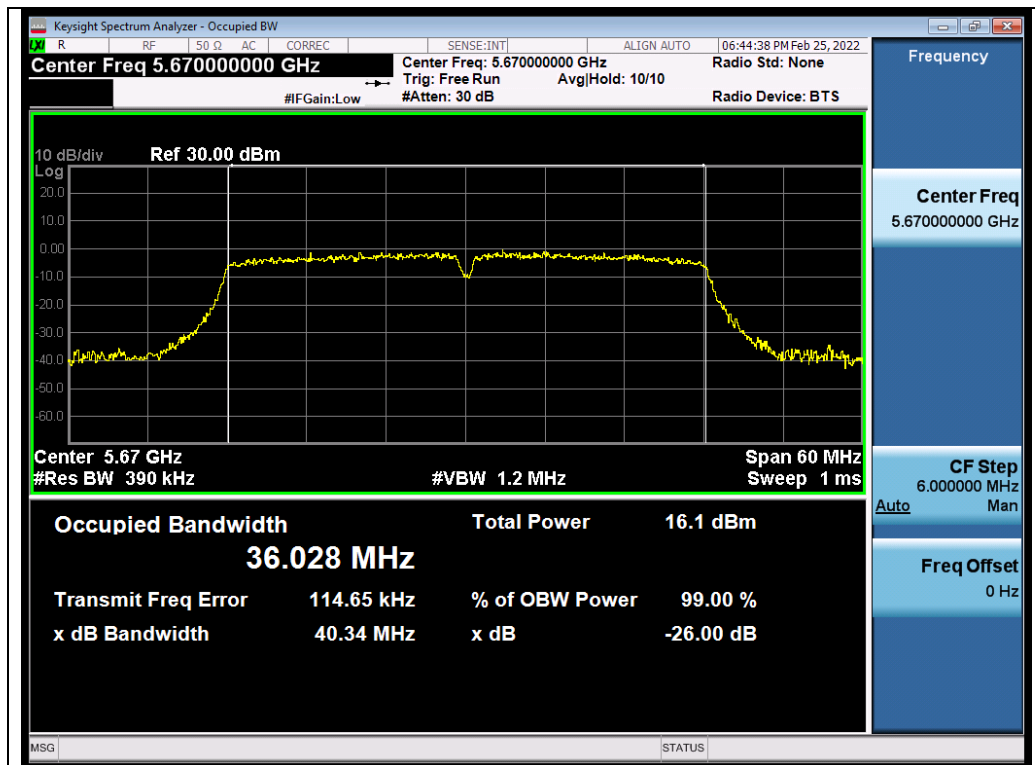
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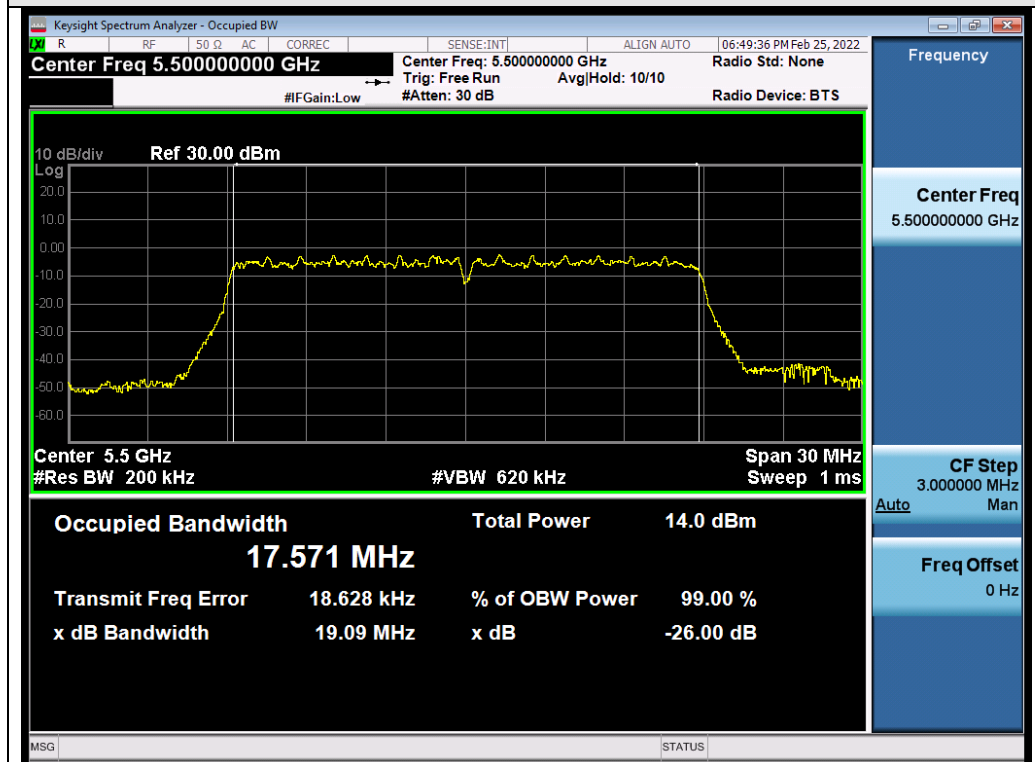
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Test_Graph_802.11n40_ANT1_5670_MCS0_OBW



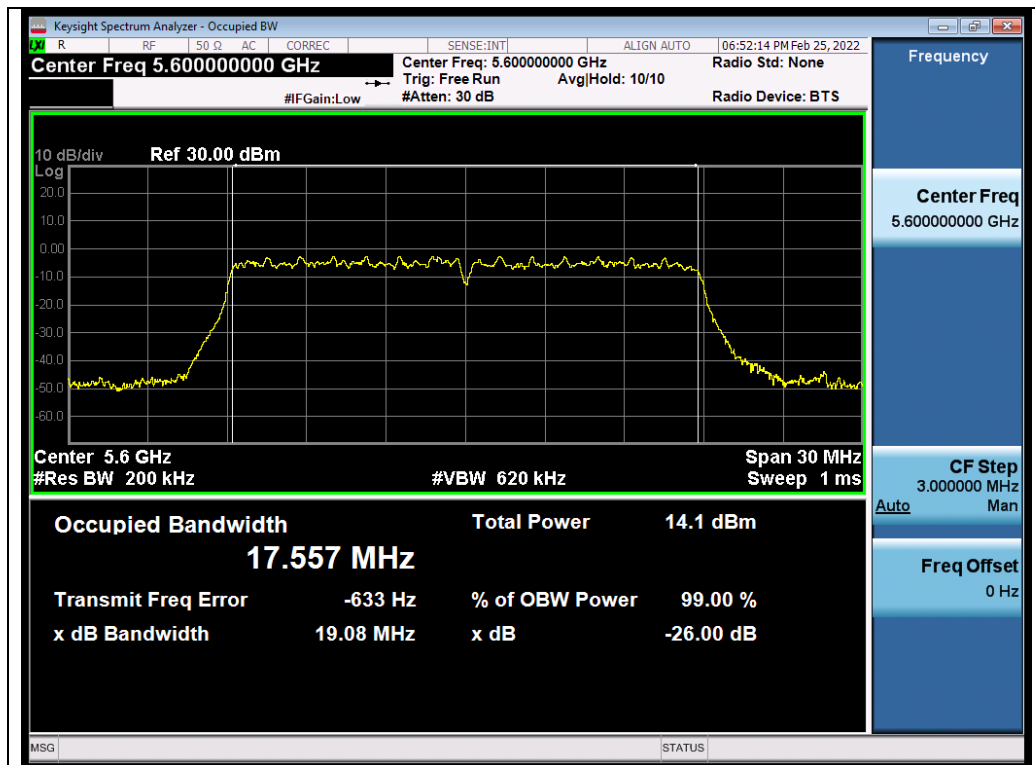
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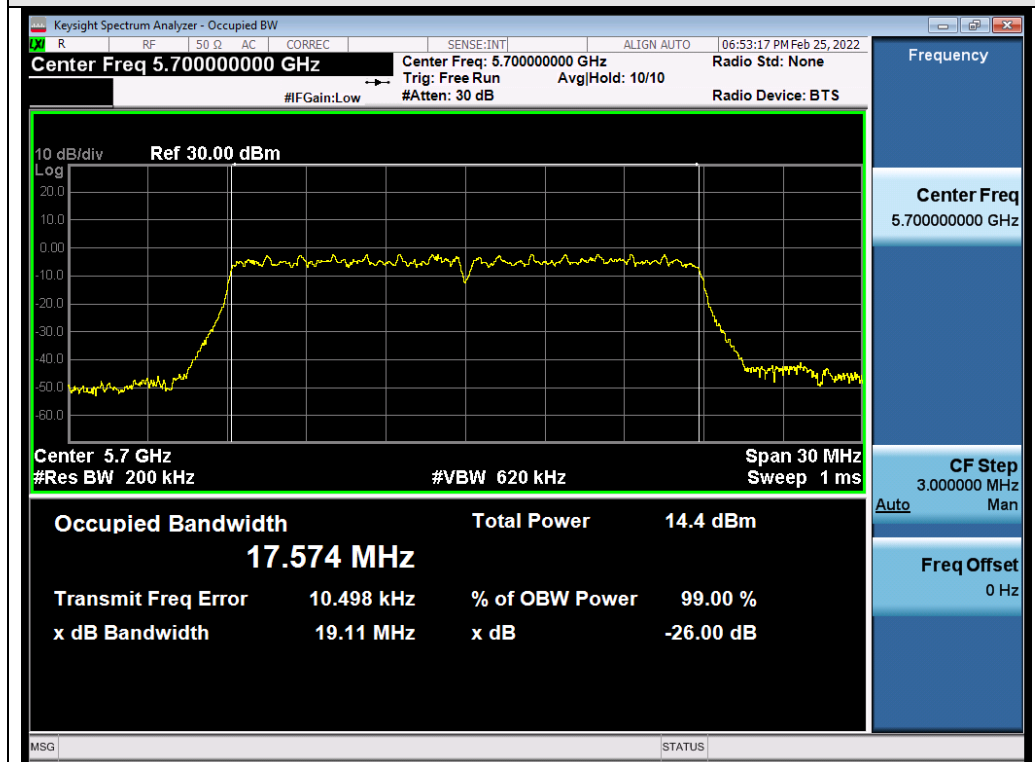
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Test_Graph_802.11ac20_ANT1_5600_MCS0_OBW



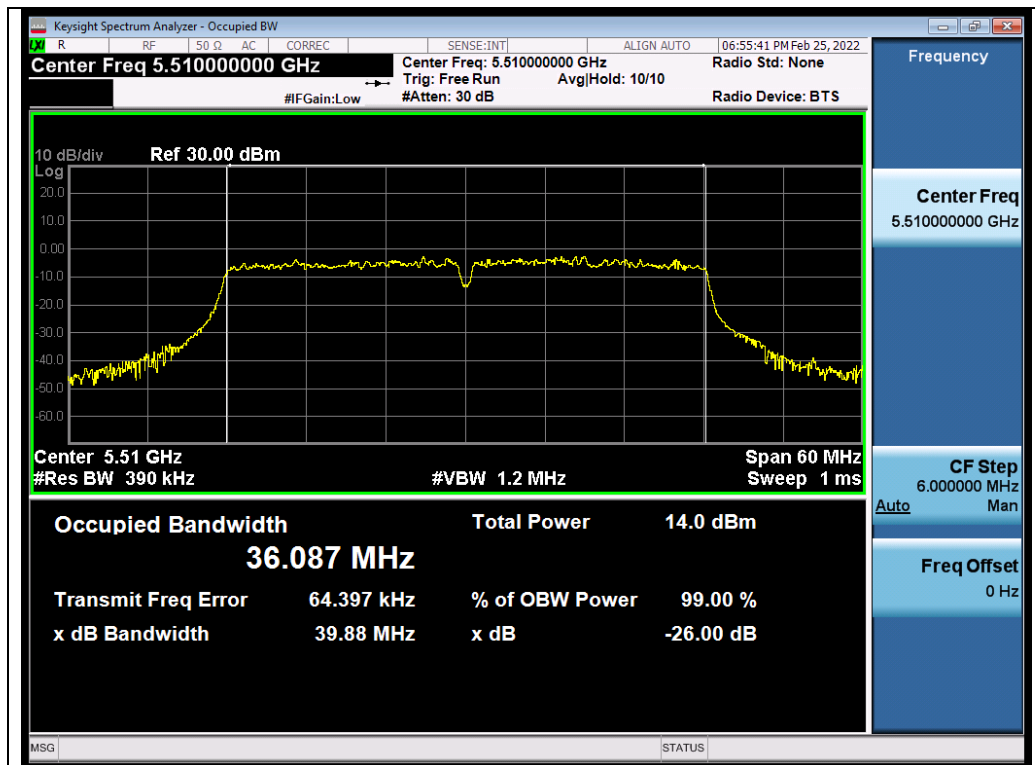
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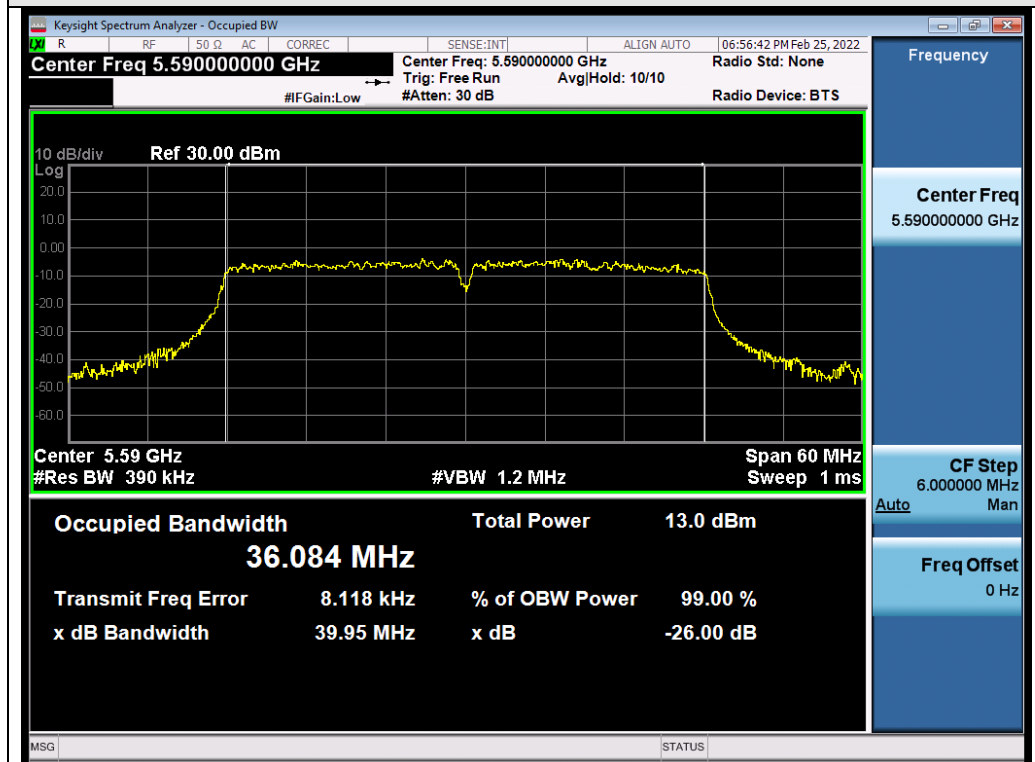
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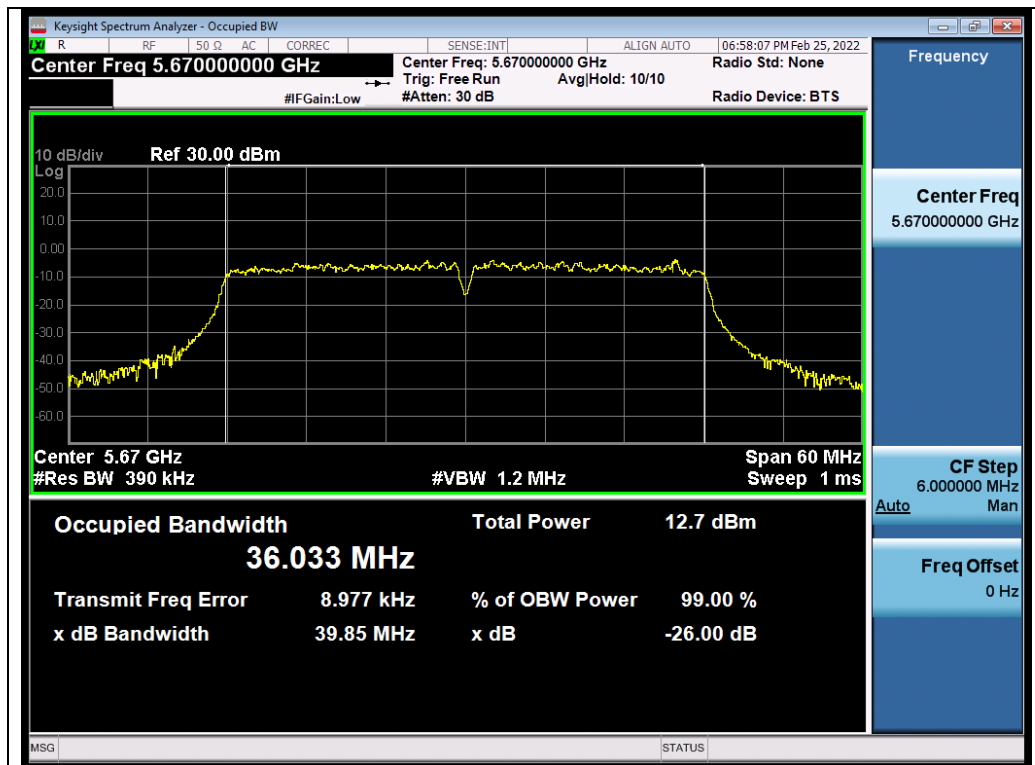


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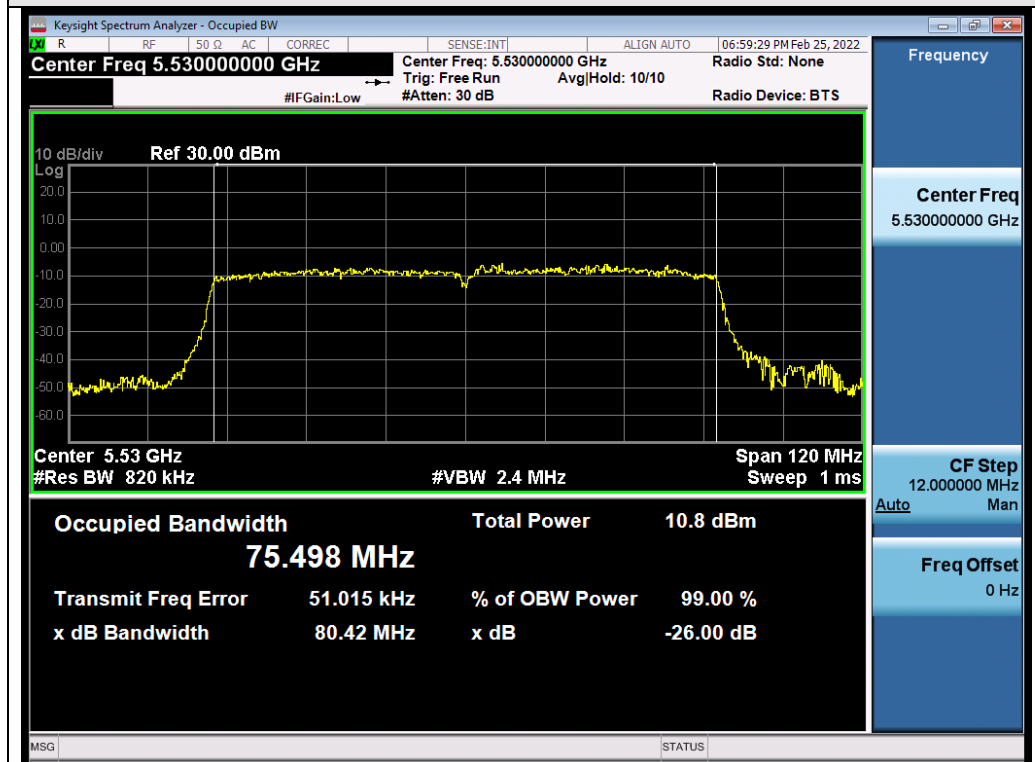


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Test_Graph_802.11ac40_ANT1_5670_MCS9_OBW



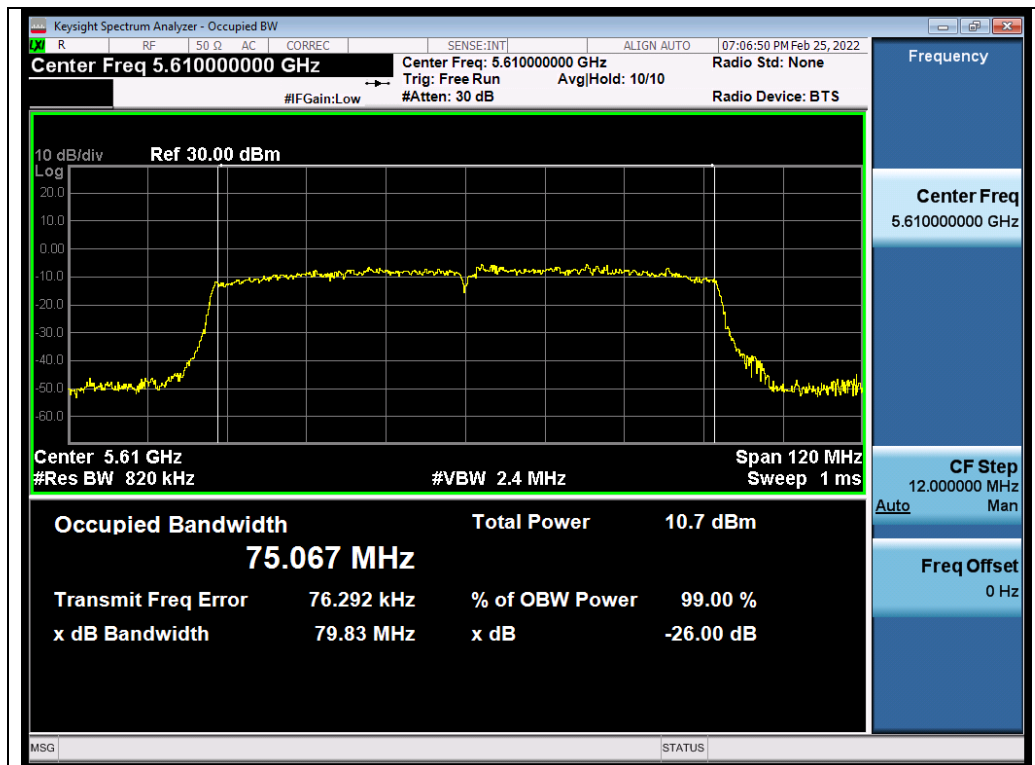
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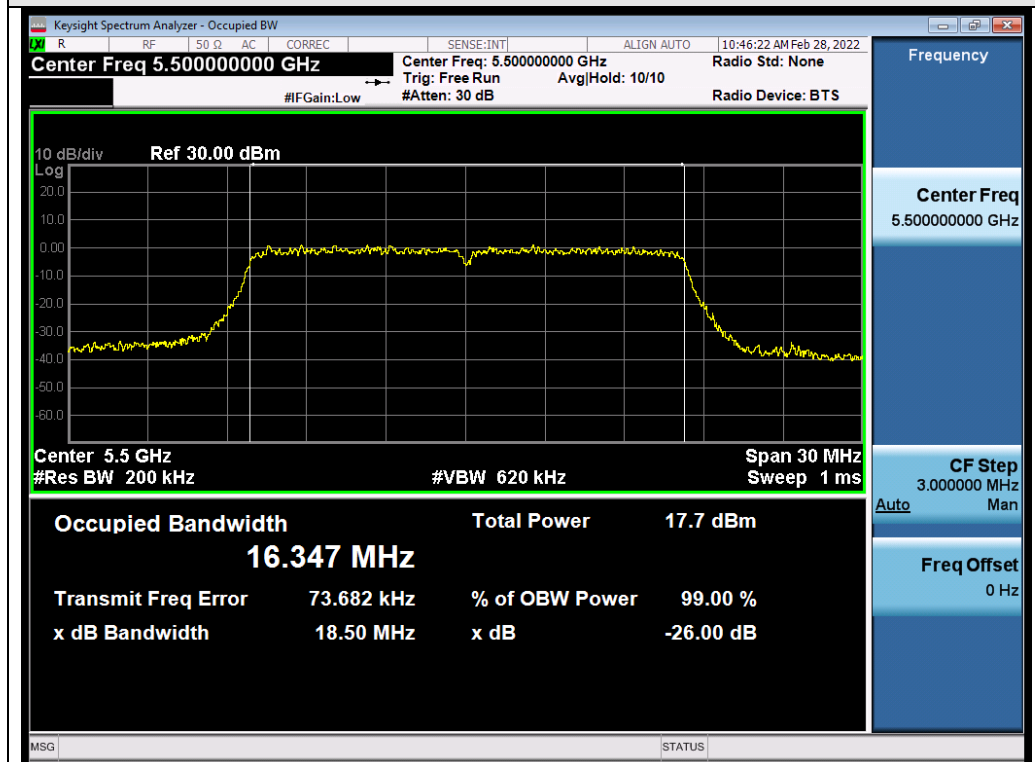
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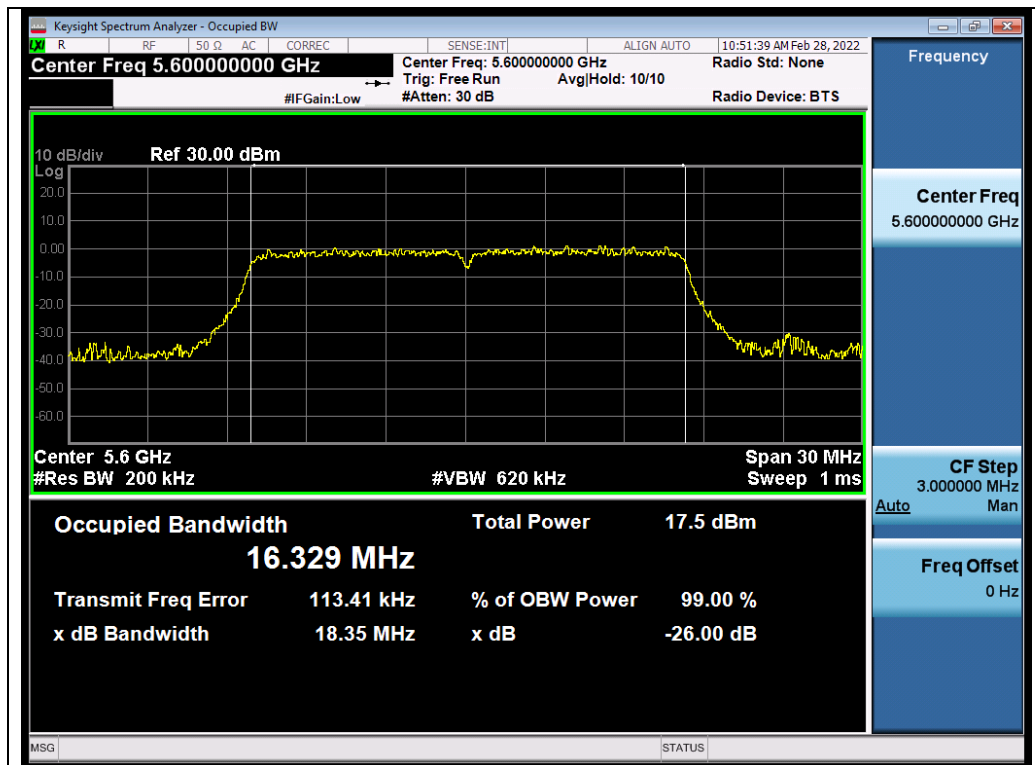
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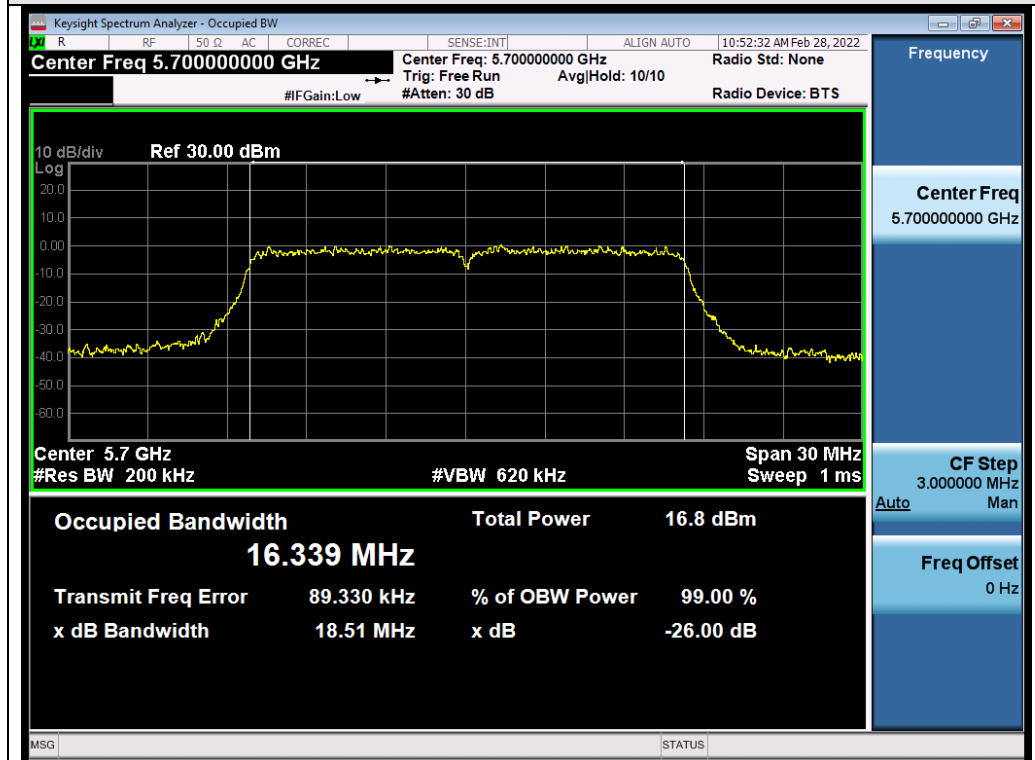
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Test_Graph_802.11a_ANT2_5600_6Mbps_OBW



Test_Graph_802.11a_ANT2_5700_6Mbps_OBW

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