



TEST REPORT

APPLICANT : Realme Chongqing Mobile
Telecommunications Corp., Ltd.

PRODUCT NAME : Mobile Phone

MODEL NAME : RMX2103

BRAND NAME : realme

FCC ID : 2AUYFRMX2103

STANDARD(S) : 47 CFR Part 15 Subpart E

RECEIPT DATE : 2020-07-29

TEST DATE : 2020-08-01 to 2020-08-27

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Peng Huarui(Supervisor)

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Change History		
Version	Date	Reason for change
1.0	2020-08-30	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Applicant Address:	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Manufacturer:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Manufacturer Address:	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Phone	
Serial No.:	(N/A, marked #1 by test site)	
Hardware Version:	11	
Software Version:	realme UI V1.0	
Modulation Type:	OFDM	
Modulation Mode:	802.11a, 802.11n (HT20), 802.11n (HT40) 802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80),	
Operating Frequency Range:	5180MHz-5240MHz; 5260MHz-5320MHz; 5500MHz-5720MHz; 5745MHz-5825MHz	
Channel Number:	Refer to 1.3	
Antenna Type:	PIFA Antenna	
Antenna Gain:	-3dBi	
Accessory Information:	Battery 1	
	Brand Name:	realme
	Model No.:	BLP803
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	4890mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	SUNWODA Electronic Co., Ltd.



Accessory Information:	Battery 2	
	Brand Name:	realme
	Model No.:	BLP803
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	4890mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	Huizhou Desay Battery Co., Ltd.
	Battery 3	
	Brand Name:	realme
	Model No.:	BLP803
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	4890mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	TWS TECHNOLOGY (GUANGZHOU) LIMITED
	Adaptor 1	
	Brand Name:	realme
	Model No.:	OP92KAUH
	Serial No.:	(N/A, marked #1 by test site)
	Rated Output:	5V=2A, 9V=2A
	Rated Input:	100-240V~0.5A 50/60Hz
	Manufacturer:	ShenZhen KunXing Technology Co., Ltd
	Adaptor 2	
	Brand Name:	realme
	Model No.:	OP92JAUH
	Serial No.:	(N/A, marked #1 by test site)
Rated Output:	5V=2A, 9V=2A	
Rated Input:	100-240V~0.5A 50/60Hz	
Manufacturer:	Huizhou Golden Lake Industrial Co.,Ltd	

Note 1: WIFI hotspot does not support U-NII band.

Note 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Modulation Type and Data Rate of EUT

Modulation technology	Modulation Type	Data Rate (Mbps) ^{Note1}
OFDM (802.11a)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n)	BPSK	6.5
	QPSK	13/19.5
	16QAM	26/39
	64QAM	52/58.5/65
OFDM (802.11ac)	BPSK	6.5
	QPSK	13/19.5
	16QAM	26/39
	64QAM	52/58.5/65
	256QAM	78

Note1: The worst-case mode (black bold) in all data rates has been determined during the pre-scan, only the test data of the worst-case were recorded in this report.

1.4. The Channel Number and Frequency

Frequency Range: 5150MHz-5250MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	36	5180	40	5200
	44	5220	48	5240
40MHz	38	5190	46	5230
80MHz	42	5210		
Frequency Range: 5250MHz-5350MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	52	5260	56	5280
	60	5300	64	5320
40MHz	54	5270	62	5310
80MHz	58	5290		
Frequency Range: 5470MHz-5725MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	100	5500	105	5520
			108	5540
			116	5580
			124	5620
			132	5660
			140	144
40MHz	102	5510	110	5550
			118	5590
			134	142
80MHz	106	5530	122	5610
	138	5690		
Frequency Range: 5725MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	149	5745	153	5765
	157	5785	161	5805
	165	5825		
40MHz	151	5775	159	5795
80MHz	155	5775		

Note 1: The black bold channels were selected for test.



1.5. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart E (U-NII band) for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15(5-1-14 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	No deviation
2	ANSI C63.10	Duty Cycle of the Test Signal	Aug 20, 2020	Ouyang Feng	PASS	No deviation
3	15.407(a)	Maximum Conducted Output Power	Aug 26, 2020	Ouyang Feng	PASS	No deviation
4	15.407(a)(e)	Emission Bandwidth	Aug 20 & Aug 16, 2020	Ouyang Feng	PASS	No deviation
5	15.407(a)	Peak Power Spectral Density	Aug 20, 2020	Ouyang Feng	PASS	No deviation
6	15.407(g)	Frequency Stability	Aug 27, 2020	Ouyang Feng	PASS	No deviation
7	15.207	Conducted Emission	Aug 01, 2020	Huang Zhiye	PASS	No deviation
8	15.407(b)	Restricted Frequency Bands	Aug 11, 2020	Peng Xuwei	PASS	No deviation
9	15.407(b)	Radiated Emission	Aug 11, 2020	Peng Xuwei	PASS	No deviation

Note 1: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.102013.

Note 2: These RF tests were performed according to the method of measurements prescribed in KDB789033 D02 v01r03.

Note 3: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 12.5dB contains two parts that cable loss 2.5dB and



Attenuator 10dB.

Note 4: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 5: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% risk level.

1.6. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106



2.47 CFR Part 15E Requirements

2.1. Antenna Requirement

2.1.1. Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

2.1.2. Test Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Duty Cycle of the Test Signal

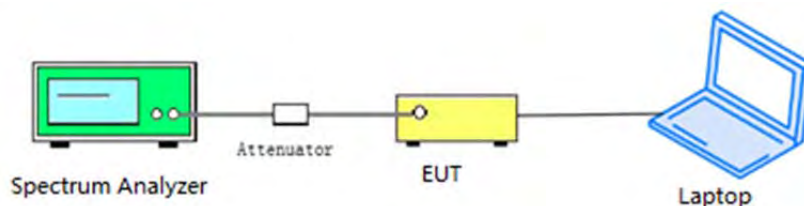
2.2.1. Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration (T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e., no transmitter OFF-time is to be considered).

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this sub clause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than $\pm 2\%$; otherwise, the duty cycle is considered to be nonconstant.

2.2.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

2.2.3. Test Procedure

KDB 789033 Section B was used in order to prove compliance.

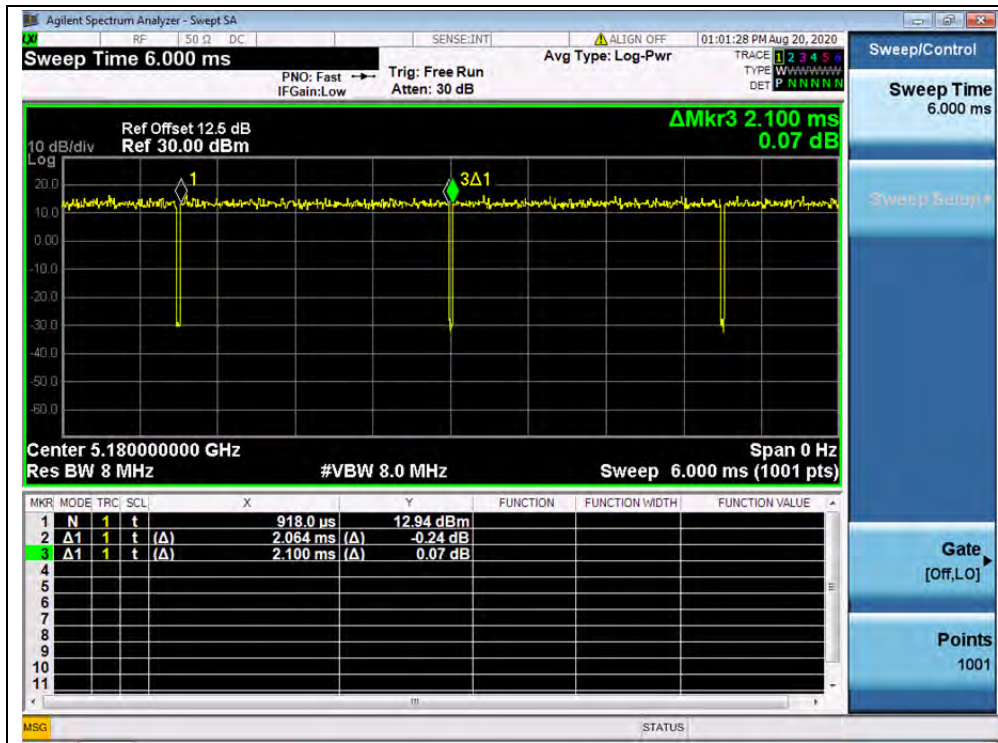


2.2.4. Test Result

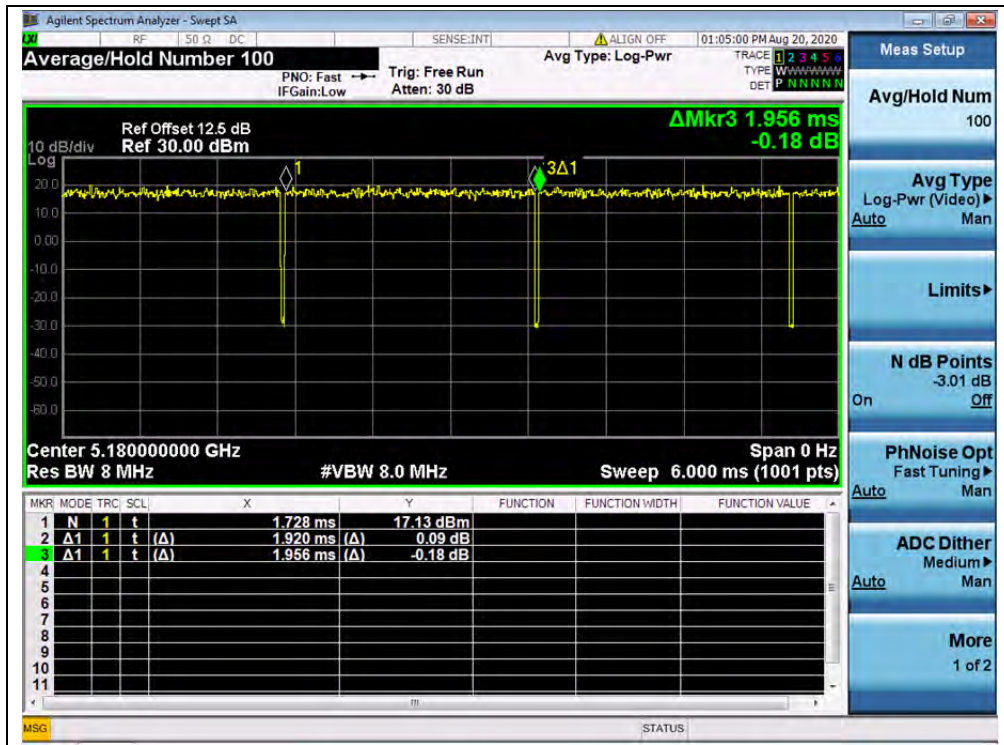
A. Test Verdict:

Test Mode	Duty Cycle (%) (D)	Duty Factor (10*log[1/D])
802.11a	98.29	0.07
802.11n (HT20)	98.16	0.08
802.11n (HT40)	96.34	0.16
802.11ac (VHT20)	97.38	0.12
802.11ac (VHT40)	96.36	0.16
802.11ac (VHT80)	92.06	0.36

B. Test Plot:



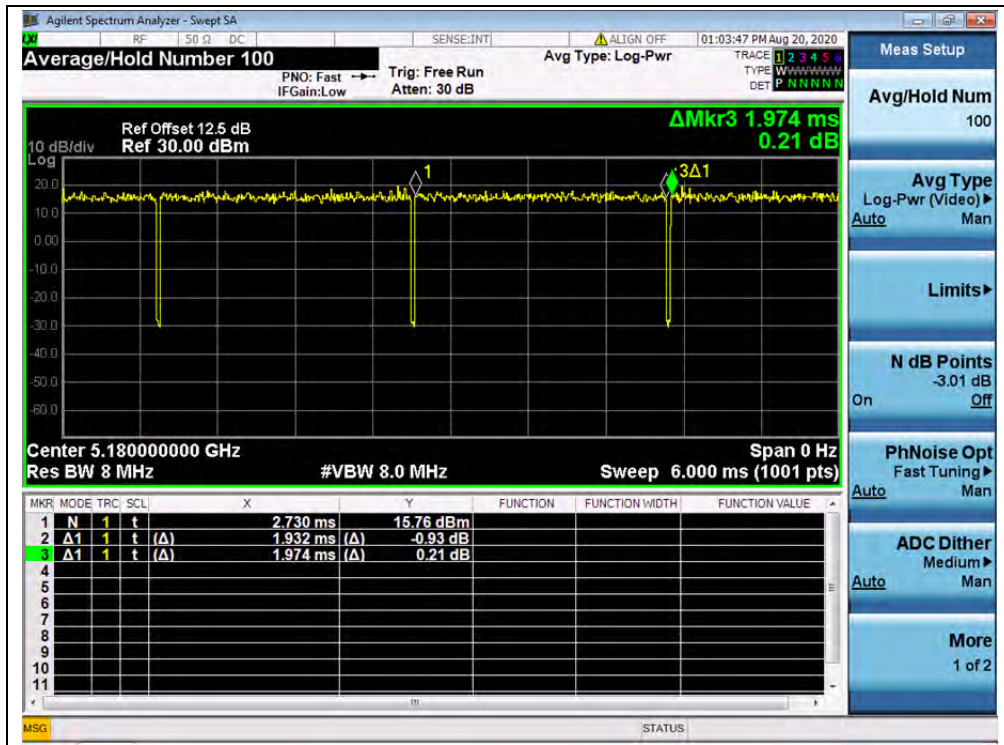
(Channel 36, 5180MHz, 802.11a)



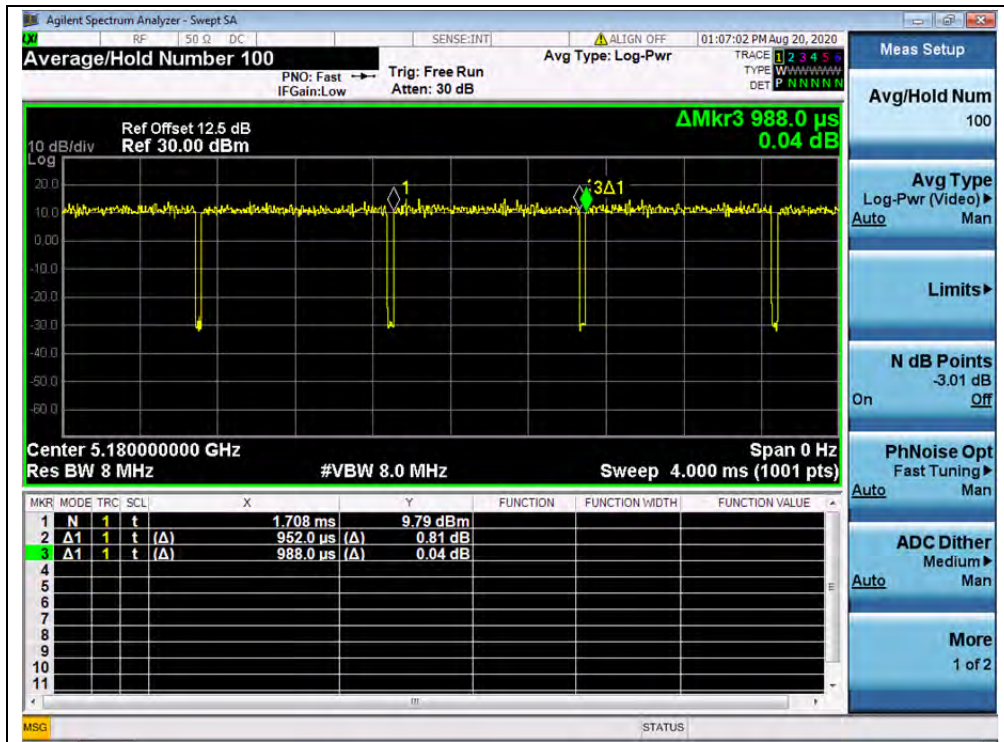
(Channel 36, 5180MHz, 802.11n (HT20))



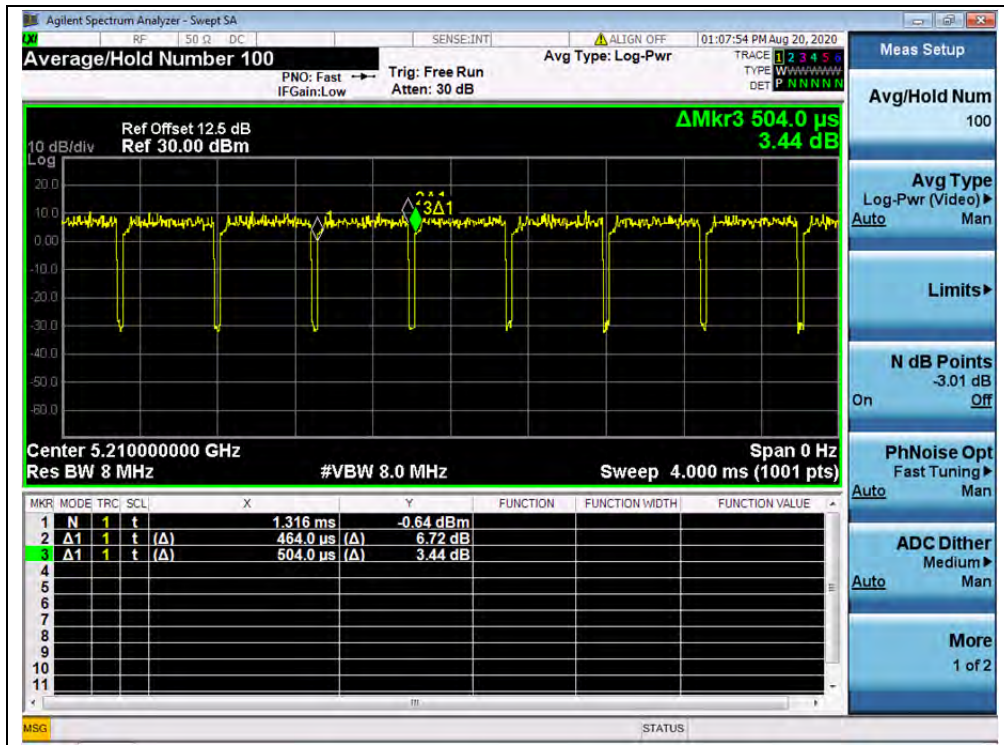
(Channel 38, 5190MHz, 802.11n (HT40))



(Channel 36, 5180MHz, 802.11ac (VHT20))



(Channel 38, 5190MHz, 802.11ac (VHT40))



(Channel 42, 5210MHz, 802.11ac (VHT80))

2.3. Maximum Conducted Output Power

2.3.1. Requirement

(1) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250mW provided the maximum antenna gain does not exceed 6dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250mW or $11\text{dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

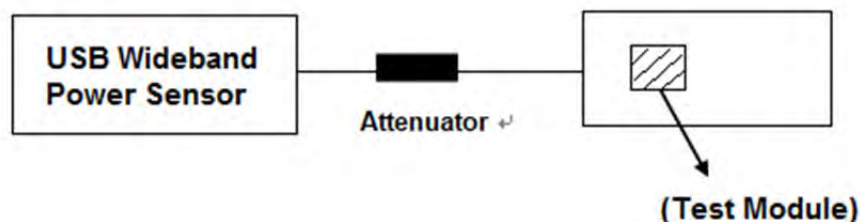
(4) According to KDB662911D01 Measure-and-sum technique, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in units that are directly proportional to power.

(5) According to KDB 662911 D01, the directional gain = $G_{\text{ANT}} + 10\log(N_{\text{ANT}})\text{dBi}$, where G_{ANT} is the antenna gain in dBi, N_{ANT} is the number of outputs.

2.3.2. Test Description

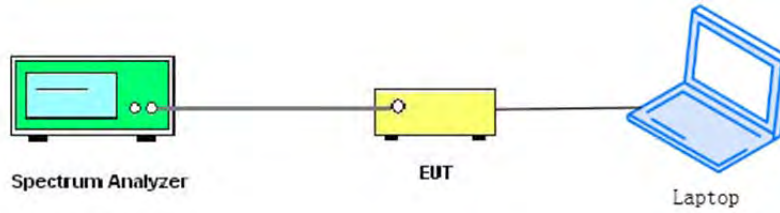
Section E) 3) of KDB 789033 defines a methodology using a USB Wideband Power Sensor.

Test Setup:



The EUT (Equipment under the test) which is coupled to the USB Wideband Power Sensor; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading, all test result in USB Wideband Power Sensor.

For ac (VHT80) mode power



The EUT (Equipment under the test) is coupled to the Spectrum analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading, all test result in Spectrum analyzer.

2.3.3.Limits

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

Mode	Band	Channel (MHz)	26dB BW (MHz)	11+10log(26dB BW)	Limits (dBm)
a	UNII-2a	5260	21.63	24.35	24.00
		5300	21.08	24.24	24.00
		5320	21.38	24.30	24.00
	UNII-2c	5500	22.16	24.46	24.00
		5600	22.20	24.46	24.00
		5720	22.43	24.51	24.00
n20	UNII-2a	5260	21.79	24.38	24.00
		5300	22.60	24.54	24.00
		5320	21.33	24.29	24.00
	UNII-2c	5500	22.93	24.60	24.00
		5600	21.67	24.36	24.00
		5720	22.44	24.51	24.00
ac20	UNII-2a	5260	22.10	24.44	24.00
		5300	21.09	24.24	24.00
		5320	22.78	24.58	24.00
	UNII-2c	5500	22.00	24.42	24.00
		5600	20.97	24.22	24.00
		5720	23.22	24.66	24.00



2.3.4. Test Result

Maximum Average Conducted Output Power

802.11a Mode

Frequency (MHz)	Average Power				Limit		Verdict
	Measured	Duty Factor	Duty factor Calculated		dBm	W	
	dBm		dBm	W			
5180	15.11	0.07	15.18	0.033	24	0.25	PASS
5220	15.20		15.27	0.034			
5240	15.62		15.69	0.037			
5260	14.90		14.97	0.031			
5300	15.25		15.32	0.034			
5320	15.50		15.57	0.036			
5500	15.36		15.43	0.035			
5600	15.38		15.45	0.035			
5720	15.02		15.09	0.032			
5745	16.84		16.91	0.049			
5785	16.25		16.32	0.043			
5825	16.27		16.34	0.043			

802.11n (HT20) Mode

Frequency (MHz)	Average Power				Limit		Verdict
	Measured	Duty Factor	Duty factor Calculated		dBm	W	
	dBm		dBm	W			
5180	14.21	0.08	14.29	0.027	24	0.25	PASS
5220	14.17		14.25	0.027			
5240	14.77		14.85	0.031			
5260	13.80		13.88	0.024			
5300	14.18		14.26	0.027			
5320	14.26		14.34	0.027			
5500	13.23		13.31	0.021			
5600	14.83		14.91	0.031			
5720	14.00		14.08	0.026			
5745	16.45		16.53	0.045			
5785	16.25		16.33	0.043			
5825	16.35		16.43	0.044			



802.11n (HT40) Mode

Frequency (MHz)	Average Power				Limit		Verdict
	Measured	Duty Factor	Duty factor Calculated		dBm	W	
	dBm		dBm	W			
5190	11.59	0.16	11.75	0.015	24	0.25	PASS
5230	11.85		12.01	0.016			
5270	11.26		11.42	0.014			
5310	11.67		11.83	0.015			
5510	10.62		10.78	0.012			
5630	12.01		12.17	0.016			
5710	11.40		11.56	0.014			
5755	13.25		13.41	0.022	30	1	
5795	13.56		13.72	0.024			

802.11ac (VHT20) Mode

Frequency (MHz)	Average Power				Limit		Verdict
	Measured	Duty Factor	Duty factor Calculated		dBm	W	
	dBm		dBm	W			
5180	14.26	0.12	14.38	0.027	24	0.25	PASS
5220	14.29		14.41	0.028			
5240	15.13		15.25	0.033			
5260	13.84		13.96	0.025			
5300	14.19		14.31	0.027			
5320	14.30		14.42	0.028			
5500	13.25		13.37	0.022			
5600	14.87		14.99	0.032			
5720	14.01		14.13	0.026			
5745	16.35		16.47	0.044	30	1	
5785	16.54		16.66	0.046			
5825	16.24		16.36	0.043			



802.11ac (VHT40) Mode

Frequency (MHz)	Average Power				Limit		Verdict
	Measured	Duty Factor	Duty factor Calculated		dBm	W	
	dBm		dBm	W			
5190	11.59	0.16	11.75	0.015	24	0.25	PASS
5230	11.89		12.05	0.016			
5270	10.64		10.80	0.012			
5310	10.95		11.11	0.013			
5510	10.57		10.73	0.012			
5630	10.78		10.94	0.012			
5710	11.40		11.56	0.014			
5755	13.22		13.38	0.022	30	1	
5795	13.84		14.00	0.025			

802.11ac (VHT80) Mode

Frequency (MHz)	Average Power				Limit		Verdict
	Measured	Duty Factor	Duty factor Calculated		dBm	W	
	dBm		dBm	W			
5210	8.95	0.36	9.31	0.009	24	0.25	PASS
5290	9.21		9.57	0.009			
5530	9.26		9.62	0.009			
5610	9.63		9.99	0.010			
5690	9.24		9.60	0.009			
5775	11.25		11.61	0.014	30	1	

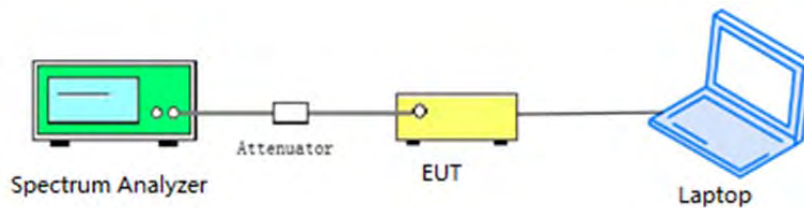
2.4. Emission Bandwidth

2.4.1. Requirement

For purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Determination of the emissions bandwidth is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement. Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

2.4.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

2.4.3. Test Procedure

1. KDB 789033 Section C) 1) Emission Bandwidth was used in order to prove compliance
 - a) Set RBW = approximately 1% of the emission bandwidth.
 - b) Set VBW > RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Measure the maximum width of the emission that is 26 dB down from the peak 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%.
2. KDB 789033 Section C) 2) minimum emission bandwidth for the band 5.725-5.85GHz was used in order to prove compliance.
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:



- a) Set RBW = 100 kHz.
- b) Set video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

2.4.4. Test Result

802.11a Mode

A. Test Verdict:

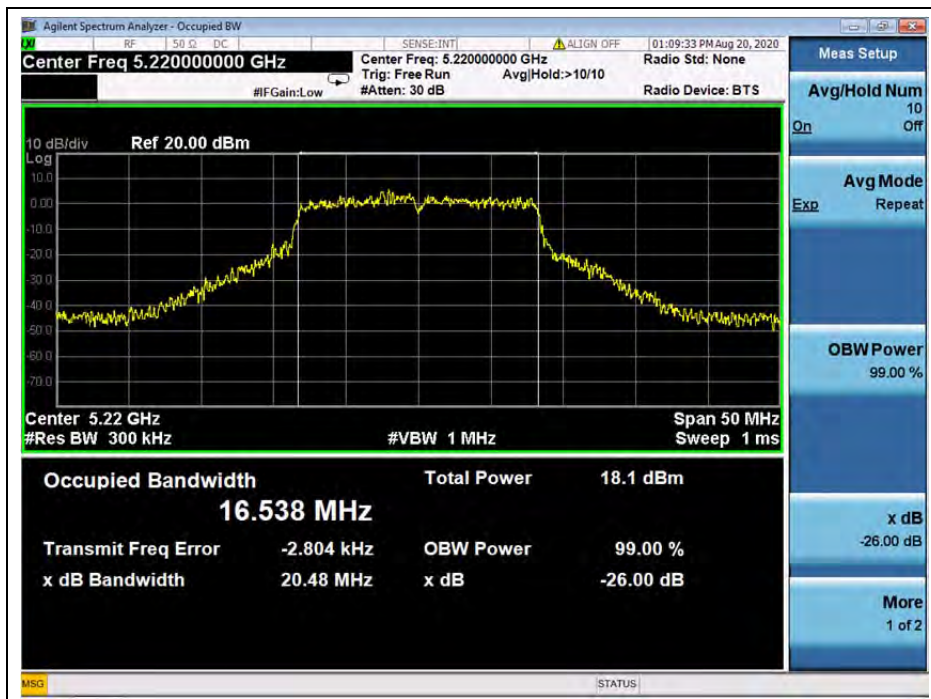
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
36	5180	22.81
44	5220	20.48
48	5240	20.76
52	5260	21.63
60	5300	21.08
64	5320	21.38
100	5500	22.16
120	5600	22.20
144	5720	22.43
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)
144	5720	16.33
149	5745	16.32
157	5785	15.66
165	5825	16.33



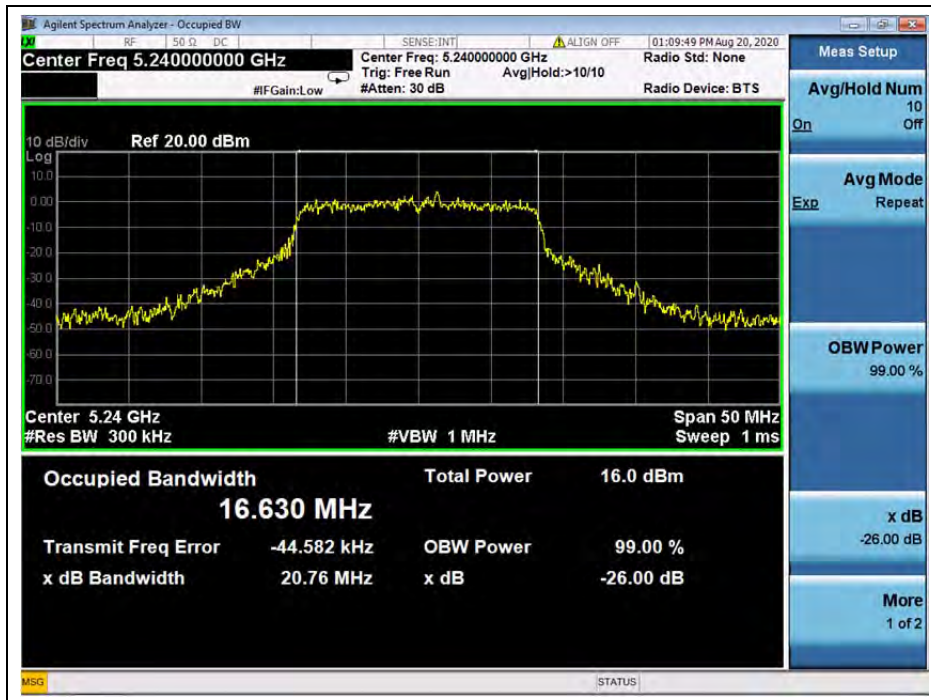
B.Test Plot:



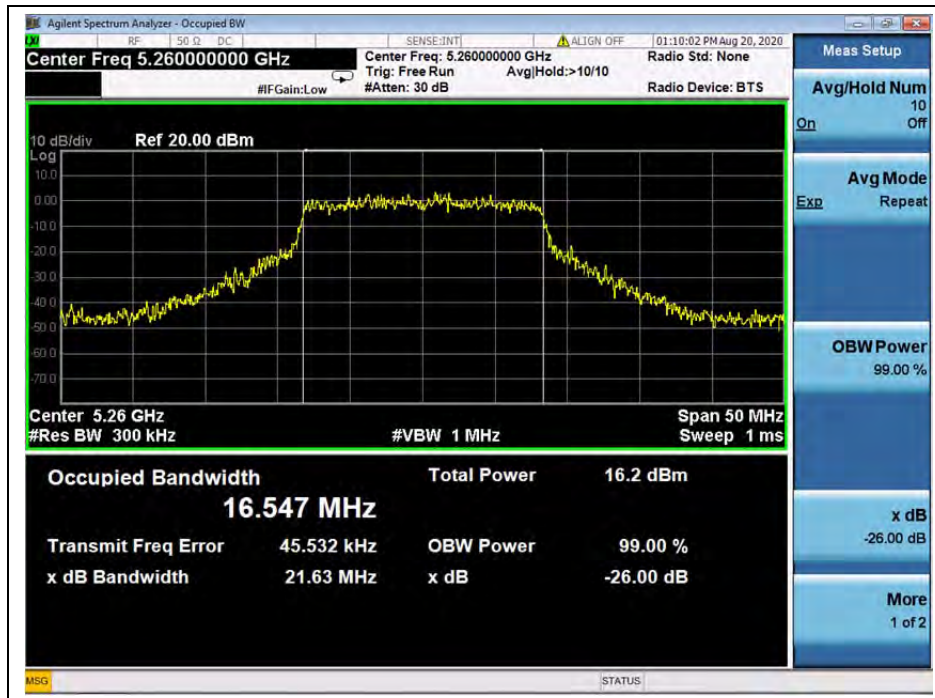
(Channel 36, 5180MHz, 802.11a)



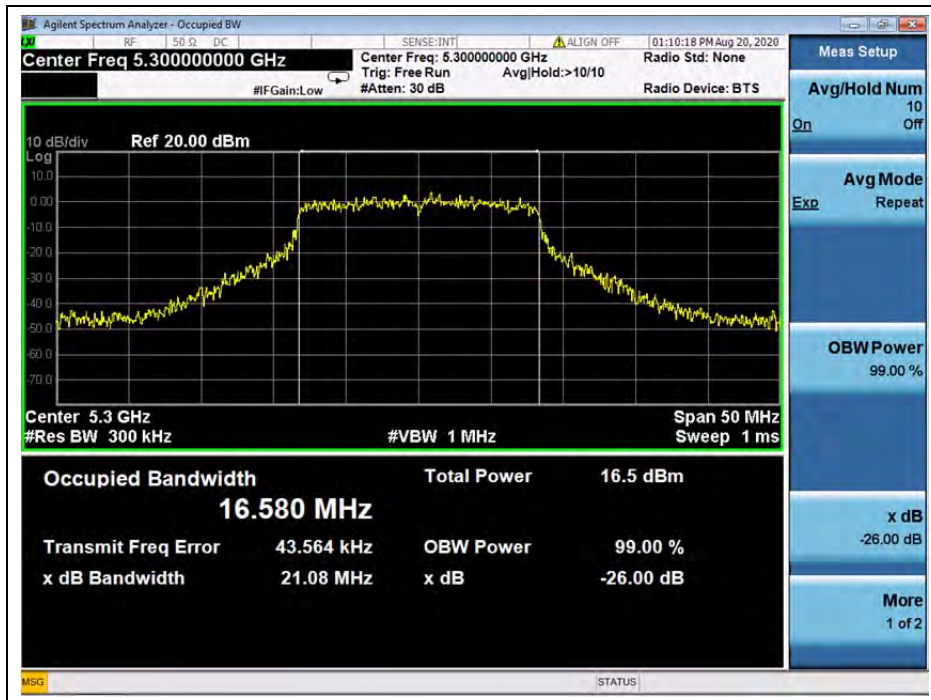
(Channel 44, 5220 MHz, 802.11a)



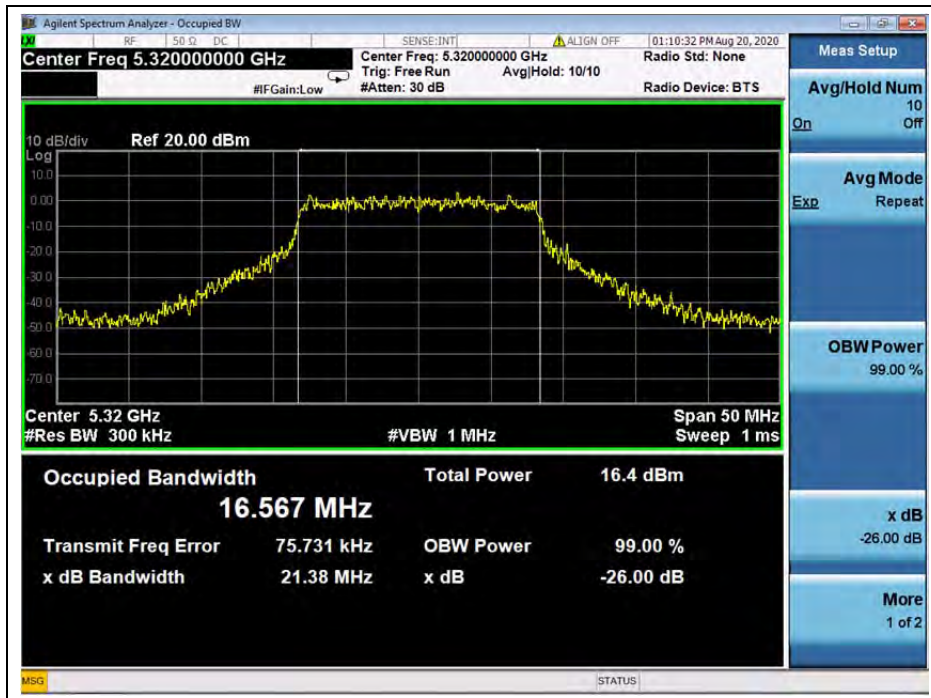
(Channel 48, 5240MHz, 802.11a)



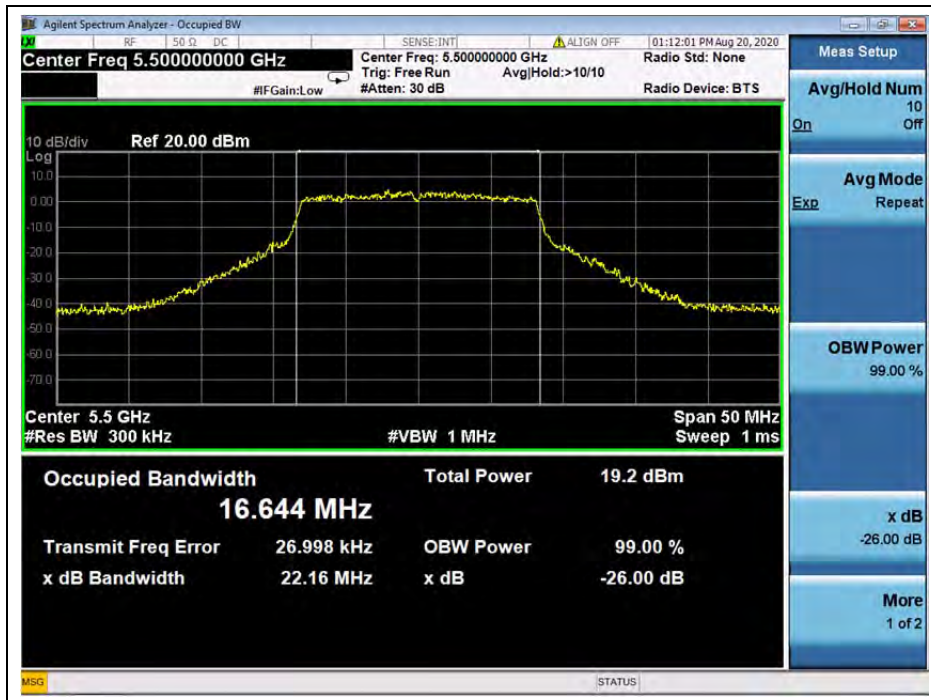
(Channel 52, 5260MHz, 802.11a)



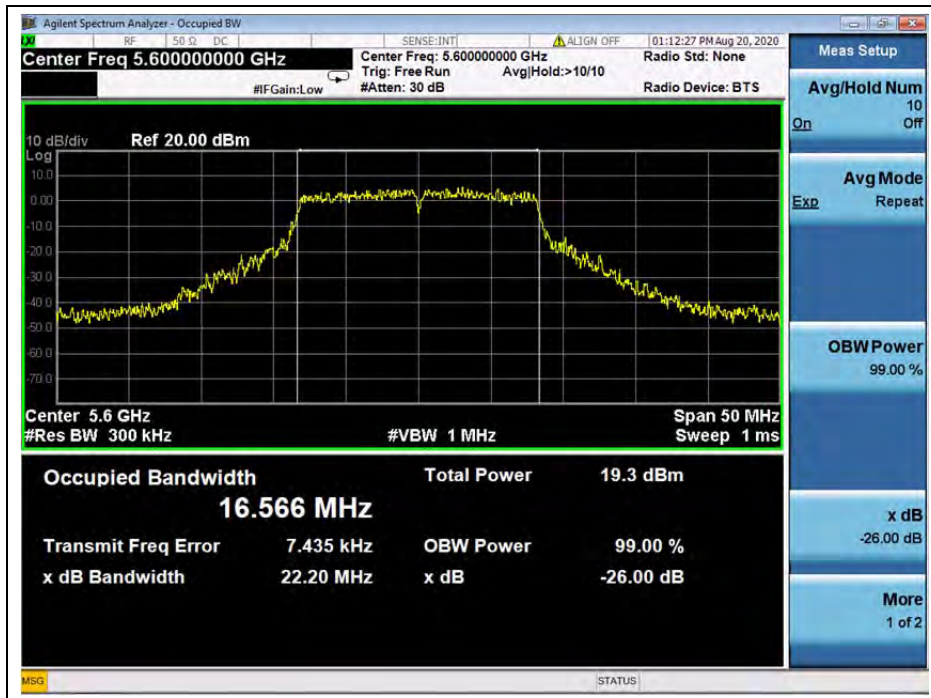
(Channel 60, 5300 MHz, 802.11a)



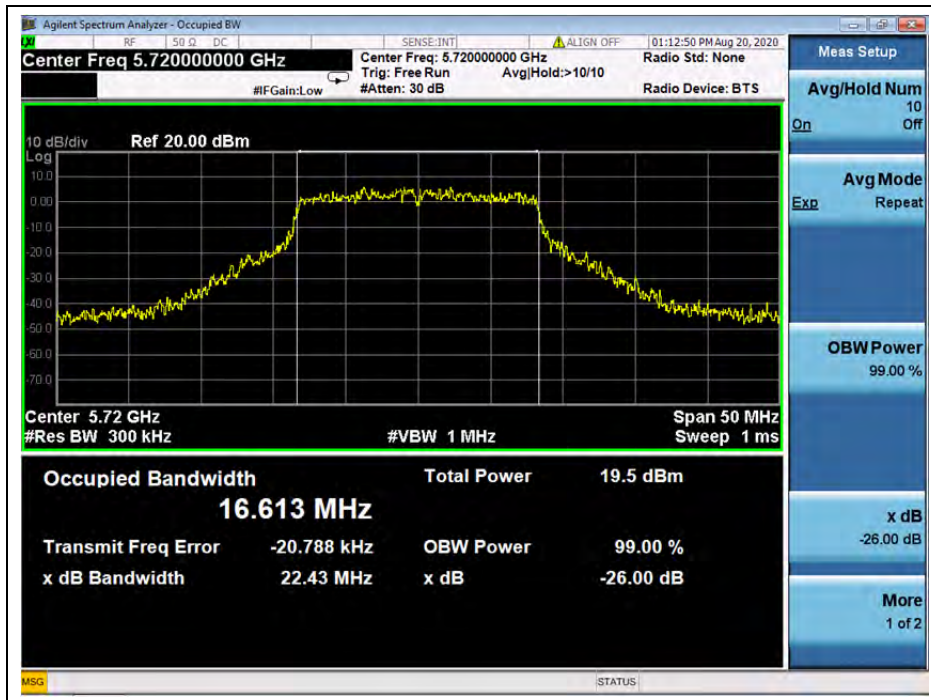
(Channel 64, 5320MHz, 802.11a)



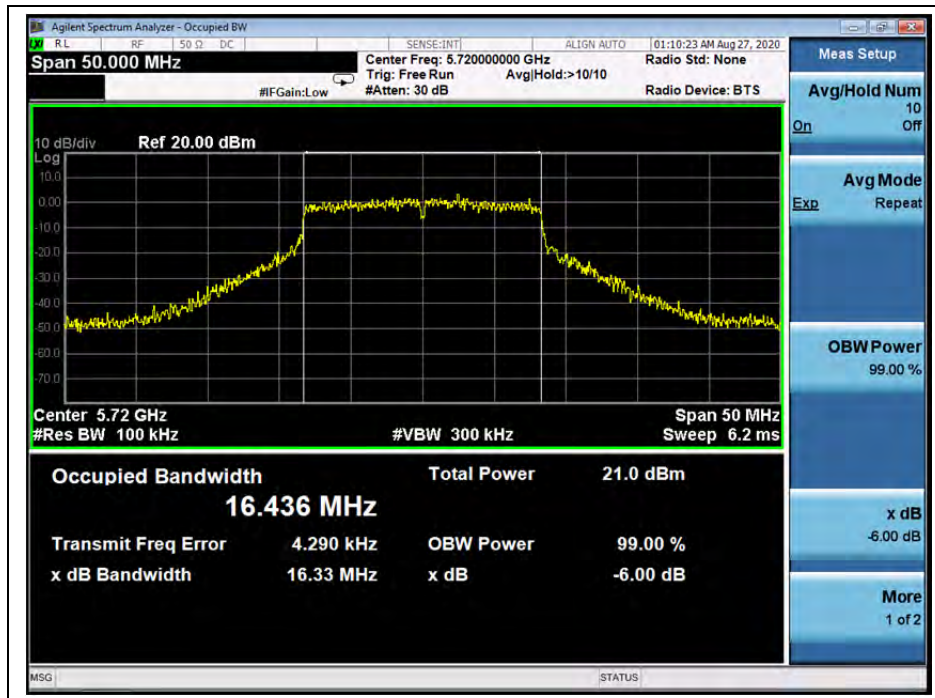
(Channel 100,5500MHz, 802.11a)



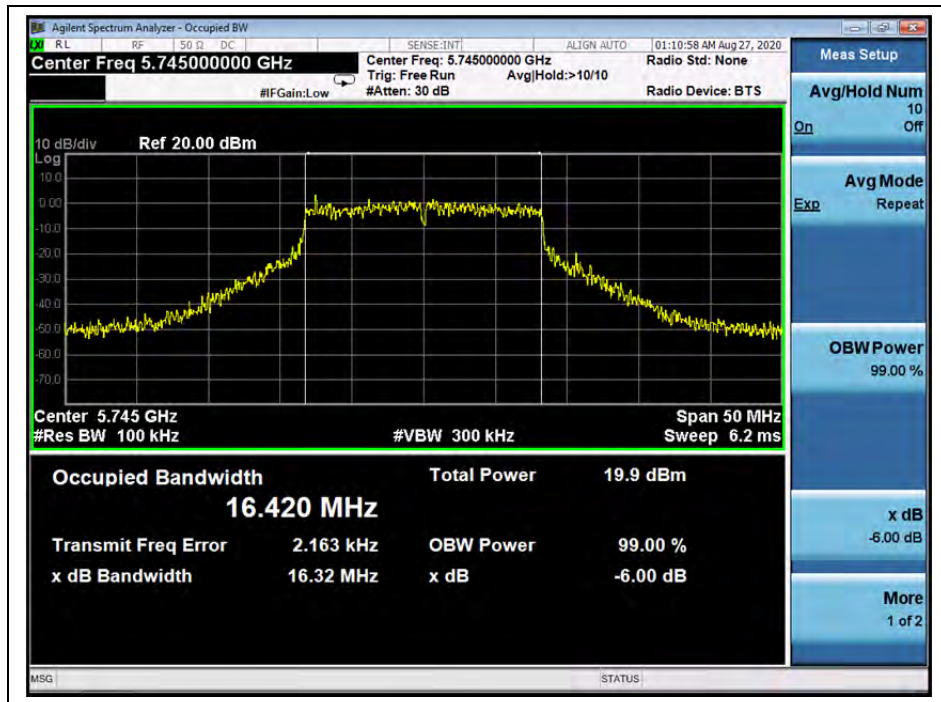
(Channel 120, 5600 MHz, 802.11a)



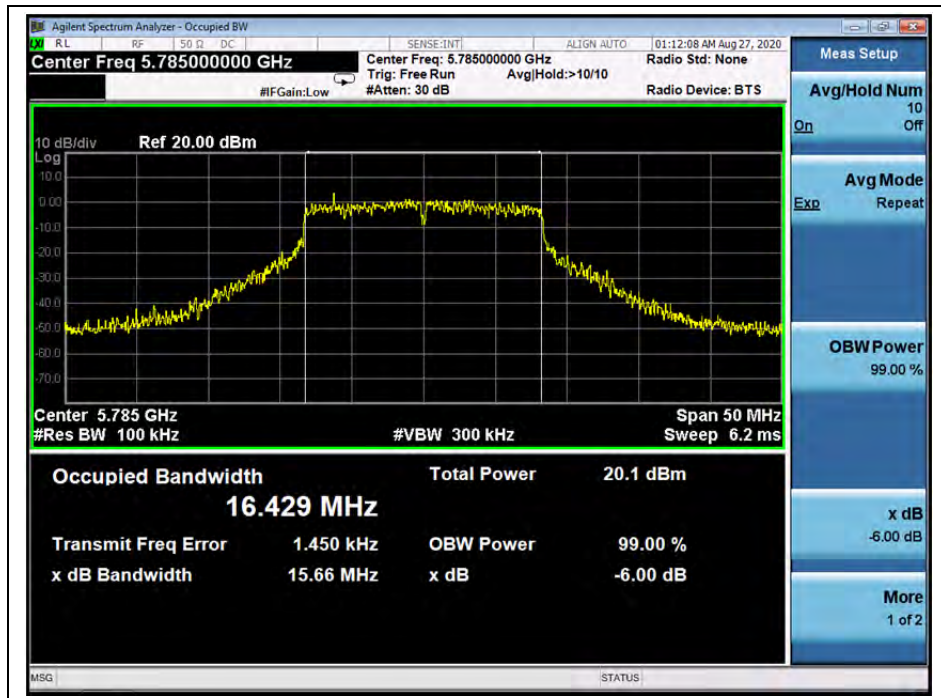
(Channel 144, 5720MHz, 802.11a)



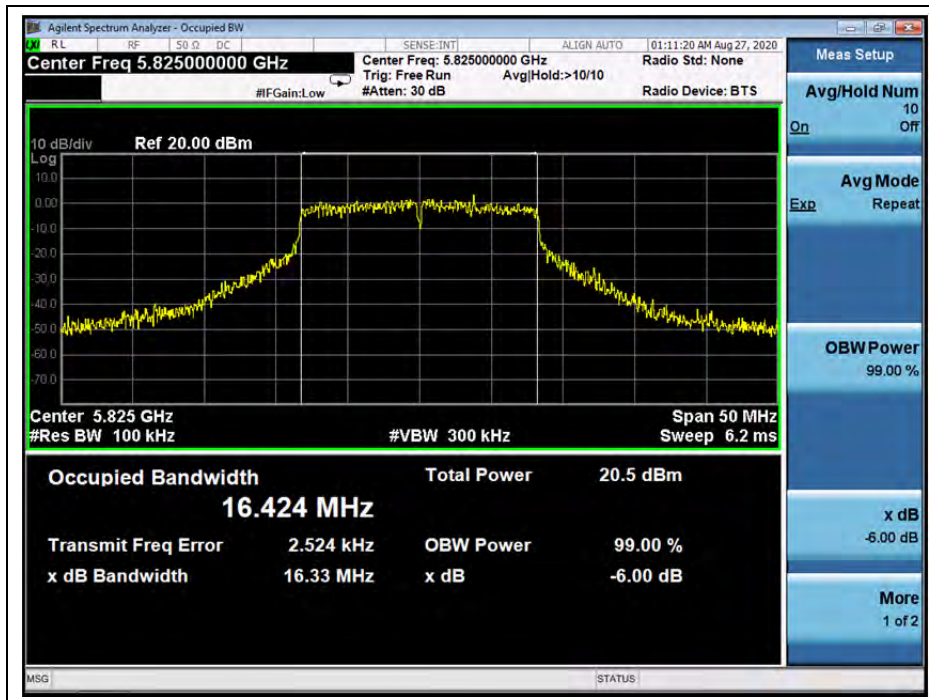
(Channel 144, 5720MHz, 802.11a)



(Channel 149,5745MHz, 802.11a)



(Channel 157,5785MHz, 802.11a)



(Channel 165, 5825MHz, 802.11a)

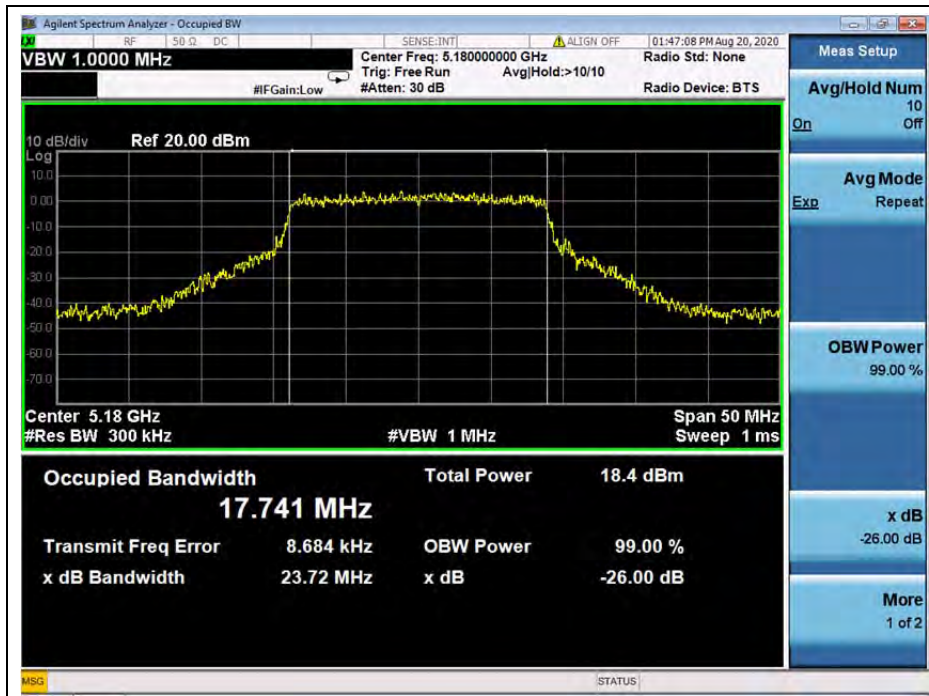


802.11n (HT20) Mode

A. Test Verdict:

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
36	5180	23.72
44	5220	21.73
48	5240	21.32
52	5260	21.79
60	5300	22.60
64	5320	21.33
100	5500	22.93
120	5600	21.67
144	5720	22.44
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)
144	5720	16.98
149	5745	17.30
157	5785	14.88
165	5825	17.64

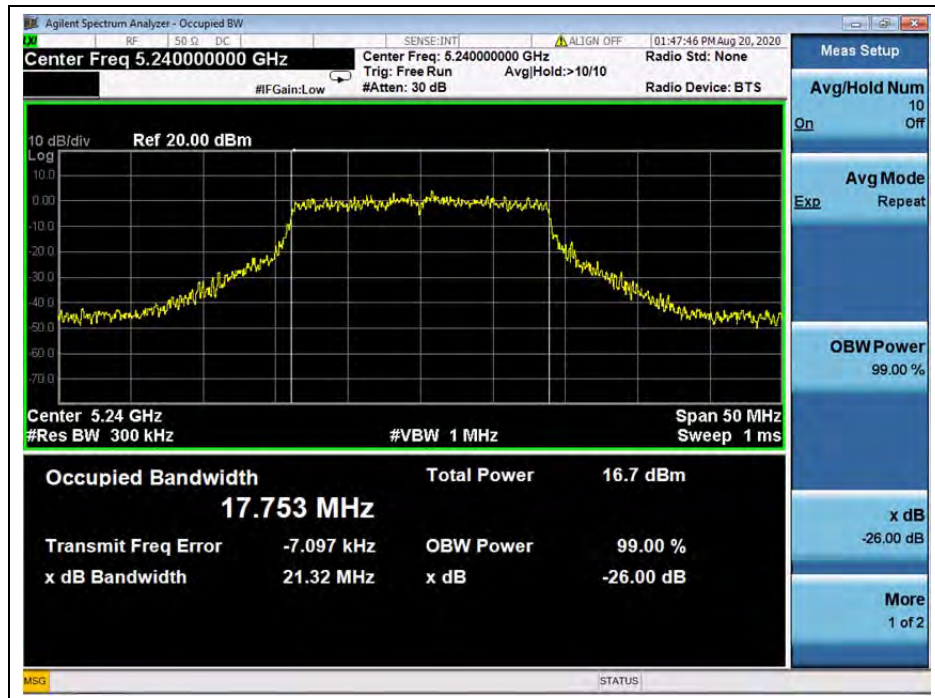
B. Test Plot:



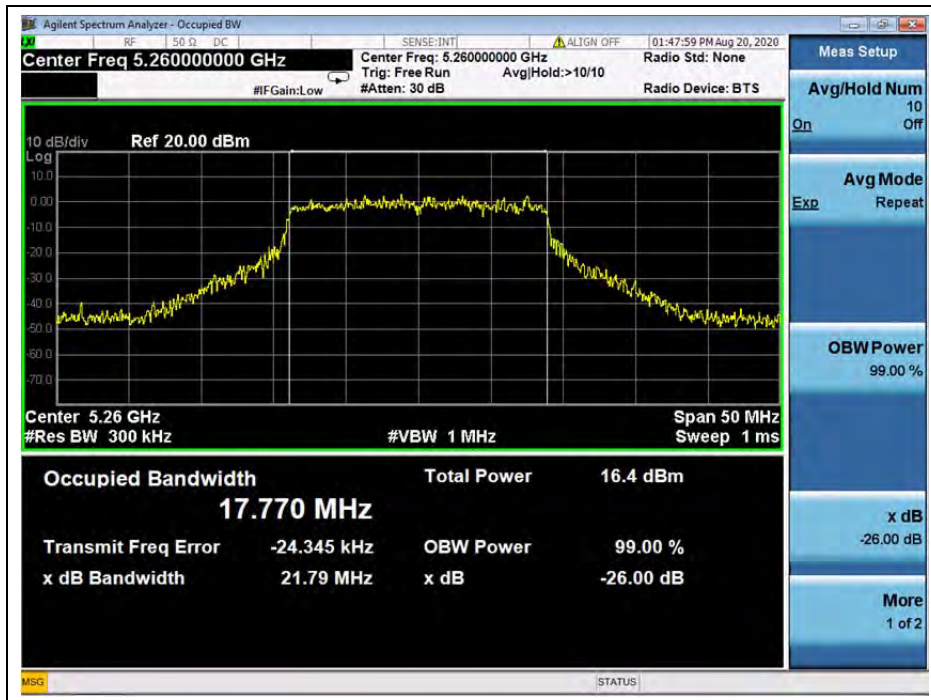
(Channel 36, 5180MHz, 802.11n (HT20))



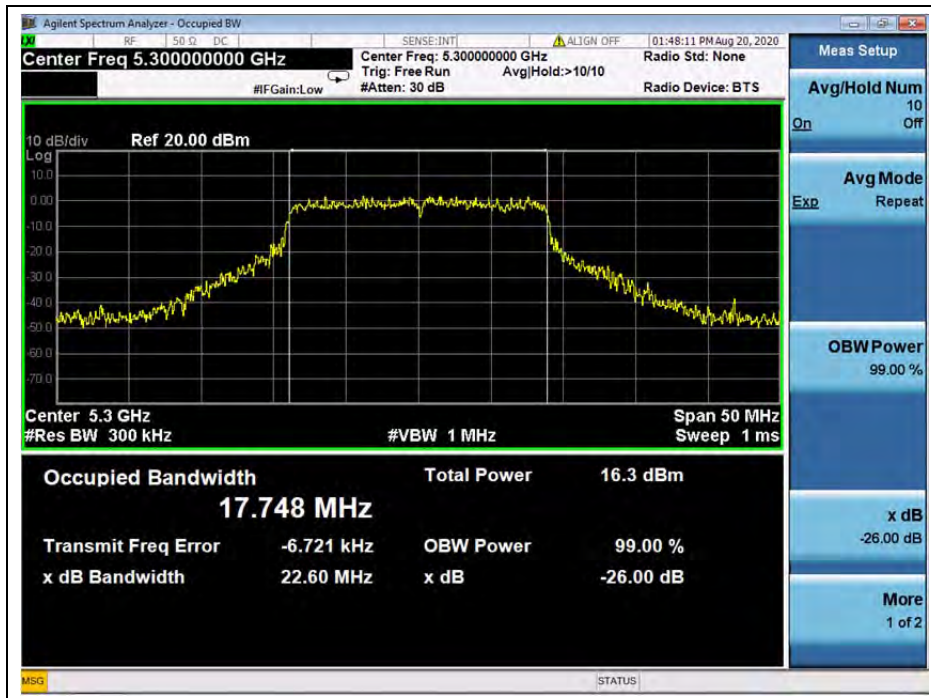
(Channel 44, 5220MHz, 802.11n (HT20))



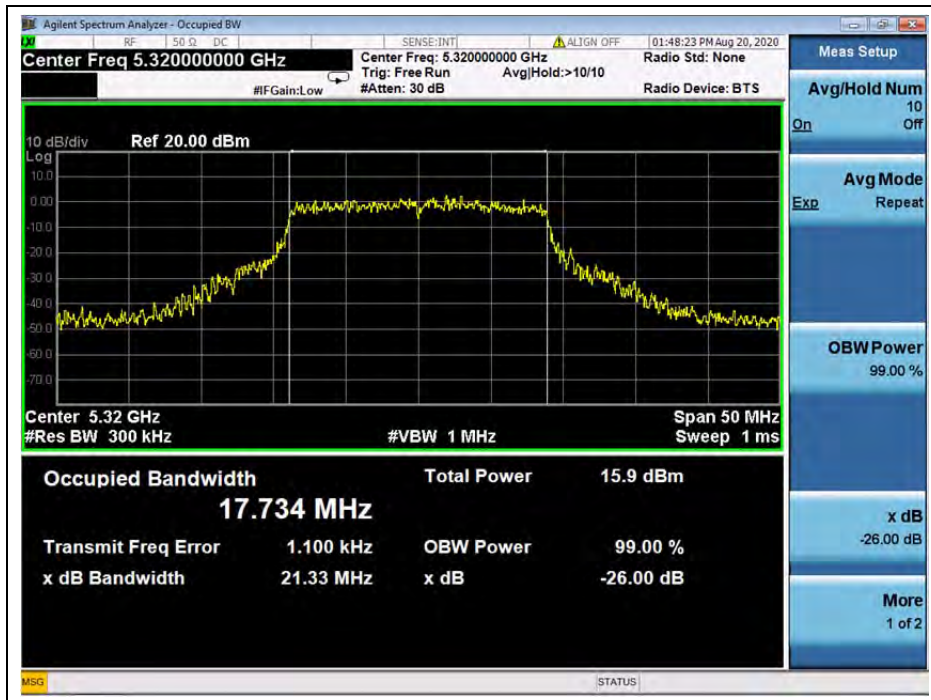
(Channel 48, 5240MHz, 802.11n (HT20))



(Channel 52, 5260MHz, 802.11n (HT20))



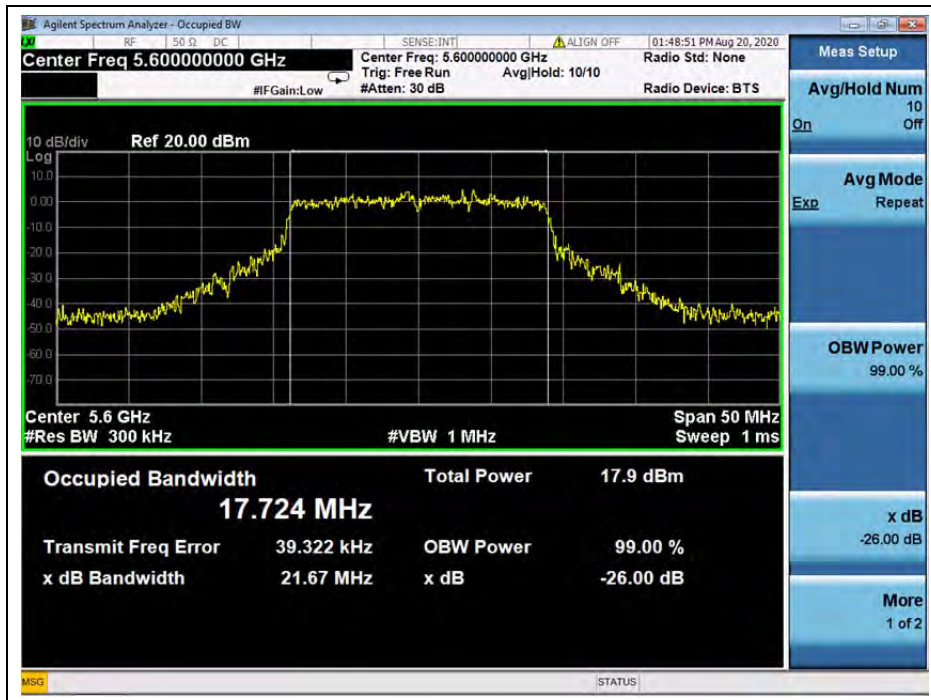
(Channel 60, 5300MHz, 802.11n (HT20))



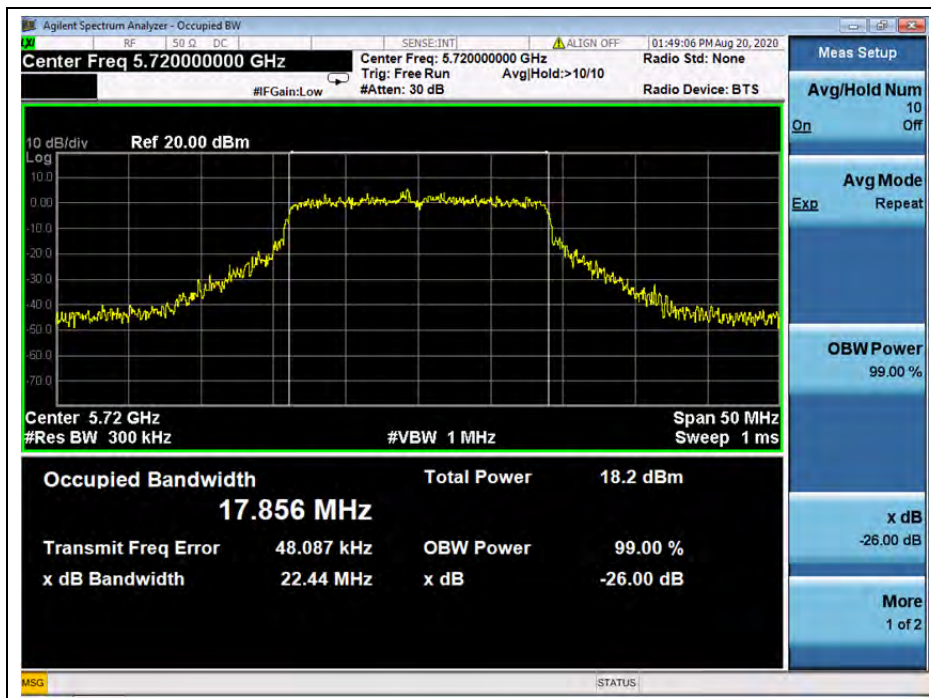
(Channel 64, 5320MHz, 802.11n (HT20))



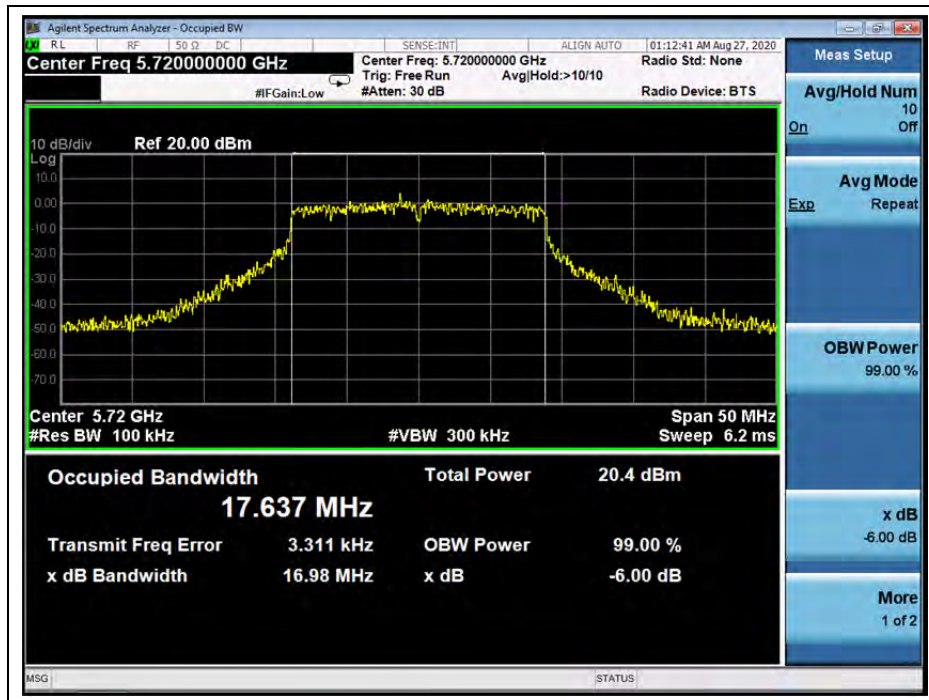
(Channel 100, 5500MHz, 802.11n (HT20))



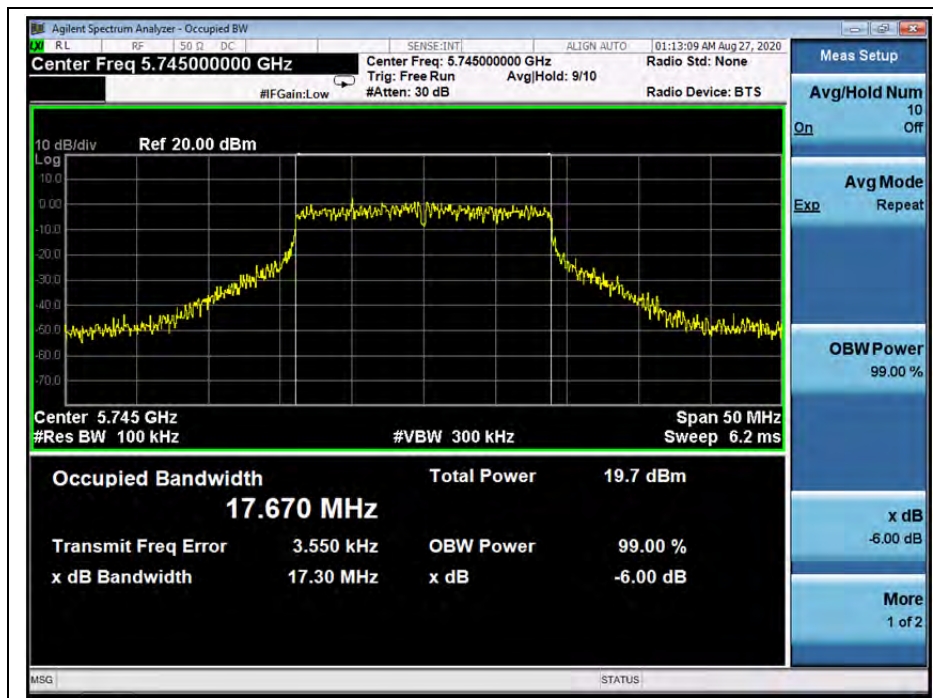
(Channel 120, 5600MHz, 802.11n (HT20))



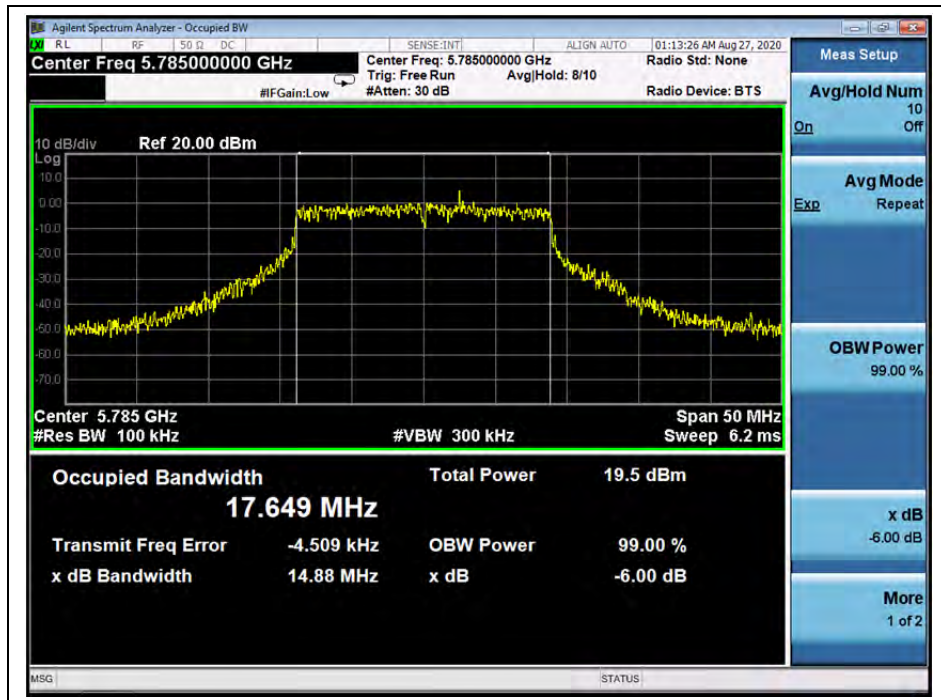
(Channel 144, 5720MHz, 802.11n (HT20))



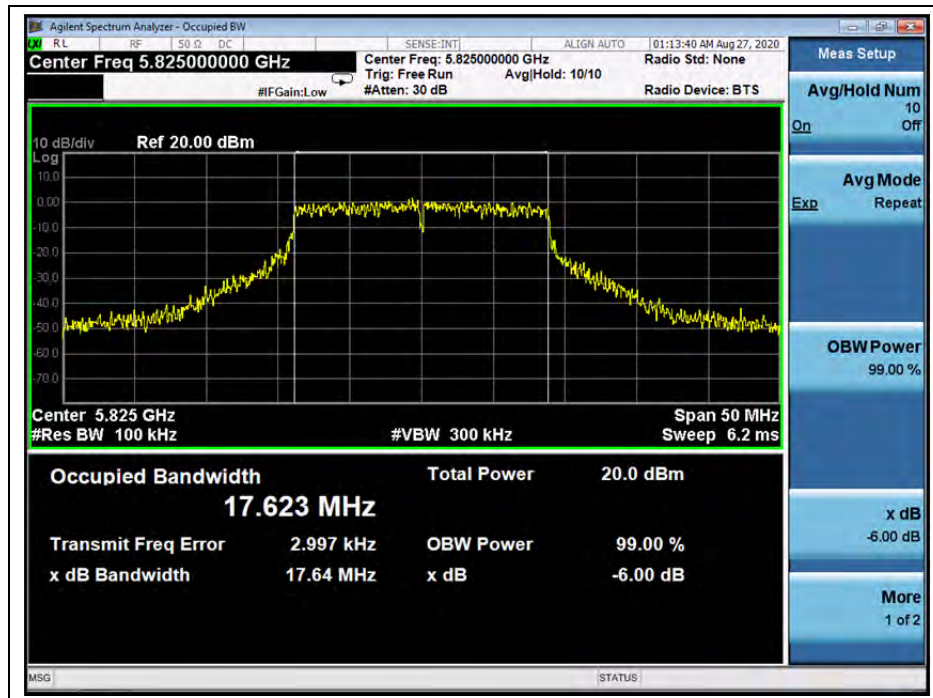
(Channel 144, 5720MHz, 802.11 n (HT20))



(Channel 149, 5745MHz, 802.11 n (HT20))



(Channel 157, 5785MHz, 802.11 n (HT20))



(Channel 165, 5825MHz, 802.11 n (HT20))

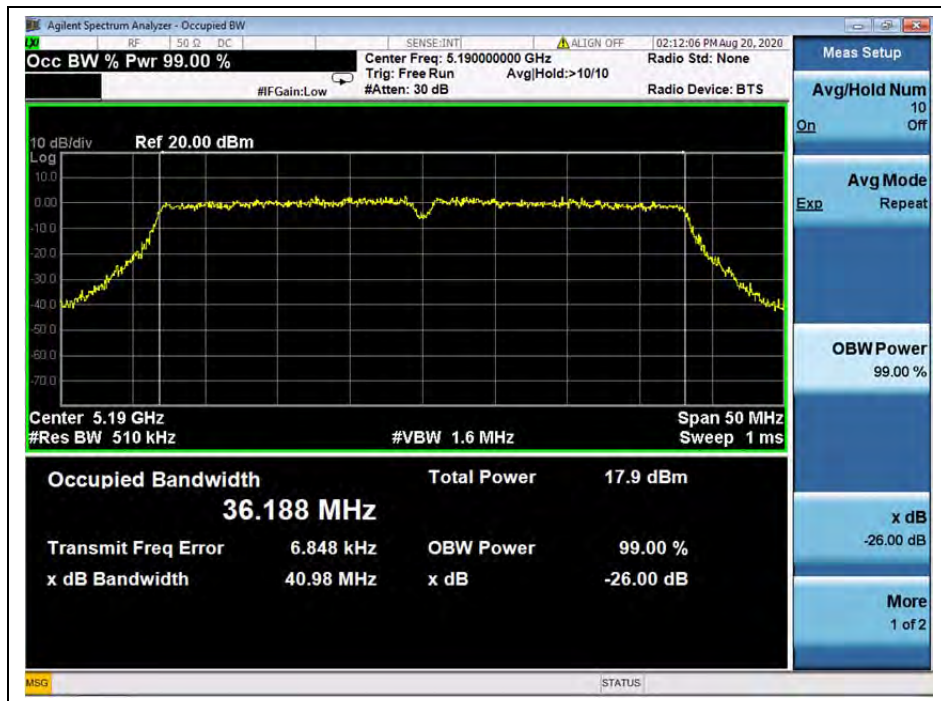


802.11n (HT40) Test mode

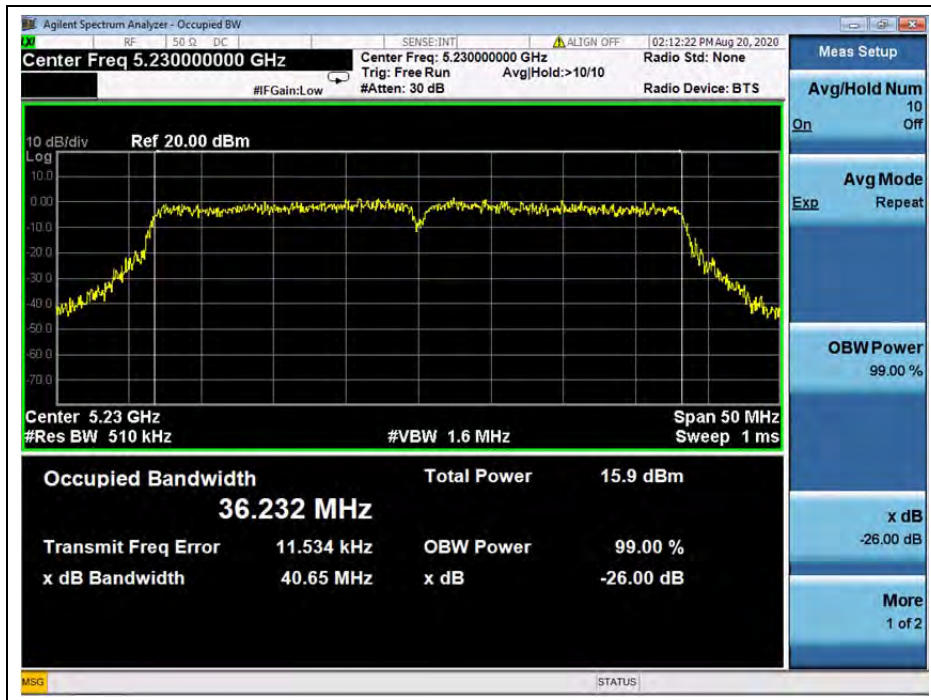
A. Test Verdict:

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
38	5190	40.98
46	5230	40.65
54	5270	40.81
62	5310	40.78
102	5510	40.34
126	5630	40.78
142	5710	41.03
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)
142	5710	36.35
151	5755	35.33
159	5795	36.35

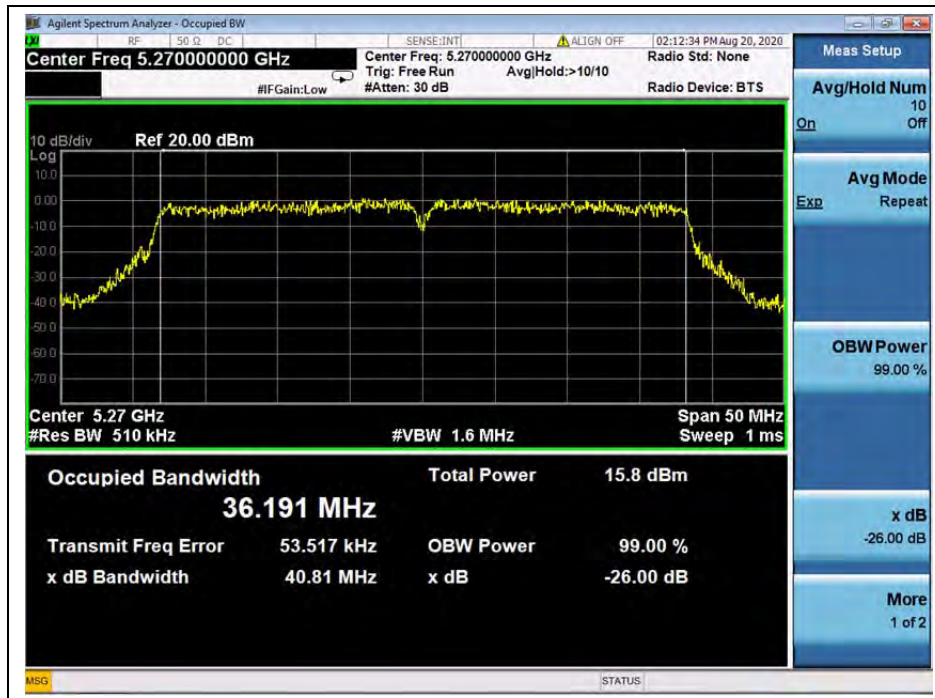
B. Test Plot:



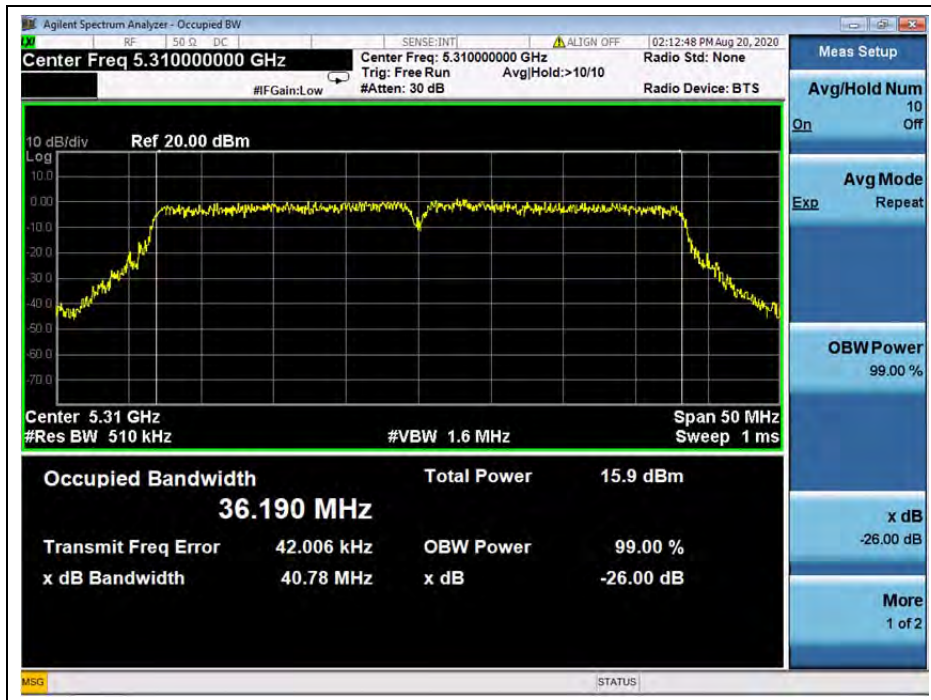
(Channel 38, 5190MHz, 802.11n (HT40))



(Channel 46, 5230MHz, 802.11n (HT40))



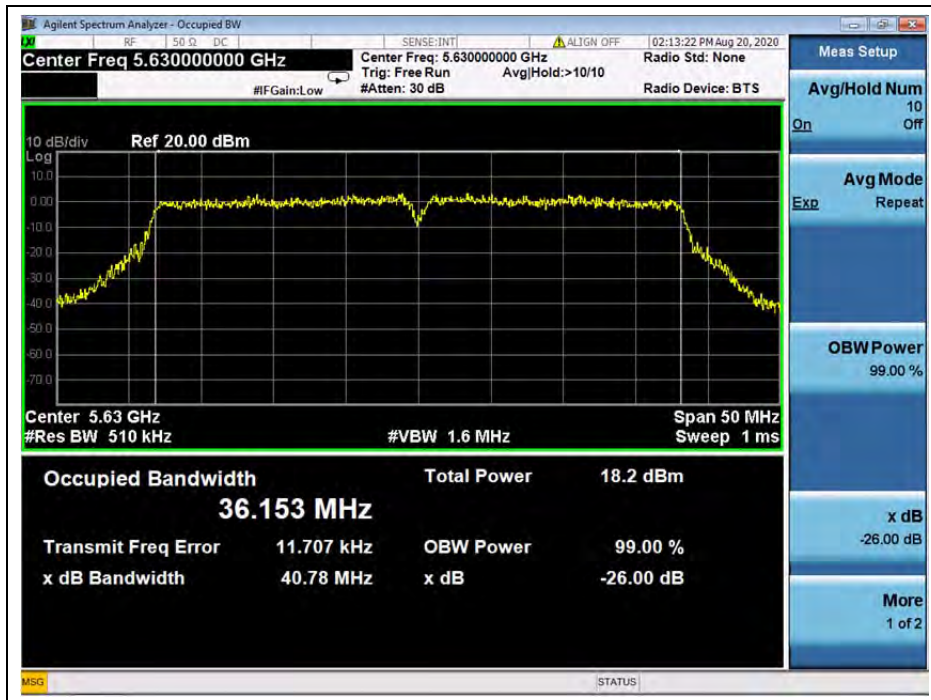
(Channel 54, 5270MHz, 802.11n (HT40))



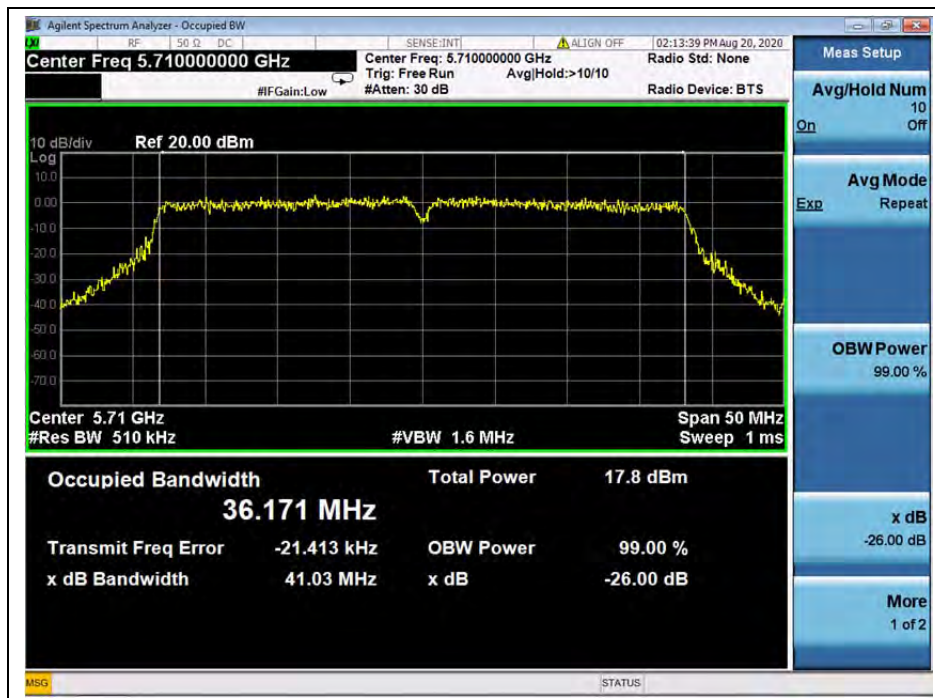
(Channel 62, 5310MHz, 802.11n (HT40))



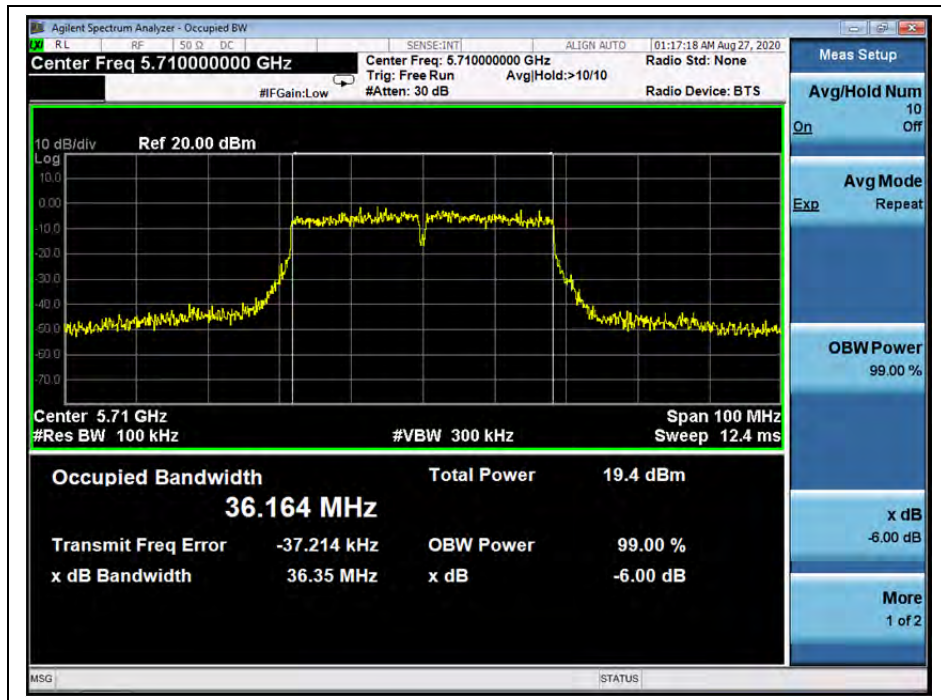
(Channel 102, 5510MHz, 802.11n (HT40))



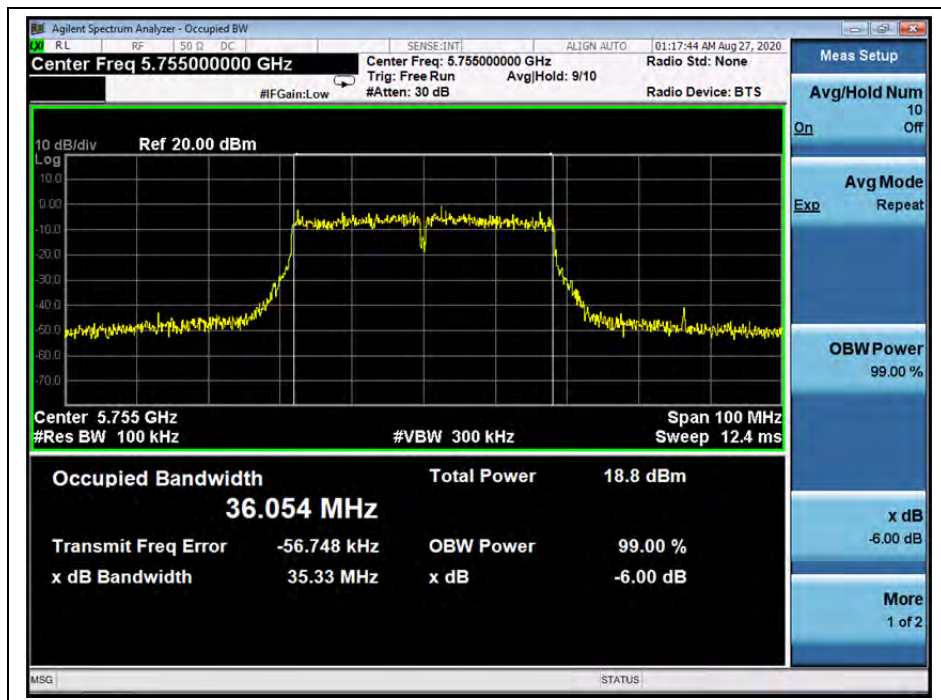
(Channel 126, 5630MHz, 802.11n (HT40))



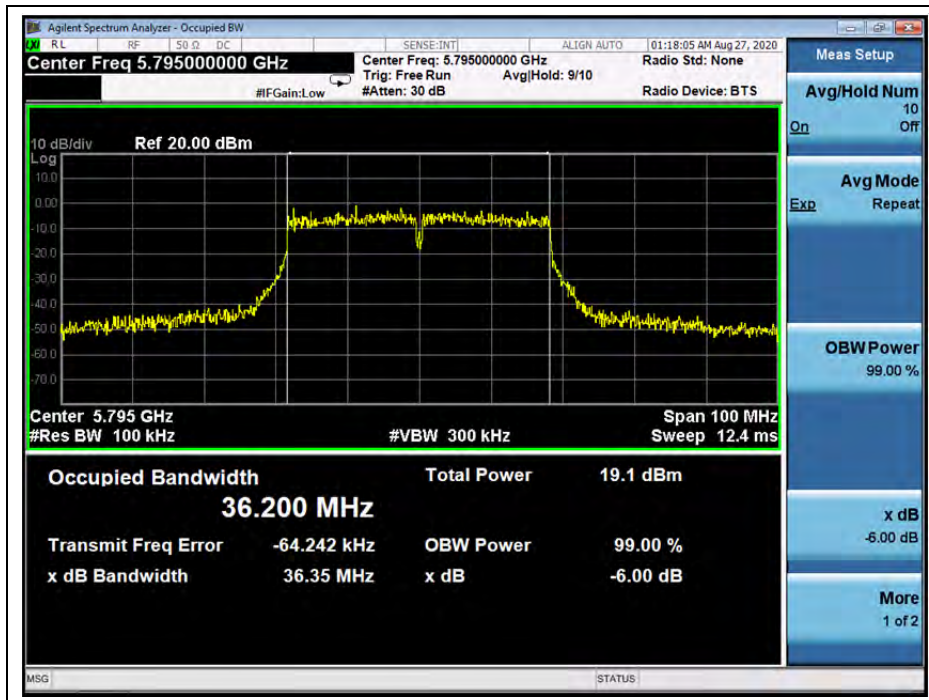
(Channel 142, 5710MHz, 802.11n (HT40))



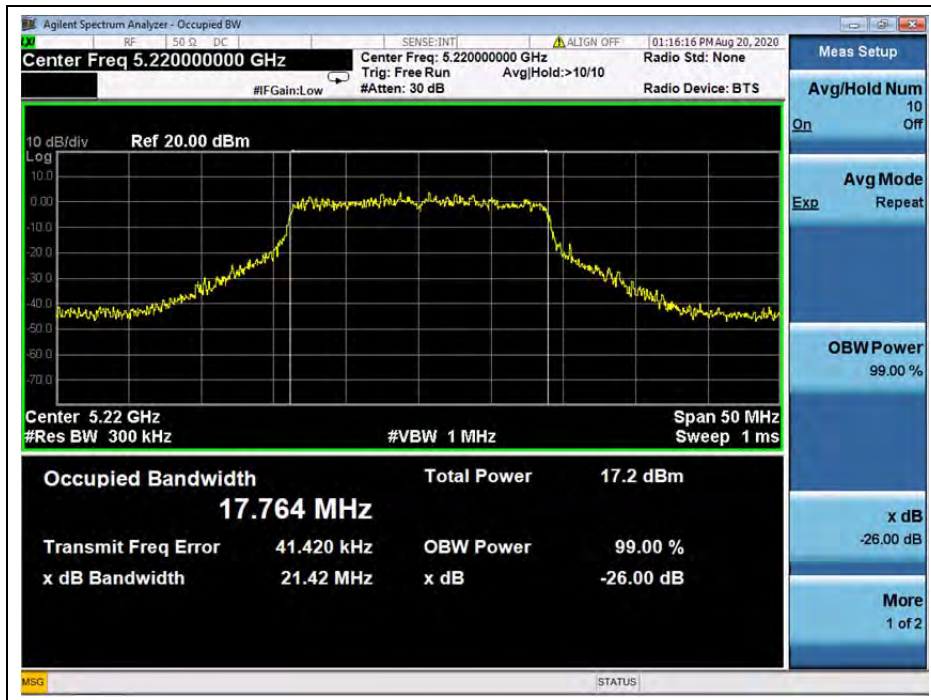
(Channel 142, 5710MHz, 802.11n (HT40))



(Channel 151, 5755MHz, 802.11n (HT40))



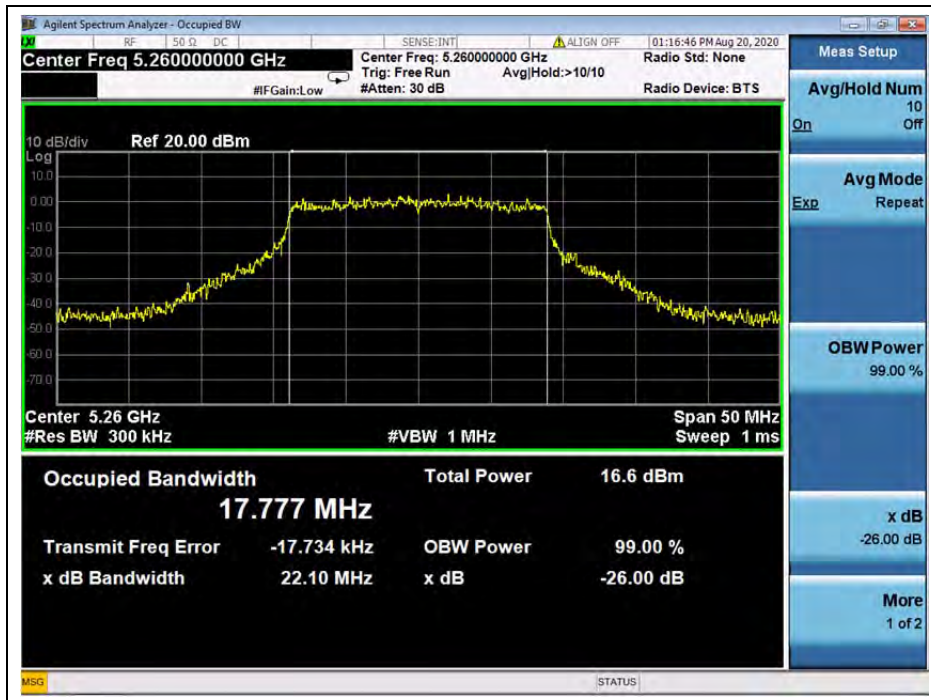
(Channel 159, 5795MHz, 802.11n (HT40))



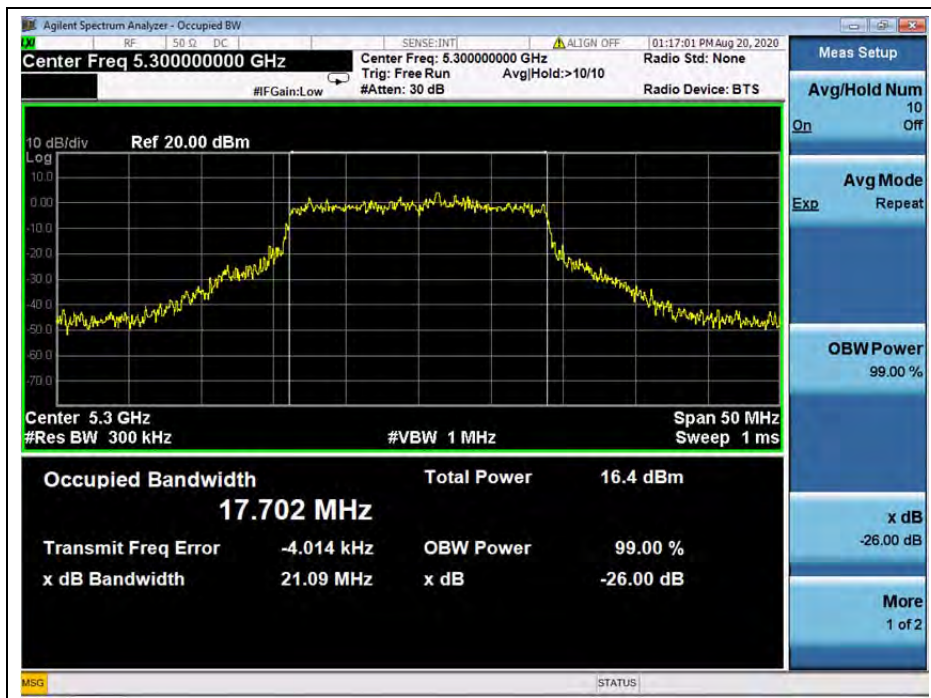
(Channel 44, 5220MHz, 802.11ac (VHT20))



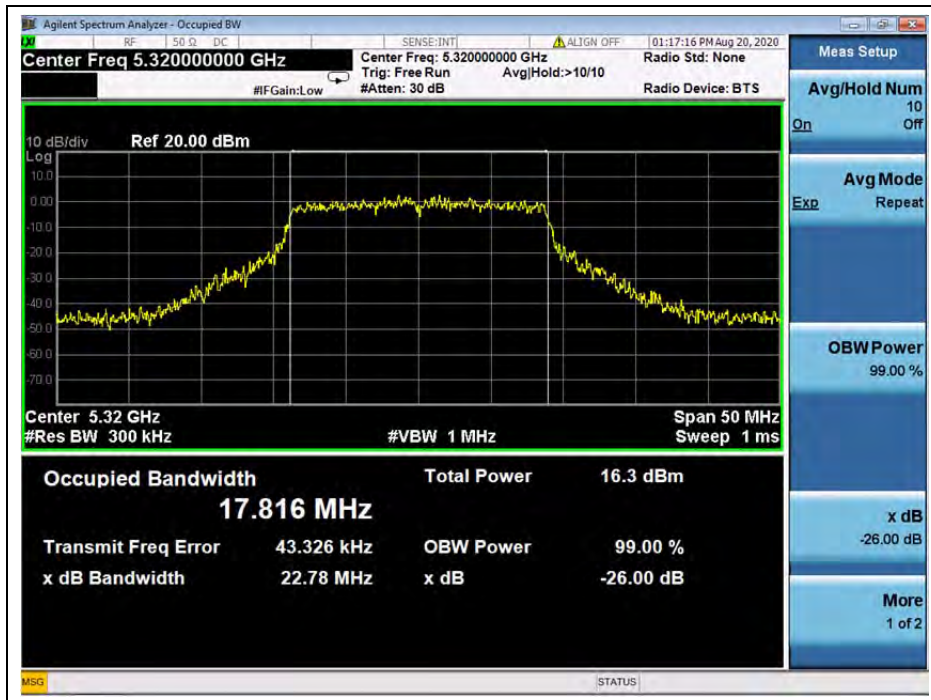
(Channel 48, 5240MHz, 802.11ac (VHT20))



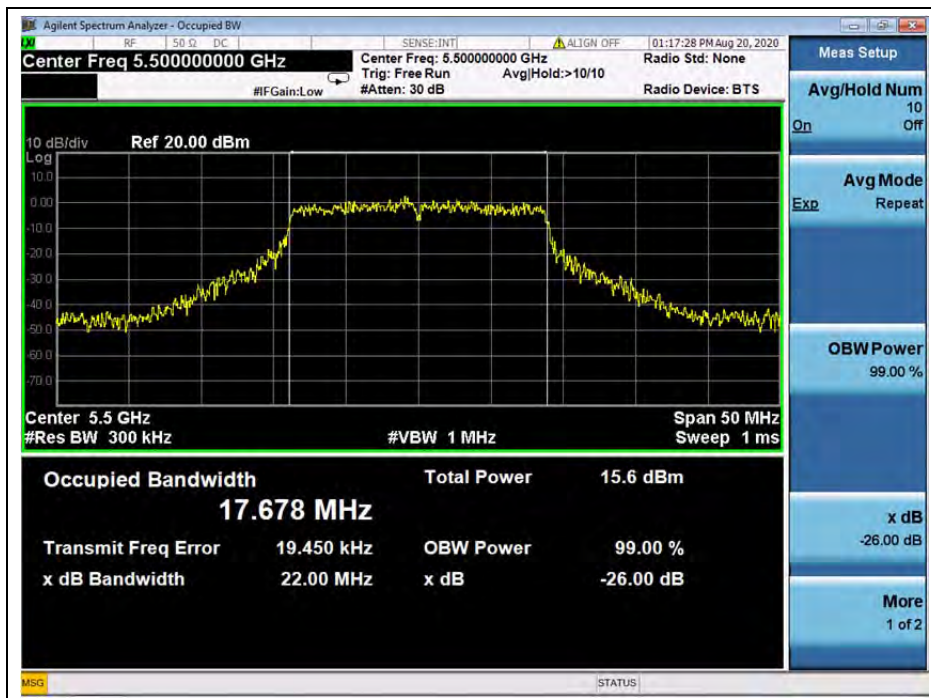
(Channel 52, 5260MHz, 802.11ac (VHT20))



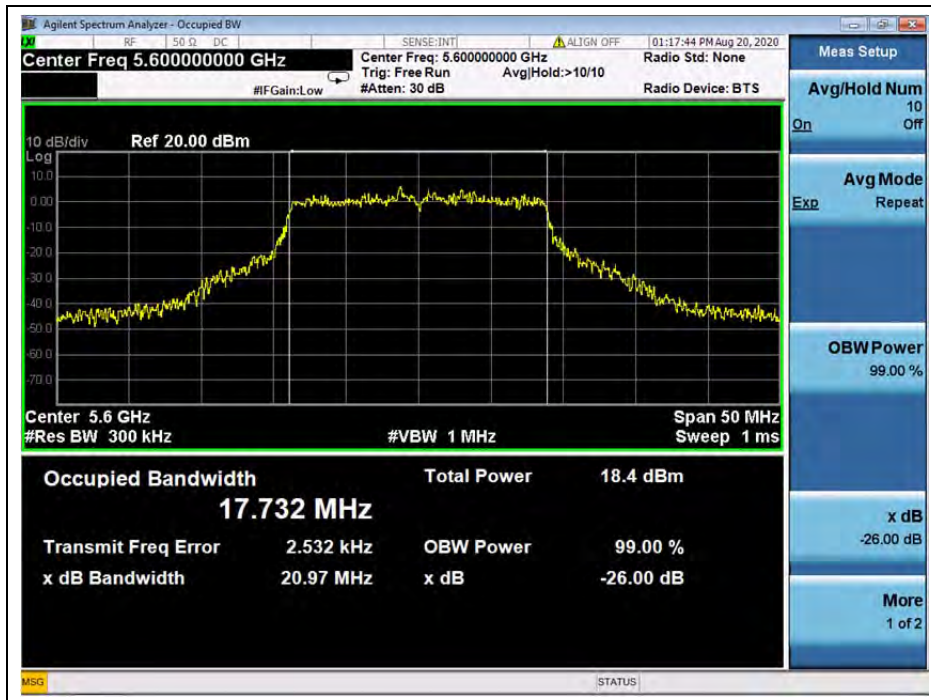
(Channel 60, 5300MHz, 802.11ac (VHT20))



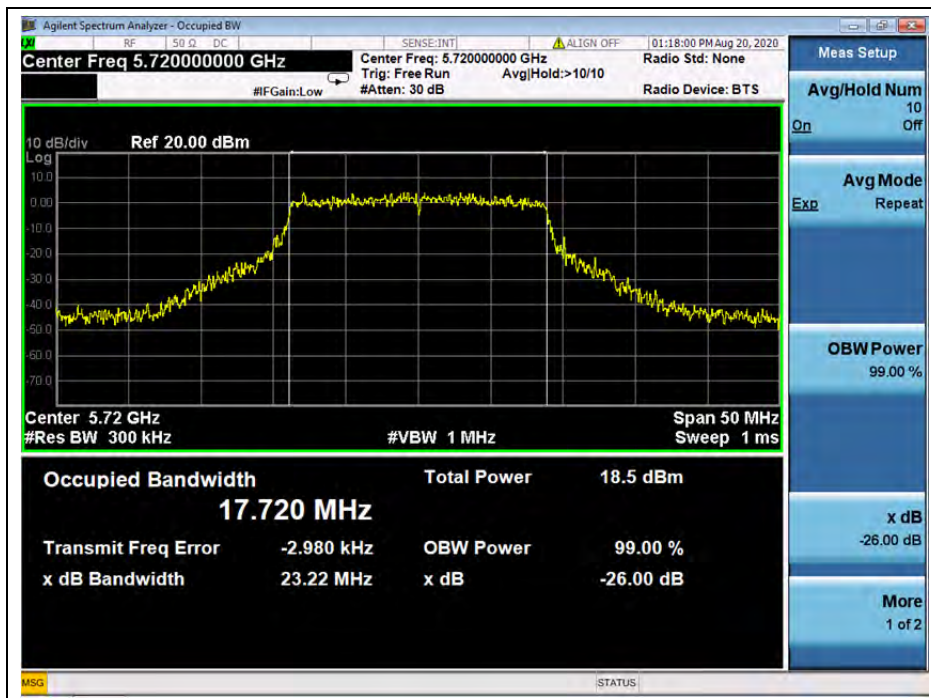
(Channel 64, 5320MHz, 802.11ac (VHT20))



(Channel 100, 5500MHz, 802.11ac (VHT20))



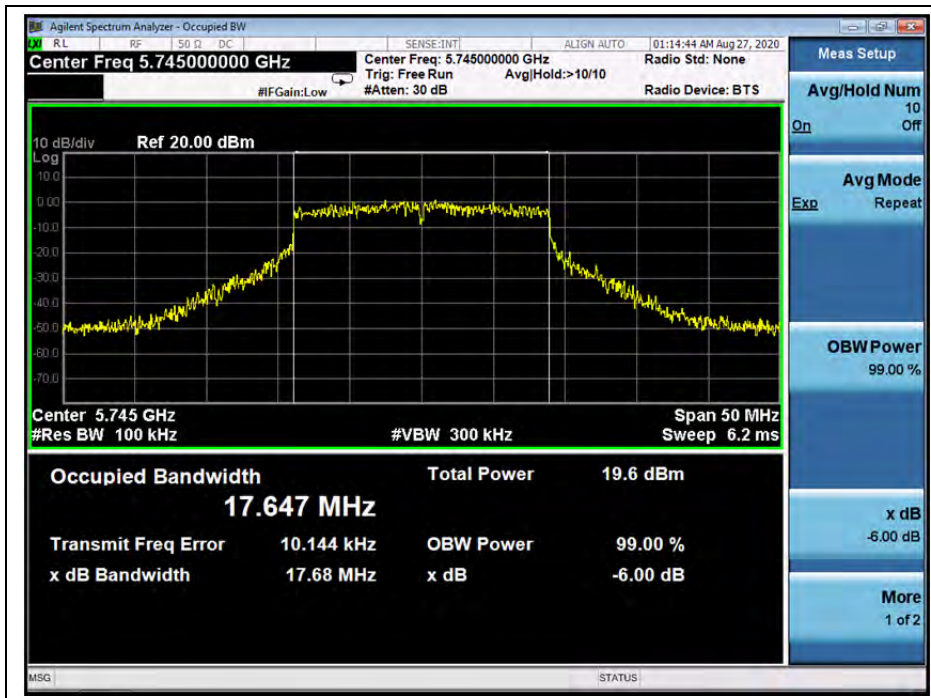
(Channel 120, 5600MHz, 802.11ac (VHT20))



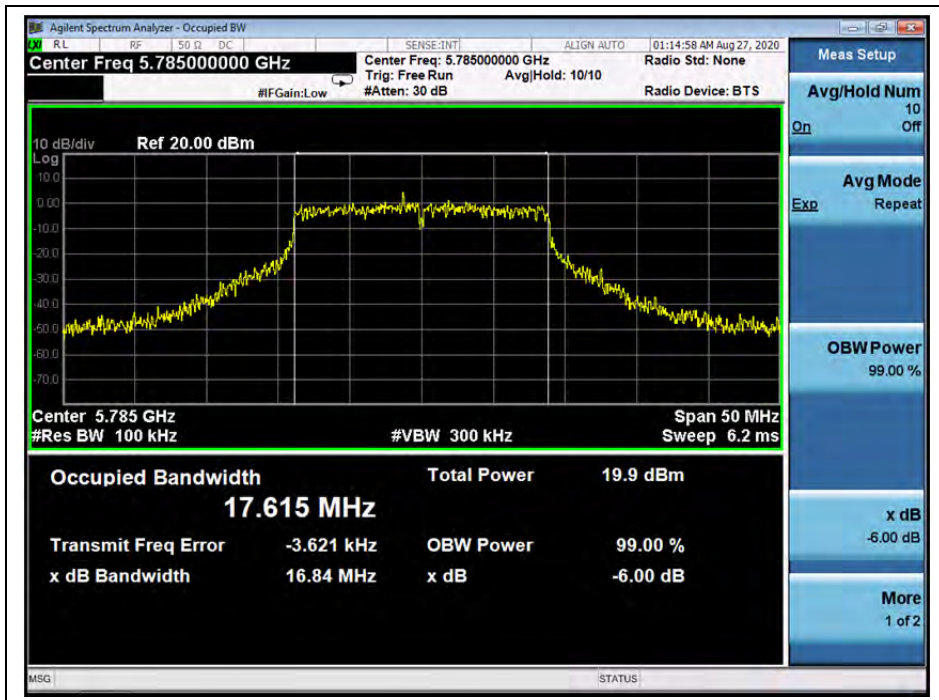
(Channel 144, 5720MHz, 802.11ac (VHT20))



(Channel 144, 5720MHz, 802.11ac (VHT20))



(Channel 149, 5745MHz, 802.11 ac (VHT20))



(Channel 157, 5785MHz, 802.11 ac (VHT20))



(Channel 165, 5825MHz, 802.11 ac (VHT20))

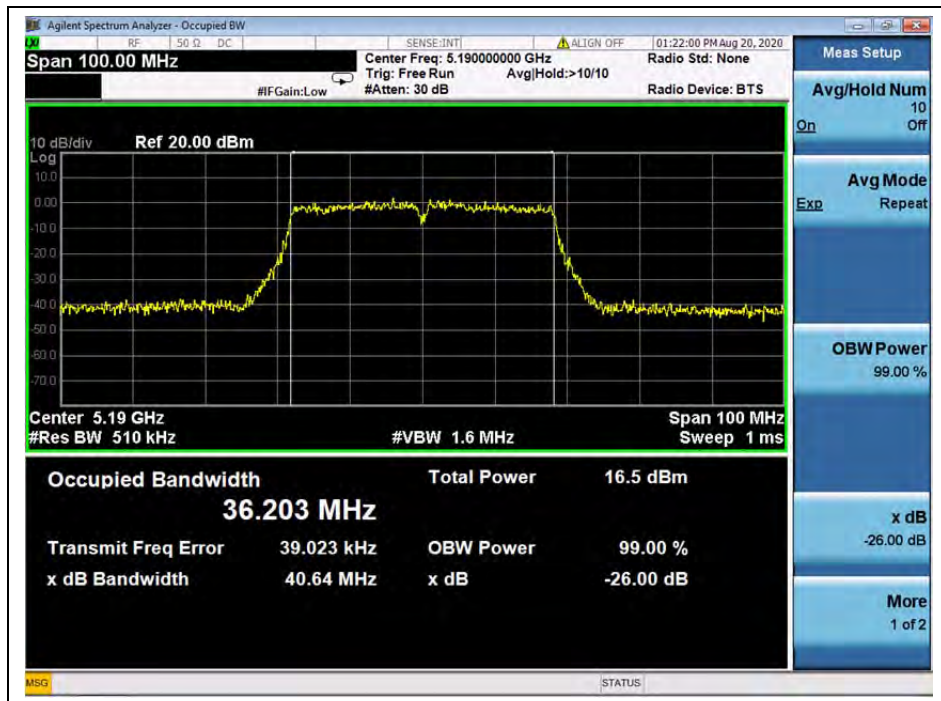


802.11ac (VHT40) Mode

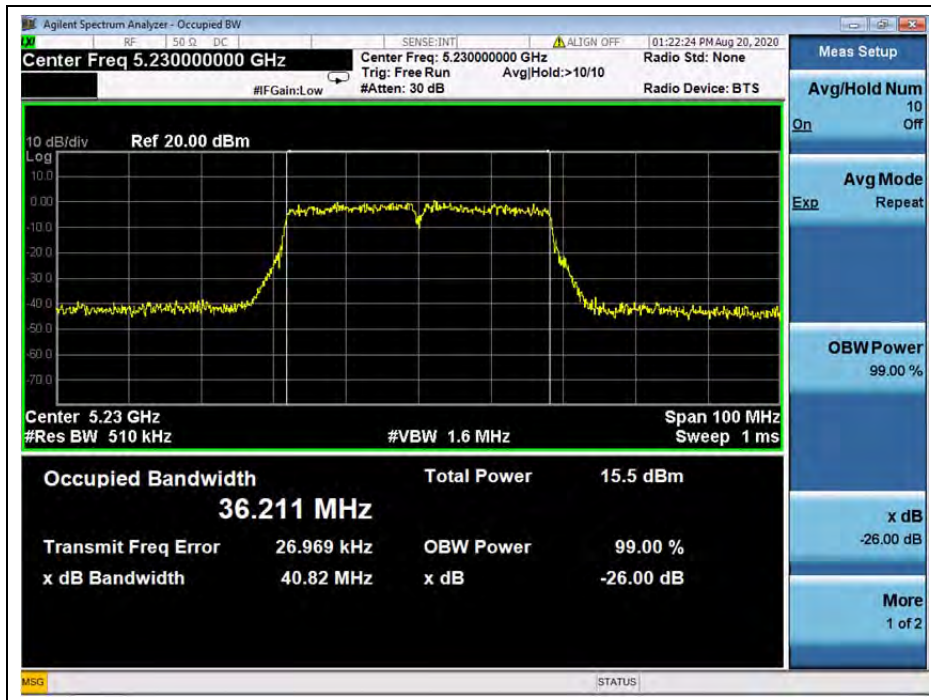
A. Test Verdict:

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
38	5190	40.64
46	5230	40.82
354	5270	40.44
62	5310	41.27
102	5510	40.76
126	5630	40.50
142	5710	40.53
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)
142	5710	36.33
151	5755	36.36
159	5795	36.43

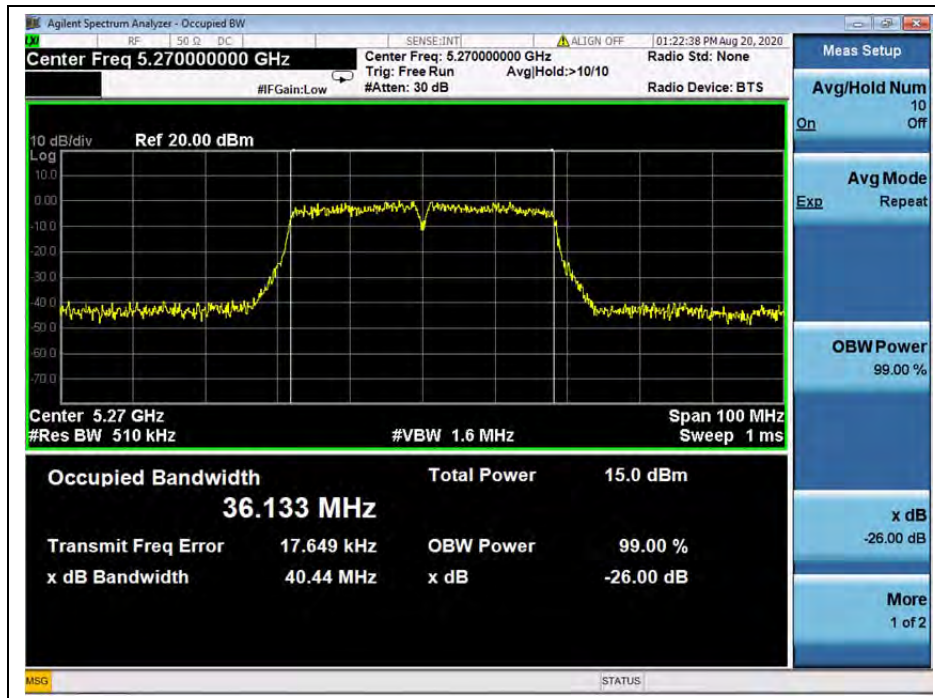
B. Test Plot:



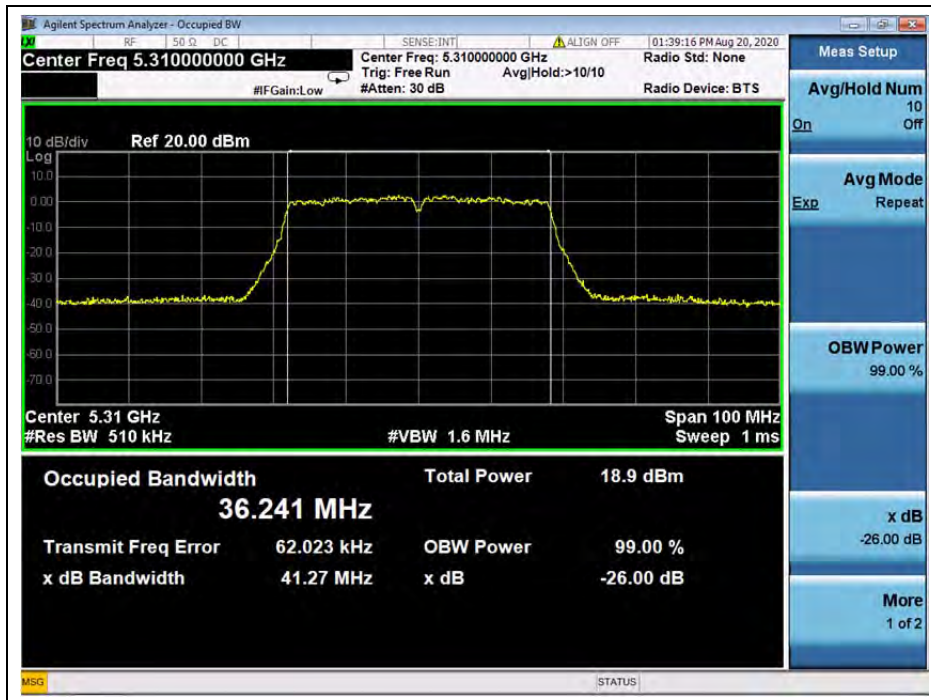
(Channel 38, 5190MHz, 802.11ac (VHT40))



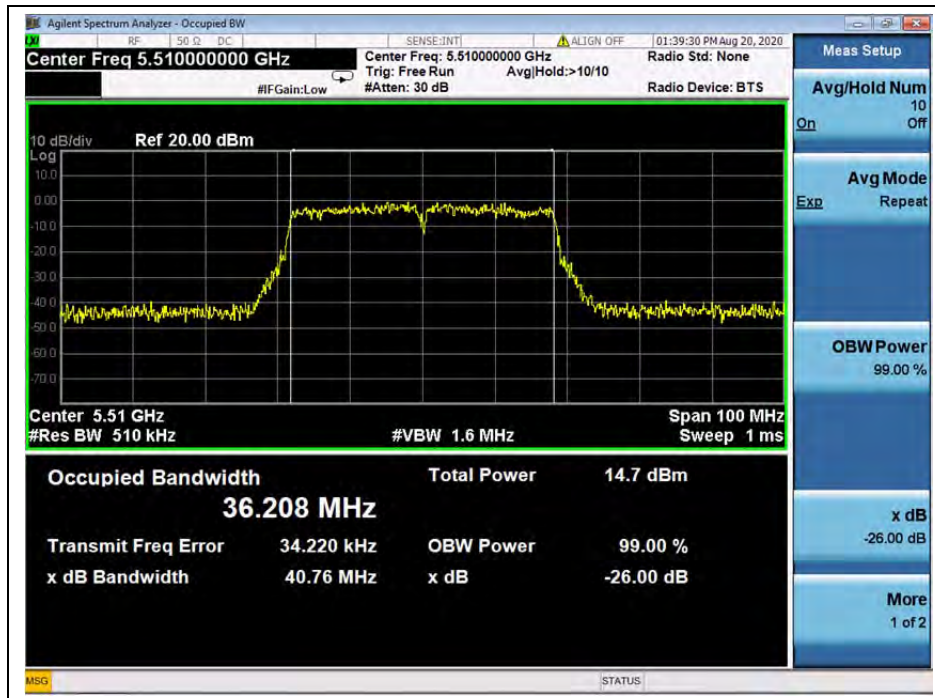
(Channel 46, 5230MHz, 802.11ac (VHT40))



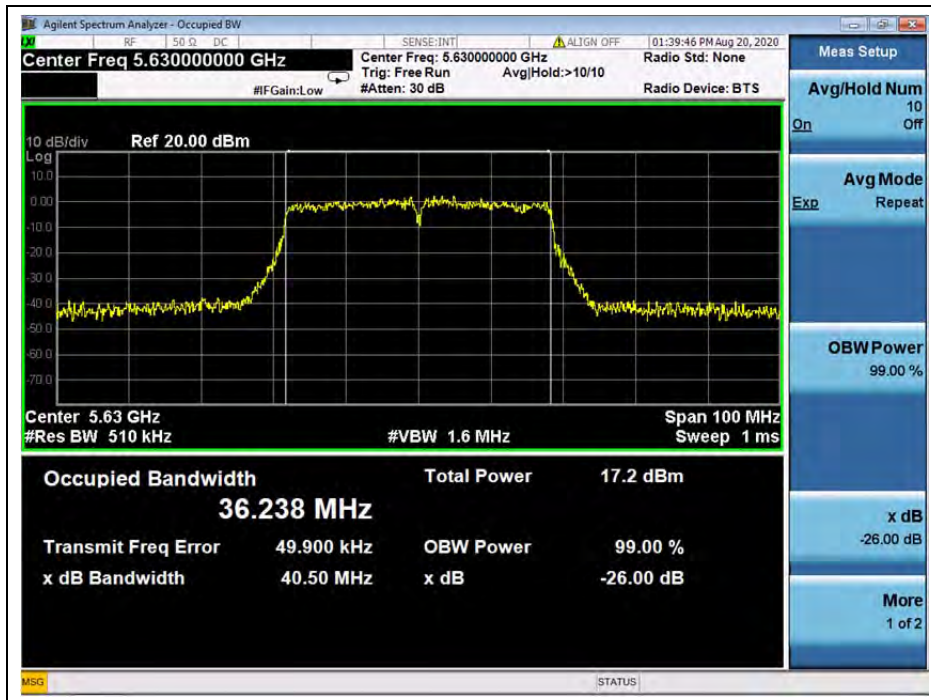
(Channel 54, 5270MHz, 802.11ac (VHT40))



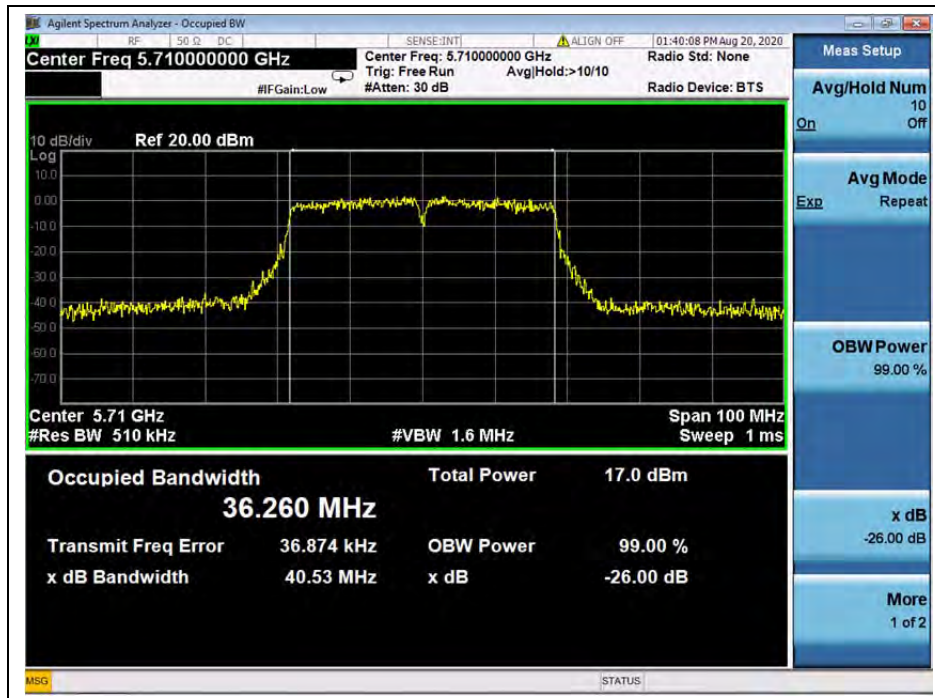
(Channel 62, 5310MHz, 802.11ac (VHT40))



(Channel 102, 5510MHz, 802.11ac (VHT40))



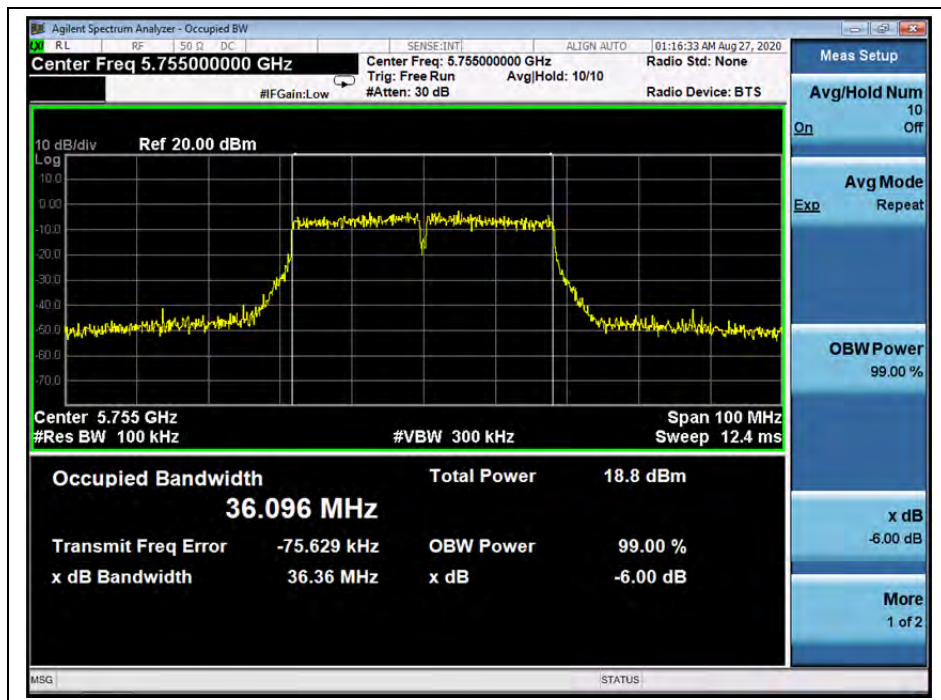
(Channel 126, 5630MHz, 802.11ac (VHT40))



(Channel 142, 5710MHz, 802.11ac (VHT40))



(Channel 142, 5710MHz, 802.11ac (VHT40))



(Channel 151, 5755MHz, 802.11ac (VHT40))