FCC Test Report

Report No.: AGC00408210801FE06

FCC ID	:	2A3DR-G1
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	5G Smart phone
BRAND NAME	:	AGM
MODEL NAME	:	Glory G1, Glory G1 SE , Glory G1 PRO
APPLICANT	:	AGM Mobile Limited
DATE OF ISSUE	:	Oct. 20, 2021
STANDARD(S) **TEST PROCEDURE(S)**	:	FCC Part 15.407 KDB 789033 D02 v02r01
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 20, 2021	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	AGM Mobile Limited
Address	FLAT B5, 1/F MANNING IND. BUILDING, 116-118 HOW MING STREET, KWUN TONG, KOWLOON, HONG KONG
Manufacturer	Shenzhen AIJIEMO Technology Company Limited
Address	1st Floor 101 and 2nd Floor 201, Building A2, Huafeng Century Technology Park, Nanchang Community, Xixiang, Baoan District, Shenzhen, China
Factory	Shenzhen AIJIEMO Technology Company Limited
Address	1st Floor 101 and 2nd Floor 201, Building A2, Huafeng Century Technology Park, Nanchang Community, Xixiang, Baoan District, Shenzhen, China
Product Designation	5G Smart phone
Brand Name	AGM
Test Model	Glory G1
Series Model	Glory G1 SE , Glory G1 PRO
Declaration of Difference	All the same except the model name.
Date of test	Aug. 05, 2021~Oct. 20, 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

Bibo Zhang
(Project Engineer) Oct. 20, 2021

Reviewed By

Calvin Liu
(Reviewer) Oct. 20, 2021

Approved By

Max Zhang
Authorized Officer Oct. 20, 2021

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “5G 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

Equipment Type	☐ Outdoor access points ☐ Indoor access points ☐ Fixed P2P access points ☒ Client devices
Operation Frequency	☒ U-NII 1:5150MHz~5250MHz ☒ U-NII 2A: 5250MHz~5350MHz ☒ U-NII 2C:5470MHz~5725MHz ☒ 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-HT20/ac-VHT20: 5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5270~5310MHz, 5510~5590MHz,5755~5795MHz For 802.11ac-VHT80: 5210MHz, 52910MHz, 5610MHz, 5775MHz
Output Power	IEEE 802.11a:16.42dBm; IEEE 802.11n-HT20:15.99dBm; IEEE 802.11n-HT40:14.63dBm; IEEE 802.11ac-VHT20:14.83dBm; IEEE 802.11ac-VHT40:14.38dBm; IEEE 802.11ac-VHT80:14.06dBm
Output Power_MIMO	IEEE 802.11a:19.17dBm; IEEE 802.11n-HT20:17.63dBm; IEEE 802.11n-HT40:17.38dBm; IEEE 802.11ac-VHT20:17.33dBm; IEEE 802.11ac-VHT40:17.15dBm; IEEE 802.11ac-VHT80:16.33dBm
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 866.6Mbps
Number of channels	7 channels of U-NII-1 Band 7 channels of U-NII-2A Band 20 channels of U-NII-2C Band 8 channels of U-NII-3 Band
Hardware Version	V1.00
Software Version	N18804.02.01.00US
Antenna Designation	PIFA Antenna (Comply with requirements of the FCC part 15.203)
Number of transmit chain	2 (802.11a/n/ac all used two antennas, 802.11a/n/ac support MIMO)
Antenna Gain	Refer to Chapter 2.8 of the report.
Power Supply	DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCYS

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:

11 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	--	--

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

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

3 channel is provided for 802.11ac (VHT80):

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

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	--	--

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

This submittal(s) (test report) is intended for **FCC ID: 2A3DR-G1** 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 PIFA Antenna List (5GHz 2*2 MIMO)						
PIFA Antenna	5150 ~ 5250	2	20,40,80	0.4	0.4	3.41
	5250 ~ 5350	2	20,40,80	0.4	0.4	3.41
	5470 ~ 5725	2	20,40,80	0.4	0.4	3.41
	5725 ~ 5850	2	20,40,80	0.4	0.4	3.41

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11a/n/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:

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

- For power measurements on IEEE 802.1devices:

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

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

  Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less, for 20 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 ±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 = ±3.1 dB
Uncertainty of Radiated Emission below 1GHz	U_c = ±4.0 dB
Uncertainty of Radiated Emission above 1GHz	U_c = ±4.8 dB
Uncertainty of total RF power, conducted	U_c = ±0.8 dB
Uncertainty of RF power density, conducted	U_c = ±2.6 dB
Uncertainty of spurious emissions, conducted	U_c = ±2 %
Uncertainty of Occupied Channel Bandwidth	U_c = ±2 %

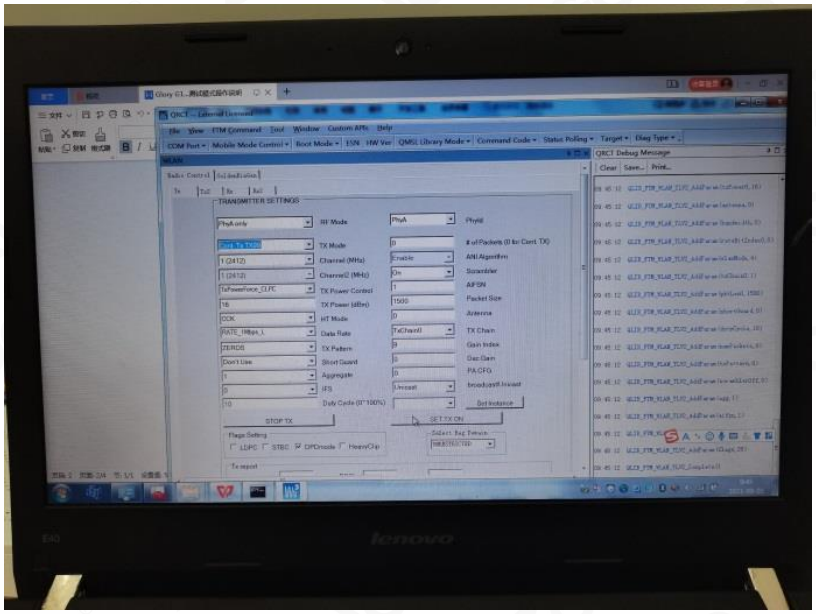
4. DESCRIPTION OF TEST MODES

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.

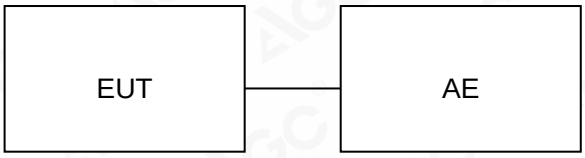
Software Setting



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	5G Smart phone	Glory G1	2A3DR-G1	EUT
2	Adapter 1	GS-551	Input:100-240V, 50/60Hz, 0.6A Output: 12V 1.5A	AE
3	Adapter 2	U312QC1801	Input:100-240V, 50/60Hz, 0.5A Output: 12V 1.5A	AE
4	Battery	Glory G1	DC 3.7V 6200mAh	AE
5	USB Cable	N/A	N/A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.407	6dB&-26Db Bandwidth; 99% occupied 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

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	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Power Sensor	Aglient	U2021XA	MY54110007	May 11, 2021	May 10, 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
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 19, 2021	Sep. 18, 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, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A
Test software	FARA	EZ-EMC(Ver.RA-03A)	N/A	N/A	N/A

7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

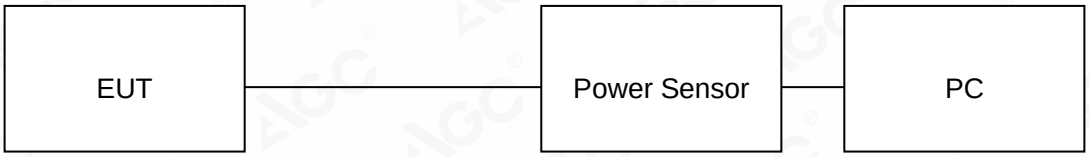
For average power test:

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 ANT 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	14.65	23.98	Pass
	5200	13.58	23.98	Pass
	5240	12.83	23.98	Pass
802.11n20	5180	14.58	23.98	Pass
	5200	13.47	23.98	Pass
	5240	12.66	23.98	Pass
802.11n40	5190	14.63	23.98	Pass
	5230	13.46	23.98	Pass
802.11ac20	5180	14.57	23.98	Pass
	5200	12.63	23.98	Pass
	5240	11.79	23.98	Pass
802.11ac40	5190	13.73	23.98	Pass
	5230	12.70	23.98	Pass
802.11ac80	5210	12.42	23.98	Pass

Test Data of Conducted Output Power for band 5.25-5.35 GHz ANT 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5260	15.31	23.98	Pass
	5300	15.51	23.98	Pass
	5320	**16.42**	23.98	Pass
802.11n20	5260	13.05	23.98	Pass
	5300	14.32	23.98	Pass
	5320	14.39	23.98	Pass
802.11n40	5270	14.36	23.98	Pass
	5310	14.55	23.98	Pass
802.11ac20	5260	13.06	23.98	Pass
	5300	12.45	23.98	Pass
	5320	13.59	23.98	Pass
802.11ac40	5270	**14.38**	23.98	Pass
	5310	13.89	23.98	Pass
802.11ac80	5290	11.98	23.98	Pass

Test Data of Conducted Output Power for band 5.47-5.725 GHz ANT 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5500	13.77	23.98	Pass
	5600	14.59	23.98	Pass
	5700	**15.99**	23.98	Pass
802.11n20	5500	13.78	23.98	Pass
	5600	14.53	23.98	Pass
	5700	13.75	23.98	Pass
802.11n40	5510	12.55	23.98	Pass
	5590	13.16	23.98	Pass
802.11ac20	5670	13.76	23.98	Pass
	5500	13.77	23.98	Pass
	5600	12.55	23.98	Pass
802.11ac40	5700	13.80	23.98	Pass
	5510	12.54	23.98	Pass
802.11ac80	5610	12.04	23.98	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz ANT 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	12.99	30	Pass
	5785	12.49	30	Pass
	5825	13.11	30	Pass
802.11n20	5745	12.82	30	Pass
	5785	11.39	30	Pass
	5825	11.05	30	Pass
802.11n40	5755	11.96	30	Pass
	5795	11.44	30	Pass
802.11ac20	5745	12.89	30	Pass
	5785	11.43	30	Pass
	5825	11.07	30	Pass
802.11ac40	5755	12.00	30	Pass
	5795	10.35	30	Pass
802.11ac80	5775	11.94	30	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz ANT 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	14.18	23.98	Pass
	5200	13.08	23.98	Pass
	5240	12.27	23.98	Pass
802.11n20	5180	14.01	23.98	Pass
	5200	12.91	23.98	Pass
	5240	12.11	23.98	Pass
802.11n40	5190	14.10	23.98	Pass
	5230	12.95	23.98	Pass
802.11ac20	5180	14.05	23.98	Pass
	5200	12.91	23.98	Pass
	5240	12.07	23.98	Pass
802.11ac40	5190	14.09	23.98	Pass
	5230	12.91	23.98	Pass
802.11ac80	5210	**14.06**	23.98	Pass

Test Data of Conducted Output Power for band 5.25-5.35 GHz ANT 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5260	14.28	23.98	Pass
	5300	15.02	23.98	Pass
	5320	15.89	23.98	Pass
802.11n20	5260	12.58	23.98	Pass
	5300	14.90	23.98	Pass
	5320	13.32	23.98	Pass
802.11n40	5270	13.89	23.98	Pass
	5310	13.47	23.98	Pass
802.11ac20	5260	12.59	23.98	Pass
	5300	**14.83**	23.98	Pass
	5320	13.25	23.98	Pass
802.11ac40	5270	13.88	23.98	Pass
	5310	13.44	23.98	Pass
802.11ac80	5290	11.28	23.98	Pass

Test Data of Conducted Output Power for band 5.47-5.725 GHz ANT 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5500	13.65	23.98	Pass
	5600	14.45	23.98	Pass
	5700	14.71	23.98	Pass
802.11n20	5500	12.46	23.98	Pass
	5600	13.32	23.98	Pass
	5700	14.57	23.98	Pass
802.11n40	5510	13.25	23.98	Pass
	5590	13.42	23.98	Pass
802.11ac20	5670	13.93	23.98	Pass
	5500	11.12	23.98	Pass
	5600	12.81	23.98	Pass
802.11ac40	5700	13.92	23.98	Pass
	5510	12.10	23.98	Pass
802.11ac80	5610	12.74	23.98	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz ANT 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	12.69	30	Pass
	5785	11.21	30	Pass
	5825	12.83	30	Pass
802.11n20	5745	11.54	30	Pass
	5785	12.05	30	Pass
	5825	11.66	30	Pass
802.11n40	5755	11.69	30	Pass
	5795	12.06	30	Pass
802.11ac20	5745	12.57	30	Pass
	5785	11.01	30	Pass
	5825	11.61	30	Pass
802.11ac40	5755	11.66	30	Pass
	5795	10.07	30	Pass
802.11ac80	5775	10.37	30	Pass

Note: 1.The Total Average Power (dBm) = $10*\log\{10^{(\text{Ant 1 Average Power }/10)} + 10^{(\text{Ant 2 Average Power }/10)} + 10^{(\text{Ant 3 Average Power }/10)} + 10^{(\text{Ant 4 Average Power }/10)}\}$.

Test Data of Conducted Output Power for band 5.15-5.25 GHz-ANT 1+ANT 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	17.43	23.98	Pass
	5200	16.35	23.98	Pass
	5240	15.57	23.98	Pass
802.11n20	5180	17.31	23.98	Pass
	5200	16.21	23.98	Pass
	5240	15.40	23.98	Pass
802.11n40	5190	17.38	23.98	Pass
	5230	16.22	23.98	Pass
802.11ac20	5180	**17.33**	23.98	Pass
	5200	15.78	23.98	Pass
	5240	14.94	23.98	Pass
802.11ac40	5190	16.92	23.98	Pass
	5230	15.82	23.98	Pass
802.11ac80	5210	16.33	23.98	Pass

Test Data of Conducted Output Power for band 5.25-5.35 GHz ANT 1+ANT 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5260	17.84	23.98	Pass
	5300	18.28	23.98	Pass
	5320	**19.17**	23.98	Pass
802.11n20	5260	15.83	23.98	Pass
	5300	17.63	23.98	Pass
	5320	16.90	23.98	Pass
802.11n40	5270	17.14	23.98	Pass
	5310	17.05	23.98	Pass
802.11ac20	5260	15.84	23.98	Pass
	5300	16.81	23.98	Pass
	5320	16.43	23.98	Pass
802.11ac40	5270	**17.15**	23.98	Pass
	5310	16.68	23.98	Pass
802.11ac80	5290	14.65	23.98	Pass

Test Data of Conducted Output Power for band 5.47-5.725 GHz ANT 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5500	16.72	23.98	Pass
	5600	17.53	23.98	Pass
	5700	18.41	23.98	Pass
802.11n20	5500	16.18	23.98	Pass
	5600	16.98	23.98	Pass
	5700	17.19	23.98	Pass
802.11n40	5510	15.92	23.98	Pass
	5590	16.30	23.98	Pass
802.11ac20	5670	16.86	23.98	Pass
	5500	15.65	23.98	Pass
	5600	15.69	23.98	Pass
802.11ac40	5700	16.87	23.98	Pass
	5510	15.34	23.98	Pass
802.11ac80	5610	15.41	23.98	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz ANT 1+ANT 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	15.85	30	Pass
	5785	14.91	30	Pass
	5825	15.98	30	Pass
802.11n20	5745	15.24	30	Pass
	5785	14.74	30	Pass
	5825	14.38	30	Pass
802.11n40	5755	14.84	30	Pass
	5795	14.77	30	Pass
802.11ac20	5745	15.74	30	Pass
	5785	14.24	30	Pass
	5825	14.36	30	Pass
802.11ac40	5755	14.84	30	Pass
	5795	13.22	30	Pass
802.11ac80	5775	14.24	30	Pass

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 ⩾3*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:

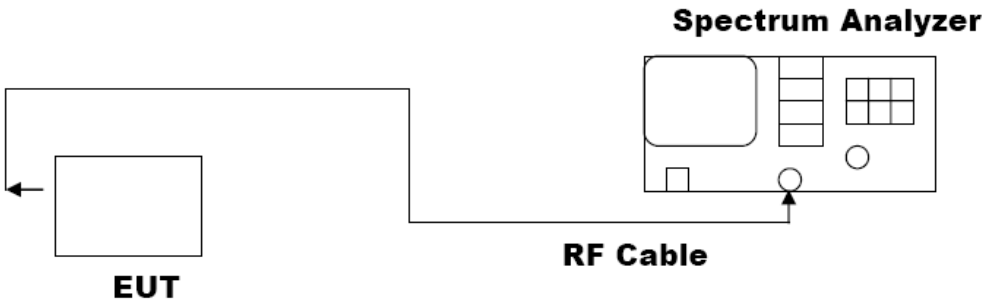
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
   The nominal IF filter bandwidth (3 dB RBW) shall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



8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz-ANT 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.563	21.531	N/A	Pass
	5200	16.532	21.677	N/A	Pass
	5240	16.539	22.064	N/A	Pass
802.11n20	5180	17.723	22.499	N/A	Pass
	5200	17.701	22.577	N/A	Pass
	5240	17.684	21.943	N/A	Pass
802.11n40	5190	36.199	40.315	N/A	Pass
	5230	36.225	40.975	N/A	Pass
802.11ac20	5180	17.728	22.451	N/A	Pass
	5200	17.701	21.622	N/A	Pass
	5240	17.722	22.459	N/A	Pass
802.11ac40	5190	36.190	41.396	N/A	Pass
	5230	36.192	41.470	N/A	Pass
802.11ac80	5210	75.828	83.802	N/A	Pass

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz-ANT 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5260	16.564	21.901	N/A	Pass
	5300	16.529	22.262	N/A	Pass
	5320	16.566	22.383	N/A	Pass
802.11n20	5260	17.725	21.937	N/A	Pass
	5300	17.721	22.183	N/A	Pass
	5320	17.721	22.815	N/A	Pass
802.11n40	5270	36.201	41.306	N/A	Pass
	5310	36.282	41.256	N/A	Pass
802.11ac20	5260	17.707	22.116	N/A	Pass
	5300	17.712	21.837	N/A	Pass
	5320	17.700	21.971	N/A	Pass
802.11ac40	5270	36.247	41.631	N/A	Pass
	5310	36.160	40.780	N/A	Pass
802.11ac80	5290	75.602	96.688	N/A	Pass

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz-ANT 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5500	16.535	21.953	N/A	Pass
	5600	16.537	22.820	N/A	Pass
	5700	16.570	23.006	N/A	Pass
802.11n20	5500	17.715	22.429	N/A	Pass
	5600	17.680	22.190	N/A	Pass
	5700	17.683	21.634	N/A	Pass
802.11n40	5510	36.236	45.833	N/A	Pass
	5590	36.189	41.661	N/A	Pass
802.11ac20	5670	36.177	40.861	N/A	Pass
	5500	17.734	22.753	N/A	Pass
	5600	17.734	21.877	N/A	Pass
802.11ac40	5700	17.704	21.424	N/A	Pass
	5510	36.232	46.293	N/A	Pass
802.11ac80	5610	75.666	82.961	N/A	Pass

Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz-ANT 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.537	16.296	0.5	Pass
	5785	16.541	14.658	0.5	Pass
	5825	16.531	15.935	0.5	Pass
802.11n20	5745	17.686	15.119	0.5	Pass
	5785	17.666	17.321	0.5	Pass
	5825	17.707	17.527	0.5	Pass
802.11n40	5755	36.202	35.743	0.5	Pass
	5795	36.188	35.720	0.5	Pass
802.11ac20	5745	17.705	15.628	0.5	Pass
	5785	17.723	16.912	0.5	Pass
	5825	17.694	15.037	0.5	Pass
802.11ac40	5755	36.206	35.727	0.5	Pass
	5795	36.205	35.952	0.5	Pass
802.11ac80	5775	75.550	71.923	0.5	Pass

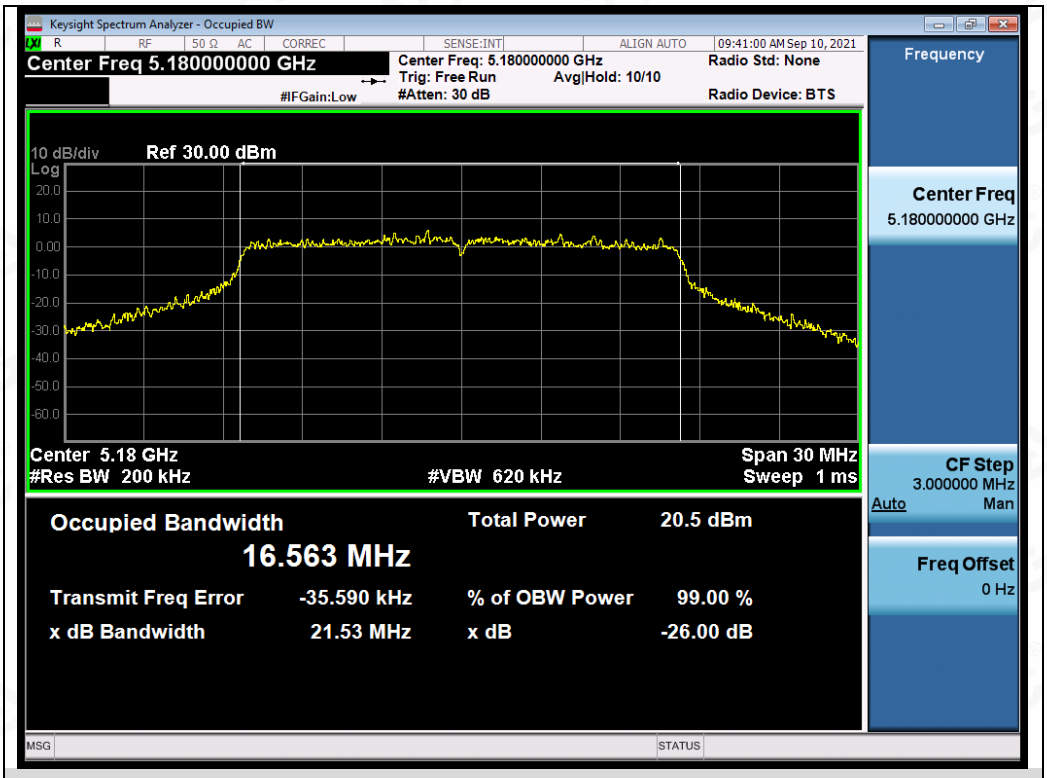
Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz-ANT 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.507	21.327	N/A	Pass
	5200	16.527	21.947	N/A	Pass
	5240	16.512	22.221	N/A	Pass
802.11n20	5180	17.729	22.908	N/A	Pass
	5200	17.704	22.334	N/A	Pass
	5240	17.691	21.962	N/A	Pass
802.11n40	5190	36.192	40.826	N/A	Pass
	5230	36.214	41.209	N/A	Pass
802.11ac20	5180	17.692	22.664	N/A	Pass
	5200	17.713	22.848	N/A	Pass
	5240	17.713	22.657	N/A	Pass
802.11ac40	5190	36.209	41.550	N/A	Pass
	5230	36.165	41.023	N/A	Pass
802.11ac80	5210	75.884	101.959	N/A	Pass

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz-ANT 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5260	16.548	21.762	N/A	Pass
	5300	16.580	23.332	N/A	Pass
	5320	16.498	21.366	N/A	Pass
802.11n20	5260	17.734	22.287	N/A	Pass
	5300	17.710	22.425	N/A	Pass
	5320	17.728	22.825	N/A	Pass
802.11n40	5270	36.276	53.936	N/A	Pass
	5310	36.271	43.236	N/A	Pass
802.11ac20	5260	17.721	21.701	N/A	Pass
	5300	17.727	22.181	N/A	Pass
	5320	17.752	22.988	N/A	Pass
802.11ac40	5270	36.213	45.768	N/A	Pass
	5310	36.239	49.414	N/A	Pass
802.11ac80	5290	75.642	100.305	N/A	Pass

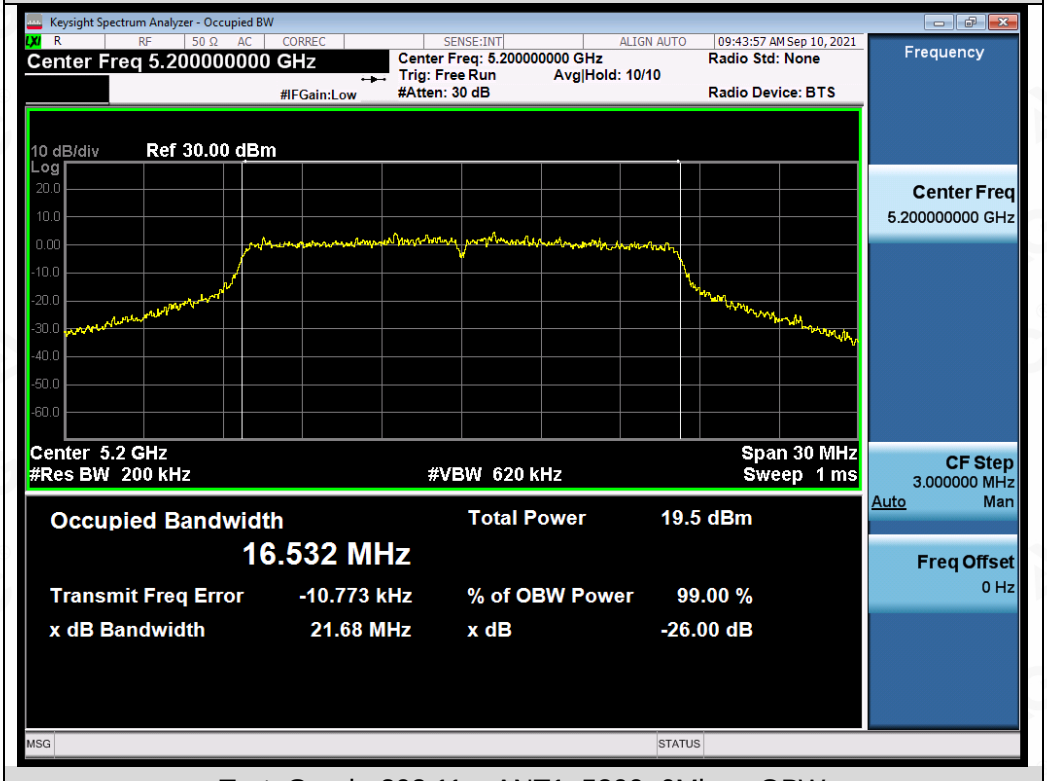
Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz-ANT 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5500	16.535	21.305	N/A	Pass
	5600	16.545	22.252	N/A	Pass
	5700	16.540	22.417	N/A	Pass
802.11n20	5500	17.711	21.756	N/A	Pass
	5600	17.727	22.817	N/A	Pass
	5700	17.715	22.453	N/A	Pass
802.11n40	5510	36.221	50.091	N/A	Pass
	5590	36.202	41.385	N/A	Pass
802.11ac20	5670	36.173	40.888	N/A	Pass
	5500	17.701	22.239	N/A	Pass
	5600	17.695	21.726	N/A	Pass
802.11ac40	5700	17.695	21.726	N/A	Pass
	5510	36.280	49.277	N/A	Pass
802.11ac80	5610	75.587	82.844	N/A	Pass

Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz-ANT 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.523	16.305	0.5	Pass
	5785	16.542	15.704	0.5	Pass
	5825	16.548	15.357	0.5	Pass
802.11n20	5745	17.667	15.048	0.5	Pass
	5785	17.705	15.643	0.5	Pass
	5825	17.715	15.657	0.5	Pass
802.11n40	5755	36.205	35.687	0.5	Pass
	5795	36.166	35.686	0.5	Pass
802.11ac20	5745	17.724	17.242	0.5	Pass
	5785	17.683	17.525	0.5	Pass
	5825	17.697	17.515	0.5	Pass
802.11ac40	5755	36.198	35.650	0.5	Pass
	5795	36.203	35.720	0.5	Pass
802.11ac80	5775	75.537	74.435	0.5	Pass

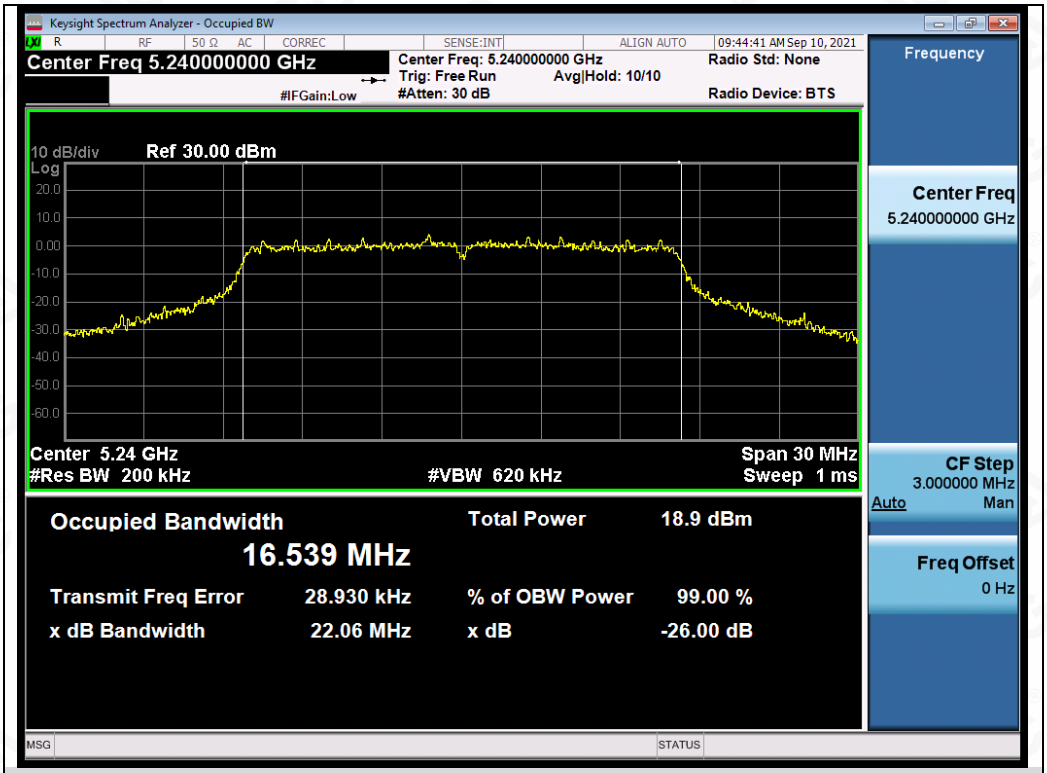
Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz-ANT 1



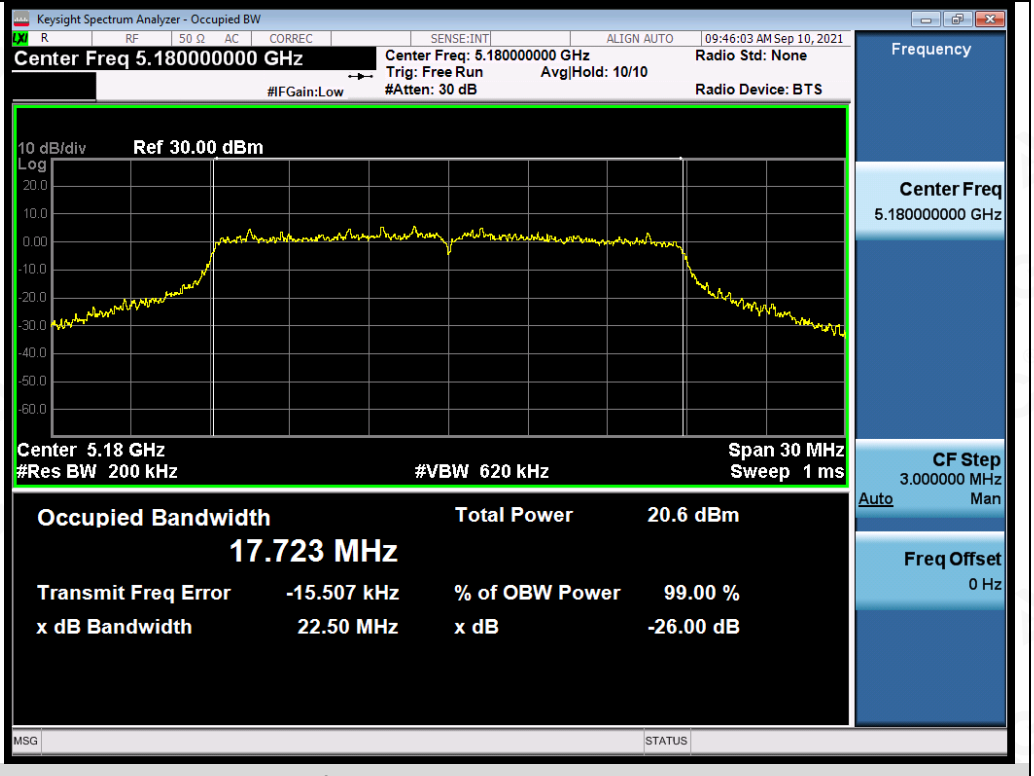
Test_Graph_802.11a_ANT1_5180_6Mbps_OBW



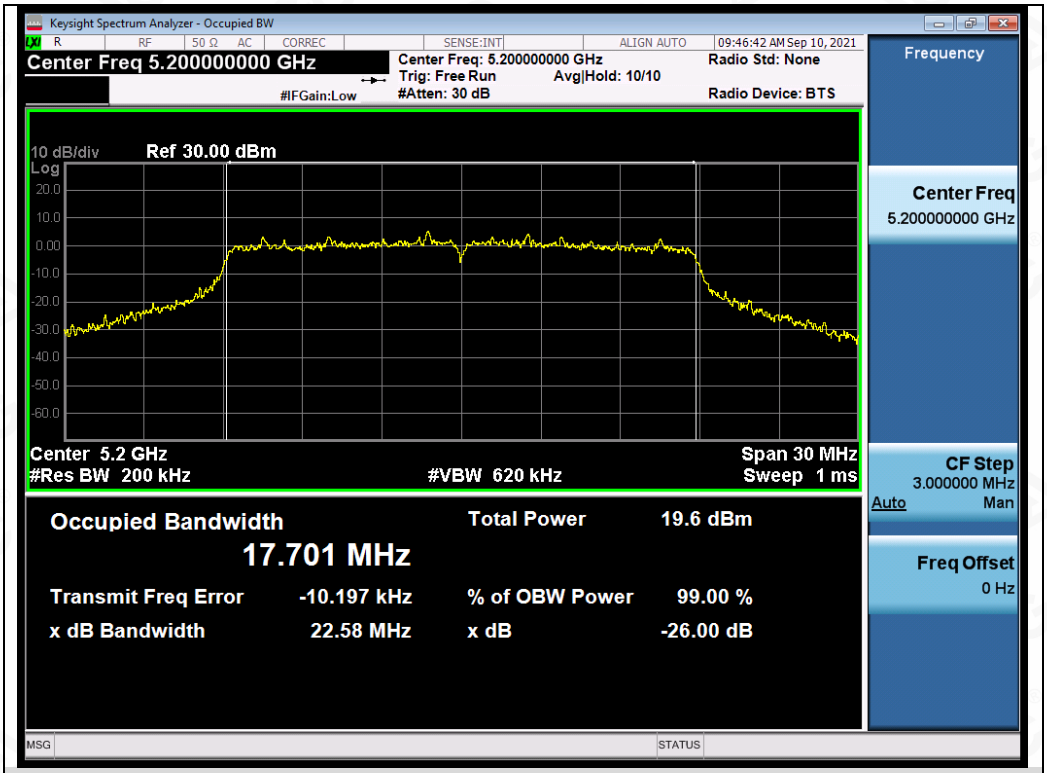
Test_Graph_802.11a_ANT1_5200_6Mbps_OBW



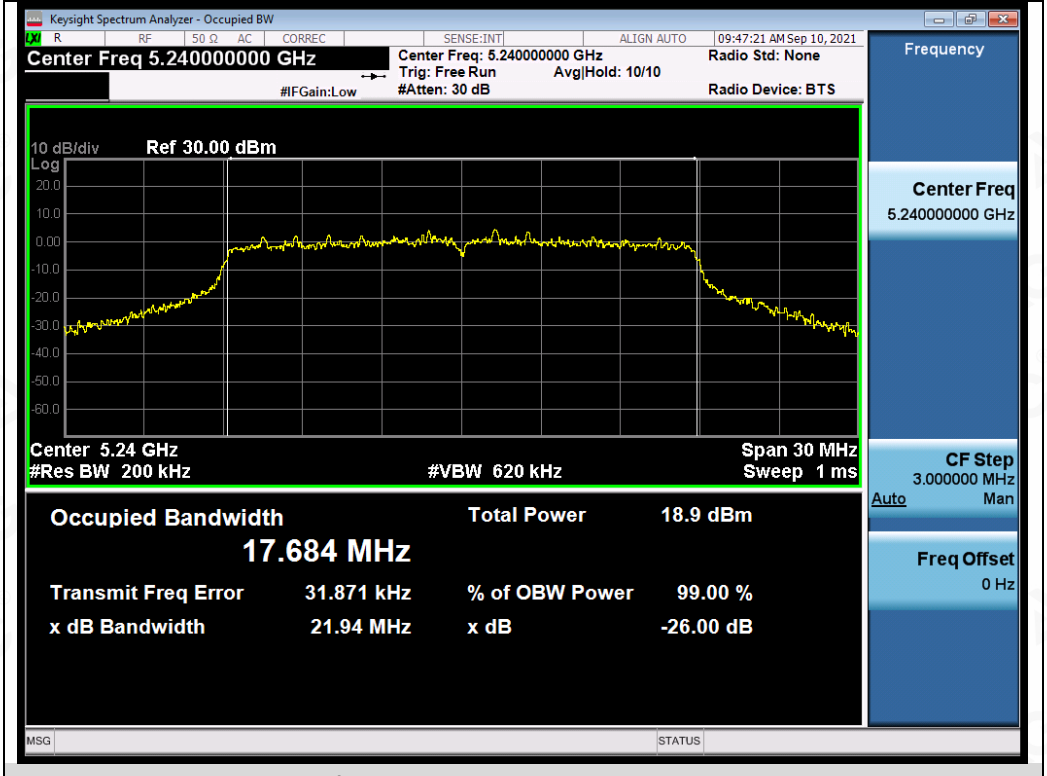
Test_Graph_802.11a_ANT1_5240_6Mbps_OBW



Test_Graph_802.11n20_ANT1_5180_MCS0_OBW

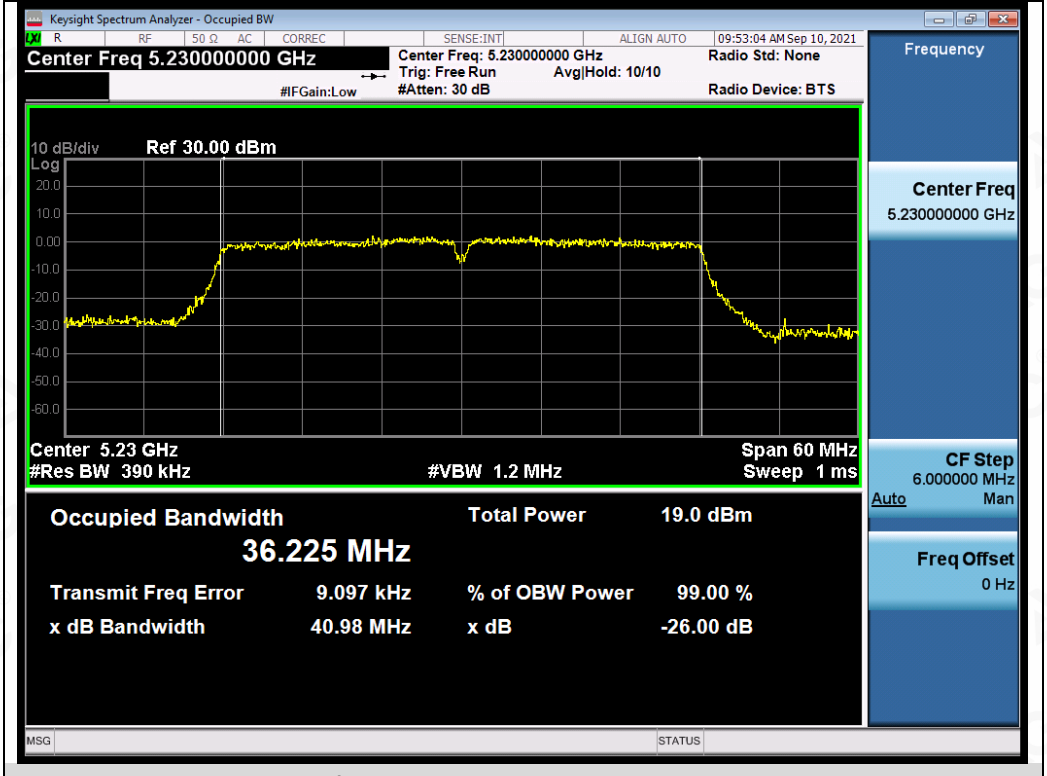


Test_Graph_802.11n20_ANT1_5200_MCS0_OBW

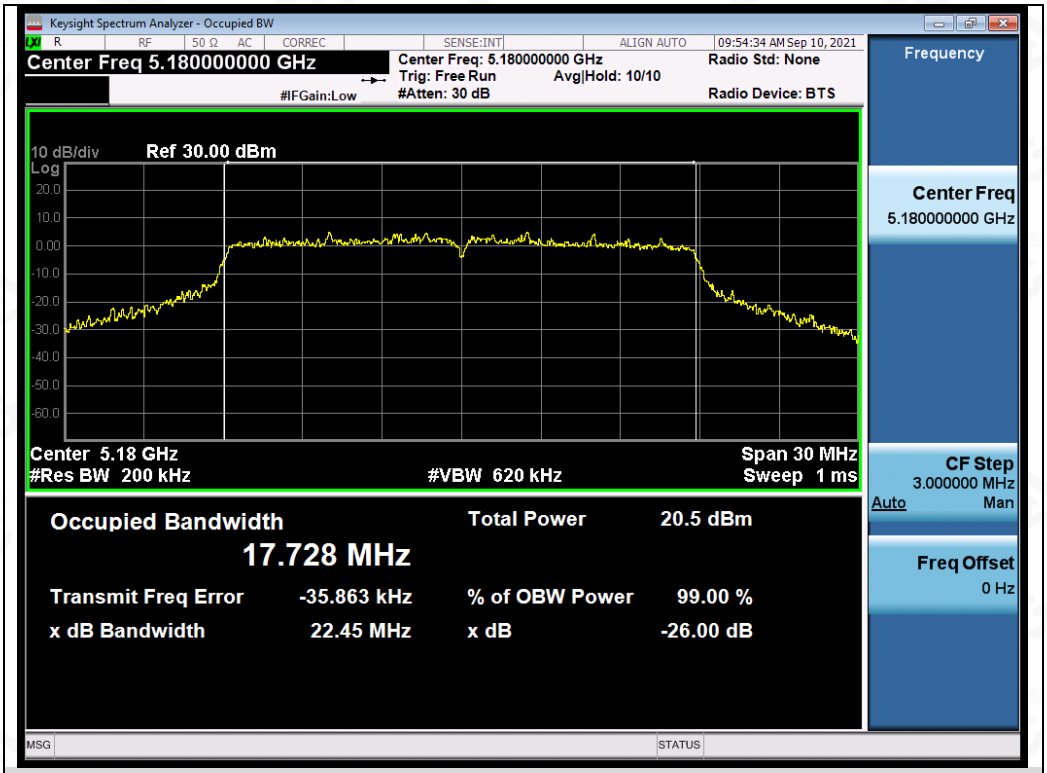


Test_Graph_802.11n20_ANT1_5240_MCS0_OBW

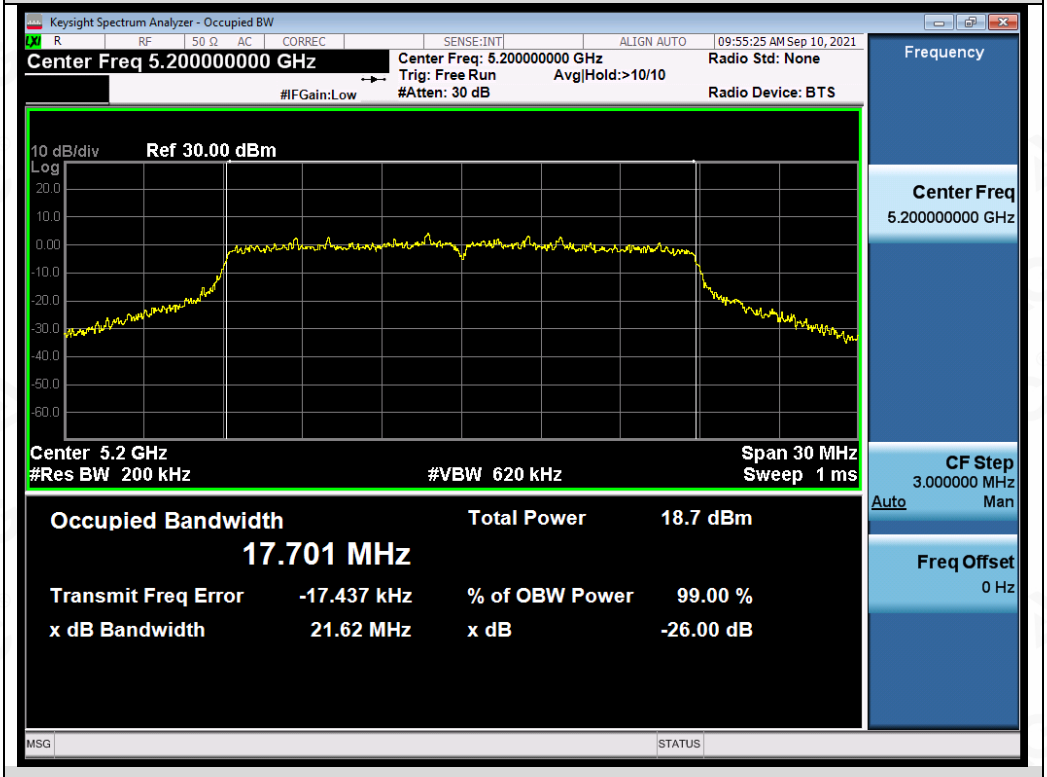
Test_Graph_802.11n40_ANT1_5190_MCS0_OBW



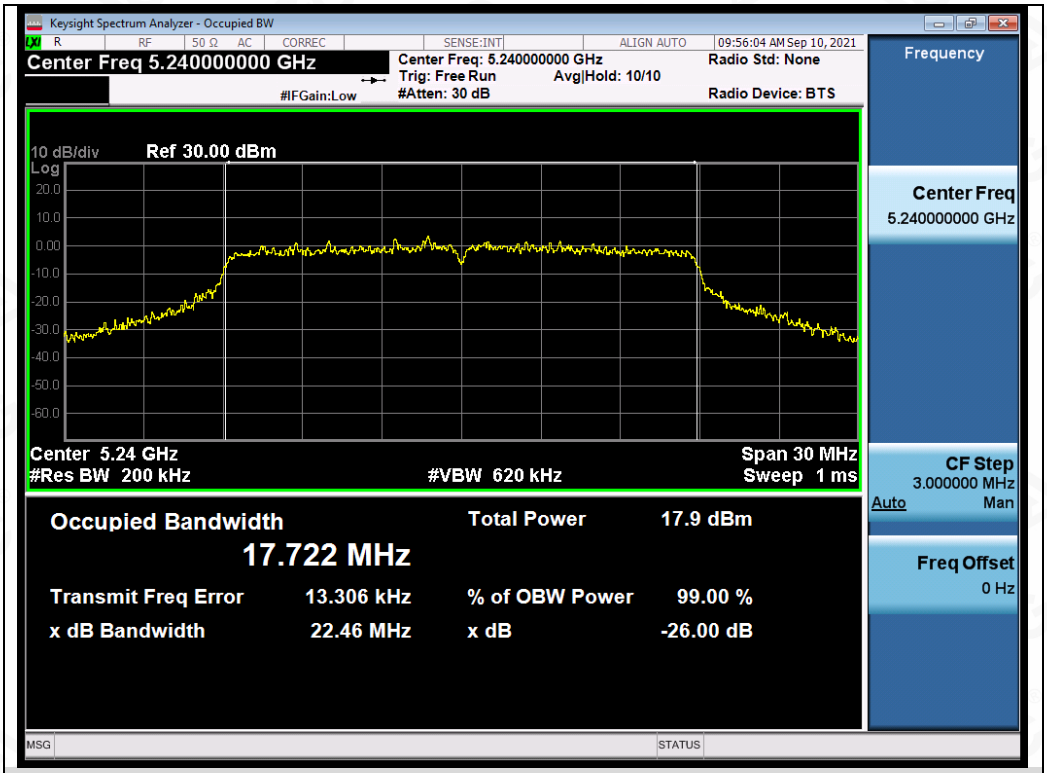
Test_Graph_802.11n40_ANT1_5230_MCS0_OBW



Test_Graph_802.11ac20_ANT1_5180_MCS0_OBW

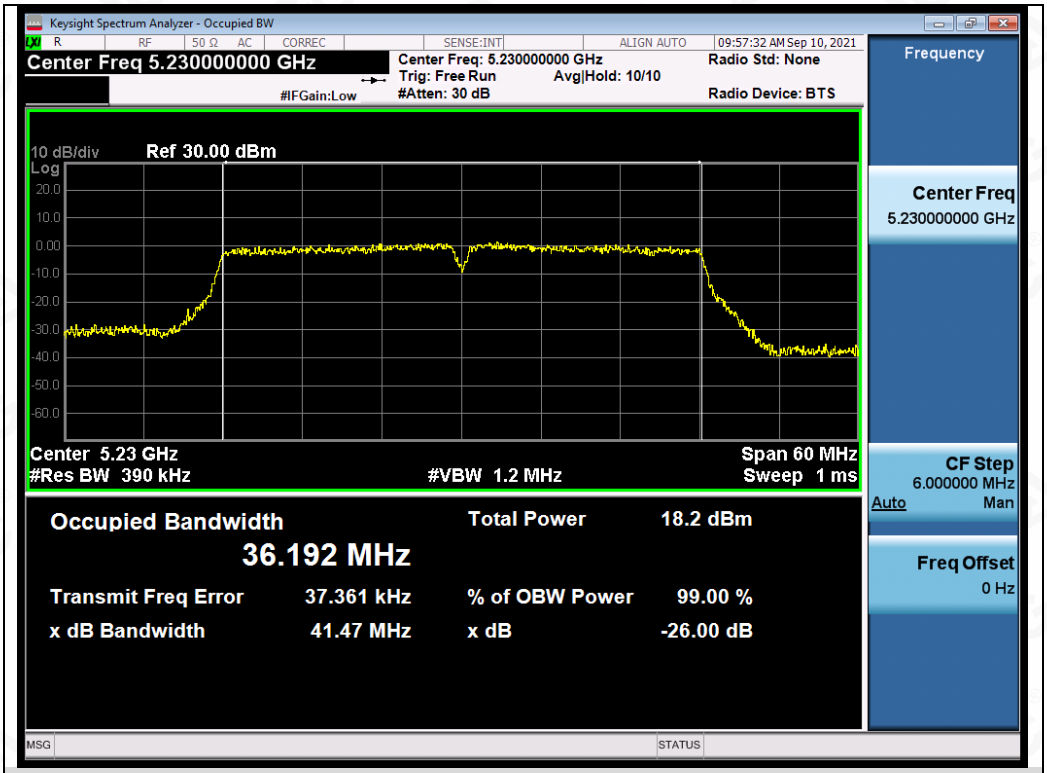


Test_Graph_802.11ac20_ANT1_5200_MCS0_OBW

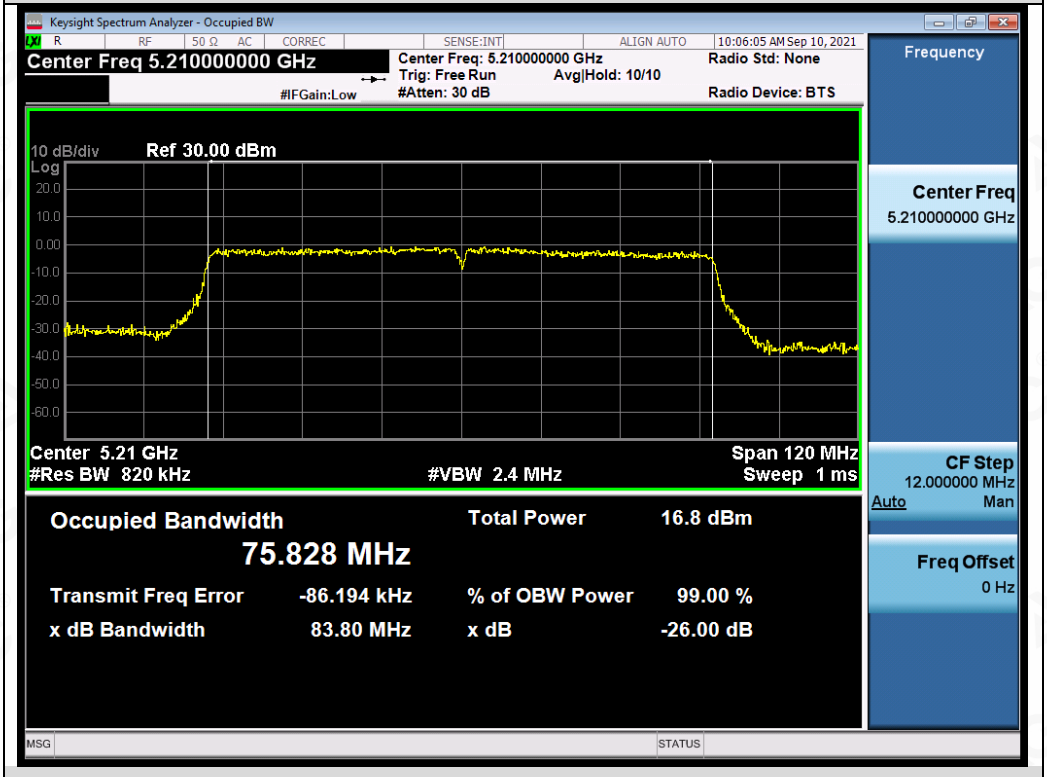


Test_Graph_802.11ac20_ANT1_5240_MCS9_OBW

Test_Graph_802.11ac40_ANT1_5190_MCS9_OBW

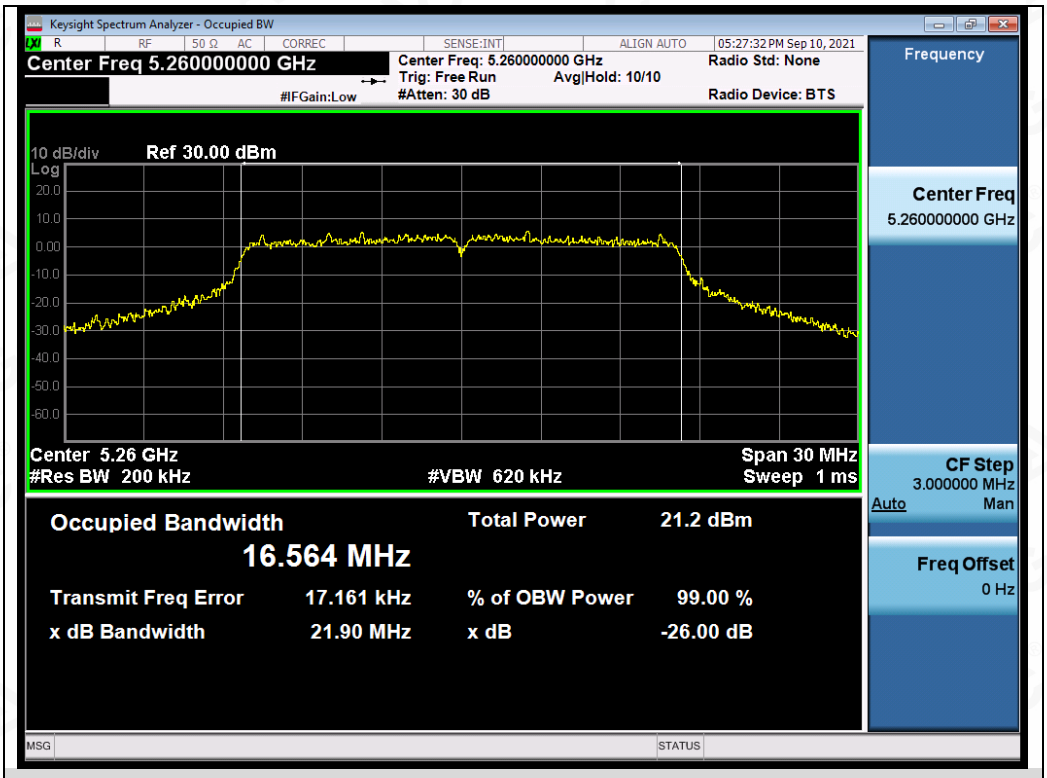


Test_Graph_802.11ac40_ANT1_5230_MCS9_OBW

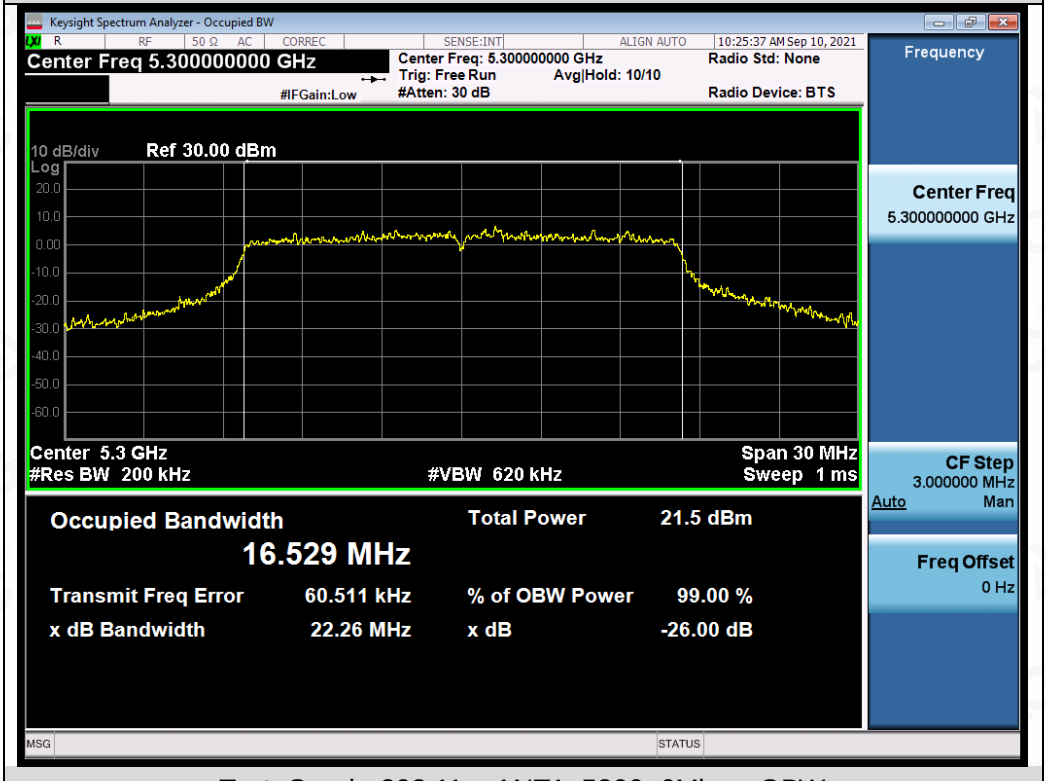


Test_Graph_802.11ac80_ANT1_5210_MCS9_OBW

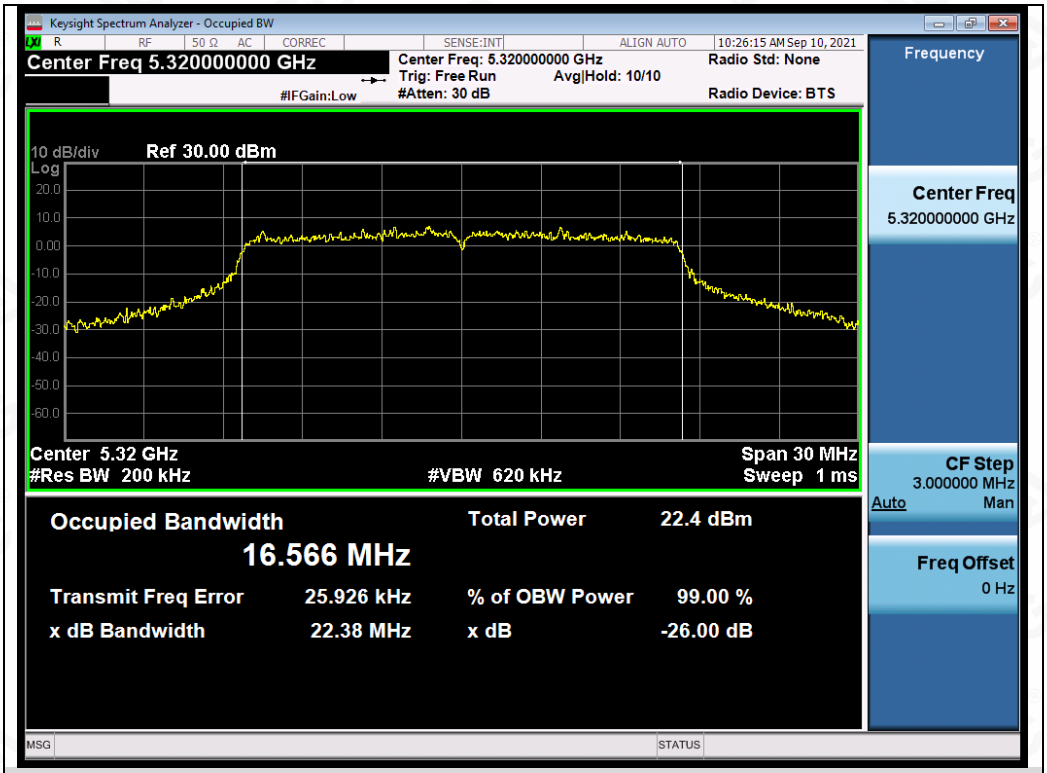
Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz -ANT 1



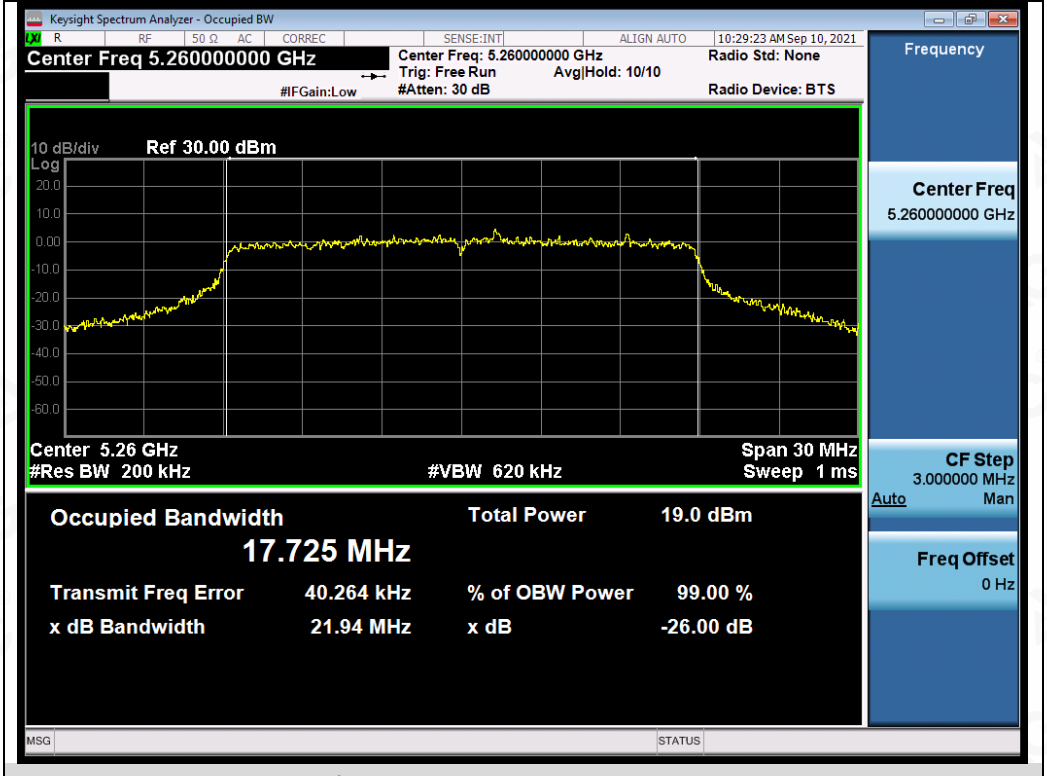
Test_Graph_802.11a_ANT1_5260_6Mbps_OBW



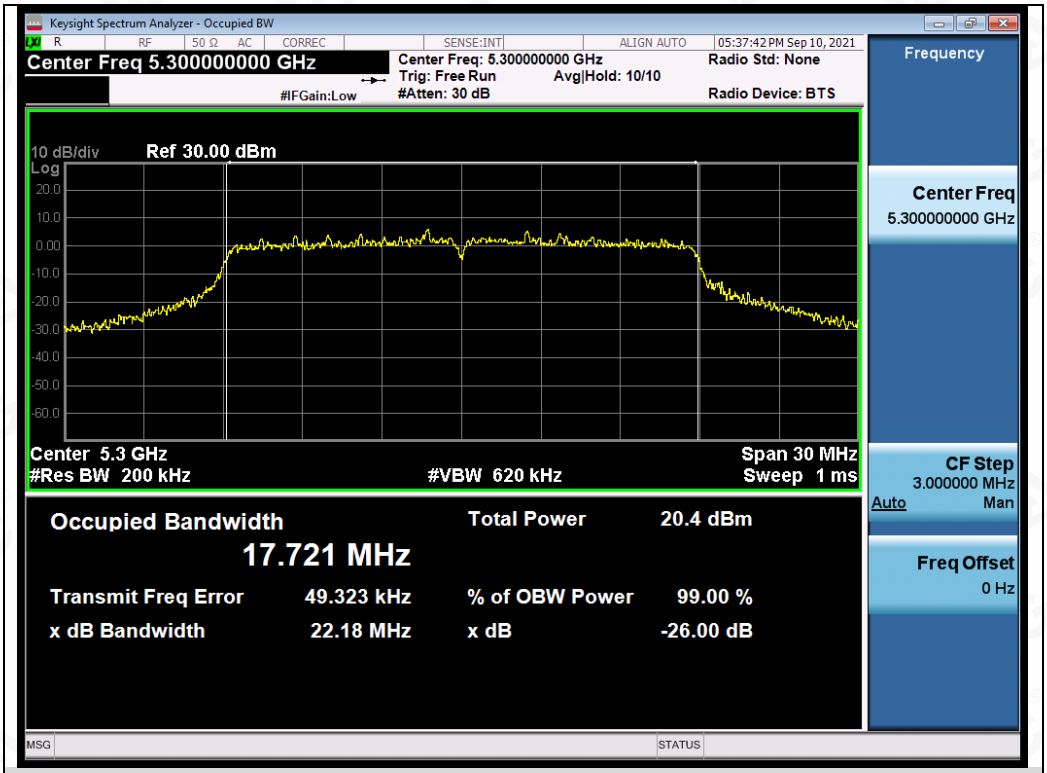
Test_Graph_802.11a_ANT1_5300_6Mbps_OBW



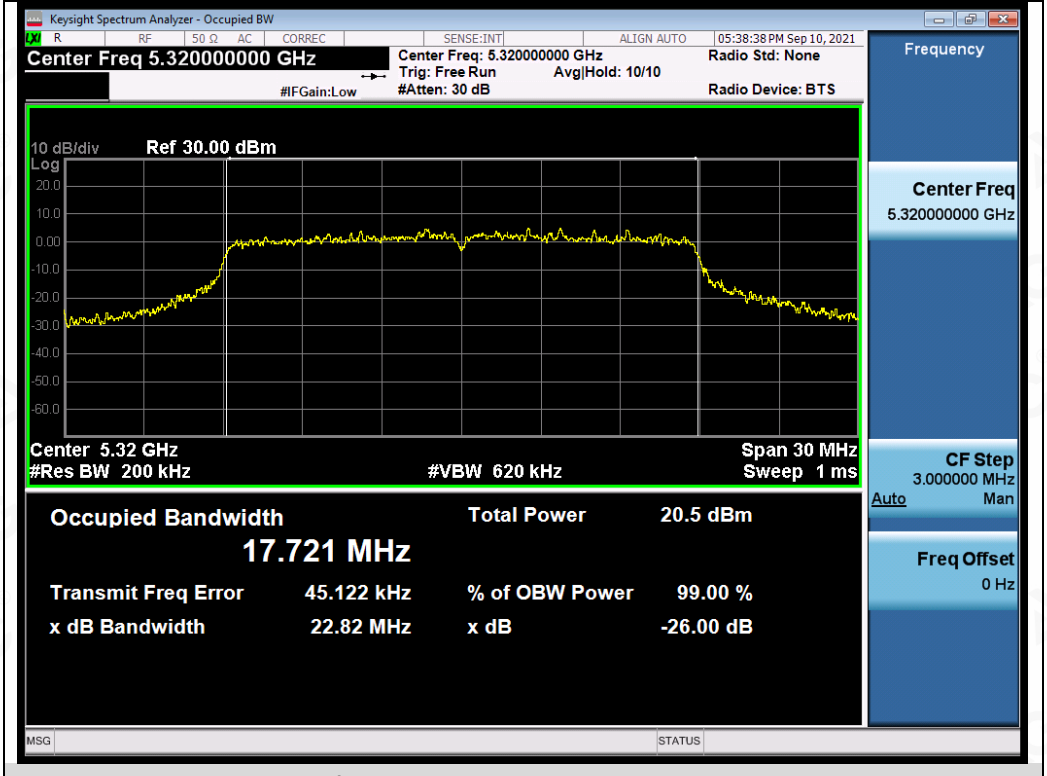
Test_Graph_802.11a_ANT1_5320_6Mbps_OBW



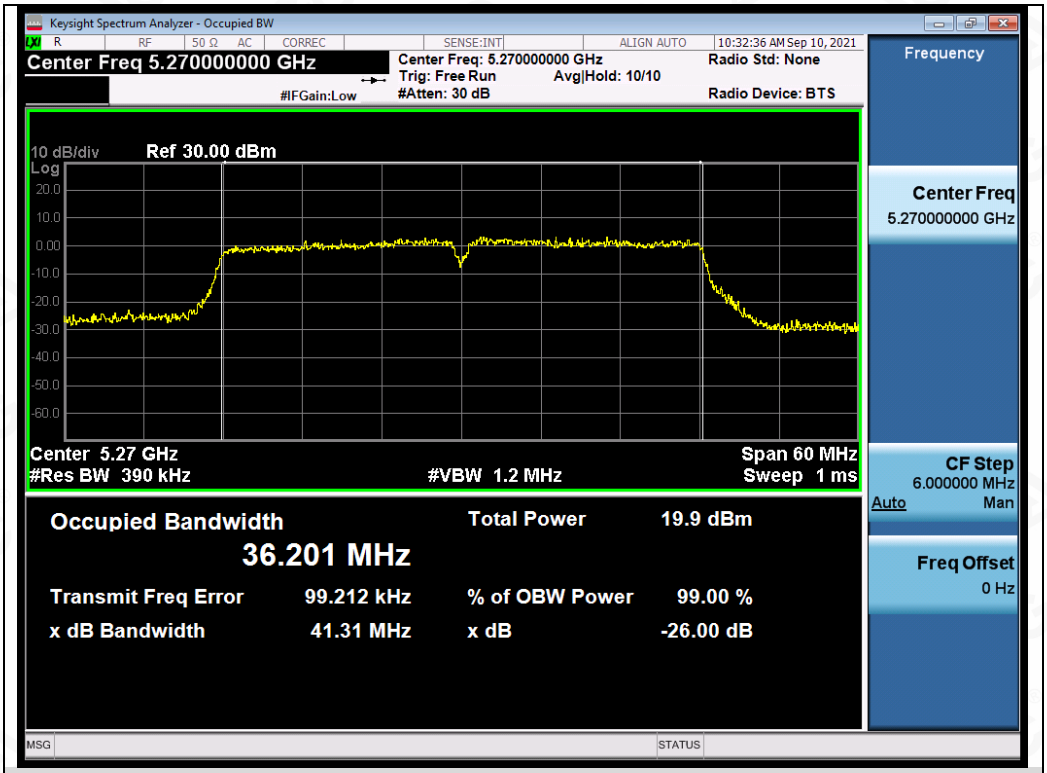
Test_Graph_802.11n20_ANT1_5260_MCS0_OBW



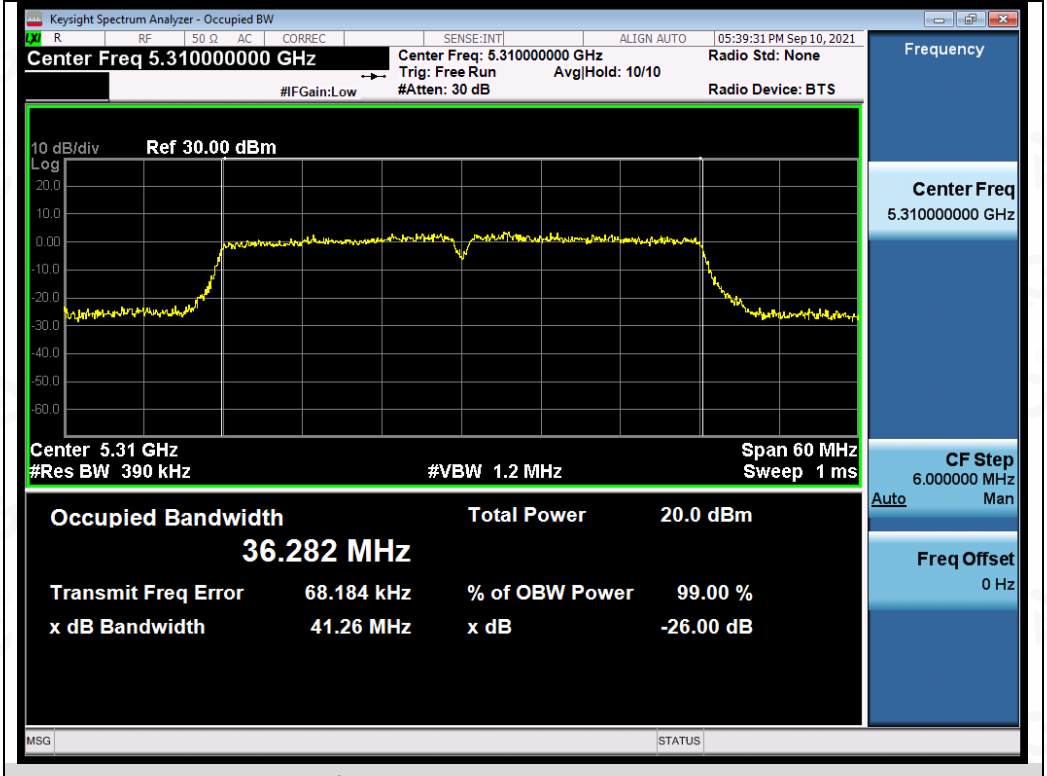
Test_Graph_802.11n20_ANT1_5300_MCS0_OBW



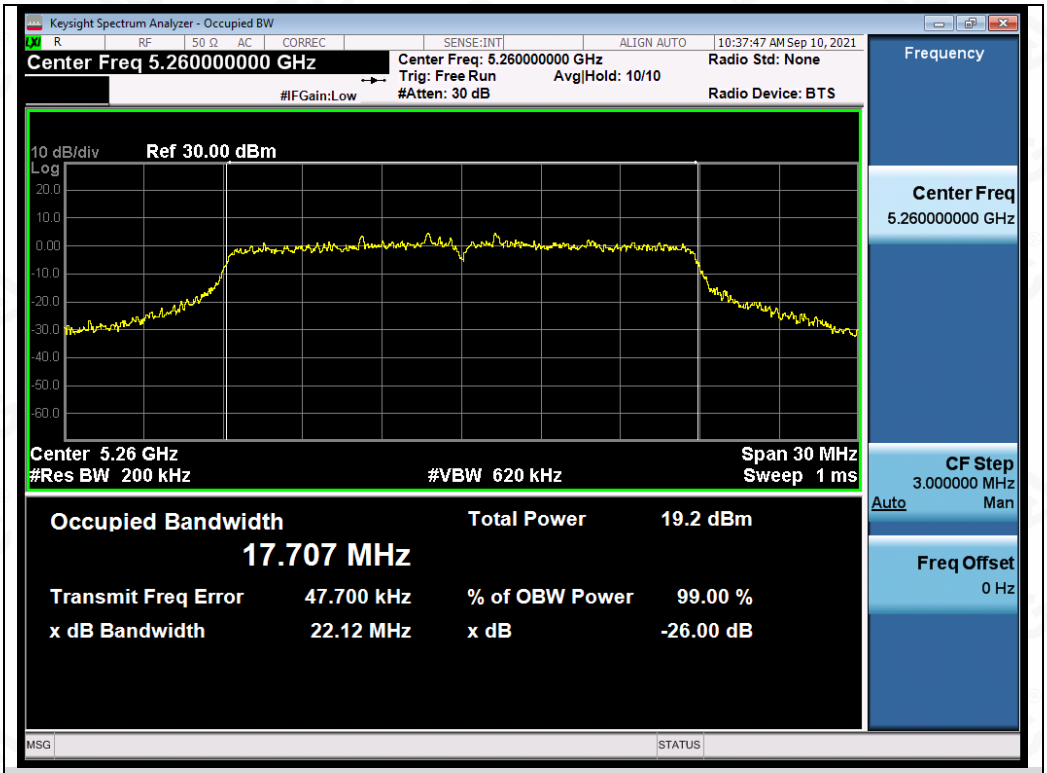
Test_Graph_802.11n20_ANT1_5320_MCS0_OBW



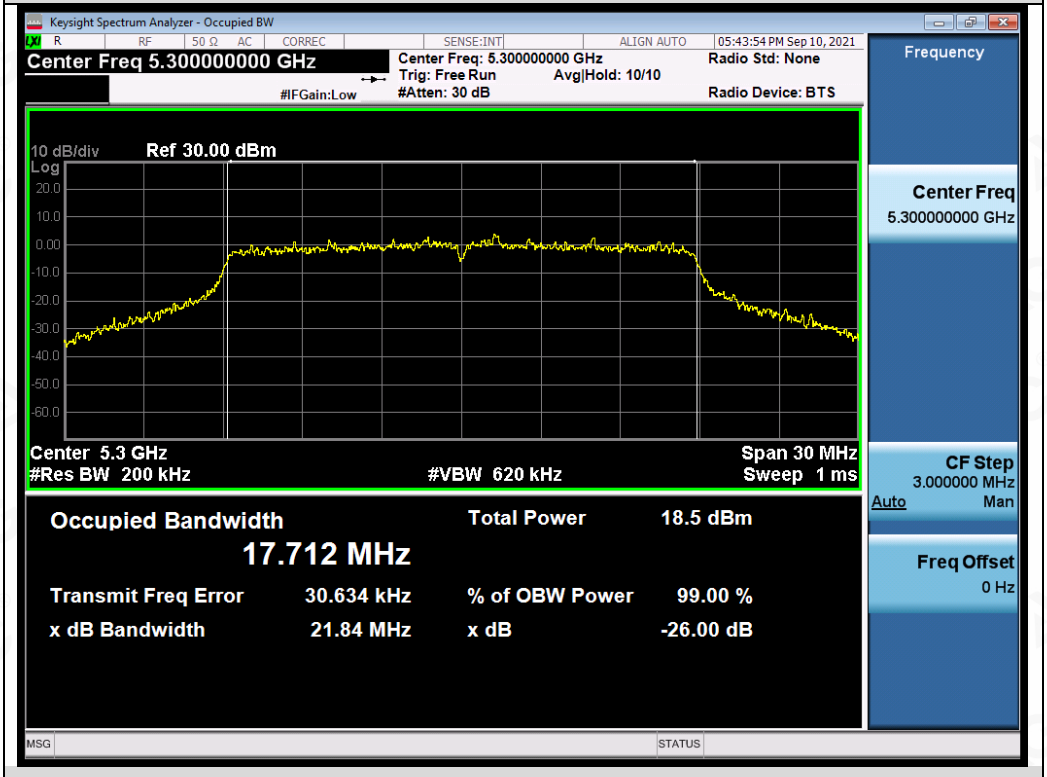
Test_Graph_802.11n40_ANT1_5270_MCS0_OBW



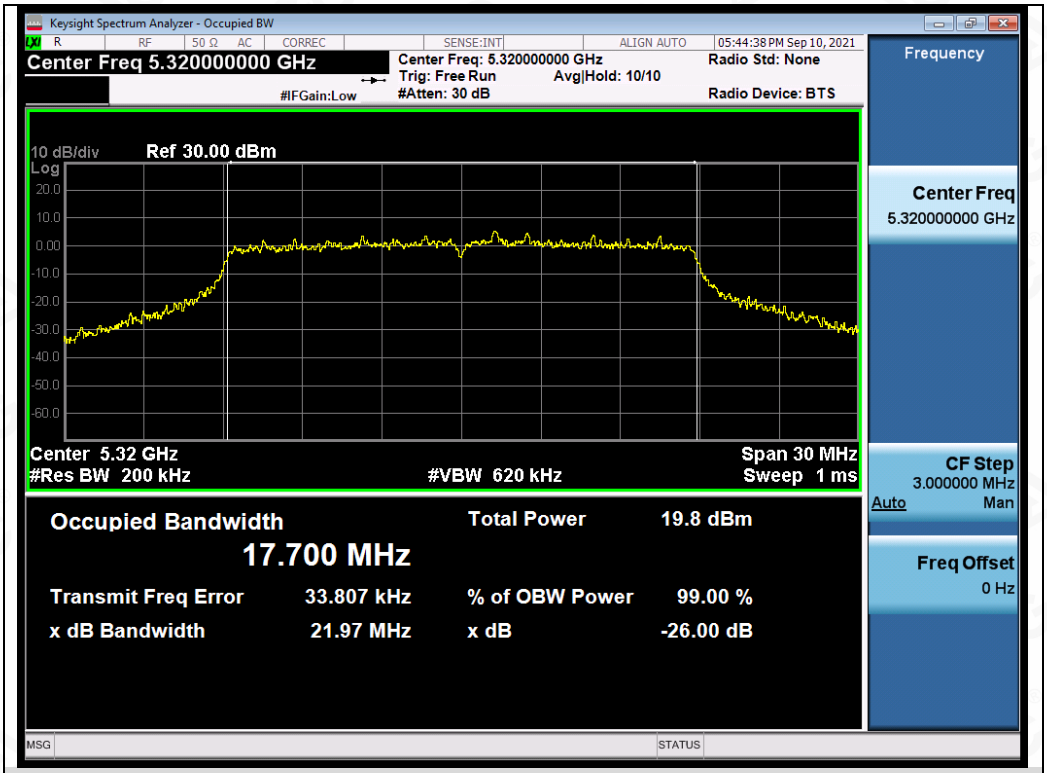
Test_Graph_802.11n40_ANT1_5310_MCS0_OBW



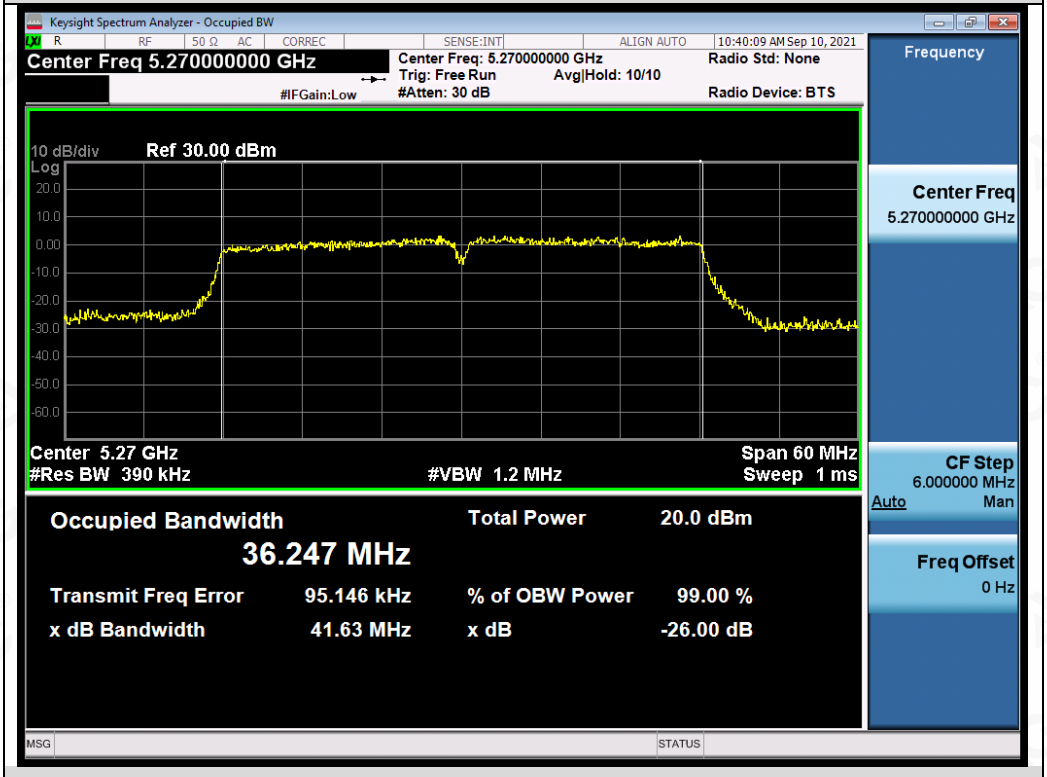
Test_Graph_802.11ac20_ANT1_5260_MCS0_OBW



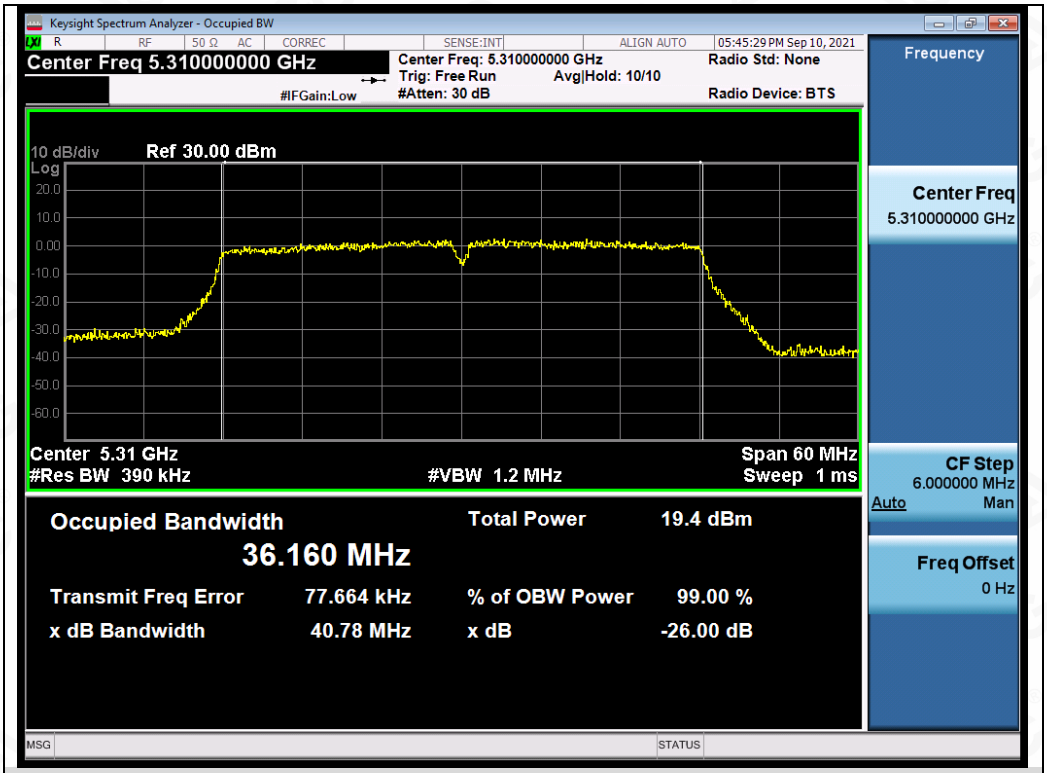
Test_Graph_802.11ac20_ANT1_5300_MCS0_OBW



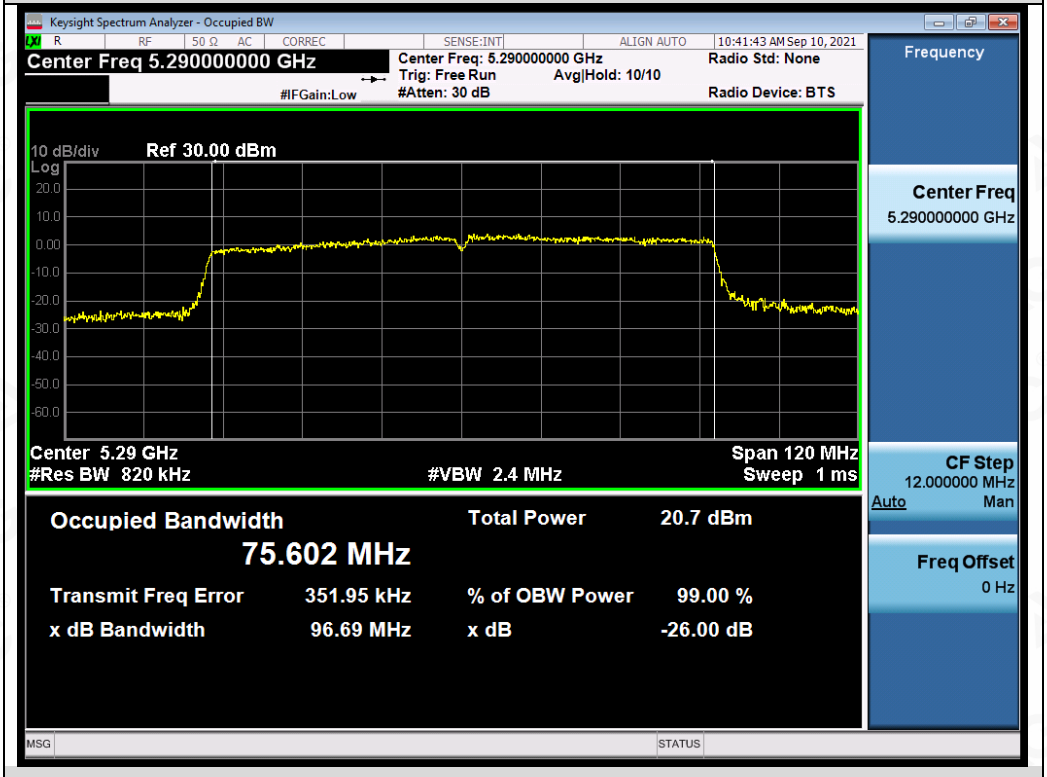
Test_Graph_802.11ac20_ANT1_5320_MCS9_OBW



Test_Graph_802.11ac40_ANT1_5270_MCS9_OBW

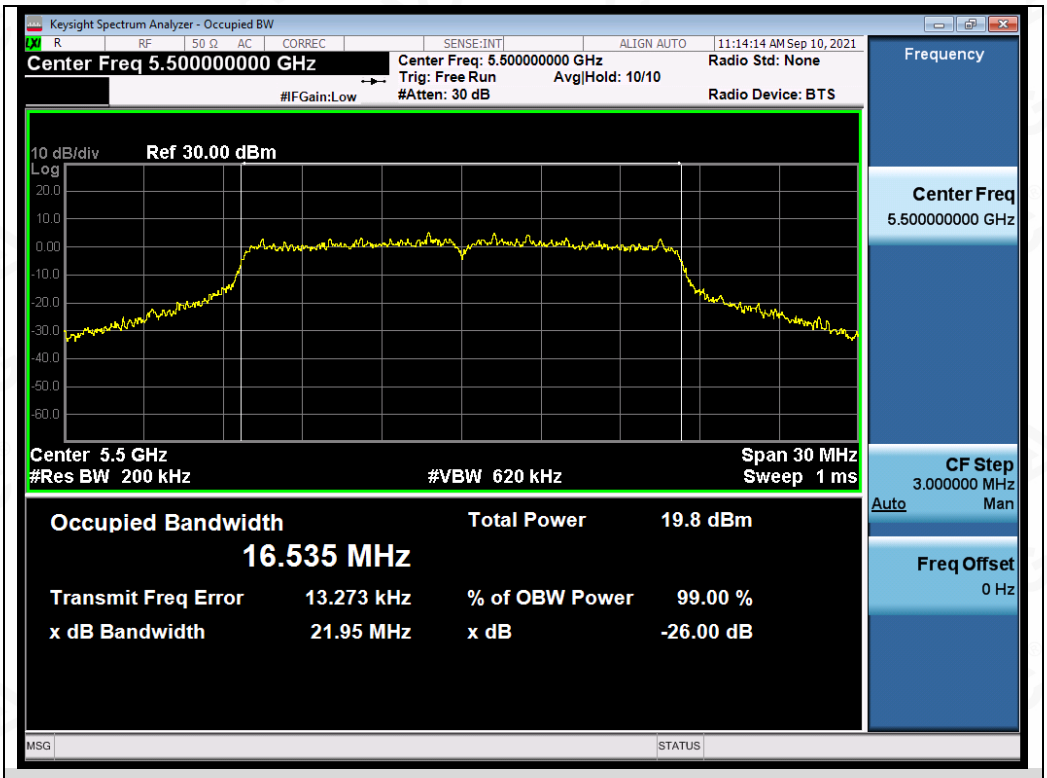


Test_Graph_802.11ac40_ANT1_5310_MCS9_OBW

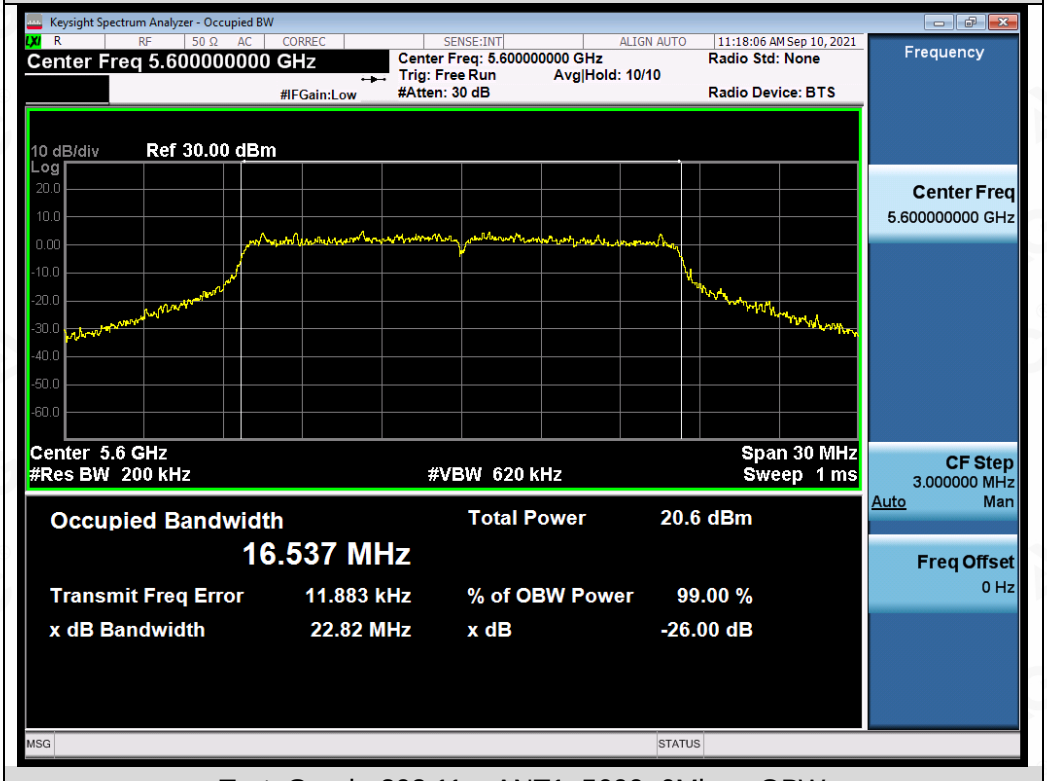


Test_Graph_802.11ac80_ANT1_5290_MCS9_OBW

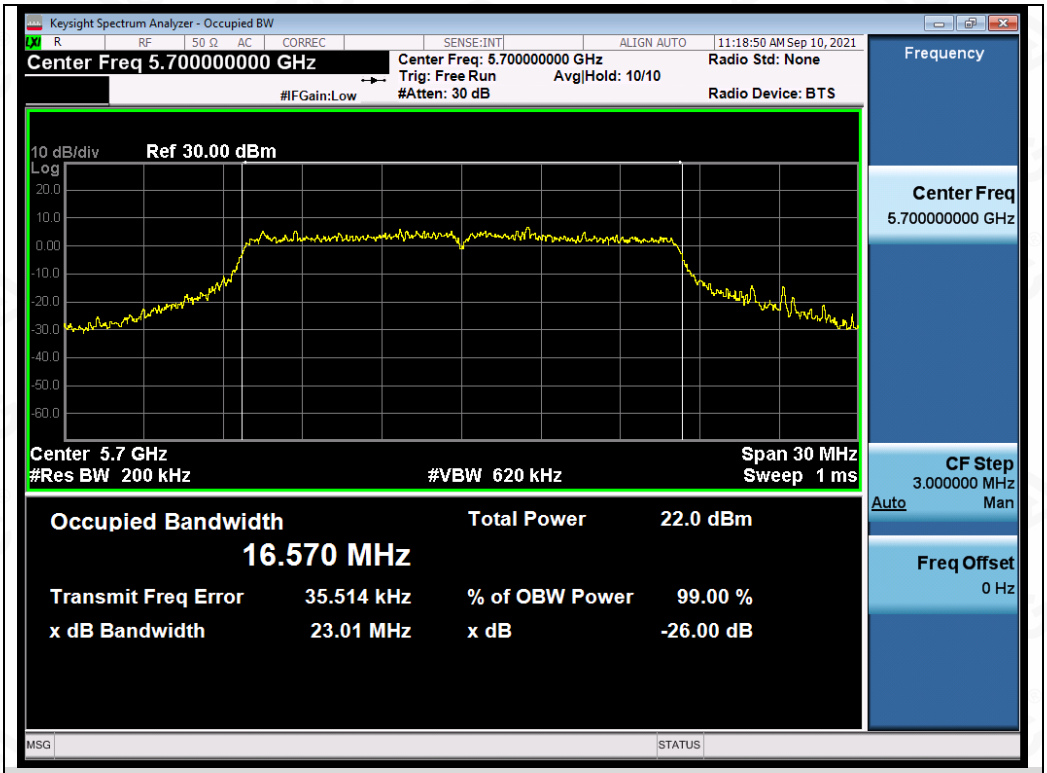
Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz -ANT 1



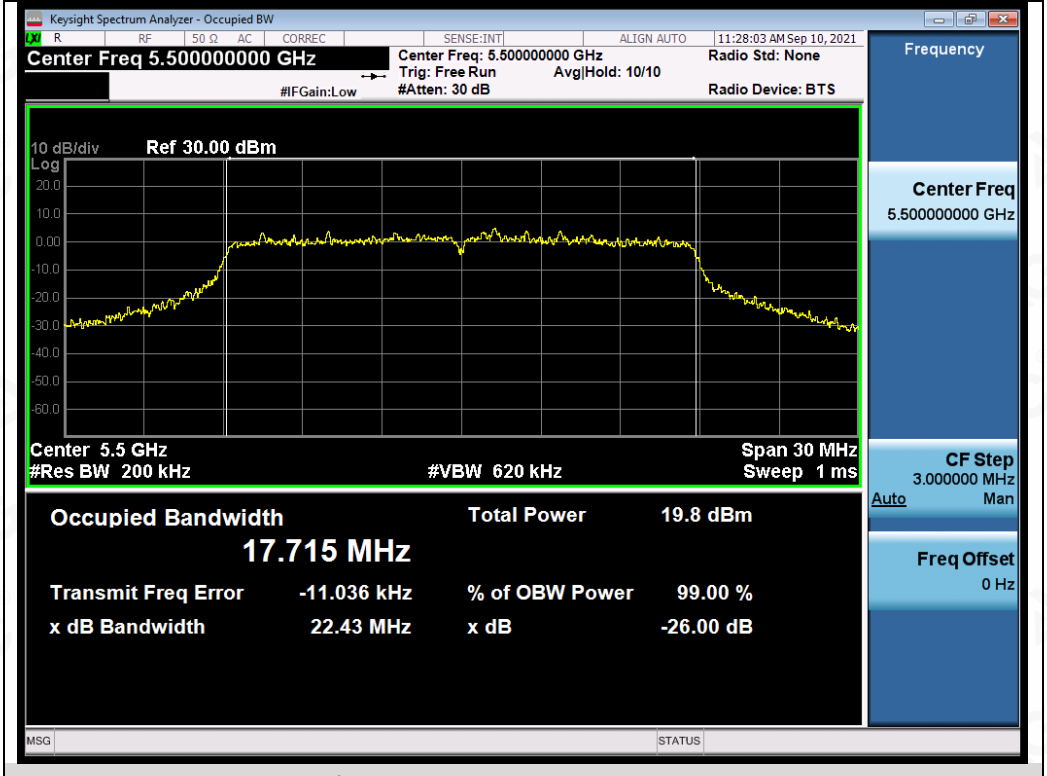
Test_Graph_802.11a_ANT1_5500_6Mbps_OBW



Test_Graph_802.11a_ANT1_5600_6Mbps_OBW



Test_Graph_802.11a_ANT1_5700_6Mbps_OBW



Test_Graph_802.11n20_ANT1_5500_MCS0_OBW