

FCC Test Report

Report No.: AGC00408210701FE06

FCC ID : 2AL95-T62PRO
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : 4G Smart Phone
BRAND NAME : AGM
MODEL NAME : H3, AGM H3, AGM H3 PRO, AGM H3 SE
APPLICANT : AGM Group Limited
DATE OF ISSUE : Aug. 09, 2021
STANDARD(S) : FCC Part 15.407
TEST PROCEDURE(S) : KDB 789033 D02 v02r01
REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug. 09, 2021	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	AGM Group Limited
Address	Level 5, Development Bank of Samoa Building, Beach Road, Apia, Samoa
Manufacturer	Shenzhen AIJIEMO Technology Company Limited
Address	2 / F, Building A2, Huafeng Century Science and Technology Park, Gushu, Xixiang, Bao 'an District, Shenzhen City, Guangdong Province, China
Factory	Shenzhen AIJIEMO Technology Company Limited
Address	2 / F, Building A2, Huafeng Century Science and Technology Park, Gushu, Xixiang, Bao 'an District, Shenzhen City, Guangdong Province, China
Product Designation	4G Smart Phone
Brand Name	AGM
Test Model	H3
Series Model	AGM H3, AGM H3 PRO, AGM H3 SE
Difference Description	All the same except the model name.
Date of test	Jul. 05, 2021~Aug. 09, 2021
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

Eddy Liu

Eddy Liu
(Project Engineer)

Aug. 09, 2021

Reviewed By

Calvin Liu

Calvin Liu
(Reviewer)

Aug. 09, 2021

Approved By

Forrest Lei

Forrest Lei
Authorized Officer

Aug. 09, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “4G Smart Phone”. 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

Operation Frequency	5150 MHz~5250MHz; 5250 MHz~5350MHz; 5725 MHz~5850MHz
Output Power	IEEE 802.11a20:13.53dBm; IEEE 802.11n(20):13.48dBm; IEEE802.11n(40):13.46dBm; IEEE 802.11ac(20):13.64dBm; IEEE 802.11ac(40):12.65dBm; IEEE 802.11ac(80): 13.38dBm
Modulation	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM, OFDM
Number of channels	21
Hardware Version	V1.1
Software Version	V1.12.23
Antenna Designation	PIFA Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	3dBi
Power Supply	DC 3.85V by battery.

Note:

1. EUT is designed as a client device without radar detection.
2. The device do not support TPC.

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2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency	Frequency Band	Channel Number	Frequency
5150 GHz~ 5250GHz	36	5180 MHz	5725 GHz~ 5850GHz	149	5745 MHz
	38	5190 MHz		151	5755 MHz
	40	5200 MHz		153	5765 MHz
	42	5210 MHz		155	5775MHz
	44	5220 MHz		157	5785 MHz
	46	5230 MHz		159	5795 MHz
	48	5240 MHz		161	5805 MHz
5250 MHz~ 5350MHz	52	5260 MHz		165	5825MHz
	54	5270 MHz	--	--	--
	56	5280 MHz	--	--	--
	58	5290 MHz	--	--	--
	60	5300 MHz	--	--	--
	62	5310 MHz	--	--	--

Note: For 20MHZ bandwidth system use Channel 36,40,44,48,52,54,56,58,60,62,149,153,157,161,165; For 40MHZ bandwidth system use Channel 38,46,54, 62,151,159. For 80MHZ bandwidth system use Channel 42,58,155.

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

This submittal(s) (test report) is intended for **FCC ID: 2AL95-T62PRO** 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.

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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	36,40,44,48,52,56,60 149,153,157,161,165	36,40,48,52,60, 149,157,165	OFDM	6Mbps/MCS0
802.11n/ac40	38,46,54,62,151,159	38,46,54,62 151,159	OFDM	MCS0
802.11ac80	42, 58,155	42, 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.
4. The test software is through engineering commands, EUT can be set to a separate test mode.

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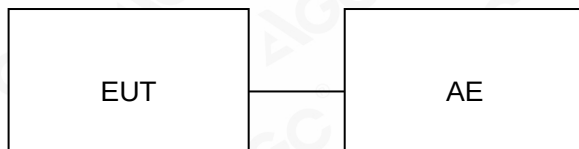
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	4G Smart Phone	H3	FCC ID: 2AL95-T62PRO	EUT
2	Adapter	TPA-67050200VU	Input: AC 100-240V 0.3A Output: DC 5V 2A	AE
3	Battery	H3	DC 3.85V 5400mAh	AE
4	USB Cable	N/A	N/A	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 11, 2021	May 10, 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	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
Power sensor	Aglient	U2021XA	MY54110007	May 11, 2021	May 10, 2025
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	Sep.21, 2019	Sep. 20, 2021
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, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
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

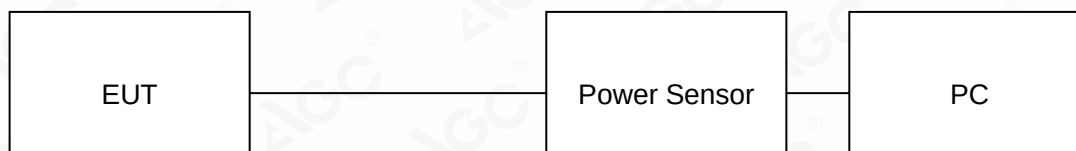
For average power test:

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				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	12.23	23.98	Pass
	5200	11.96	23.98	Pass
	5240	12.44	23.98	Pass
802.11n20	5180	11.95	23.98	Pass
	5200	12.19	23.98	Pass
	5240	12.74	23.98	Pass
802.11n40	5190	12.32	23.98	Pass
	5230	12.76	23.98	Pass
802.11ac20	5180	11.96	23.98	Pass
	5200	12.06	23.98	Pass
	5240	12.65	23.98	Pass
802.11ac40	5190	12.30	23.98	Pass
	5230	12.65	23.98	Pass
802.11ac80	5210	12.79	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	13.01	23.98	Pass
	5300	13.28	23.98	Pass
	5320	13.53	23.98	Pass
802.11n20	5260	11.94	23.98	Pass
	5300	13.20	23.98	Pass
	5320	13.48	23.98	Pass
802.11n40	5270	12.49	23.98	Pass
	5310	13.46	23.98	Pass
802.11ac20	5260	12.01	23.98	Pass
	5300	13.24	23.98	Pass
	5320	13.64	23.98	Pass
802.11ac40	5270	12.36	23.98	Pass
	5310	13.39	23.98	Pass
802.11ac80	5290	13.38	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	11.94	30	Pass
	5785	12.48	30	Pass
	5825	13.14	30	Pass
802.11n20	5745	11.69	30	Pass
	5785	12.39	30	Pass
	5825	12.87	30	Pass
802.11n40	5755	11.88	30	Pass
	5795	12.53	30	Pass
802.11ac20	5745	11.81	30	Pass
	5785	12.29	30	Pass
	5825	12.99	30	Pass
802.11ac40	5755	11.96	30	Pass
	5795	12.61	30	Pass
802.11ac80	5775	12.72	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:

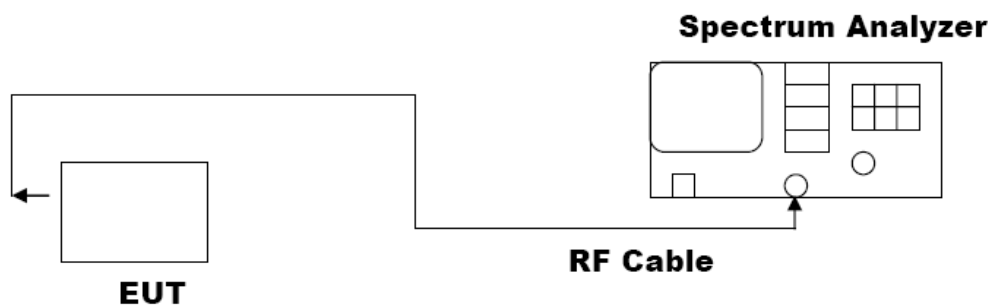
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall 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					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.402	19.647	N/A	Pass
	5200	16.418	19.808	N/A	Pass
	5240	16.408	19.657	N/A	Pass
802.11n20	5180	17.555	20.125	N/A	Pass
	5200	17.553	20.346	N/A	Pass
	5240	17.559	20.026	N/A	Pass
802.11n40	5190	35.991	40.934	N/A	Pass
	5230	35.991	40.786	N/A	Pass
802.11ac20	5180	17.540	20.013	N/A	Pass
	5200	17.540	20.002	N/A	Pass
	5240	17.547	20.003	N/A	Pass
802.11ac40	5190	35.974	44.417	N/A	Pass
	5230	35.911	39.998	N/A	Pass
802.11ac80	5210	75.416	80.638	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	16.434	19.808	N/A	Pass
	5300	16.420	19.709	N/A	Pass
	5320	16.444	19.665	N/A	Pass
802.11n20	5260	17.550	20.039	N/A	Pass
	5300	17.567	20.150	N/A	Pass
	5320	17.549	20.159	N/A	Pass
802.11n40	5270	35.961	39.934	N/A	Pass
	5310	35.971	40.370	N/A	Pass
802.11ac20	5260	17.534	20.018	N/A	Pass
	5300	17.542	20.029	N/A	Pass
	5320	17.557	20.022	N/A	Pass
802.11ac40	5270	35.898	39.857	N/A	Pass
	5310	35.883	39.909	N/A	Pass
802.11ac80	5290	75.211	80.177	N/A	Pass

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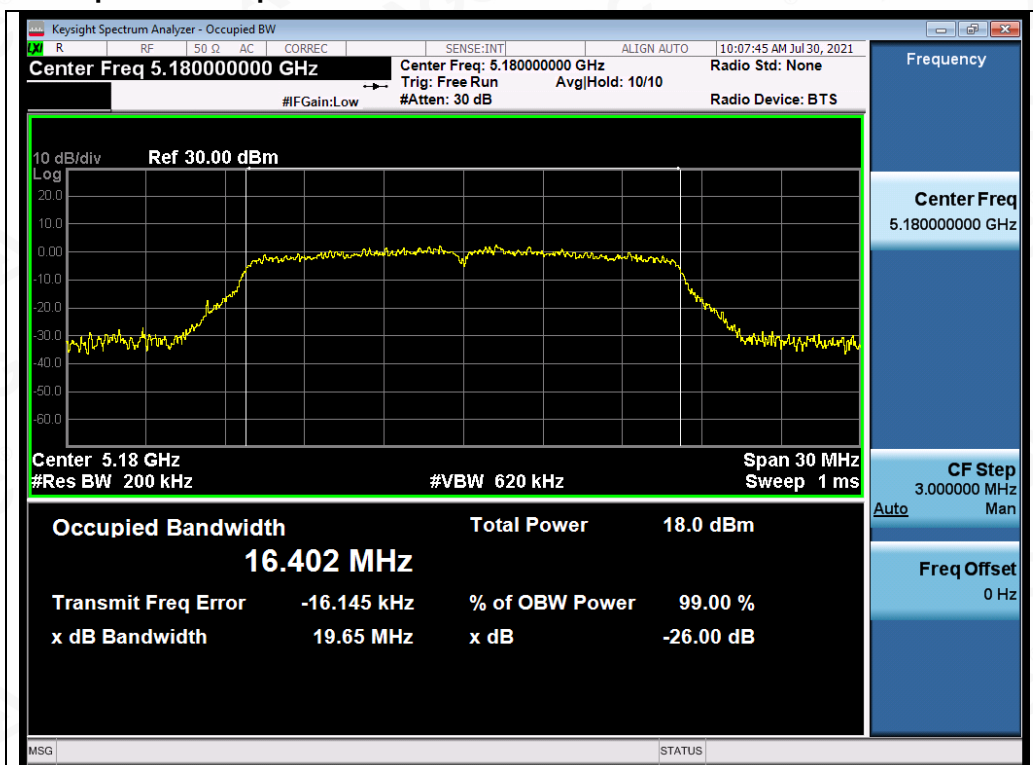
Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.472	15.101	0.5	Pass
	5785	16.449	15.122	0.5	Pass
	5825	16.463	15.090	0.5	Pass
802.11n20	5745	17.564	15.088	0.5	Pass
	5785	17.553	15.127	0.5	Pass
	5825	17.572	15.081	0.5	Pass
802.11n40	5755	36.011	35.063	0.5	Pass
	5795	36.015	35.117	0.5	Pass
802.11ac20	5745	17.561	15.121	0.5	Pass
	5785	17.542	15.101	0.5	Pass
	5825	17.594	15.100	0.5	Pass
802.11ac40	5755	35.939	35.108	0.5	Pass
	5795	35.977	35.113	0.5	Pass
802.11ac80	5775	75.373	75.130	0.5	Pass

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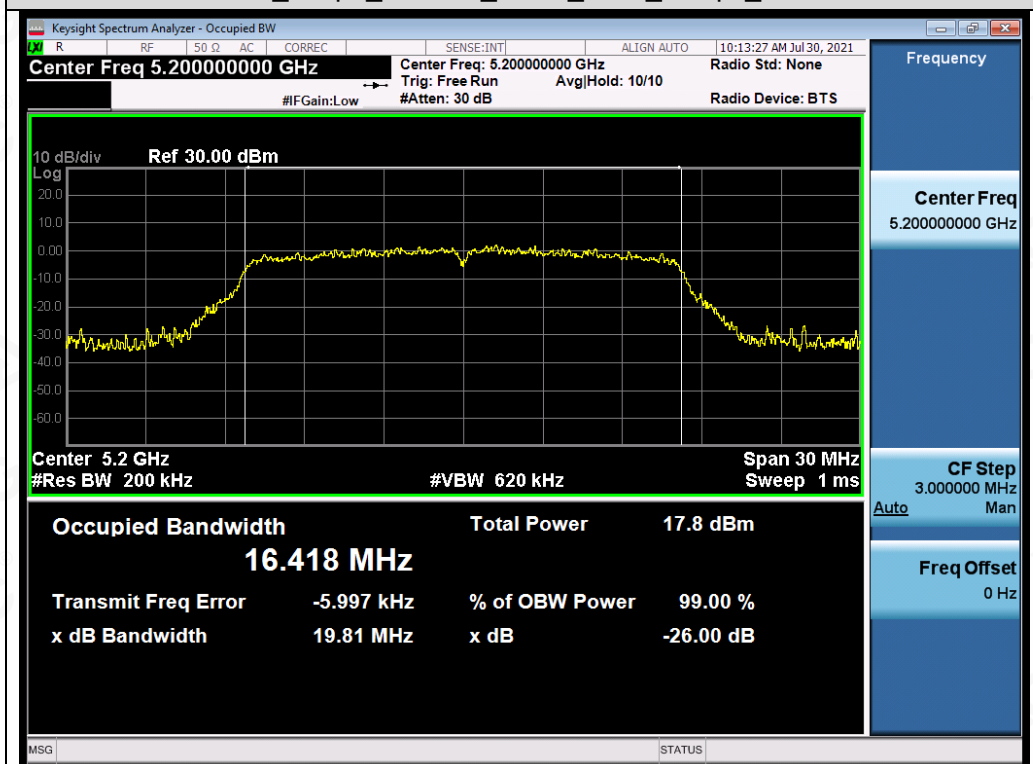
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz



Test_Graph_802.11a_ANT1_5180_6Mbps_OBW

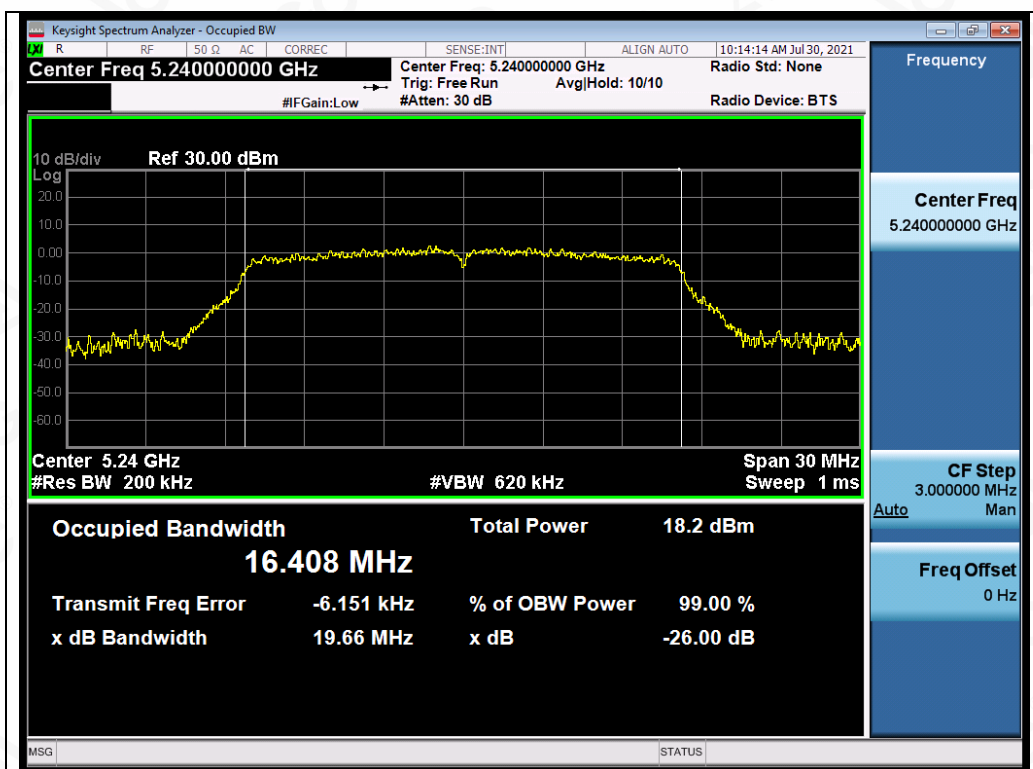


Test_Graph_802.11a_ANT1_5200_6Mbps_OBW

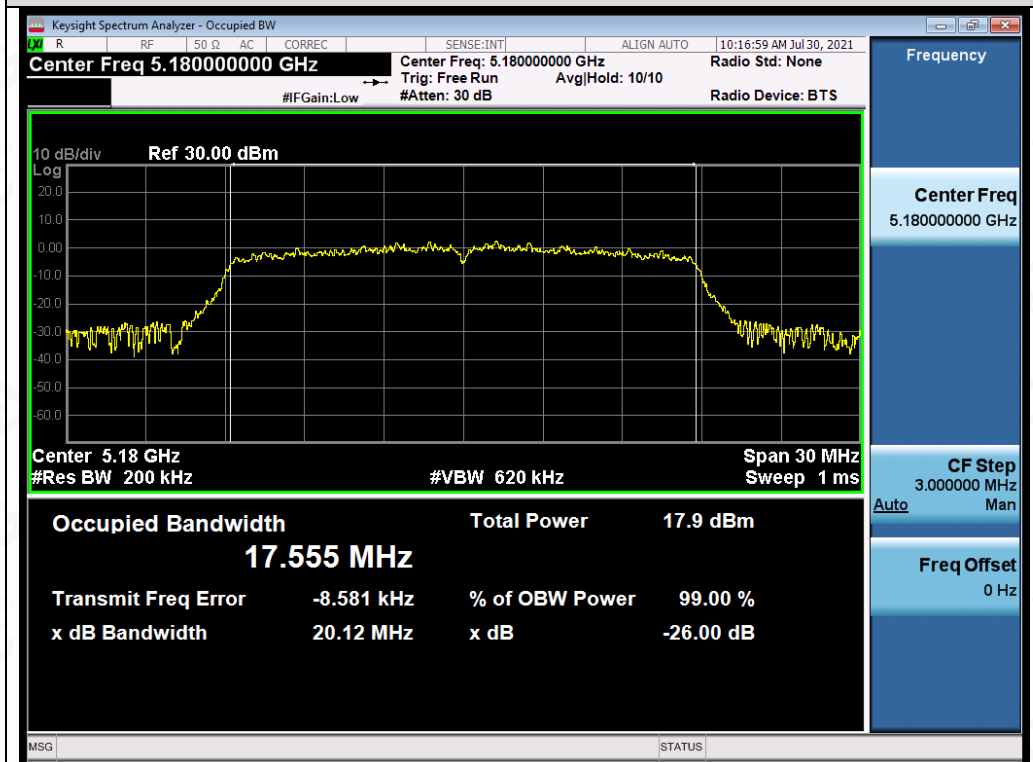
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Test_Graph_802.11a_ANT1_5240_6Mbps_OBW



Test_Graph_802.11n20_ANT1_5180_MCS0_OBW

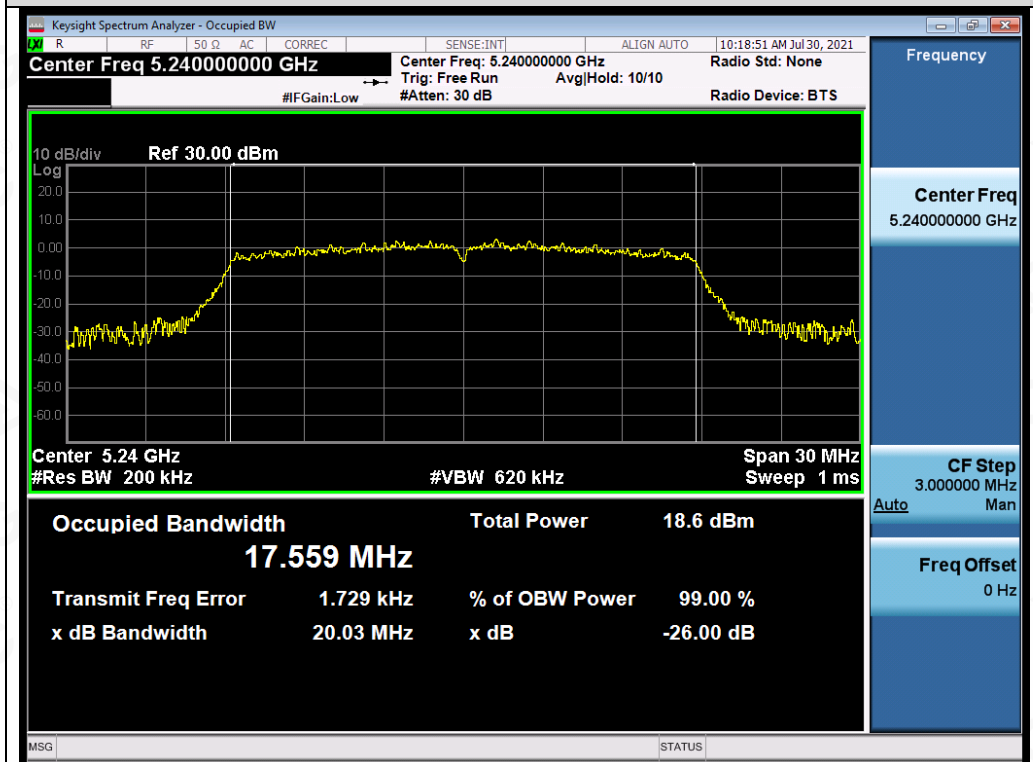
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Test_Graph_802.11n20_ANT1_5200_MCS0_OBW



Test_Graph_802.11n20_ANT1_5240_MCS0_OBW

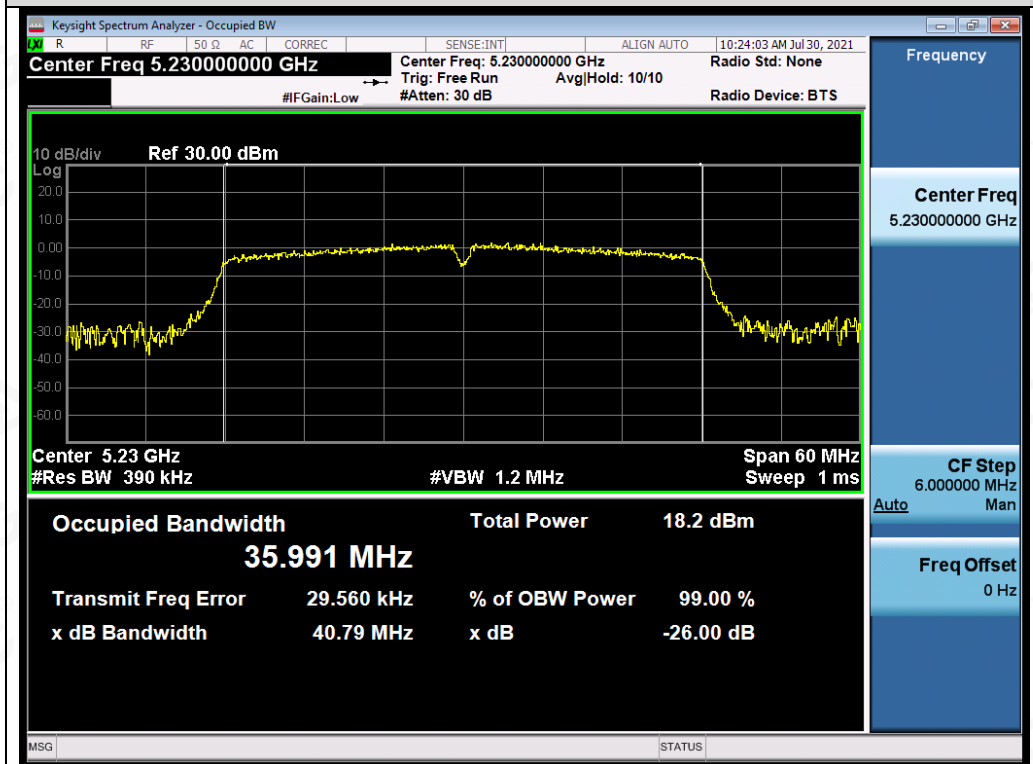
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Test_Graph_802.11n40_ANT1_5190_MCS0_OBW



Test_Graph_802.11n40_ANT1_5230_MCS0_OBW

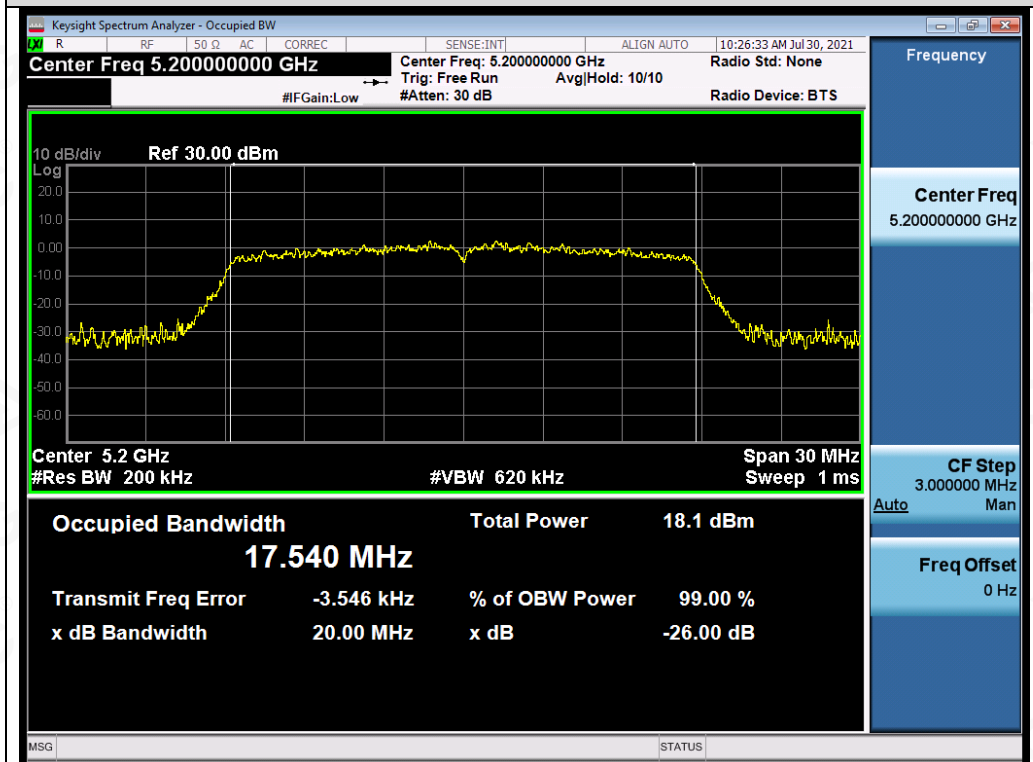
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Test_Graph_802.11ac20_ANT1_5180_MCS0_OBW

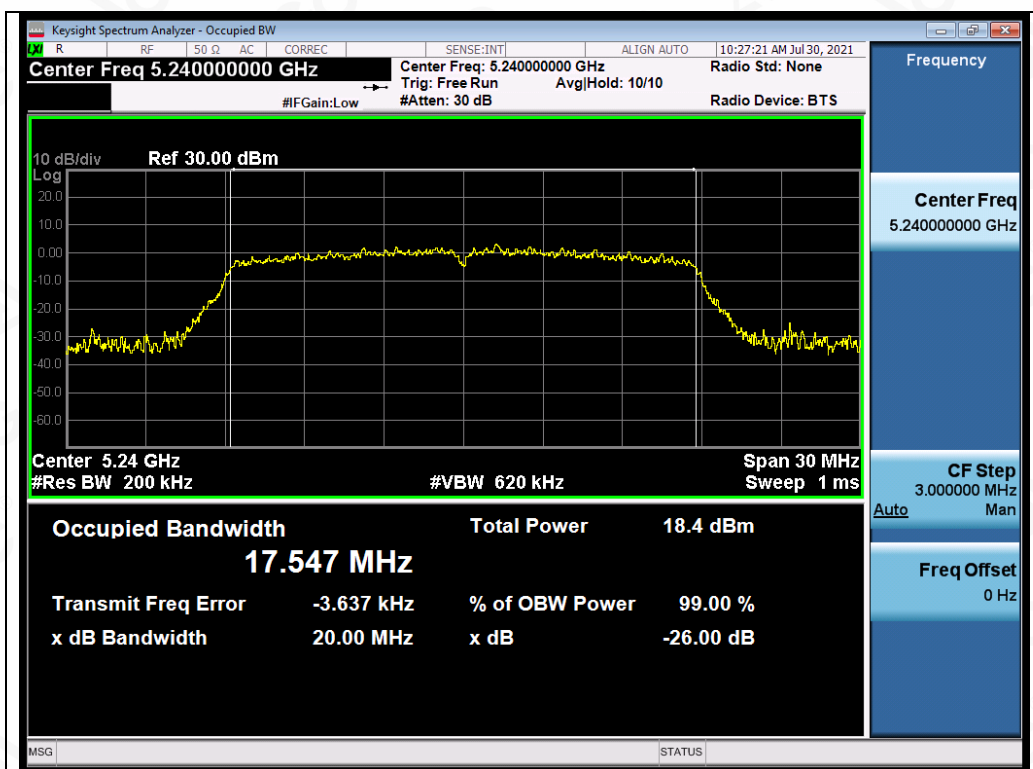


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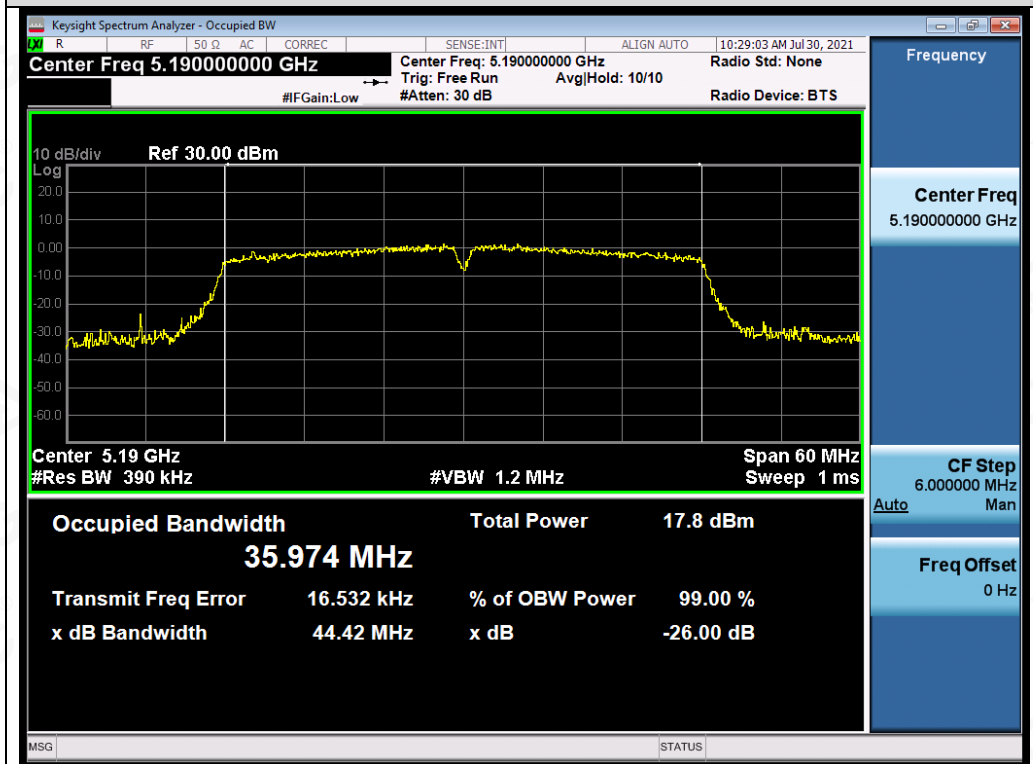
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Test_Graph_802.11ac20_ANT1_5240_MCS9_OBW

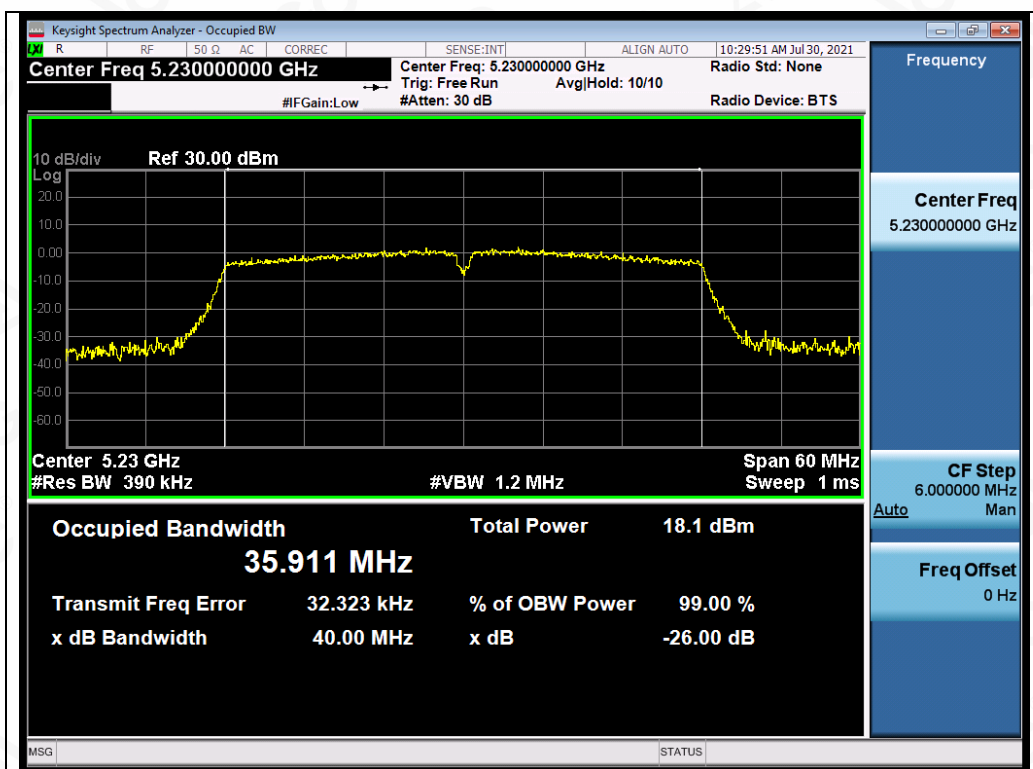


Test_Graph_802.11ac40_ANT1_5190_MCS9_OBW

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Test_Graph_802.11ac40_ANT1_5230_MCS9_OBW



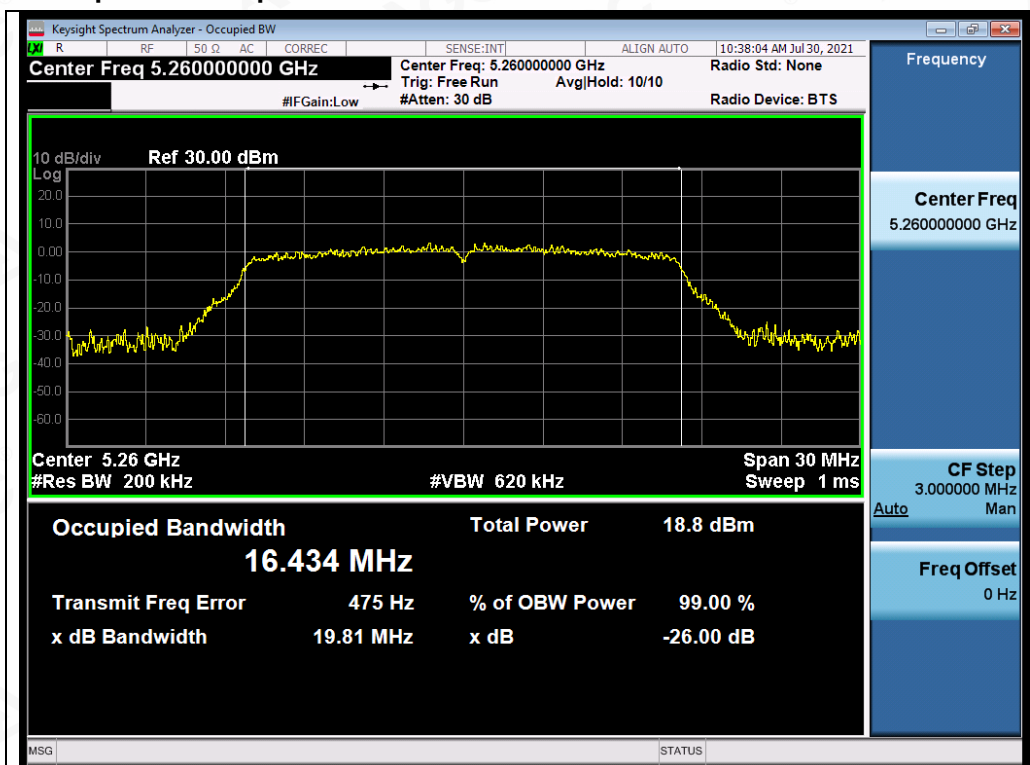
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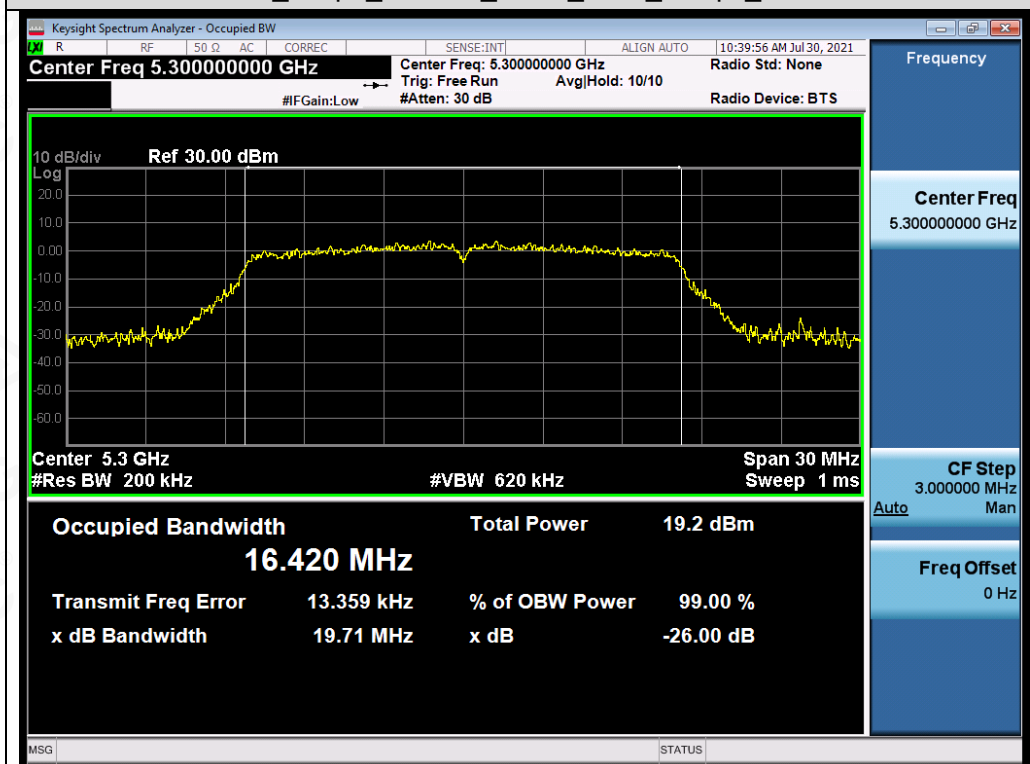
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz



Test_Graph_802.11a_ANT1_5260_6Mbps_OBW

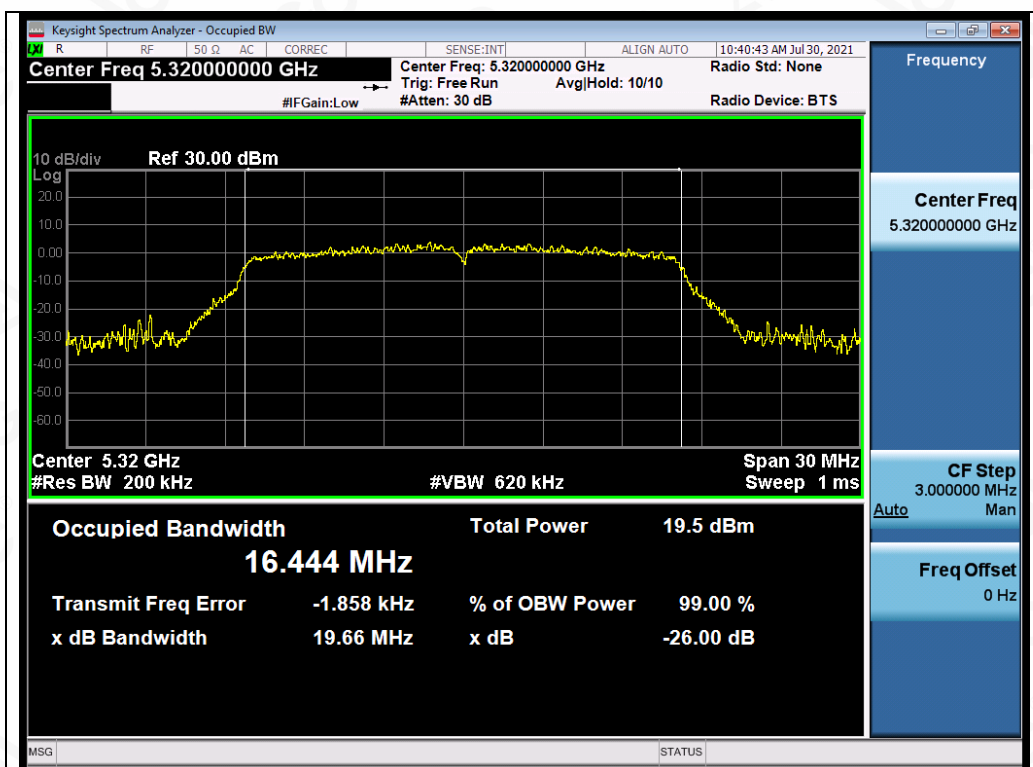


Test_Graph_802.11a_ANT1_5300_6Mbps_OBW

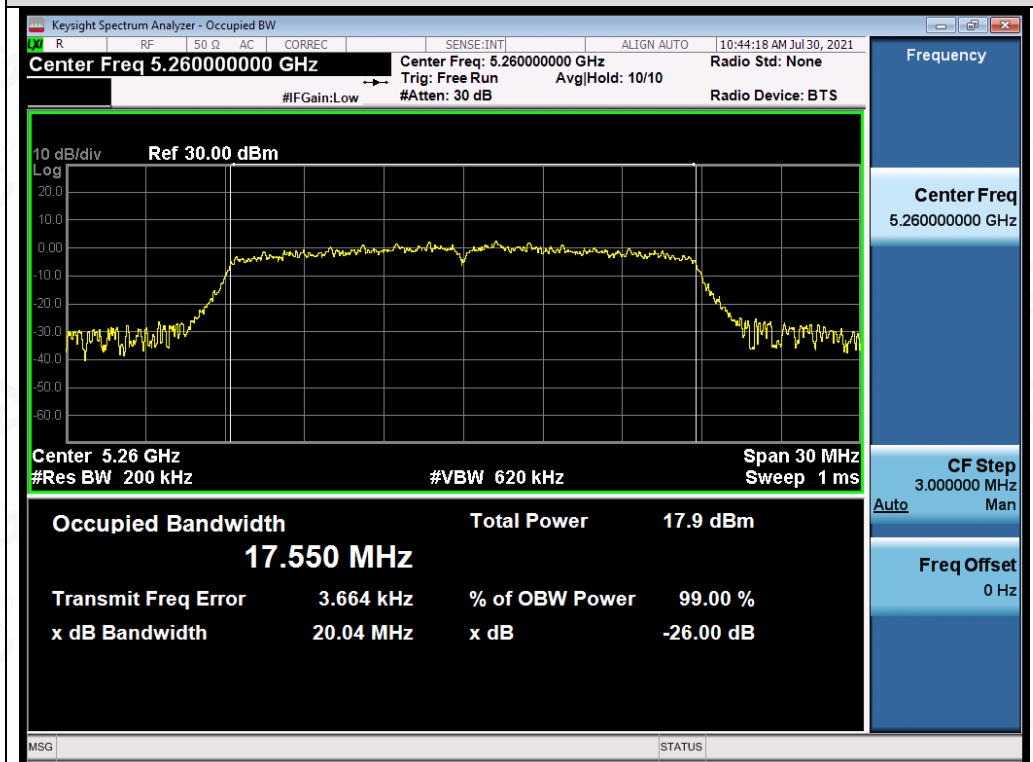
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Test_Graph_802.11a_ANT1_5320_6Mbps_OBW



Test_Graph_802.11n20_ANT1_5260_MCS0_OBW

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Test_Graph_802.11n20_ANT1_5300_MCS0_OBW

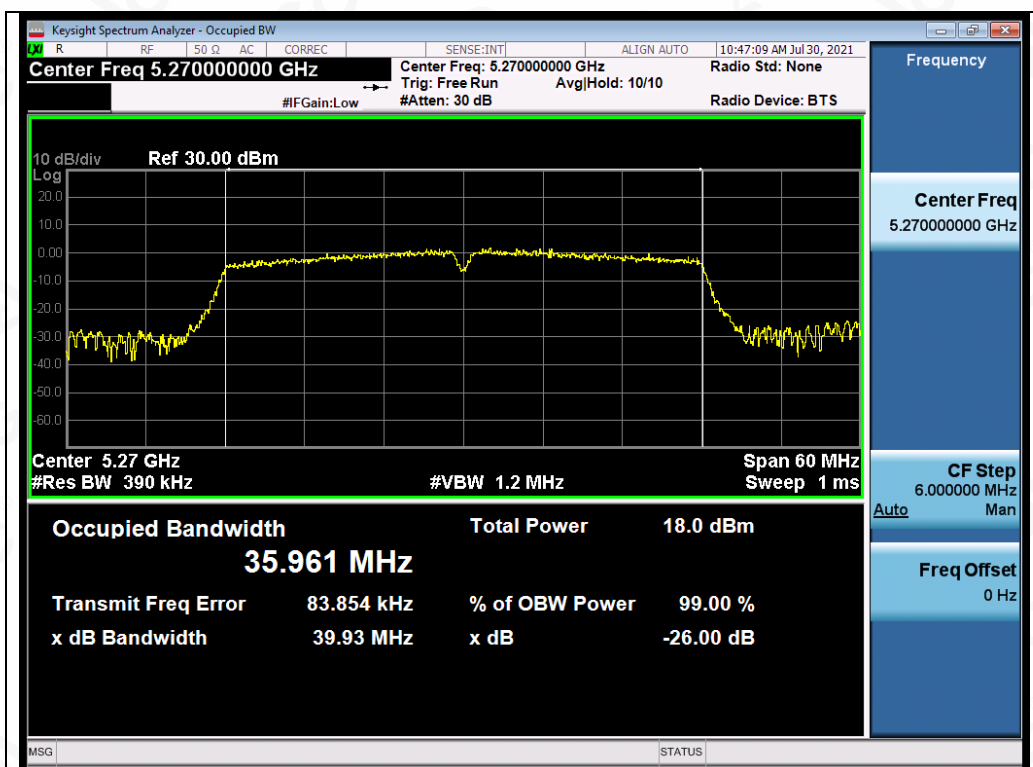


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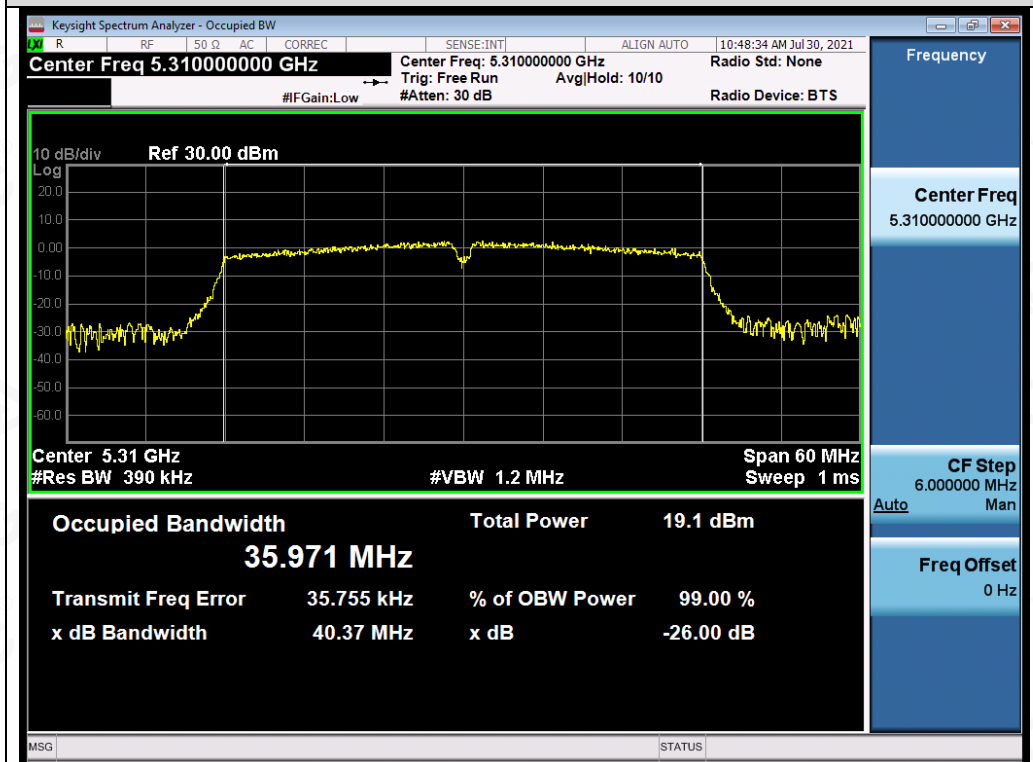
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Test_Graph_802.11n40_ANT1_5270_MCS0_OBW

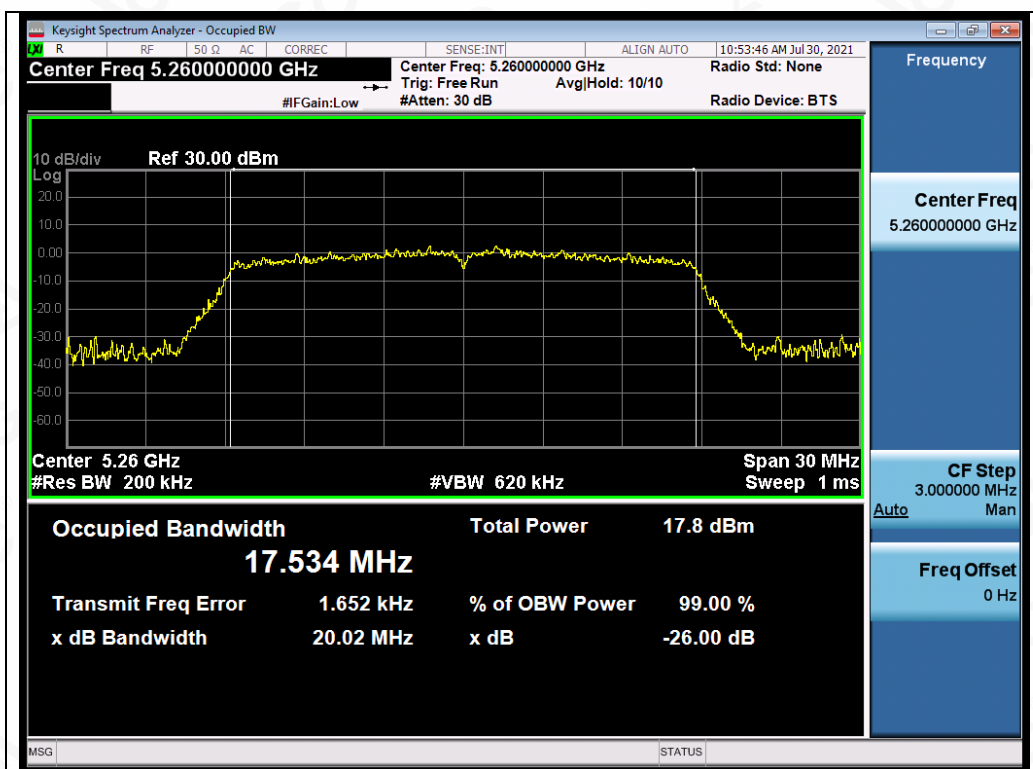


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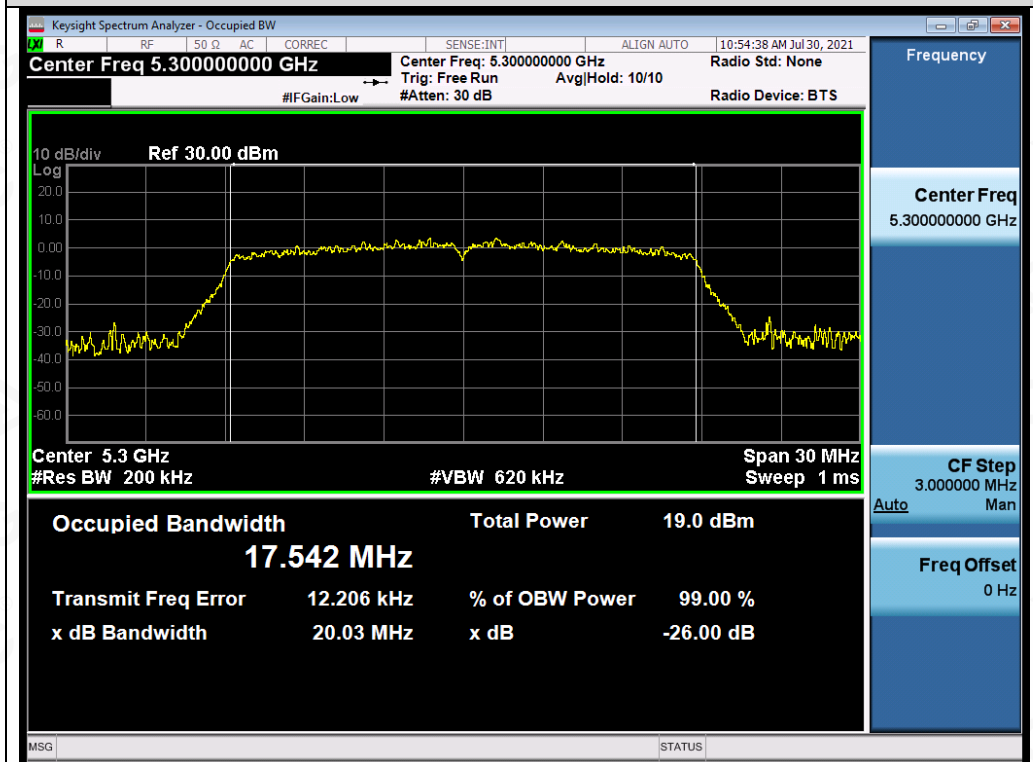
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Test_Graph_802.11ac20_ANT1_5260_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5300_MCS0_OBW

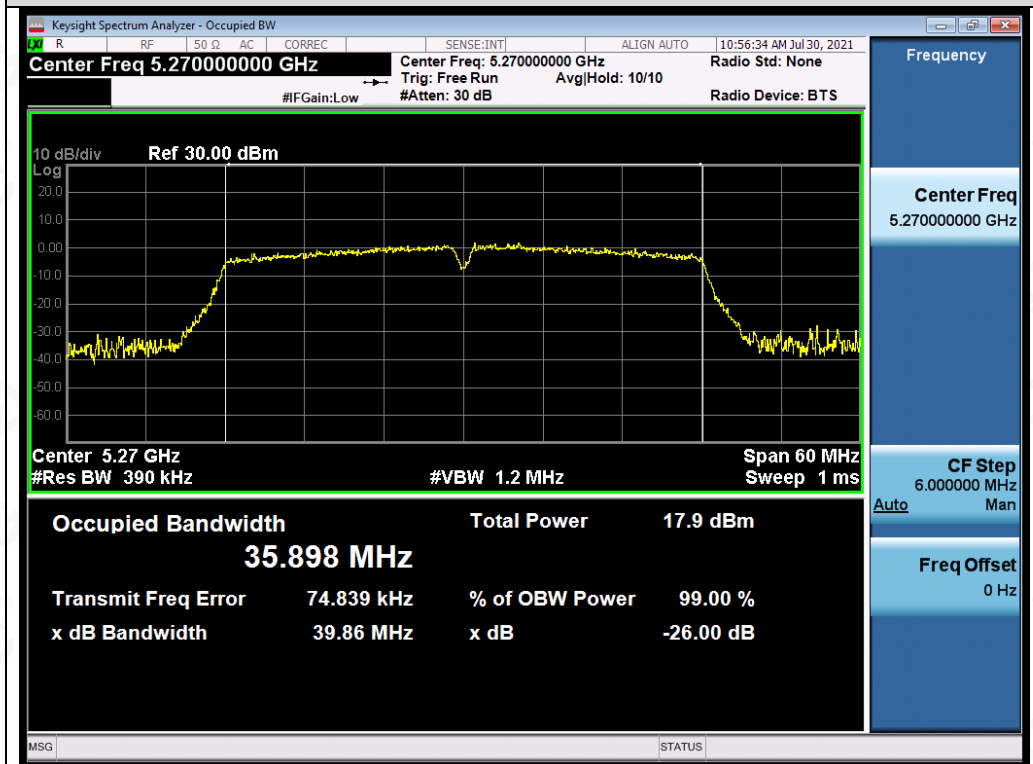
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Test_Graph_802.11ac20_ANT1_5320_MCS9_OBW

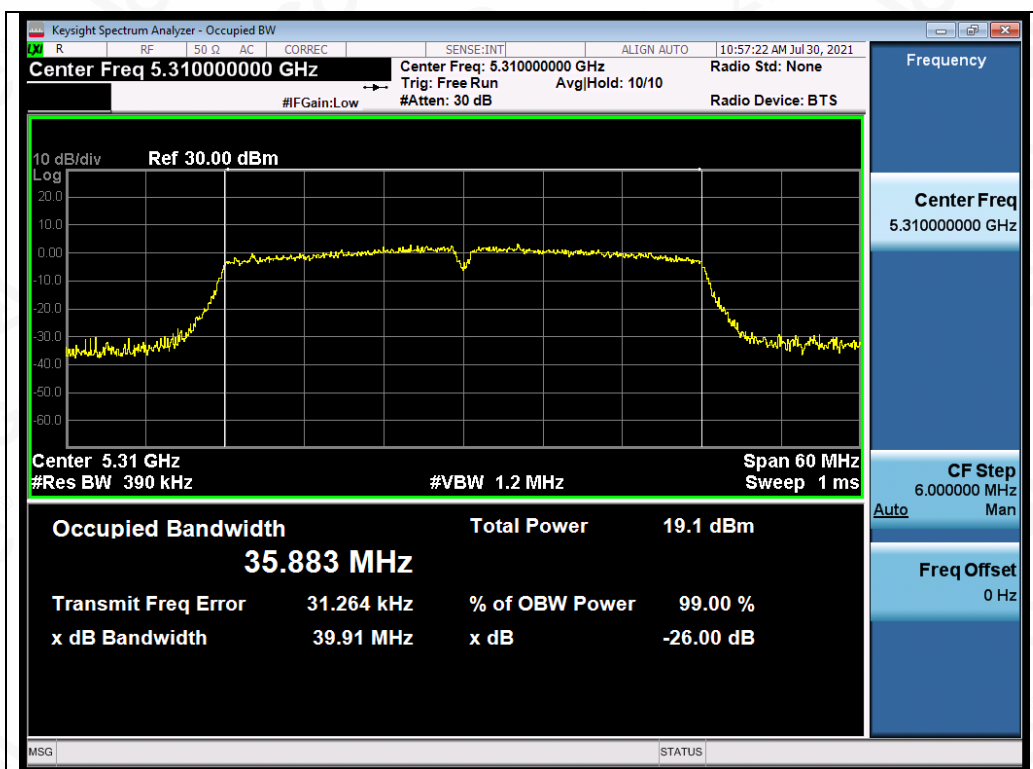


Test_Graph_802.11ac40_ANT1_5270_MCS9_OBW

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Test_Graph_802.11ac40_ANT1_5310_MCS9_OBW



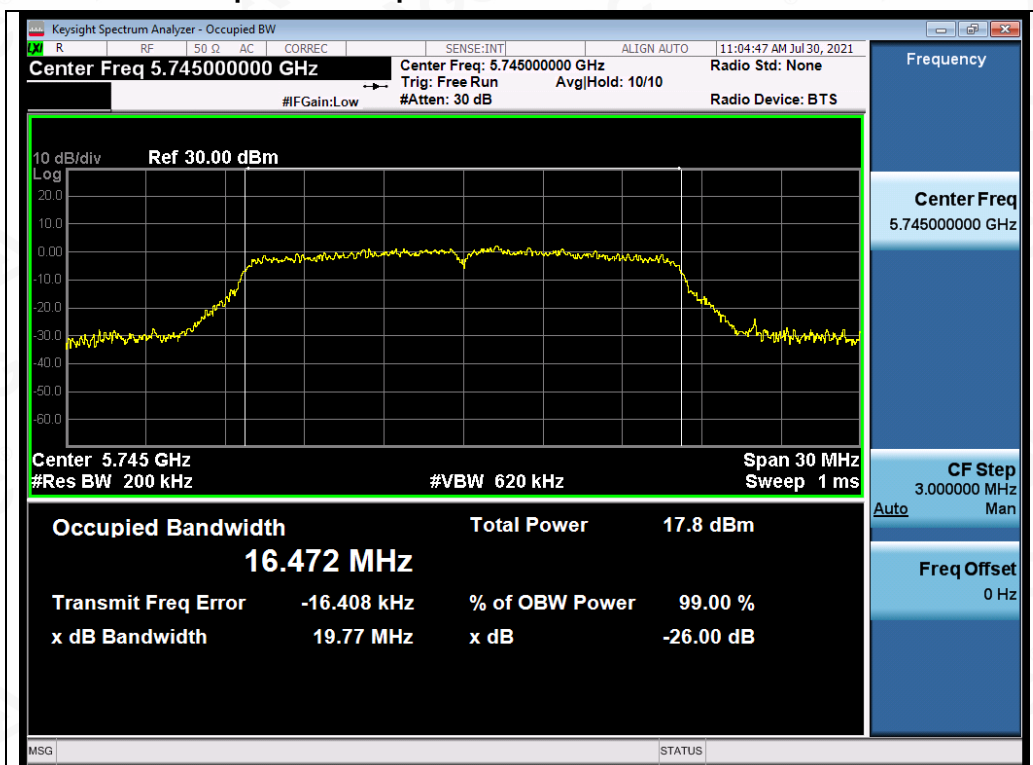
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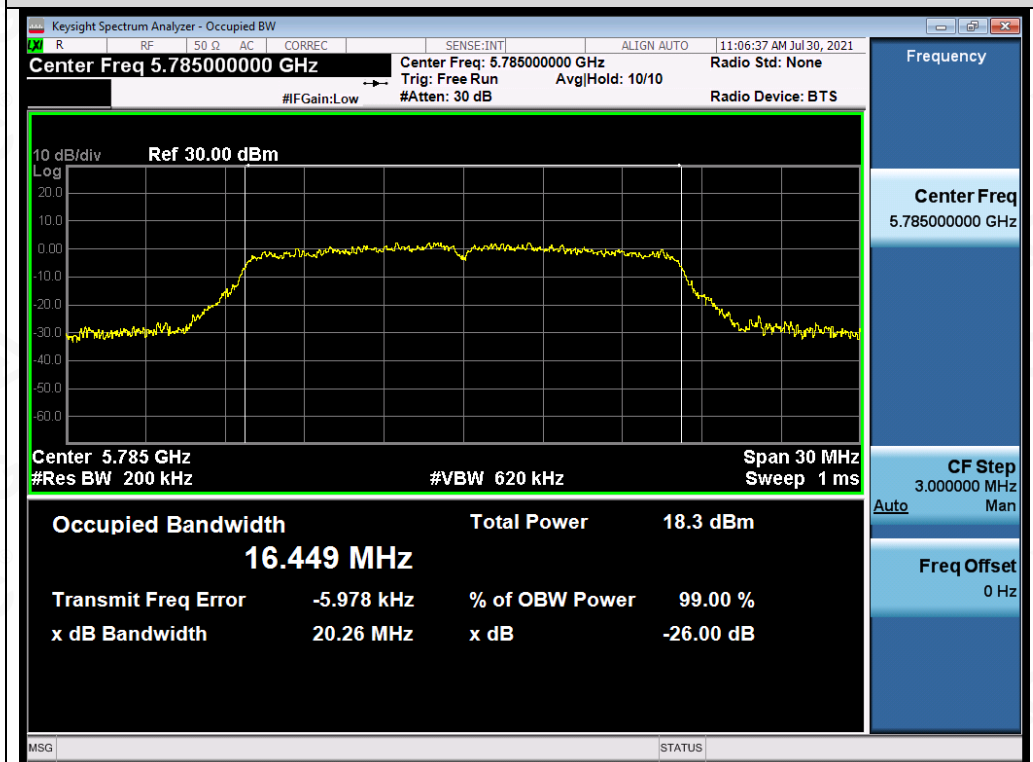
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Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_OBW



Test_Graph_802.11a_ANT1_5785_6Mbps_OBW

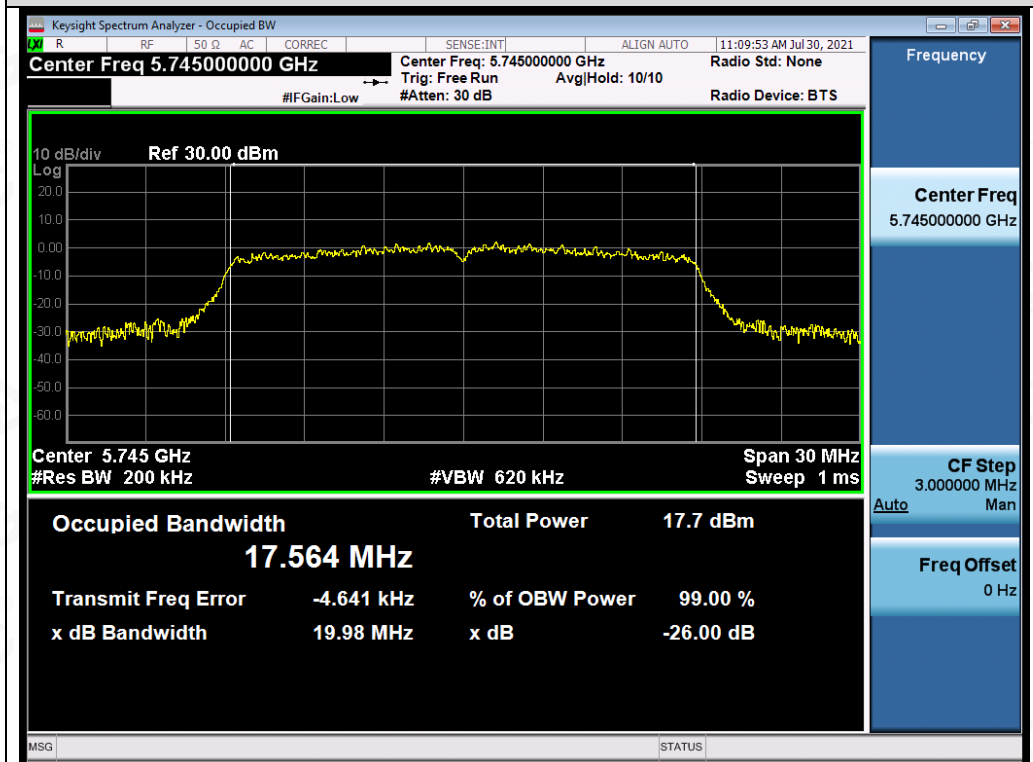
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Test_Graph_802.11a_ANT1_5825_6Mbps_OBW



Test_Graph_802.11n20_ANT1_5745_MCS0_OBW

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Test_Graph_802.11n20_ANT1_5785_MCS0_OBW

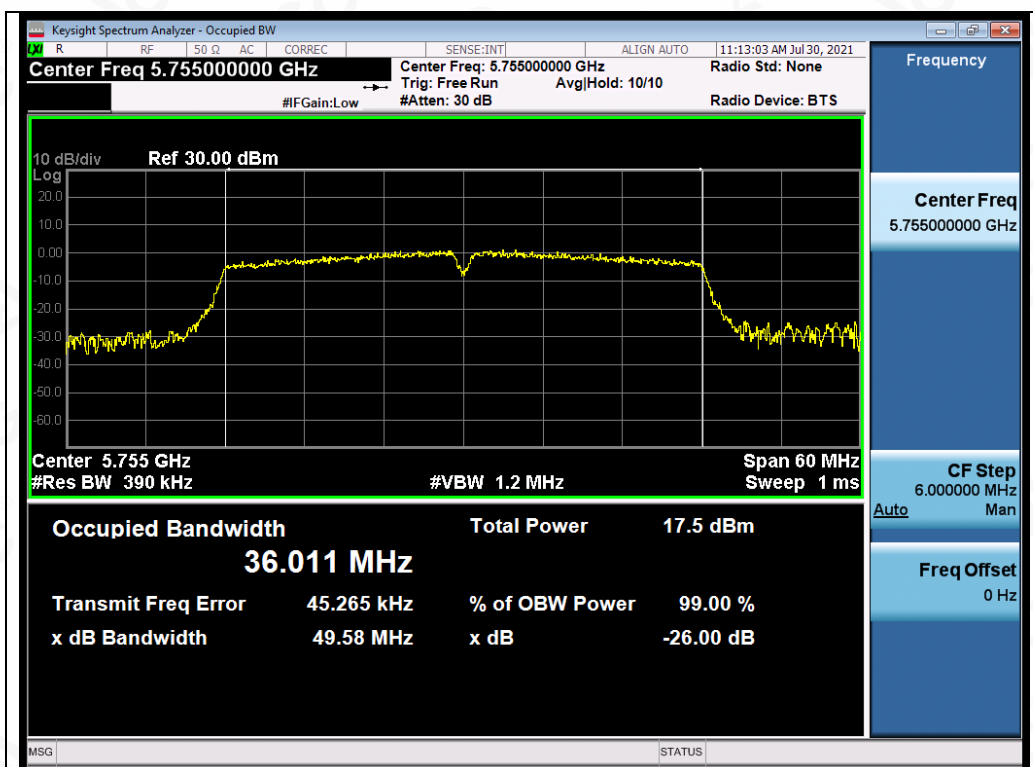


Test_Graph_802.11n20_ANT1_5825_MCS0_OBW

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Test_Graph_802.11n40_ANT1_5755_MCS0_OBW



Test_Graph_802.11n40_ANT1_5795_MCS0_OBW

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Test_Graph_802.11ac20_ANT1_5745_MCS0_OBW

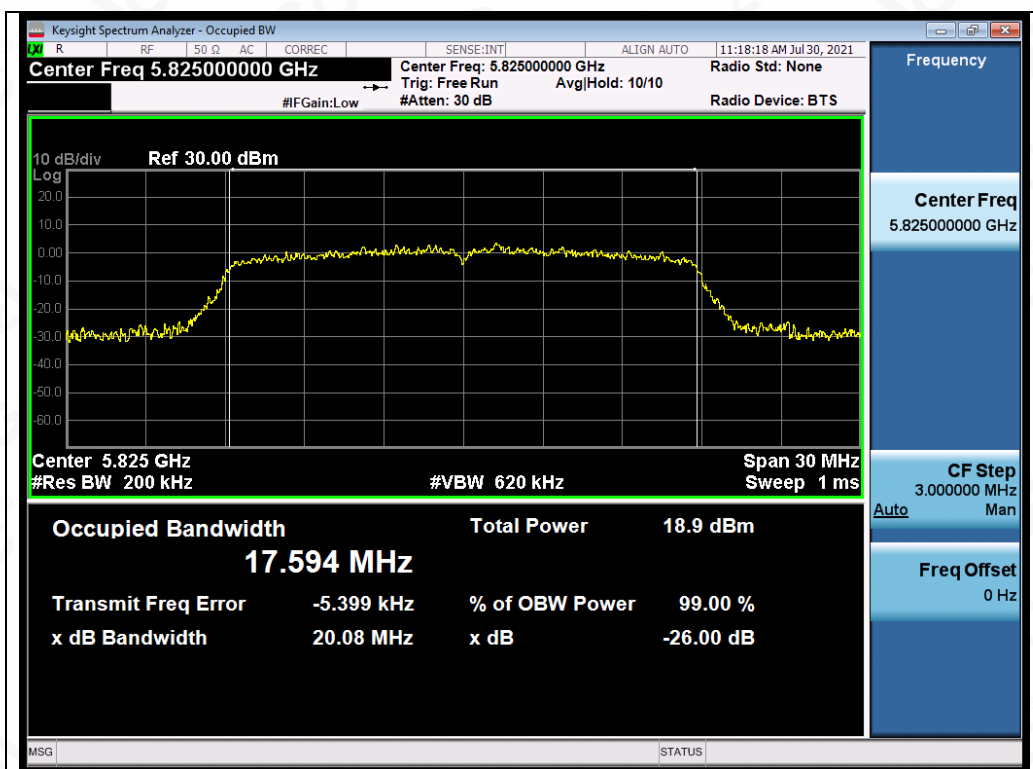


Test_Graph_802.11ac20_ANT1_5785_MCS0_OBW

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Test_Graph_802.11ac20_ANT1_5825_MCS9_OBW

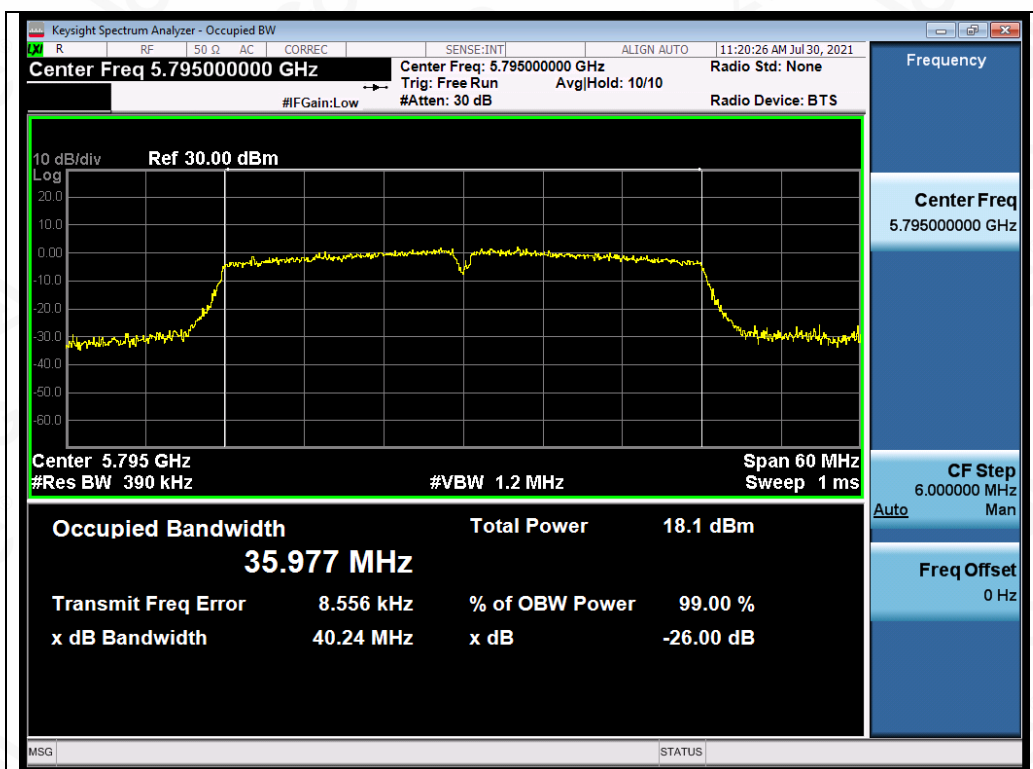


Test_Graph_802.11ac40_ANT1_5755_MCS9_OBW

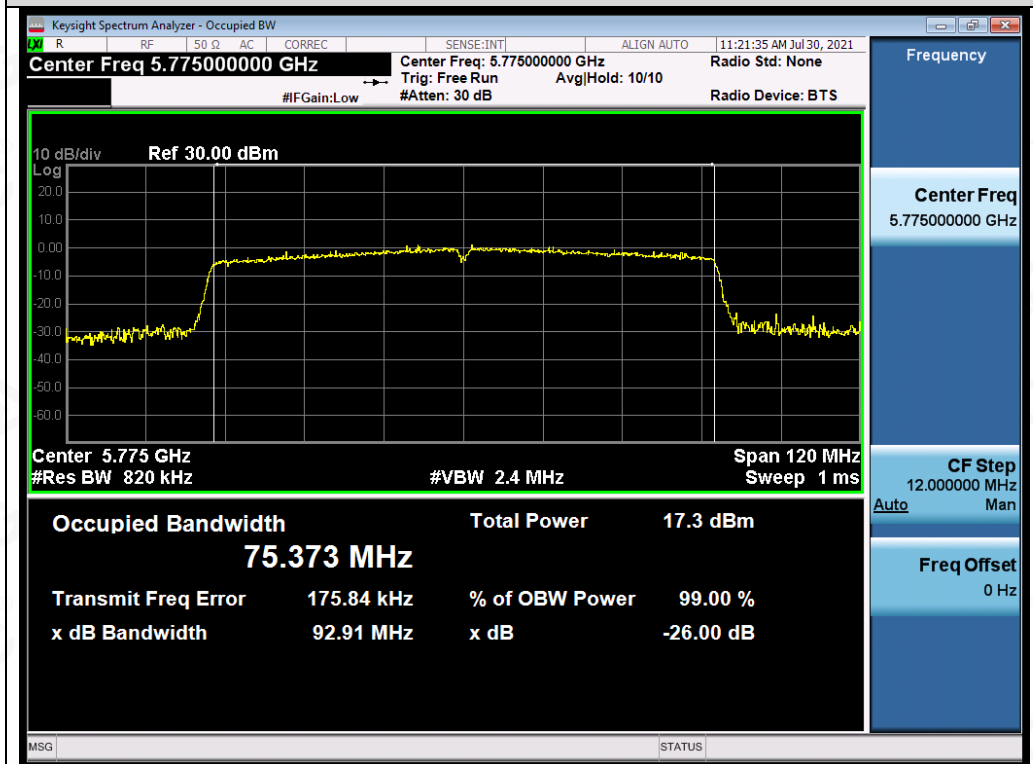
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Test_Graph_802.11ac40_ANT1_5795_MCS9_OBW



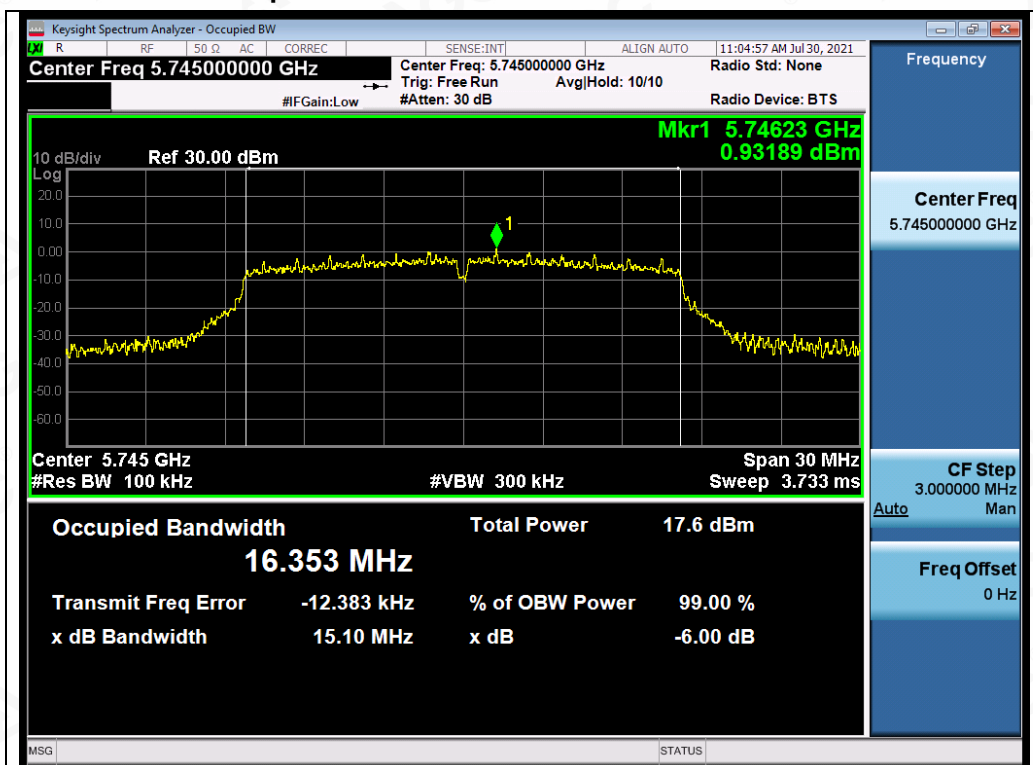
Test_Graph_802.11ac80_ANT1_5775_MCS9_OBW

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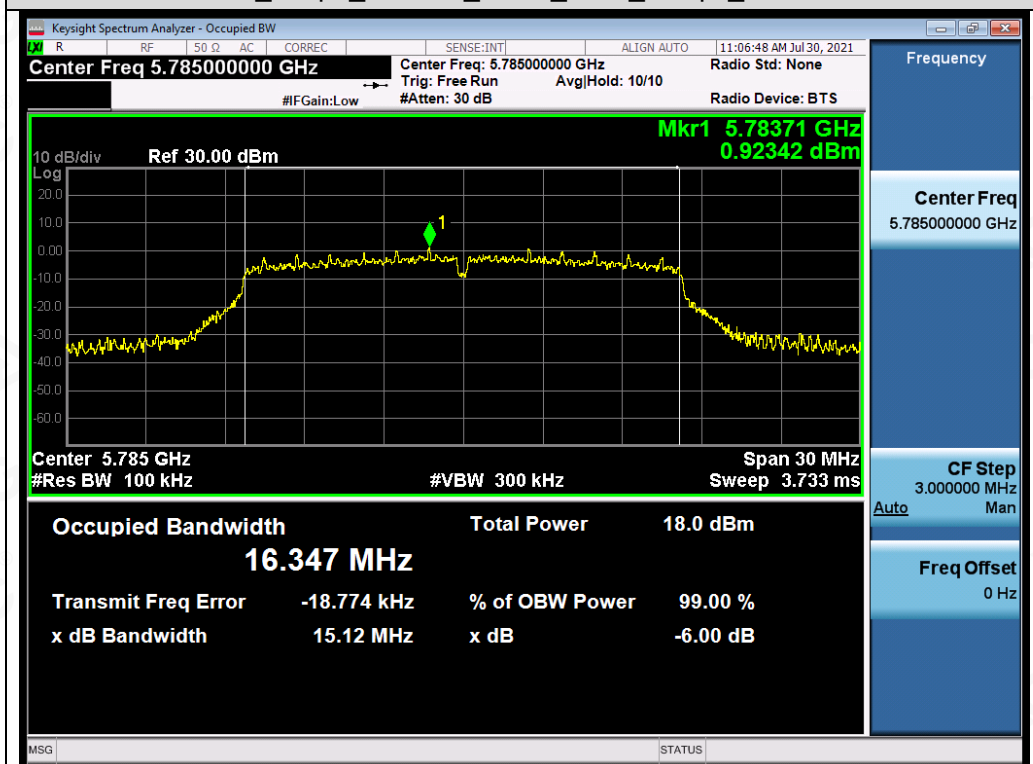
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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW

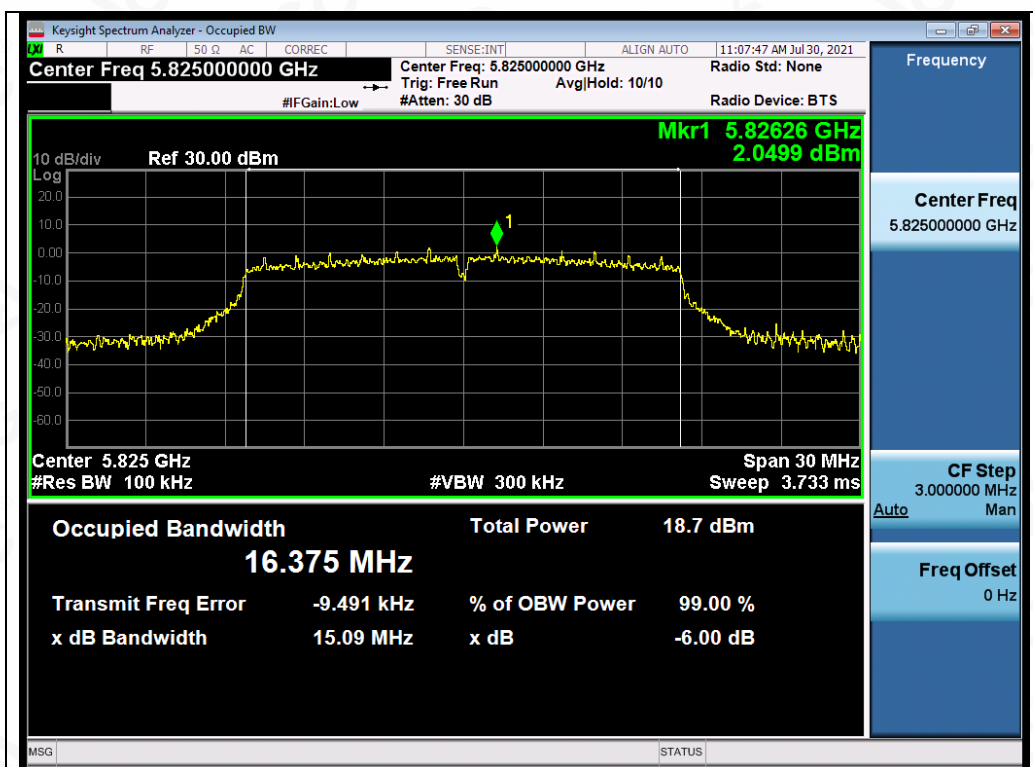


Test_Graph_802.11a_ANT1_5785_6Mbps_DTSBW

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