



REPORT No.: SZ18090337W04

TEST REPORT

APPLICANT : Jiangsu SEUIC Technology Co.,Ltd.

PRODUCT NAME : Portable Data Collection Terminal

MODEL NAME : CRUISE 1

BRAND NAME : CRUISE/SEUIC

FCC ID : 2AC68-CRUISE1P

STANDARD(S) : 47 CFR Part 15 Subpart E

RECEIPT DATE : 2018-10-15

TEST DATE : 2018-10-27 to 2018-12-20

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MORLAB

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REPORT No.: SZ18090337W04

Change History		
Version	Date	Reason for change
1.0	2018-12-20	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Jiangsu SEUIC Technology Co.,Ltd.
Applicant Address:	NO.15 Xinghuo Road,Nanjing New & High Technology Industry Development Zone,210061,Nanjing City,Jiangsu Province,China
Manufacturer:	Jiangsu SEUIC Technology Co.,Ltd.
Manufacturer Address:	NO.15 Xinghuo Road,Nanjing New & High Technology Industry Development Zone,210061,Nanjing City,Jiangsu Province,China

1.2. Equipment Under Test (EUT) Description

Product Name:	Portable Data Collection Terminal	
Serial No:	(N/A, marked #1 by test site)	
Hardware Version:	SLB761_MB_V1.02_PCB	
Software Version:	D700P_I_V1.1.5	
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:	5.180 GHz- 5.240 GHz; 5.260 GHz -5.320 GHz ; 5.500 GHz -5.720 GHz ; 5.745GHz- 5.825GHz	
Channel Number:	Refer to 1.3	
Antenna Type:	PIFA Antenna	
Antenna Gain:	2.4 dBi	
Accessory Information:	Battery	
	Brand Name:	N/A
	Model No.:	BT01700CRUISE
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	4500mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V



Accessory Information:	AC Adapter	
	Brand Name:	SHENZHEN TIANYIN ELECTRONICS CO.,LTD
	Model No.:	TPA-23A050200UU01
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-240V ~ 50/60Hz 0.3A
	Rated Output:	5V=2.0A

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

Note 2: During test, the duty cycle of the EUT was setting to 100%.

Note 3: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.3. The channel number and frequency of EUT

Frequency Range: 5180MHz-5240MHz				
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: 5260MHz-5320MHz				
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: 5500MHz-5720MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	100	5500	105	5520
	108	5540	112	5560
	116	5580	120	5600
	124	5620	128	5640
	132	5660	136	5680
	140	5700	144	5720
40MHz	102	5510	110	5550
	118	5590	126	5630
	134	5670	142	5710
80MHz	106	5530	122	5610
	138	5690		
Frequency Range: 5745-5825MHz				
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.



1.4. 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
1	15.203	Antenna Requirement	N/A	N/A	PASS
2	ANSI C63.10	Duty Cycle of the test signal	Nov 28, 2018	Wang Meng	PASS
3	15.407(a) (e)	Emission Bandwidth	Nov 27, 2018	Wang Meng	PASS
4	15.407(a)	Maximum conducted output Power	Dec 20, 2018	Wang Meng	PASS
5	15.407(a)	Peak Power spectral density	Nov 28, 2018	Wang Meng	PASS
6	15.407(g)	Frequency Stability	Dec 20, 2018	Wang Meng	PASS
7	15.207	Conducted Emission	Oct 27, 2018	Wang Dalong	PASS
8	15.407(b)	Restricted Frequency Bands	Dec 01&05, 2018	Wang Dalong	PASS
3	15.407(b)	Radiated Emission	Nov 07, 2018	Wang Dalong	PASS

Note1: The DFS test report was documented in a separate report (Report No.: SZ18090337W05).

Note2: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10 2013.

Note3: These RF tests were performed according to the method of measurements prescribed in KDB789033 D02 General UNII Test Procedures New Rules v01r03.

Note4: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 11.5dB contains two parts that cable loss 1.5dB and Attenuator 10dB.

1.5. 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 15C 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. 2.1.2 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

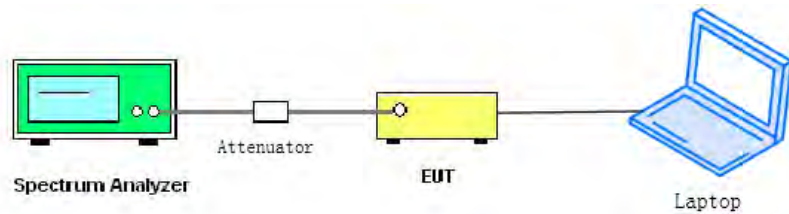
2.2.1. Requirement

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 subclause, 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

A. Test Set:



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.

B. Test Procedure

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

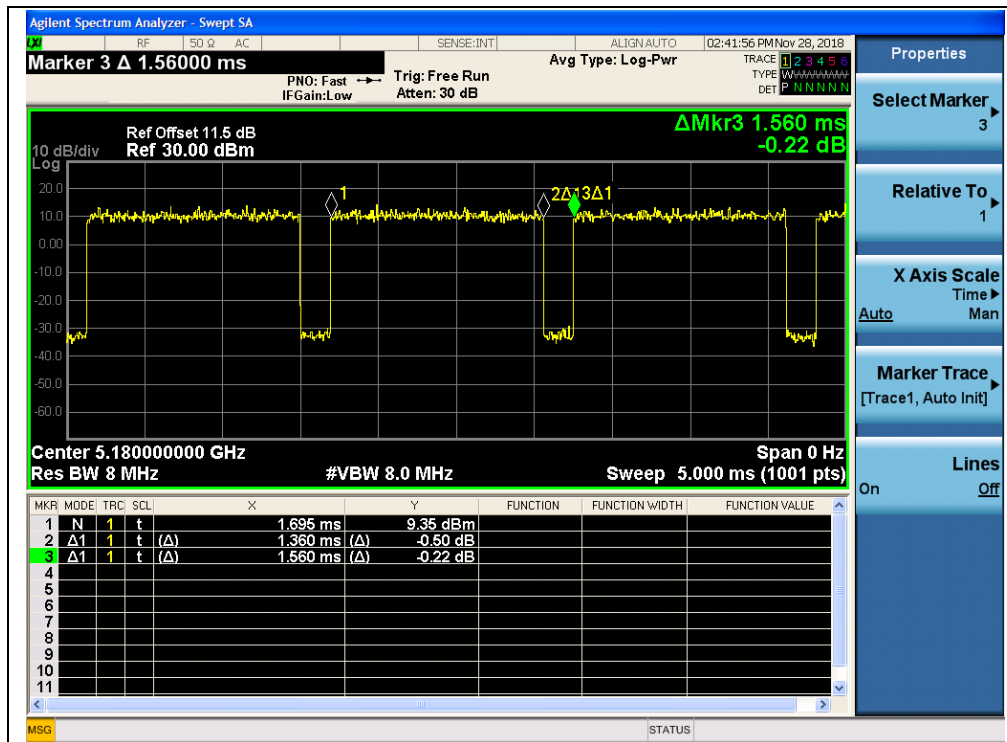


2.2.3. Test Result

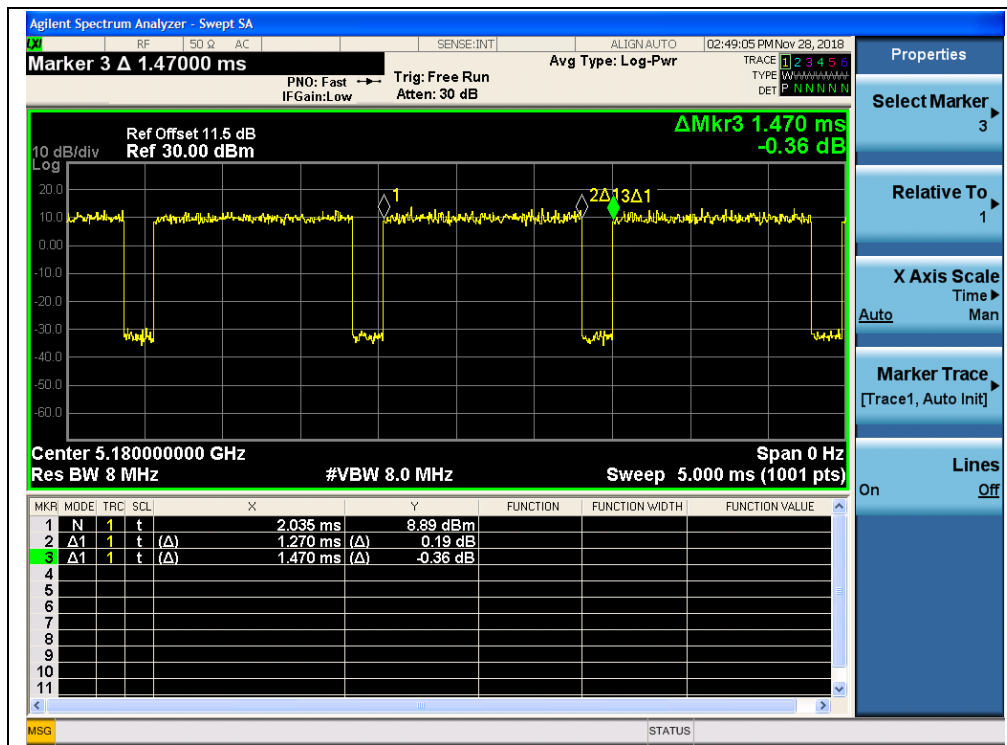
A. Test Verdict:

Test Mode	Duty Cycle (%) (D)	Duty Factor (10*log[1/D])
802.11a	87.18	0.60
802.11n(HT20)	86.39	0.64
802.11n(HT40)	82.99	0.81
802.11ac(VHT20)	71.10	1.48
802.11ac(VHT40)	70.72	1.50
802.11ac(VHT80)	53.05	2.75

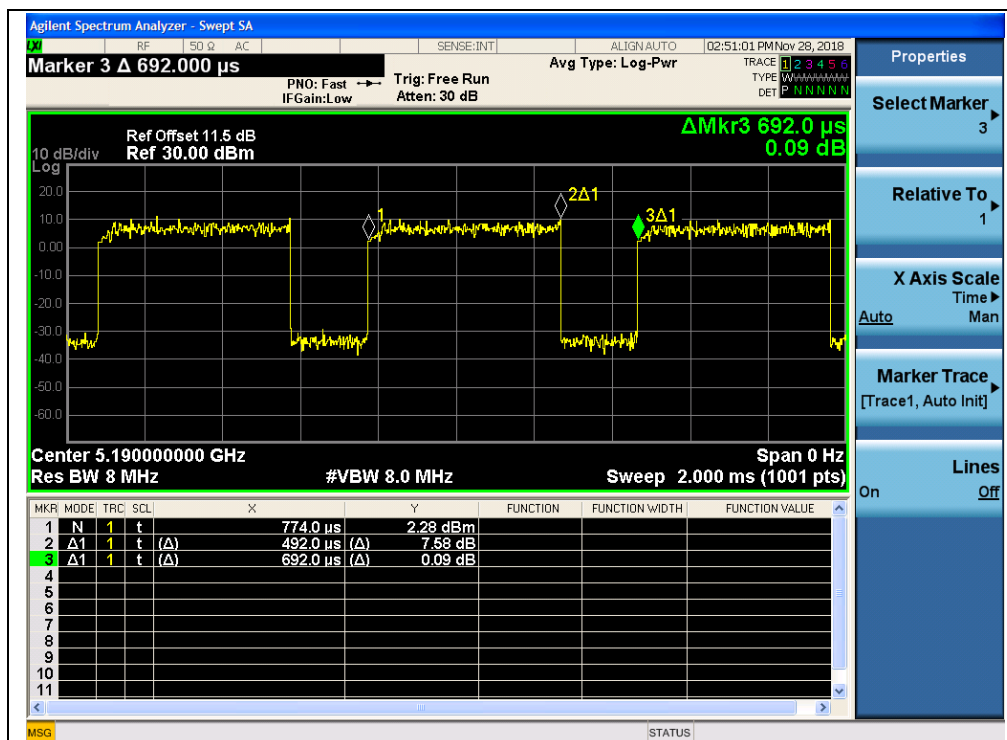
B. Test Plots



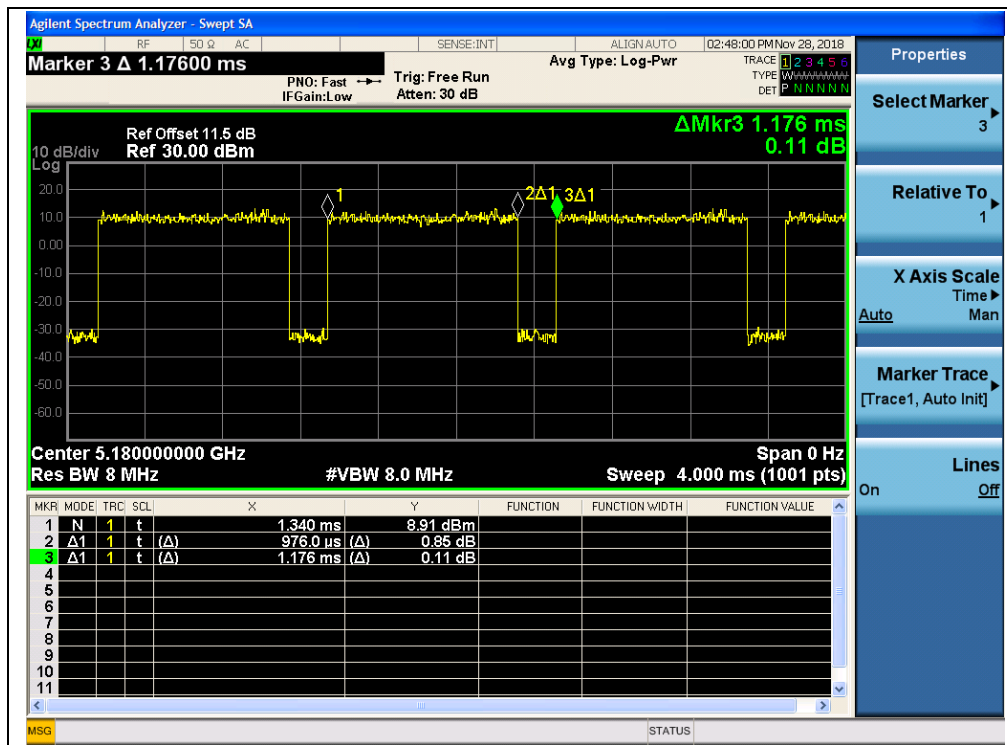
(CH36_5180MHz_802.11a)



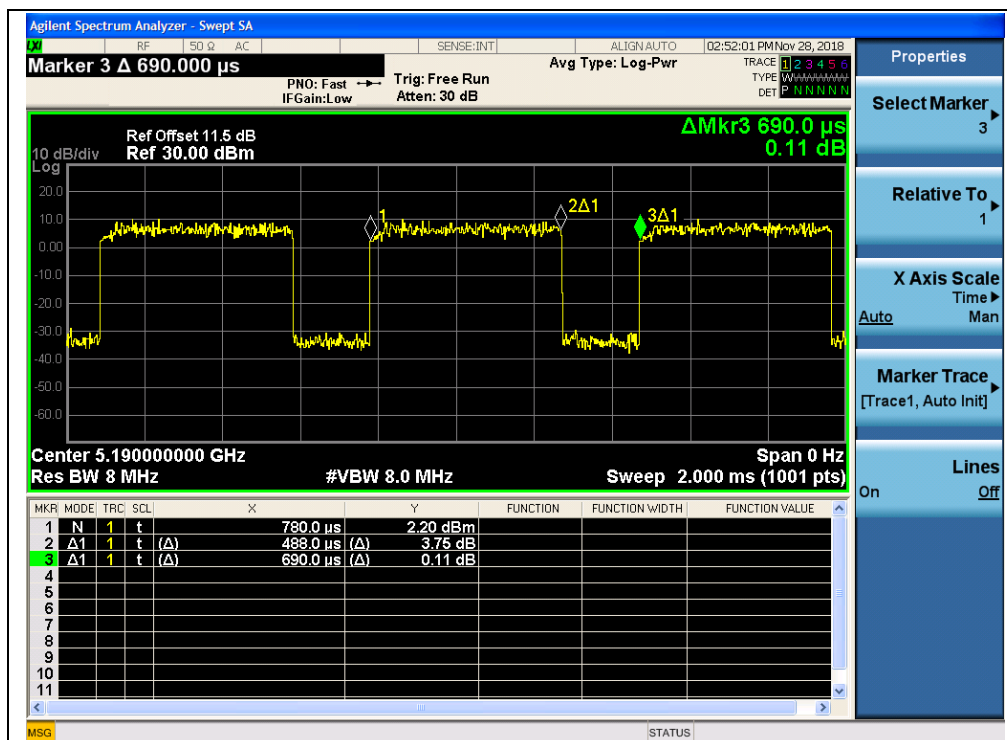
(CH36_5180MHz _802.11n(HT20))



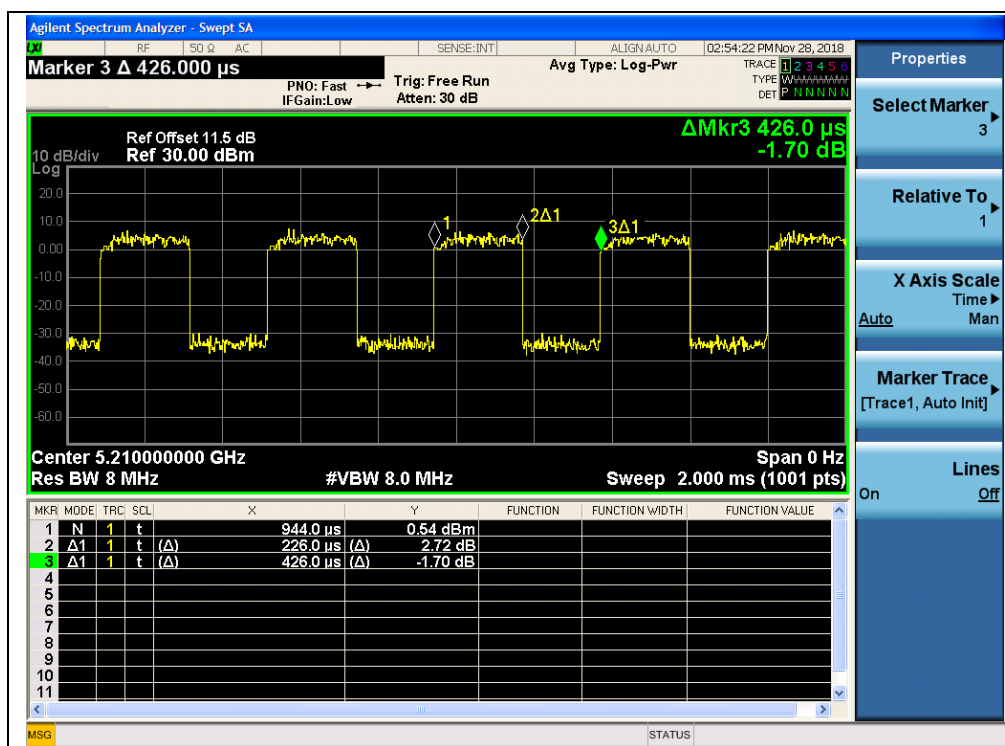
(CH38_5190MHz _802.11n(HT40))



(CH36_5180MHz_802.11ac(VHT20))



(CH38_5190MHz_802.11 ac(VHT40))



(CH42_5210MHz_802.11 ac(VHT80))

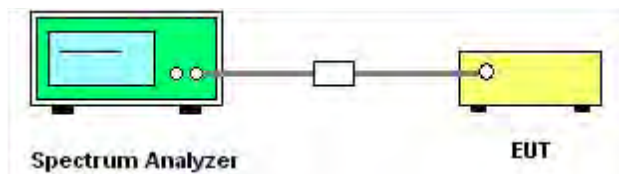
2.3. Emission Bandwidth

2.3.1. 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.

2.3.2. Test Description

A. Test Set:



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.

B. 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 the 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 the 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.

2.3.3. Test Result

802.11a Test mode

A. Test Verdict:

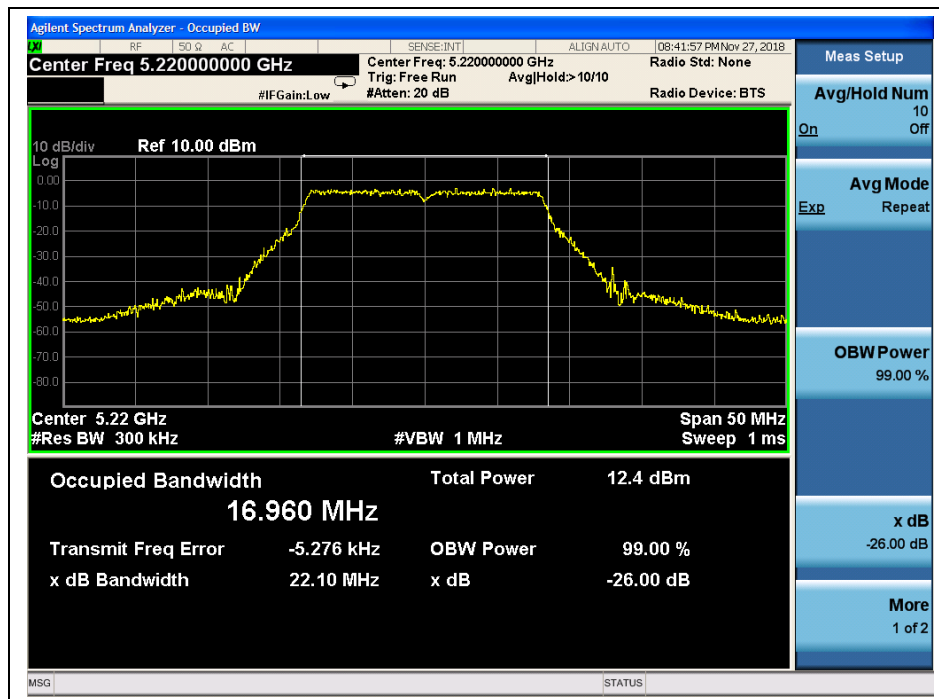
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
36	5180	22.21
44	5220	22.10
48	5240	22.00 _{Note}
52	5260	22.27
60	5300	22.02
64	5320	22.16
100	5500	21.93
120	5600	22.14
144	5720	22.19
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
144	5720	16.44
149	5745	16.44
157	5785	16.45
165	5825	16.44
Note: The high frequency of the -26dB is 5251.10MHz which is in the DFS frequency range, so DFS testing is required. Please refer to DFS report (Report No.: SZ18090337W05).		



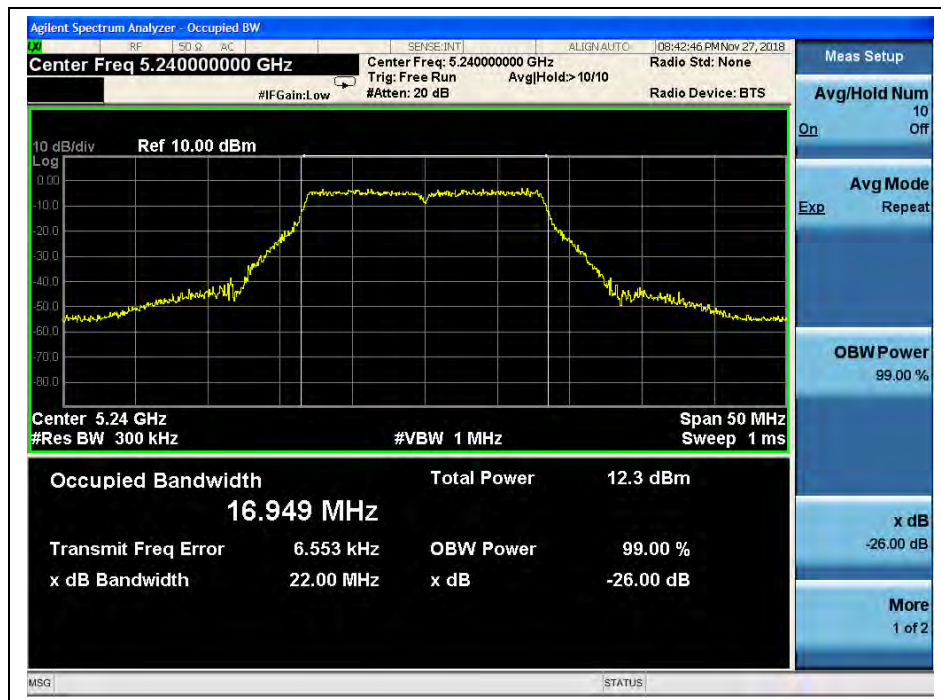
B. Test Plots



(Channel 36, 5180MHz, 802.11a,)



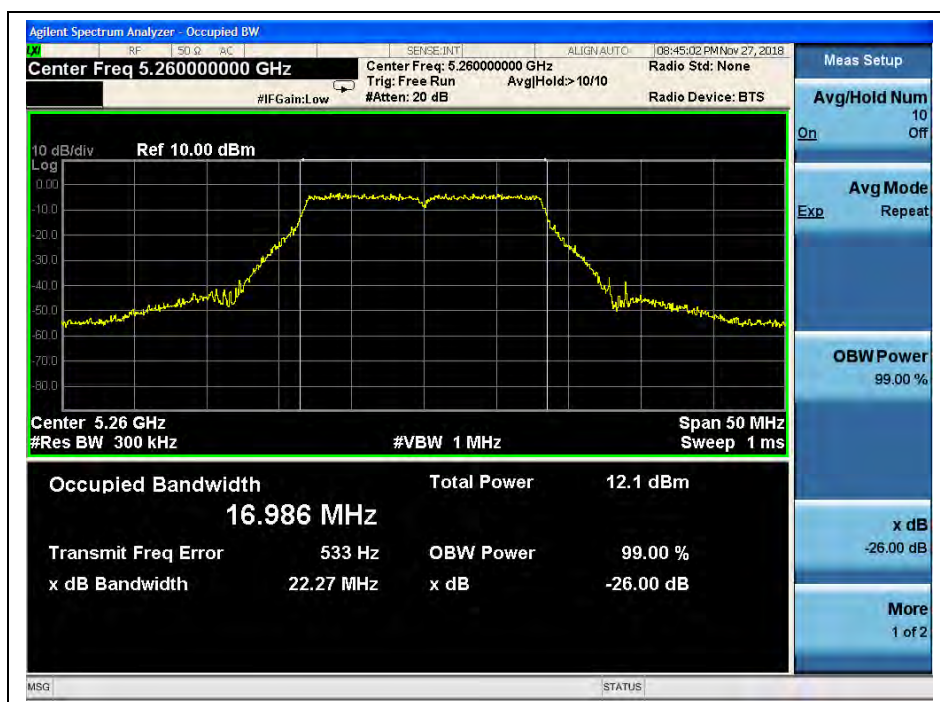
(Channel 44, 5220 MHz, 802.11a,)



(Channel 48, 5240MHz, 802.11a,)



(Channel 48, 5240MHz, fh of -26dB, 802.11a,)



(Channel 52, 5260MHz, 802.11a,)



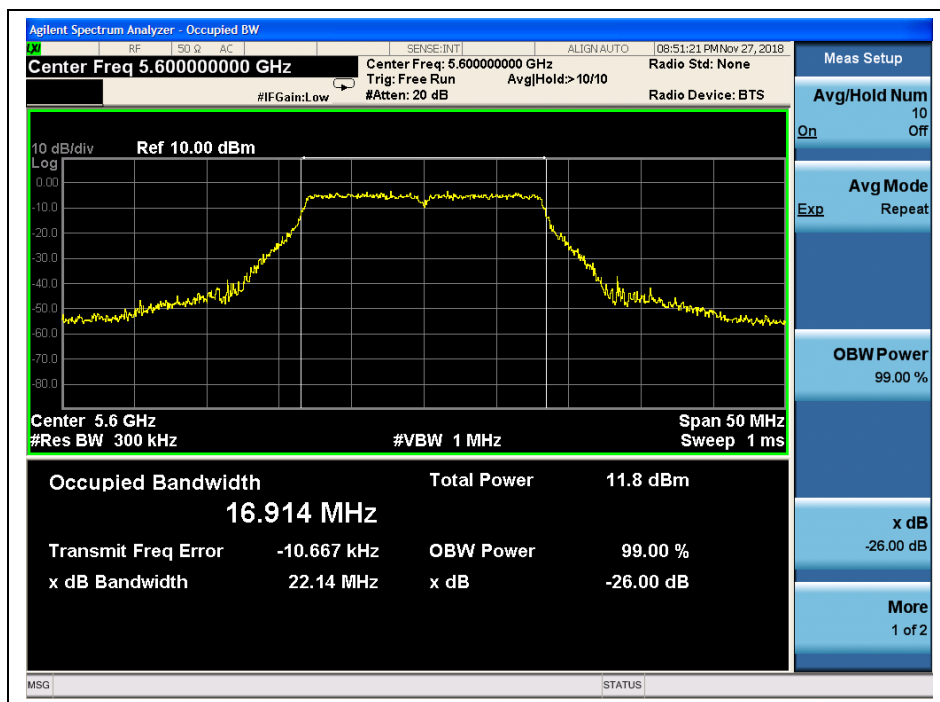
(Channel 60, 5300 MHz, 802.11a,)



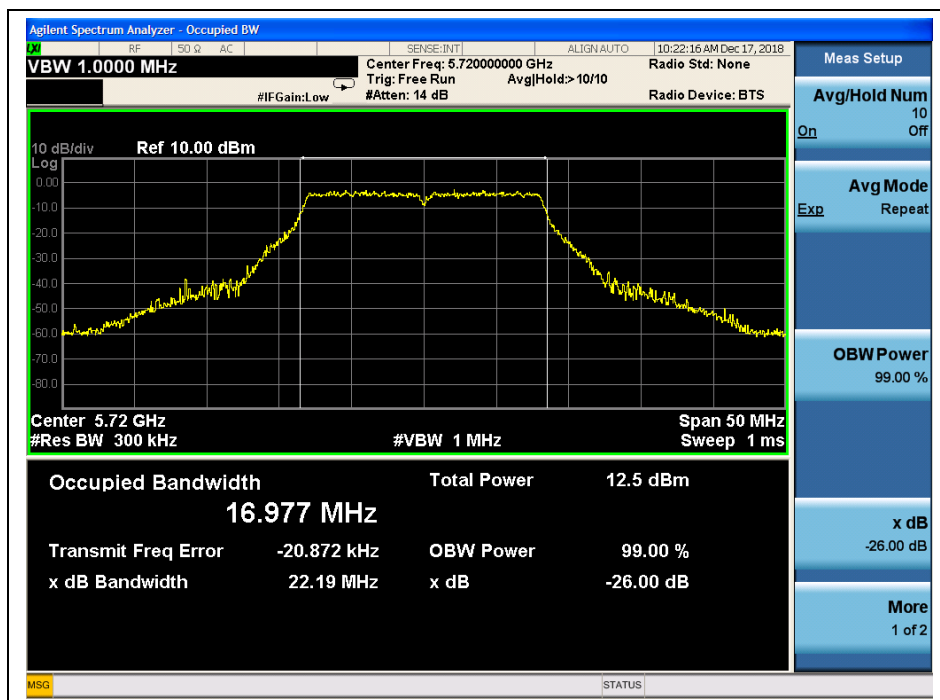
(Channel 64, 5320MHz, 802.11a,)



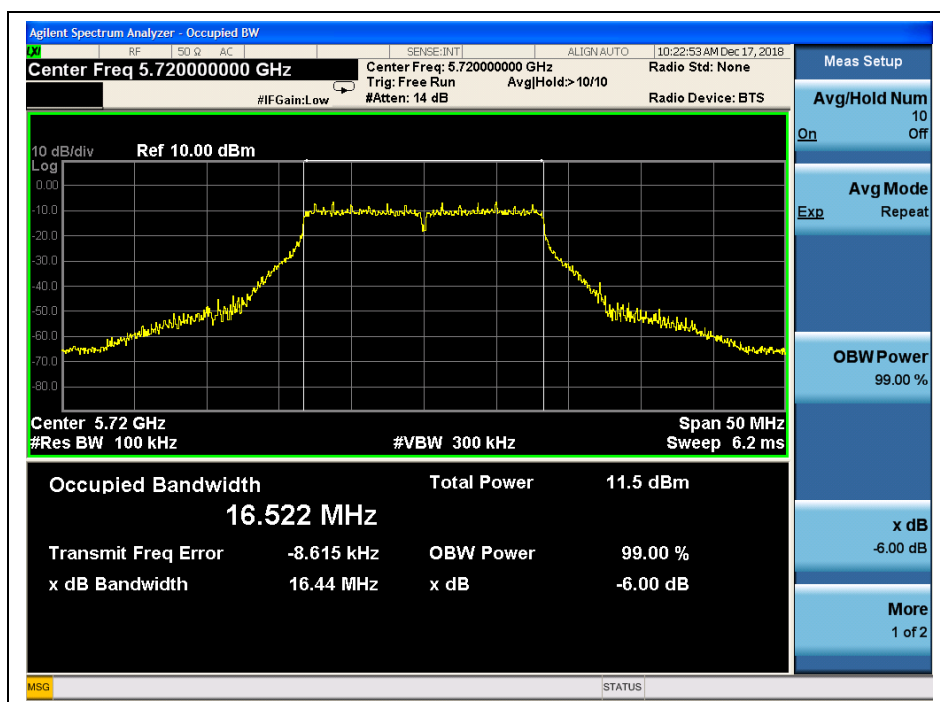
(Channel 100, 5500MHz, 802.11a,)



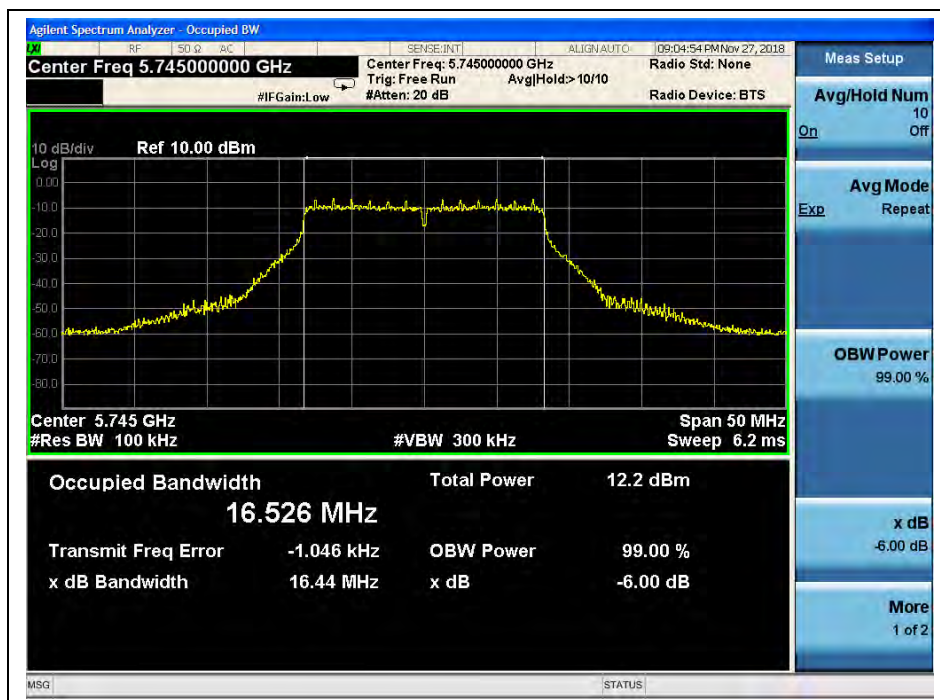
(Channel 120, 5600 MHz, 802.11a,)



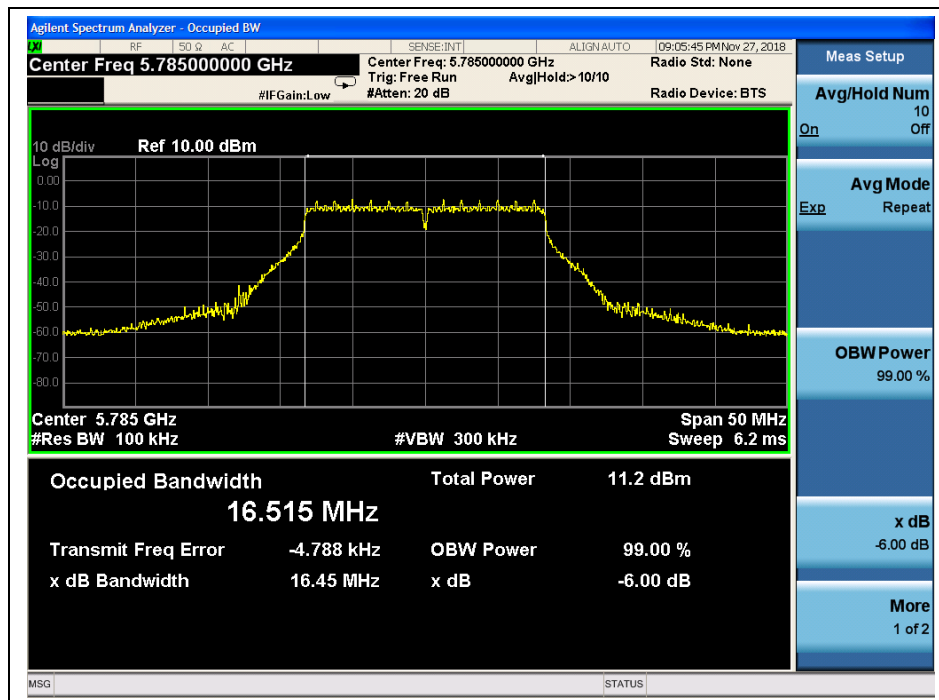
(Channel 144, 5720MHz, 802.11a,)



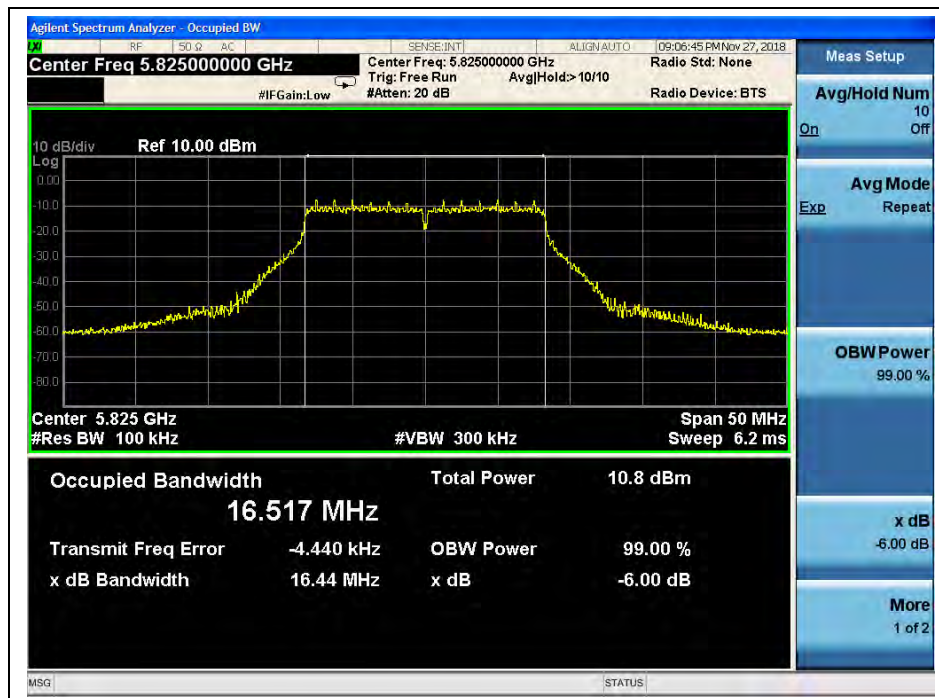
(Channel 144, 5720MHz, 802.11a,)



(Channel 149, 5745MHz, 802.11a)



(Channel 157, 5785MHz, 802.11a)



(Channel 165, 5825MHz, 802.11a)

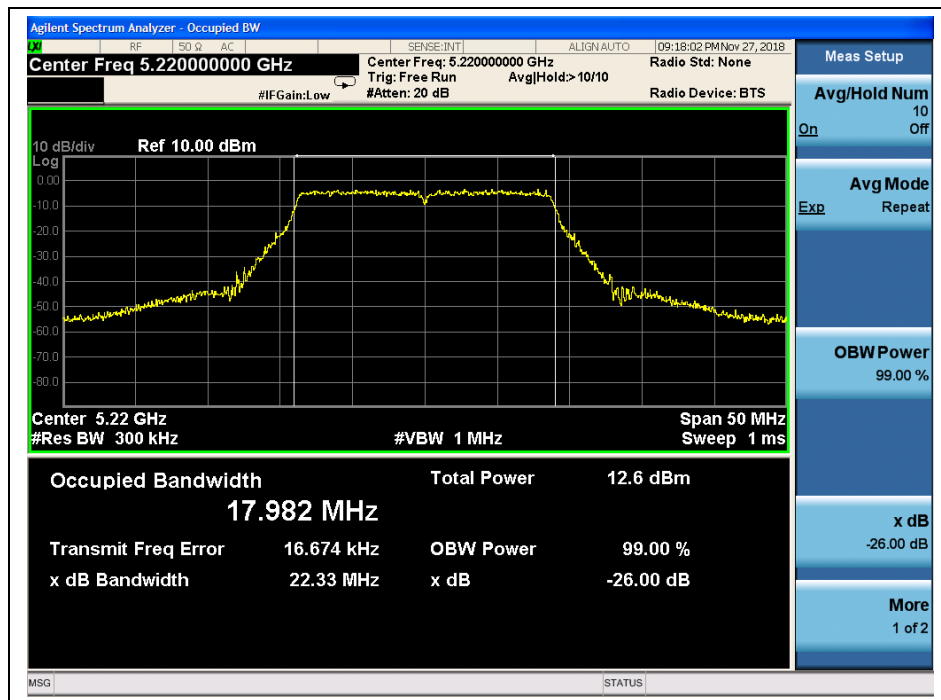
**802.11n (HT20) Test mode****A. Test Verdict:**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
36	5180	22.32
44	5220	22.33
48	5240	22.67 Note
52	5260	22.69
60	5300	22.52
64	5320	22.24
100	5500	22.37
120	5600	22.57
144	5720	22.20
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
144	5720	17.63
149	5745	17.62
157	5785	17.61
165	5825	17.61

Note: The high frequency of the -26dB is 5251.25MHz which is in the DFS frequency range, so DFS testing is required. Please refer to DFS report (Report No.: SZ18090337W05).

B. Test Plots

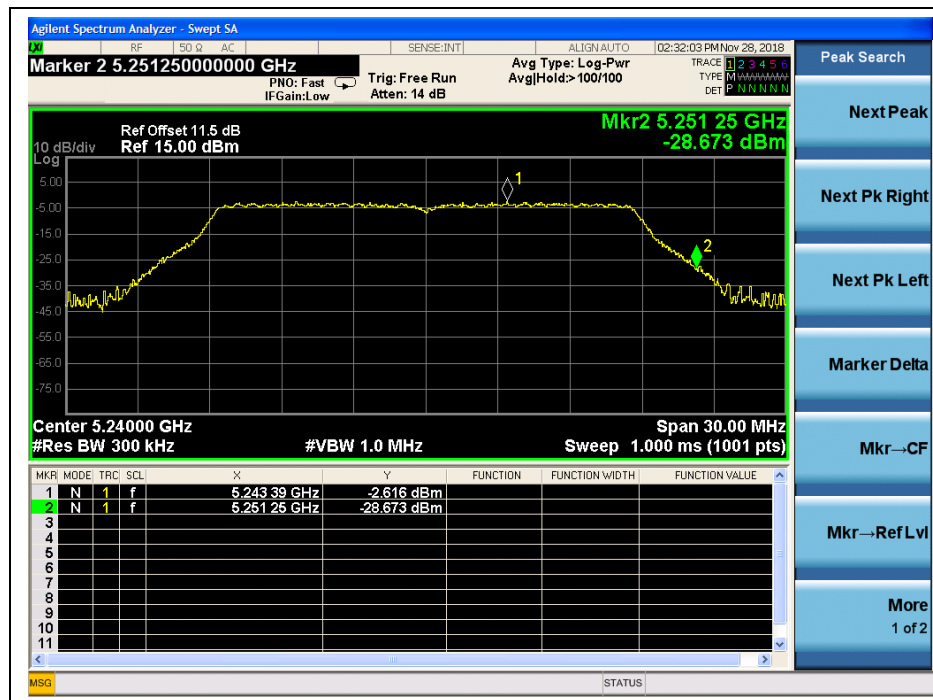
(Channel 36, 5180MHz, 802.11 n (HT20))



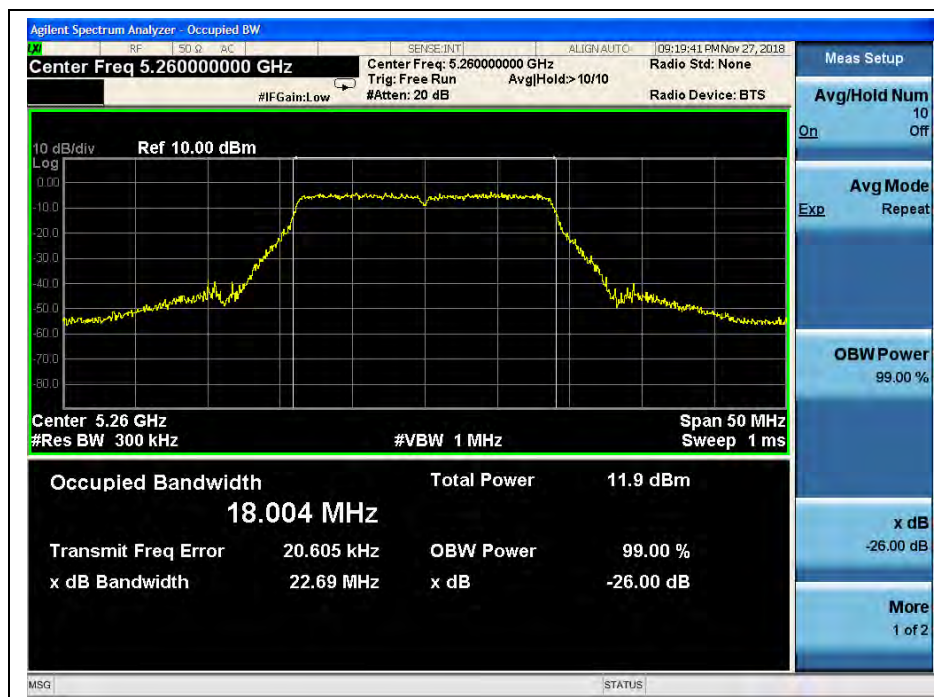
(Channel 44, 5220 MHz, 802.11 n (HT20))



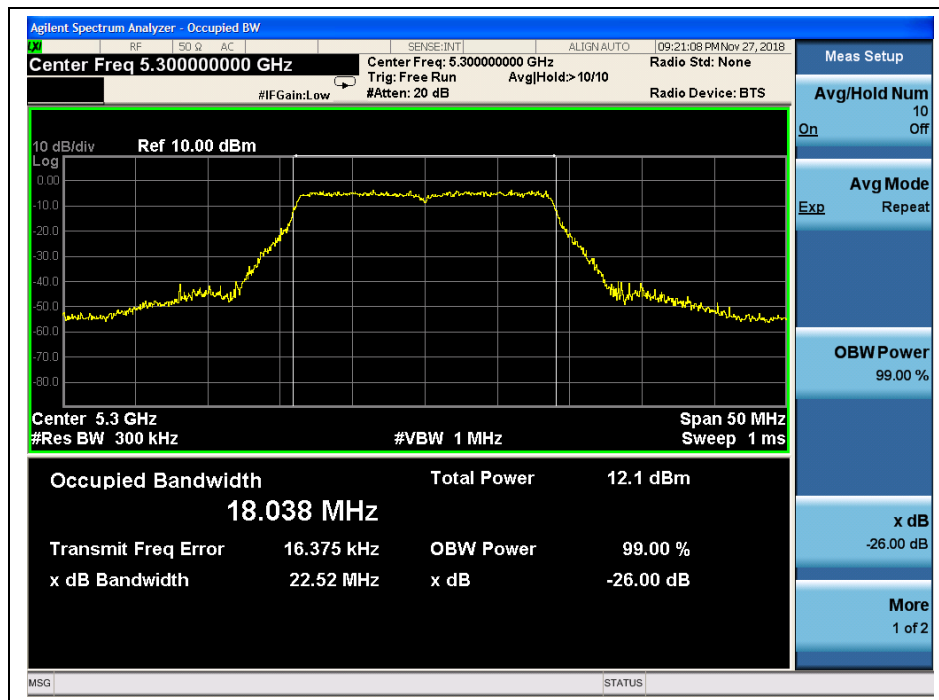
(Channel 48, 5240MHz, 802.11 n (HT20))



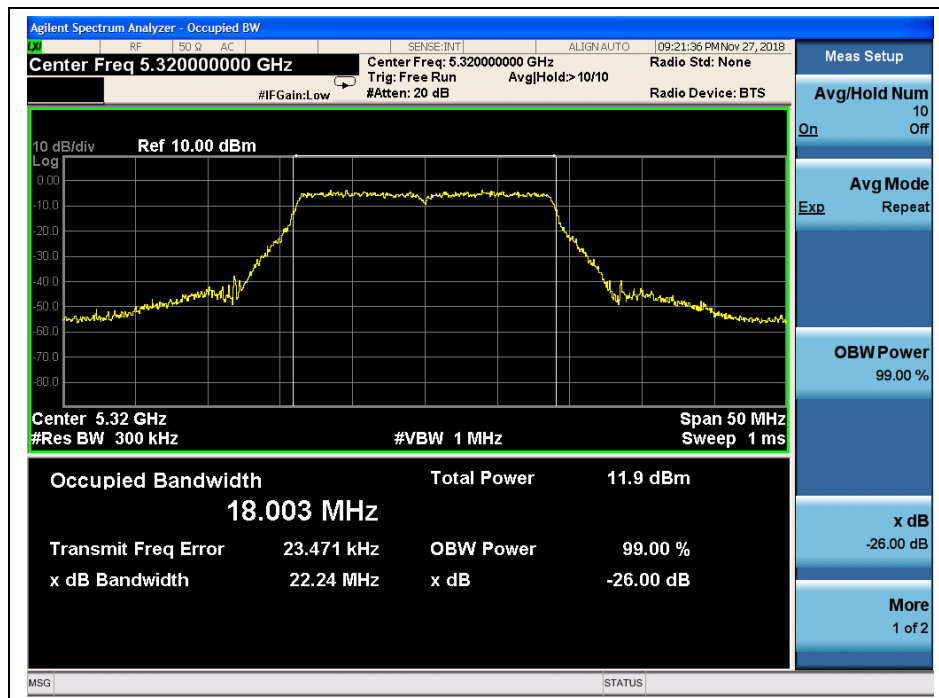
(Channel 48, 5240MHz, fh of -26dB, 802.11 n (HT20))



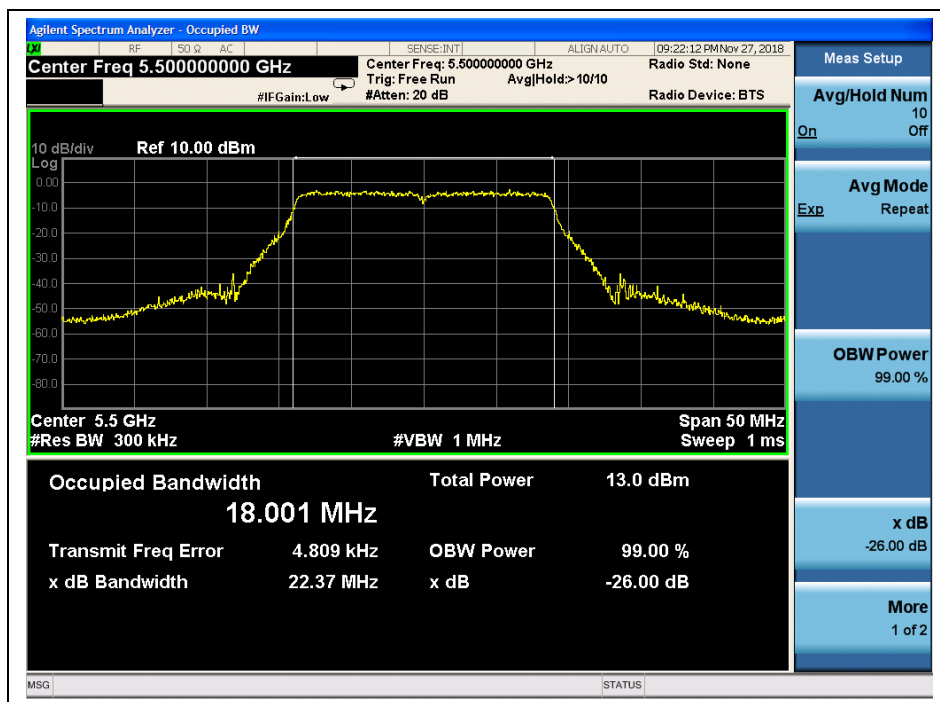
(Channel 52, 5260MHz, 802.11 n (HT20))



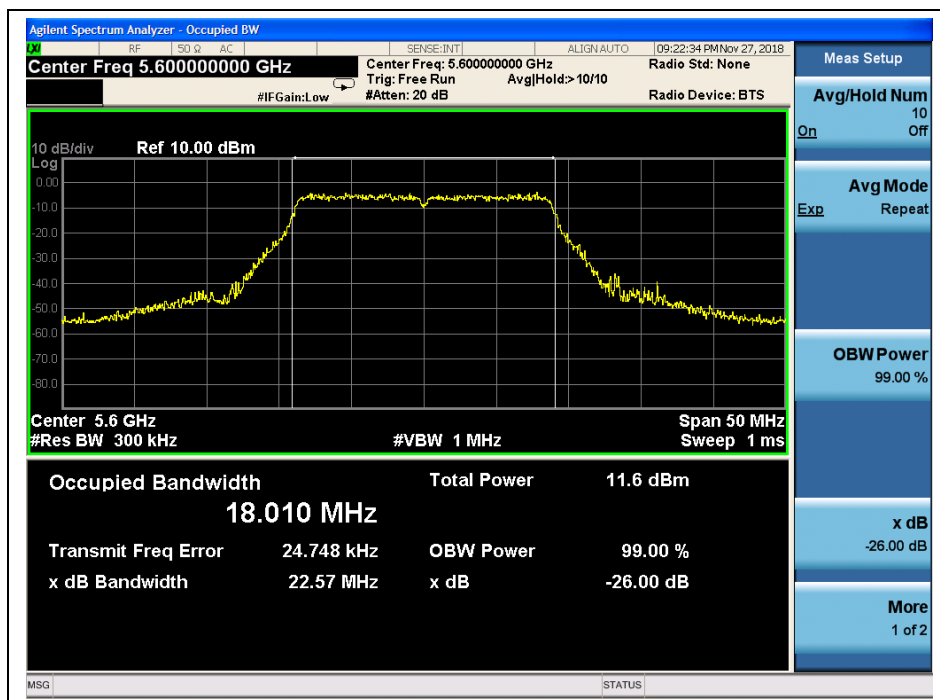
(Channel 60, 5300 MHz, 802.11 n (HT20))



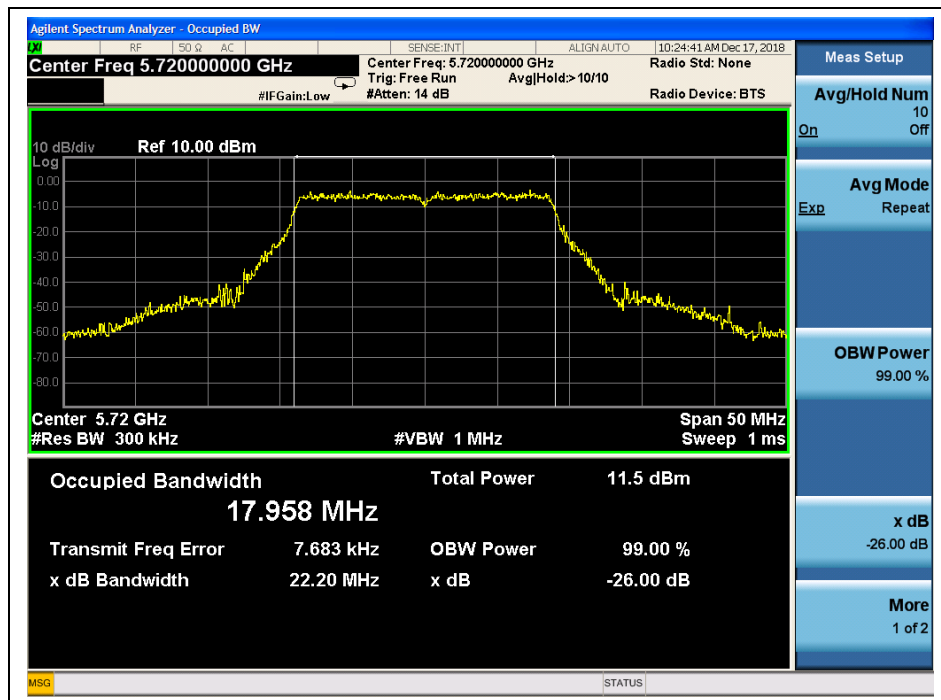
(Channel 64, 5320MHz, 802.11 n (HT20))



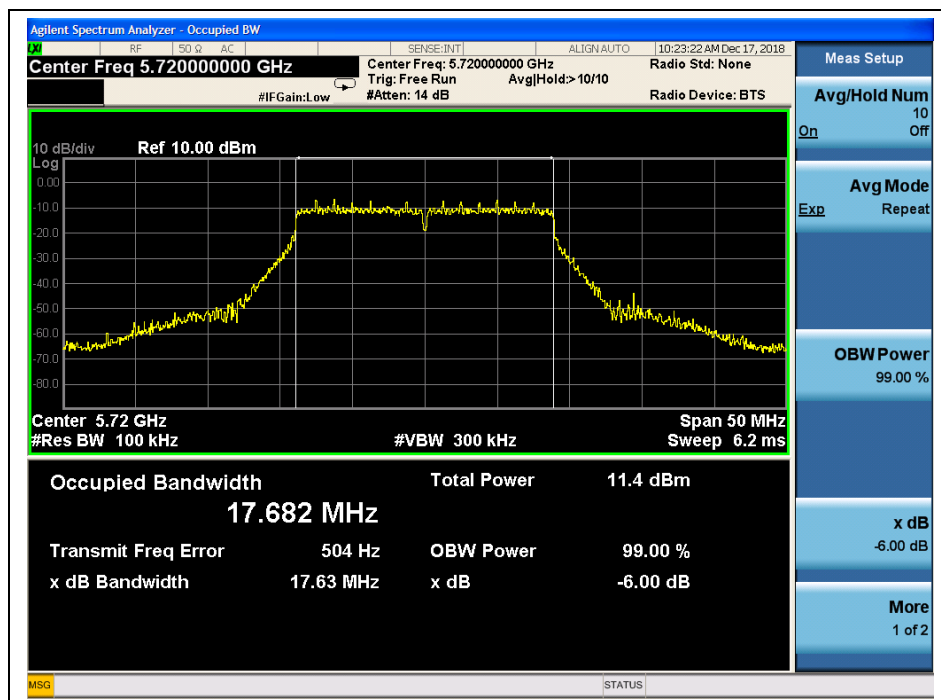
(Channel 100, 5500MHz, 802.11 n (HT20))



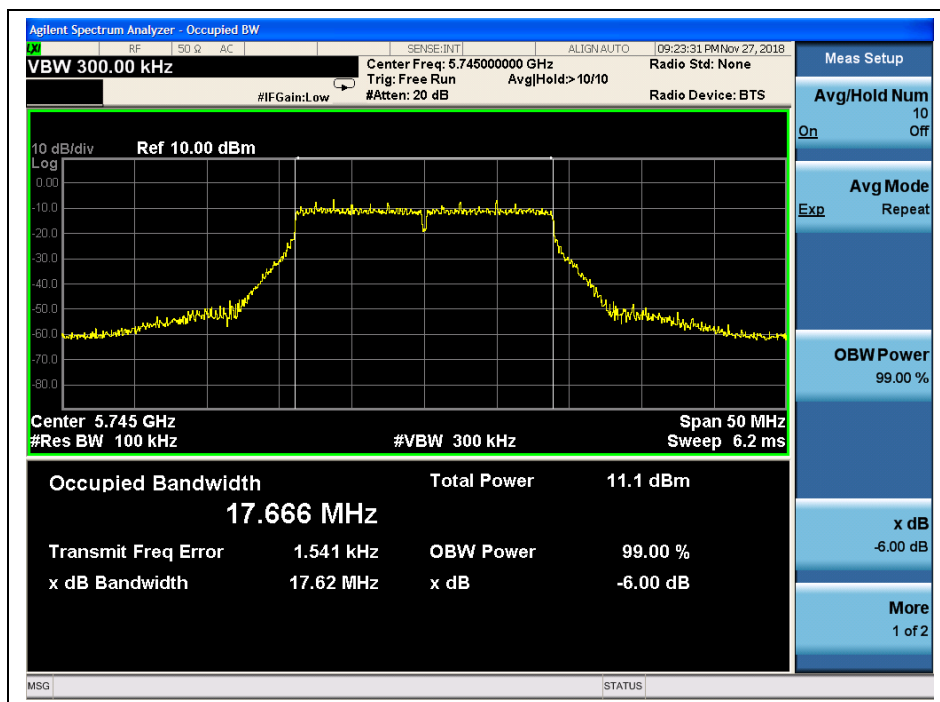
(Channel 120, 5600 MHz, 802.11 n (HT20))



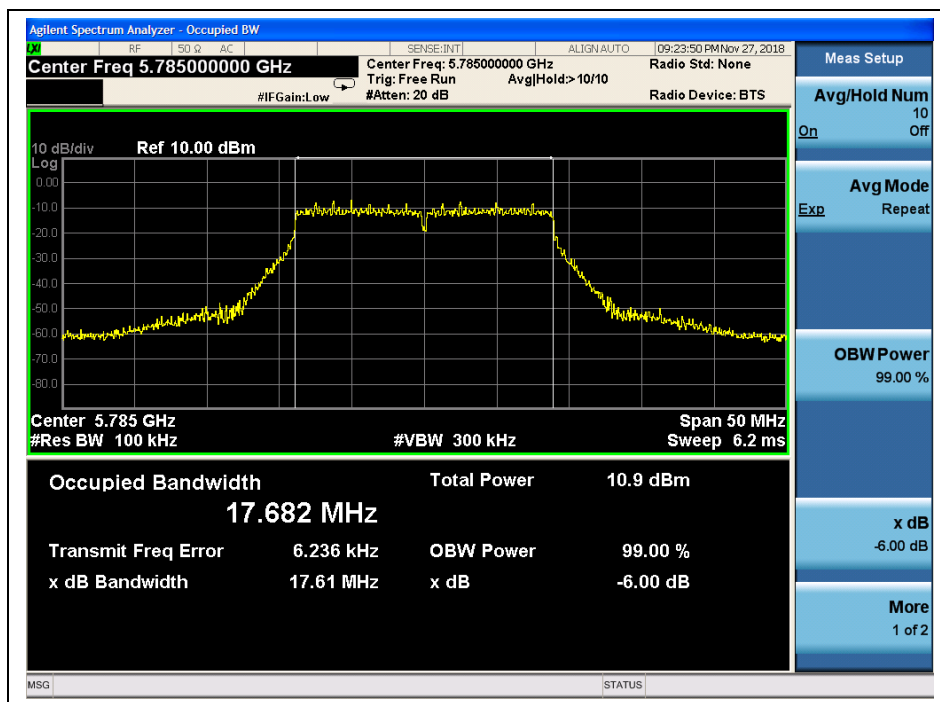
(Channel 144, 5720MHz, 802.11 n (HT20))



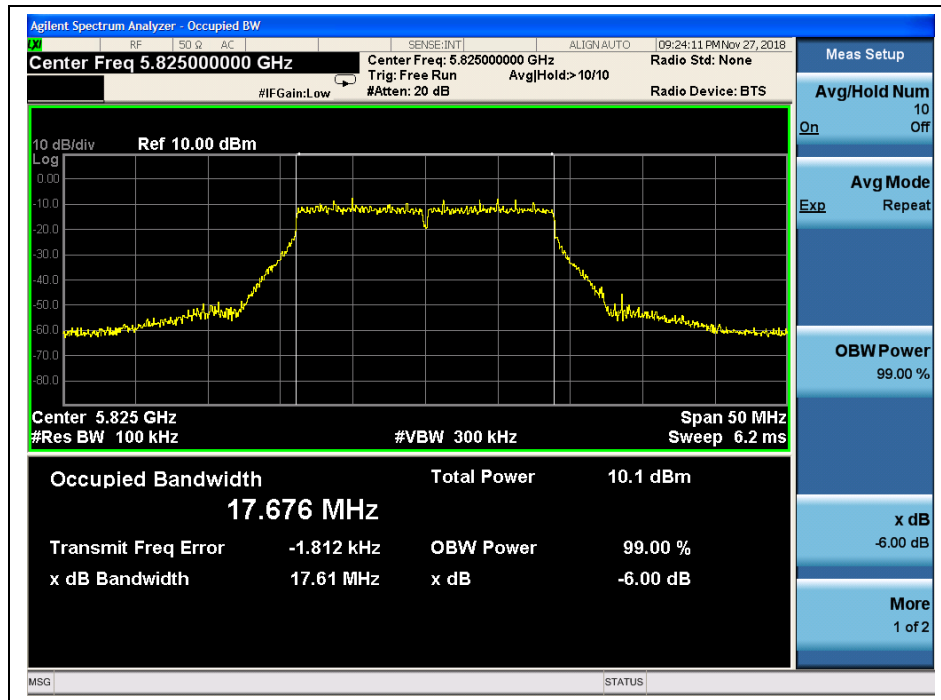
(Channel 144, 5720MHz, 802.11 n (HT20))



(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	42.46
46	5230	42.49 ^{Note}
54	5270	42.63
62	5310	42.38
102	5510	42.41
126	5630	42.20
142	5710	42.64
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
142	5710	35.50
151	5755	35.48
159	5795	35.40

Note: The high frequency of the -26dB is 5251.05MHz which is in the DFS frequency range, so DFS testing is required. Please refer to DFS report (Report No.: SZ180990337W05).



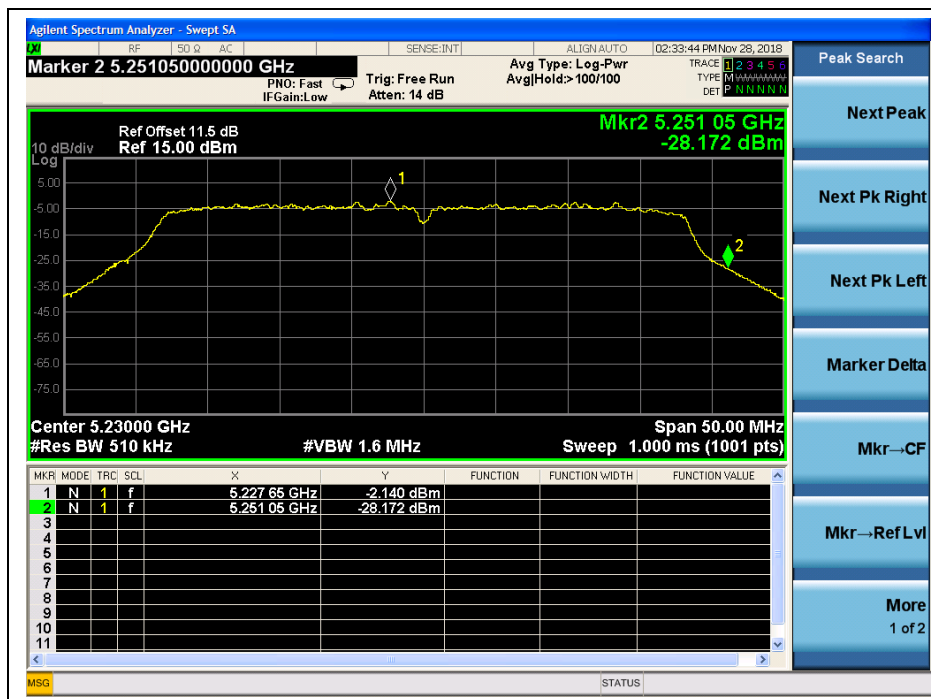
B. Test Plots



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



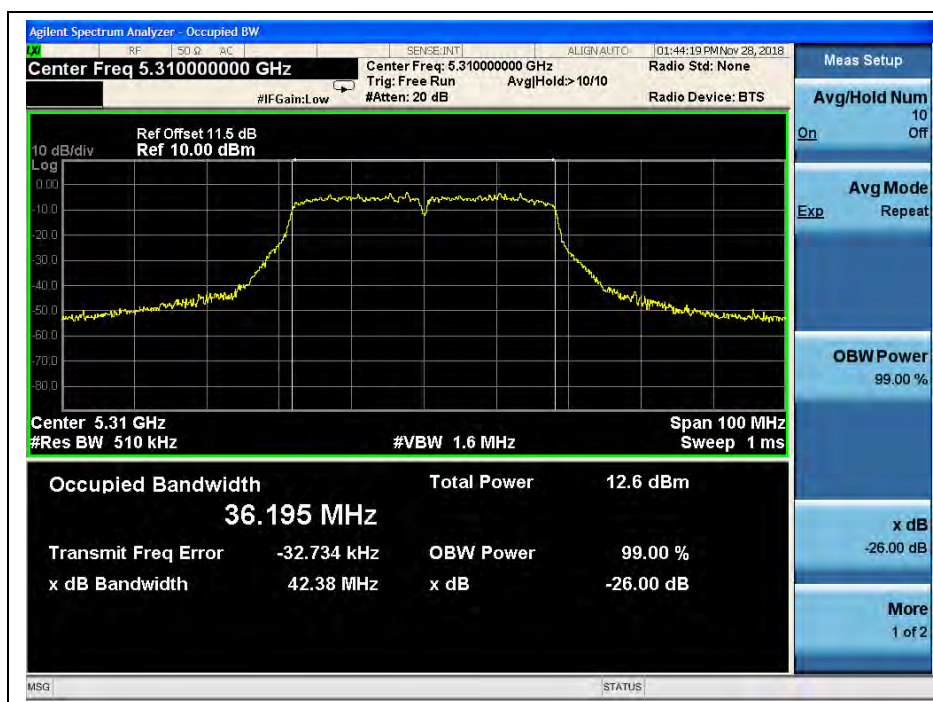
(Channel 46, 5230 MHz, 802.11n (HT40))



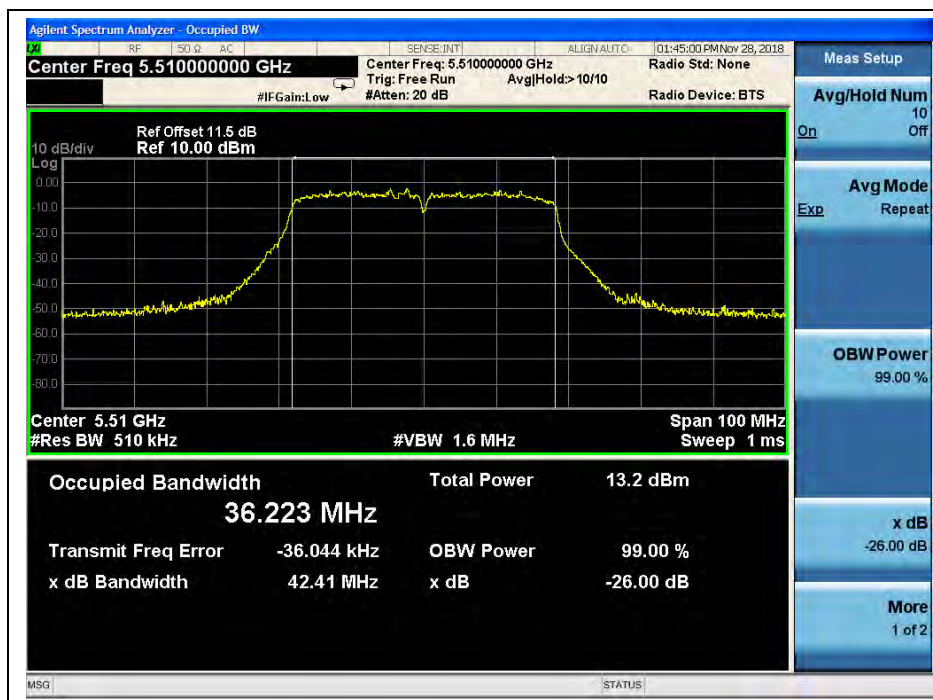
(Channel 46, 5230 MHz, fh of -26dB, 802.11n (HT40))



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



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



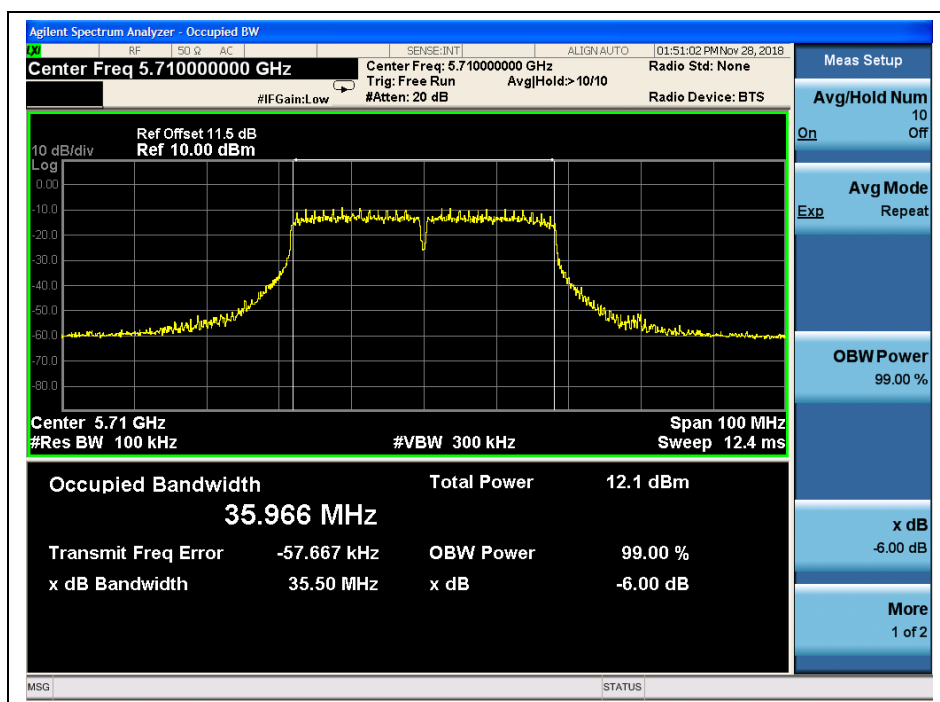
(Channel 102, 5510MHz, 802.11n (HT40))



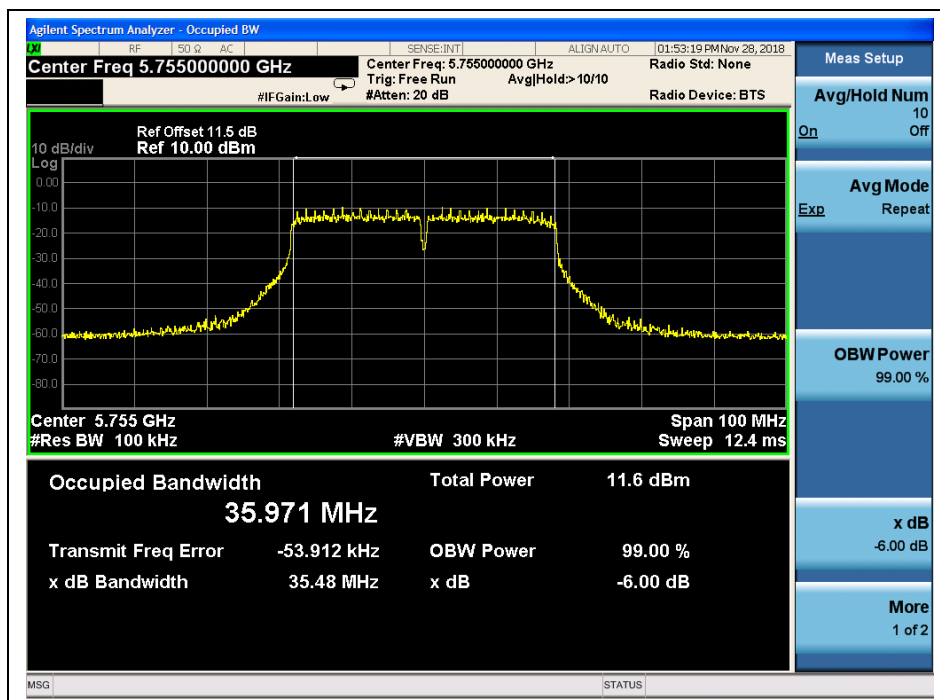
(Channel 126, 5630 MHz, 802.11n (HT40))



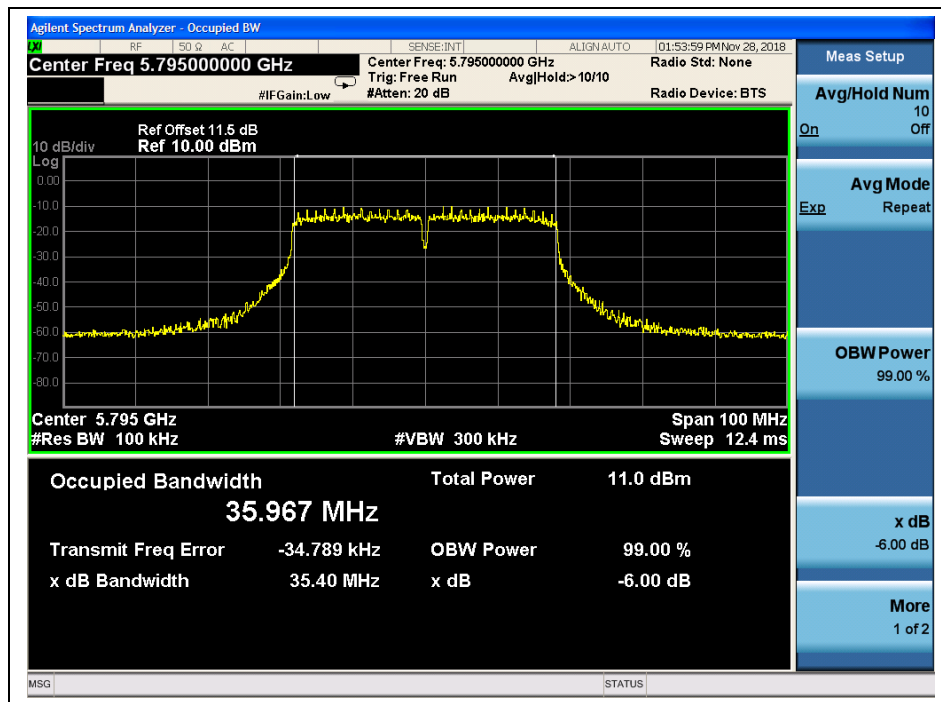
(Channel 142, 5710MHz, 802.11n (HT40))



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



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



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

802.11ac (VHT20) Test mode

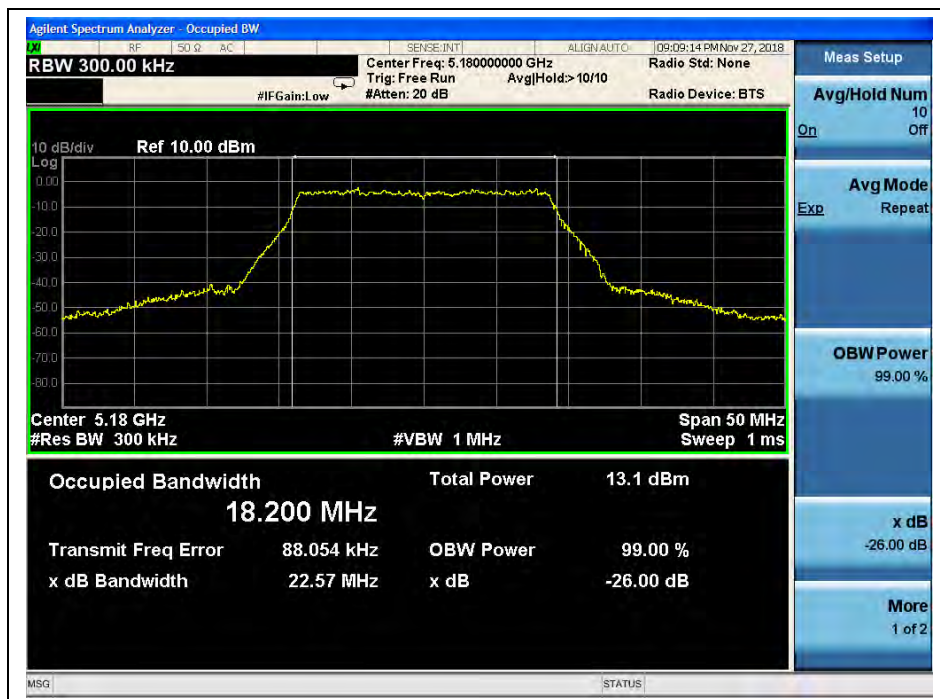
A. Test Verdict:

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
36	5180	22.57
44	5220	22.06
48	5240	22.02 Note
52	5260	22.10
60	5300	22.03
64	5320	22.15
100	5500	22.12
120	5600	22.13
144	5720	22.12
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
144	5720	17.64
149	5745	17.64
157	5785	17.65
165	5825	17.63

Note: The high frequency of the -26dB is 5251.10MHz which is in the DFS frequency range, so DFS testing is required. Please refer to DFS report (Report No.: SZ180990337W05).



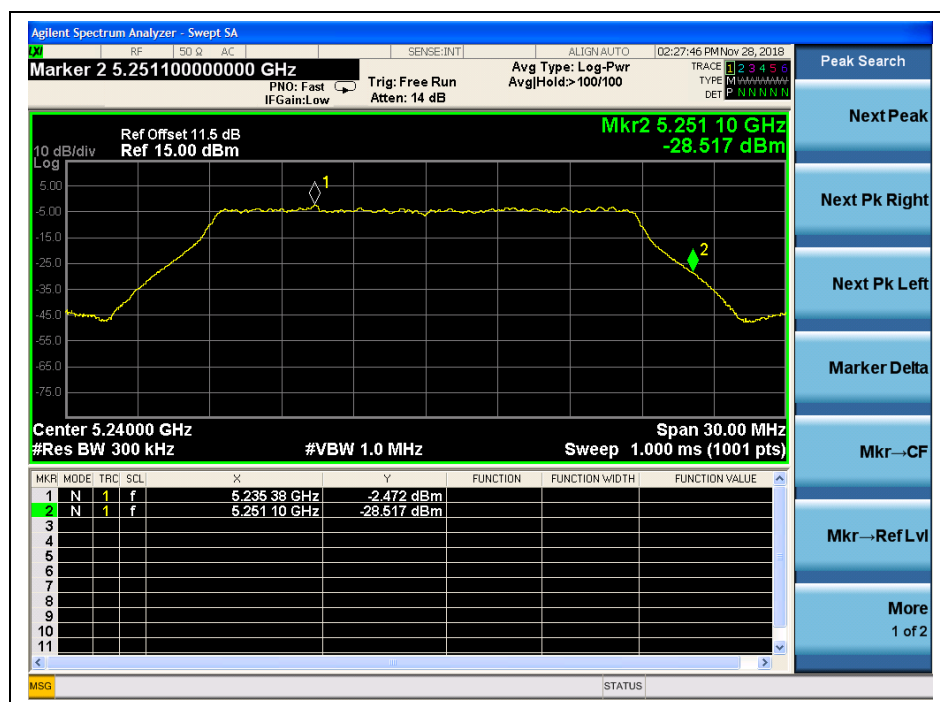
B. Test Plots



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

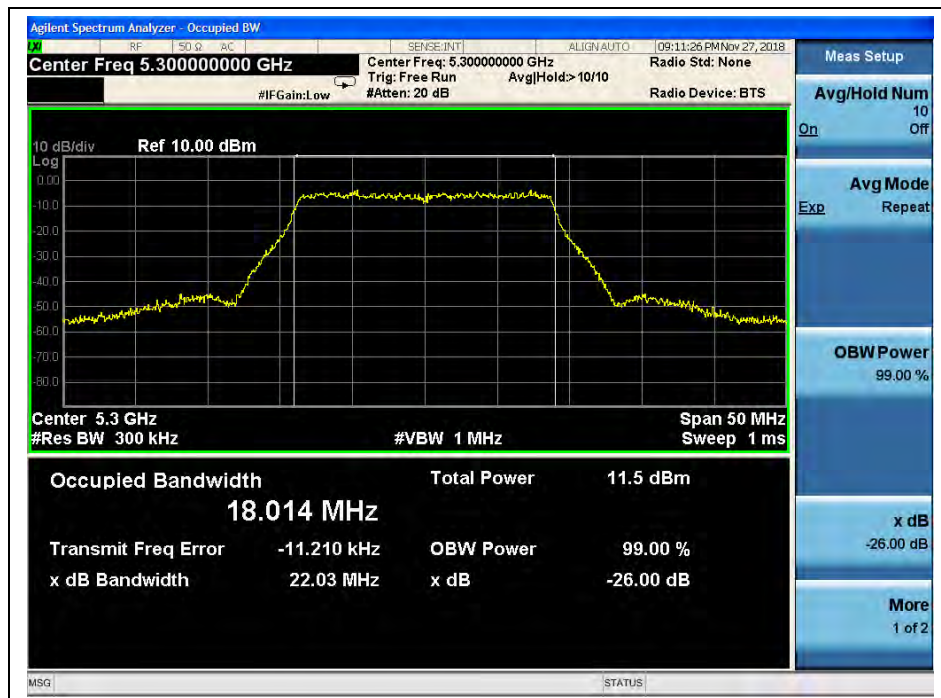


(Channel 44, 5220 MHz, 802.11 ac (VHT20))





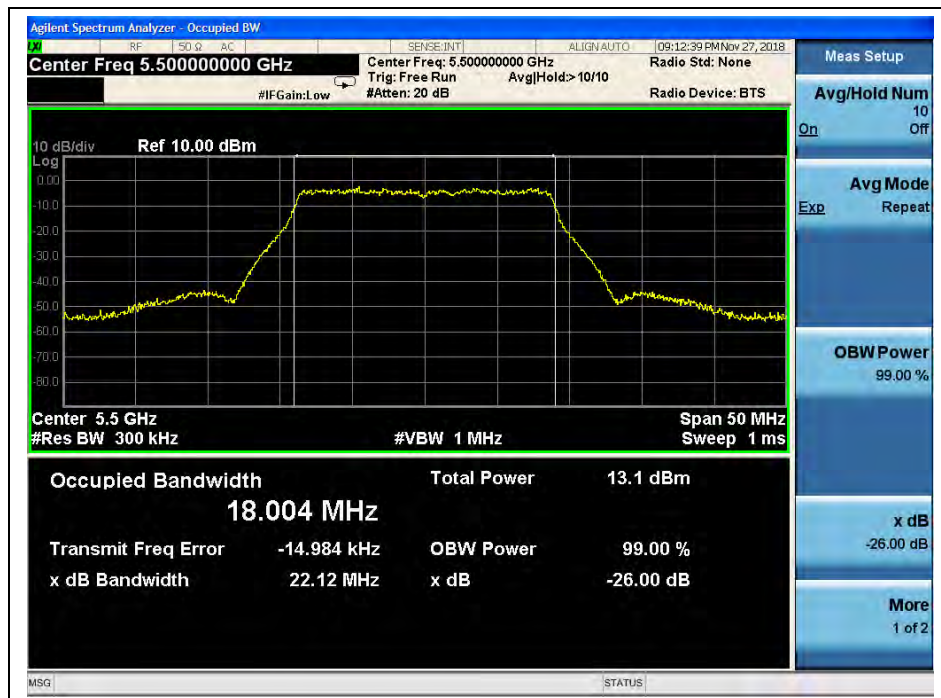
(Channel 52, 5260MHz, 802.11 ac (VHT20))



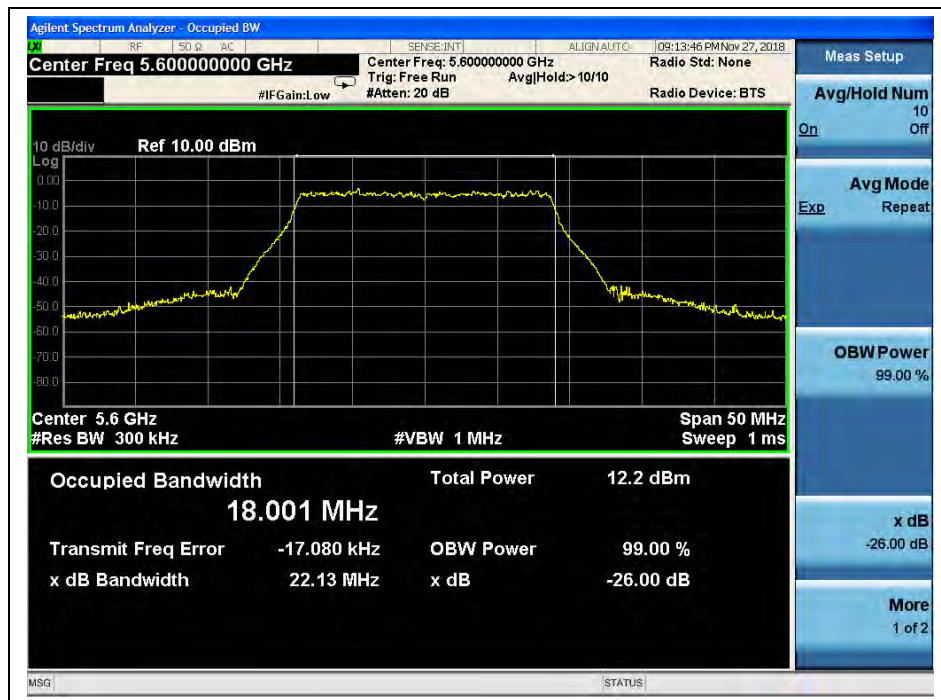
(Channel 60, 5300 MHz, 802.11 ac (VHT20))



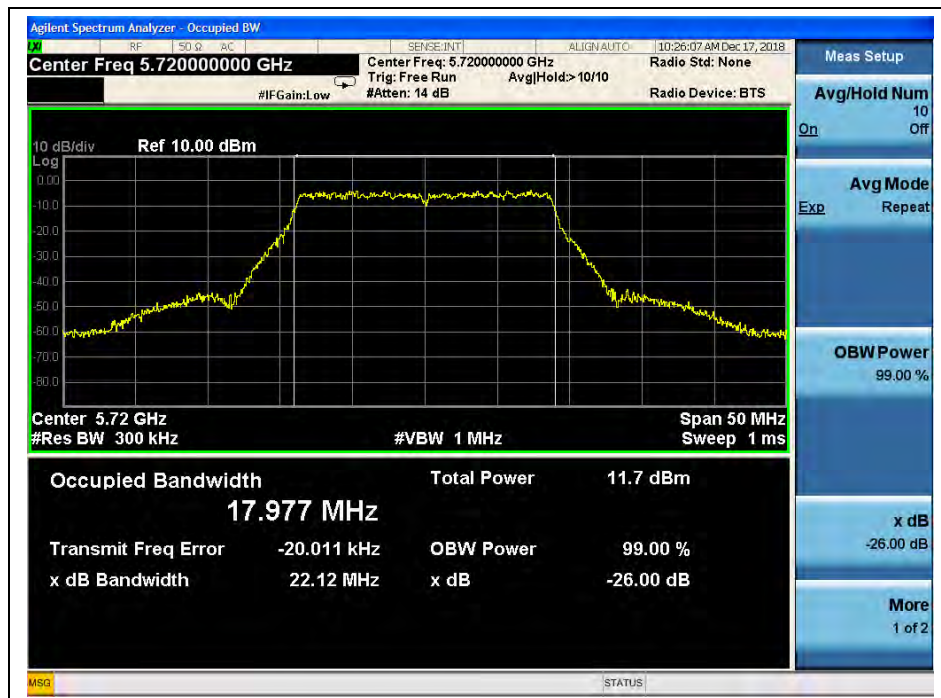
(Channel 64, 5320MHz, 802.11 ac (VHT20))



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



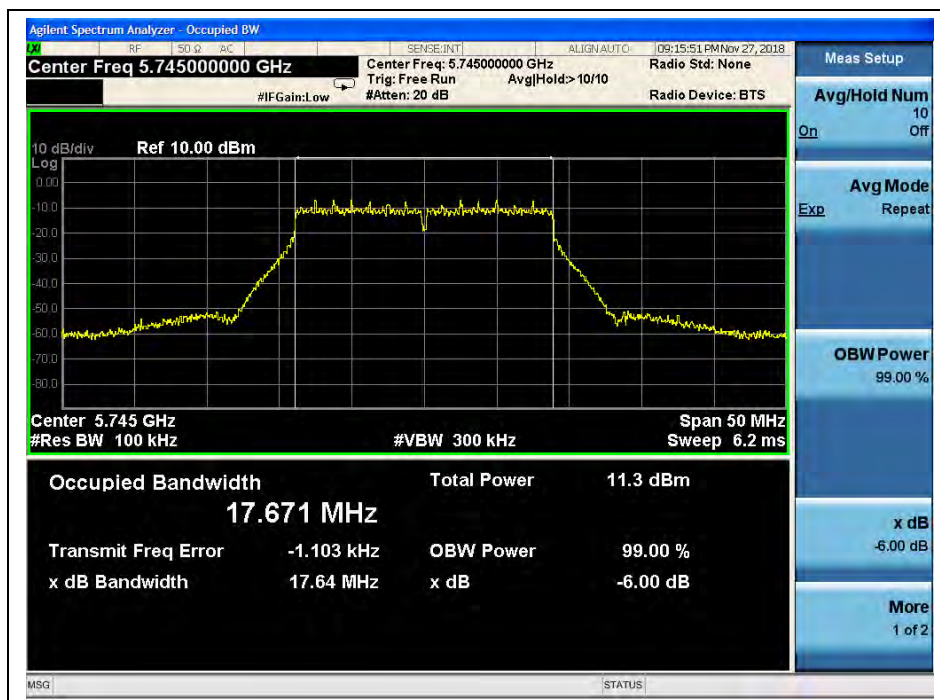
(Channel 120, 5600 MHz, 802.11 ac (VHT20))



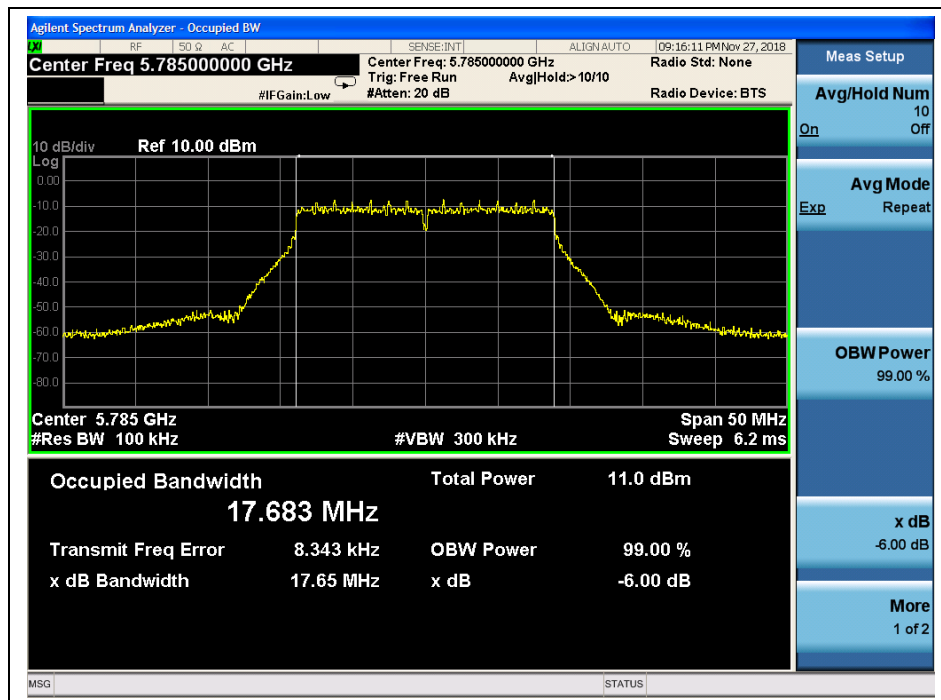
(Channel 144, 5720MHz, 802.11 ac (VHT20))



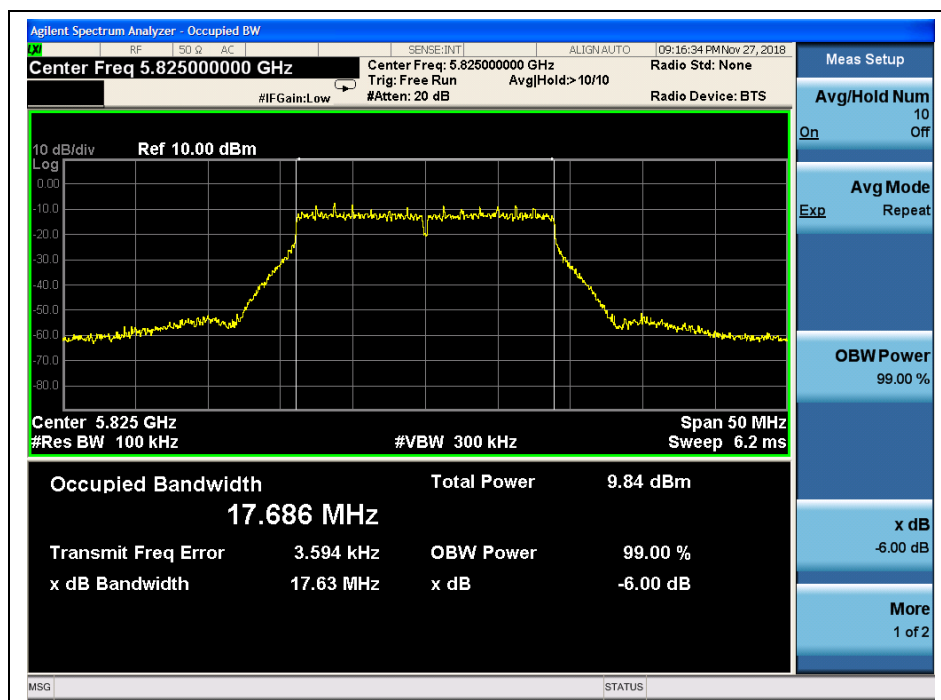
(Channel 144, 5720MHz, 802.11 ac (VHT20))



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



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



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



802.11ac (VHT40) Test mode

A. Test Verdict:

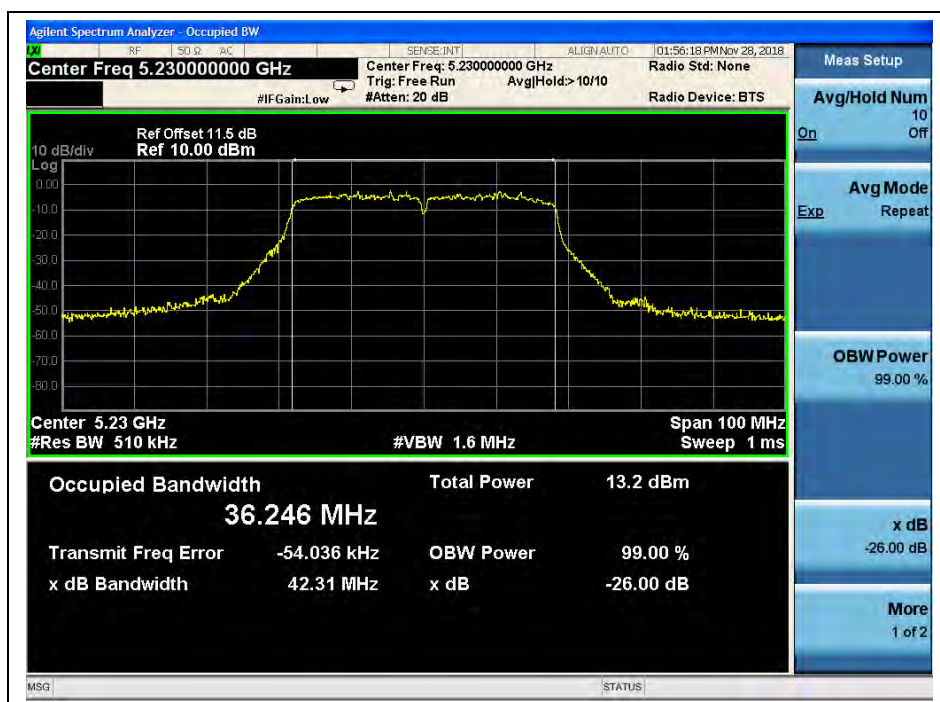
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
38	5190	42.18
46	5230	42.31 Note
54	5270	42.53
62	5310	42.43
102	5510	42.47
126	5630	42.96
142	5710	42.35
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
142	5710	35.09
151	5755	35.44
159	5795	36.03

Note: The high frequency of the -26dB is 5251.00MHz which is in the DFS frequency range, so DFS testing is required. Please refer to DFS report (Report No.: SZ180990337W05).

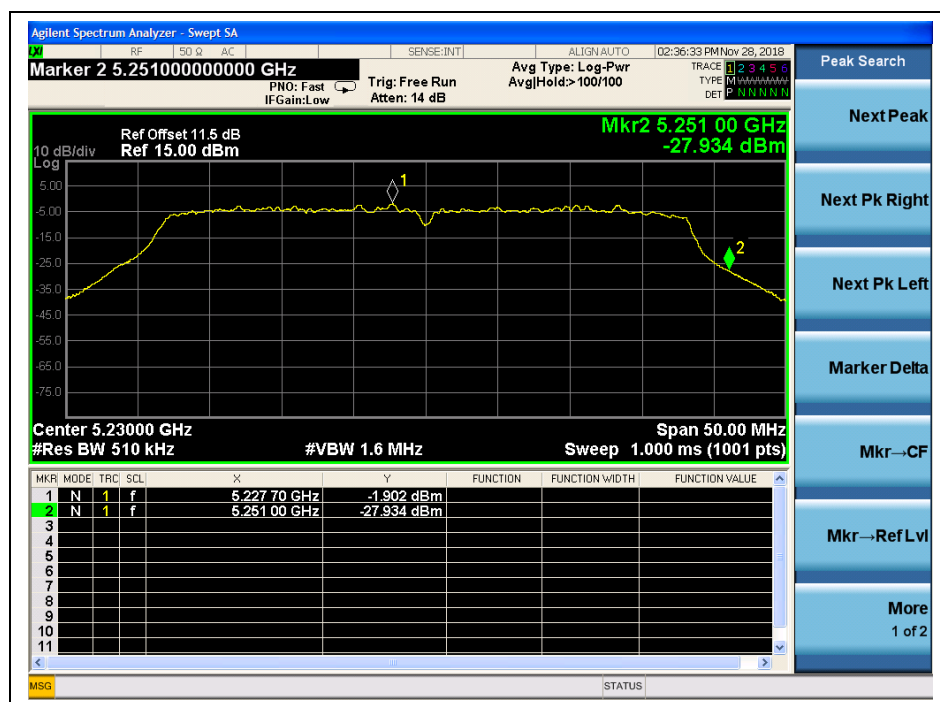
B. Test Plots



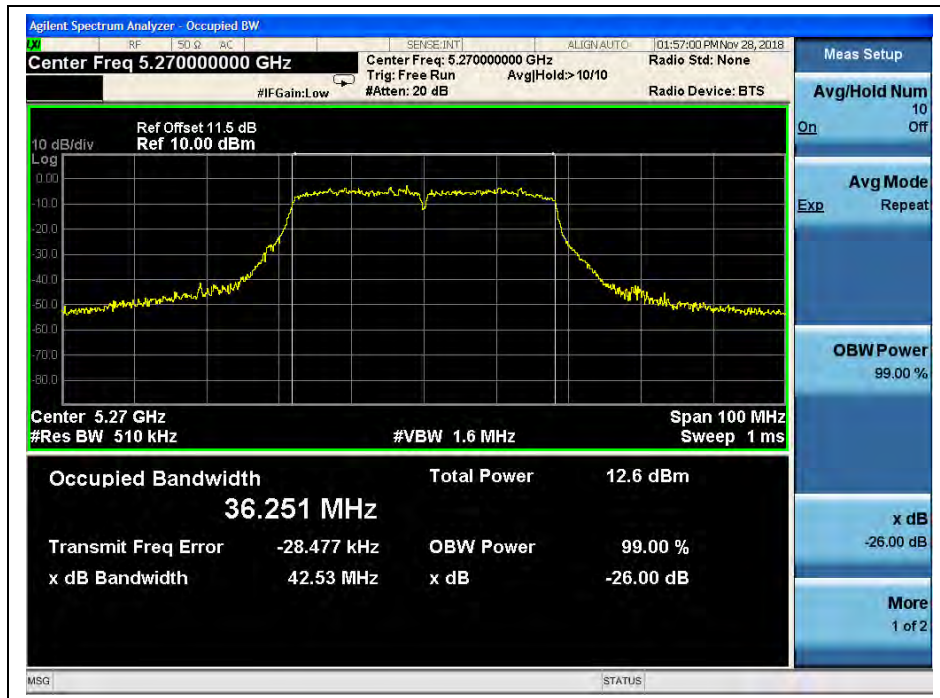
(Channel 38, 5190MHz, 802.11 ac (VHT40))



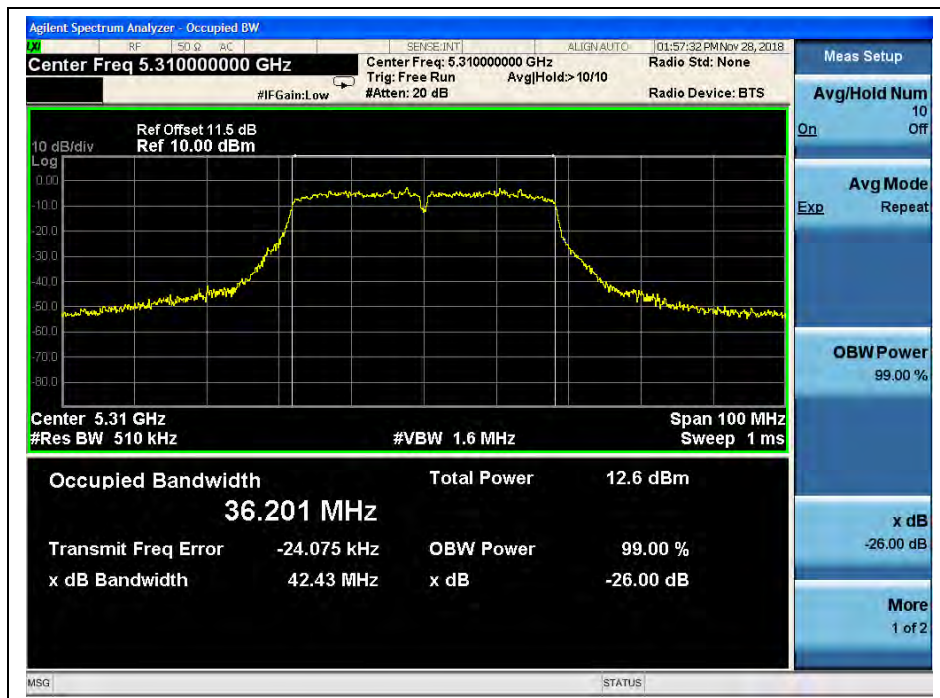
(Channel 46, 5230 MHz, 802.11 ac (VHT40))



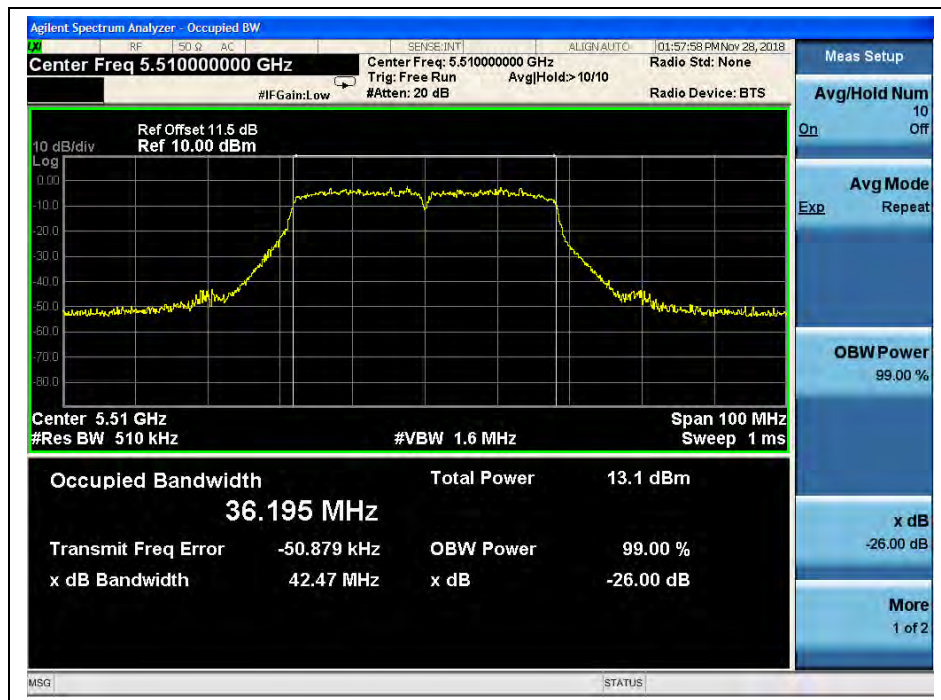
(Channel 46, 5230 MHz, fh of -26dB, 802. ac (VHT40))



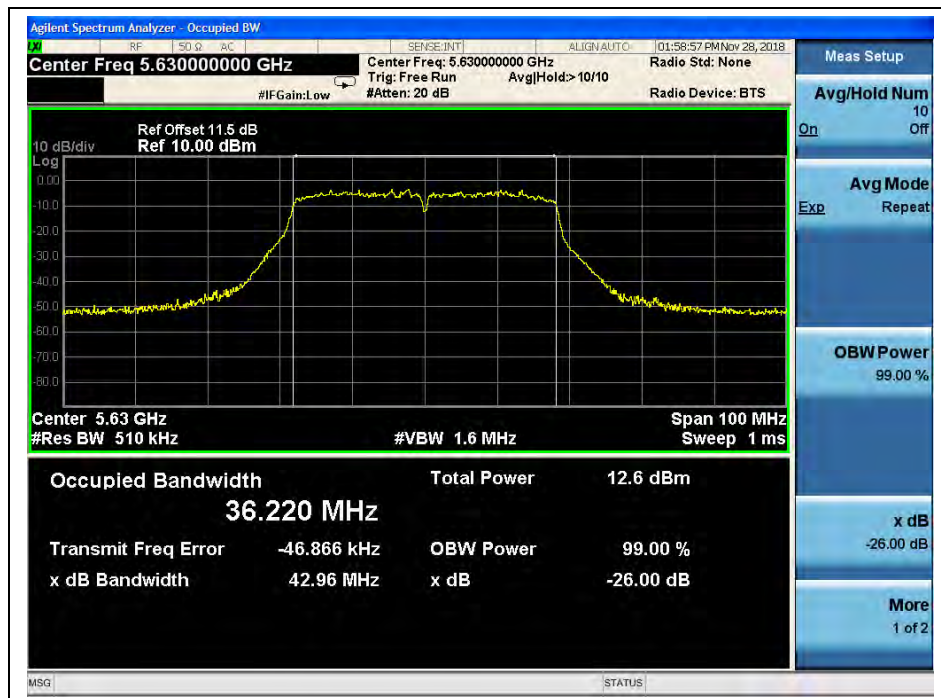
(Channel 54, 5270MHz, 802.11 ac (VHT40))



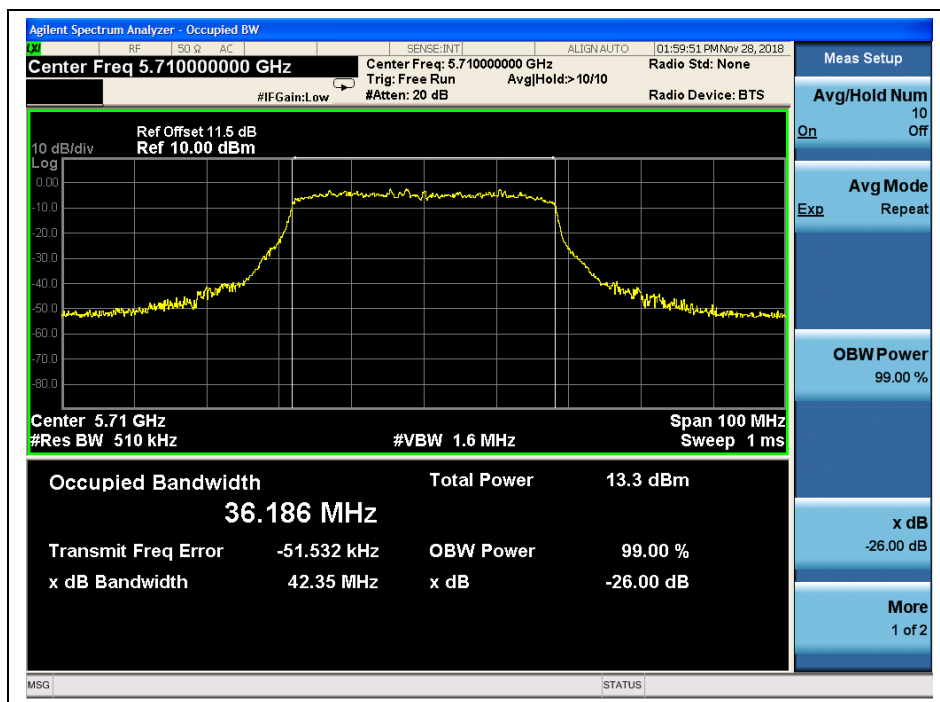
(Channel 62, 5310 MHz, 802.11 ac (VHT40))



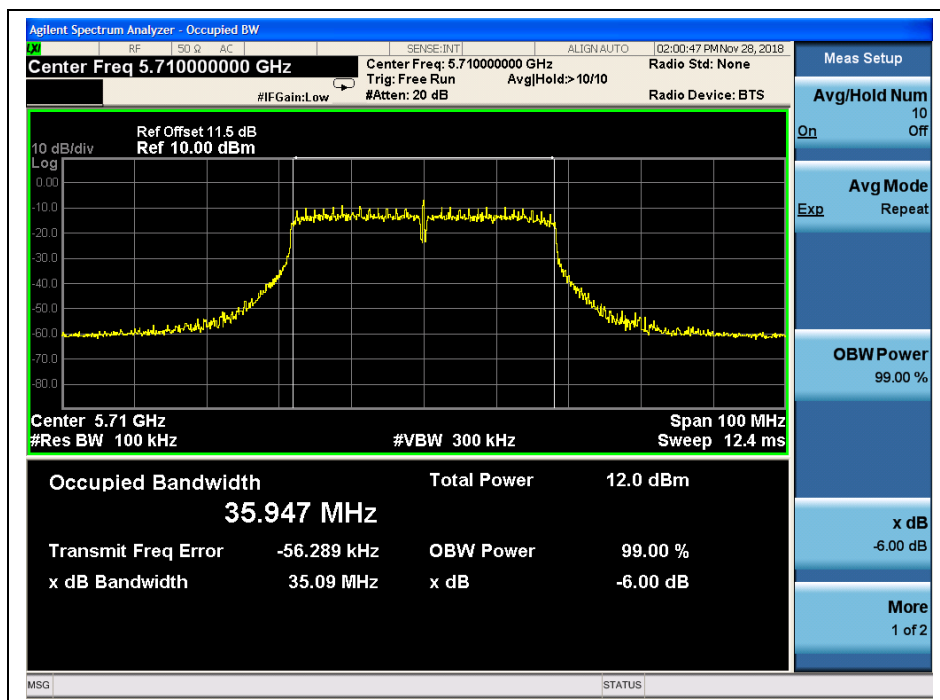
(Channel 102, 5510MHz, 802.11 ac (VHT40))



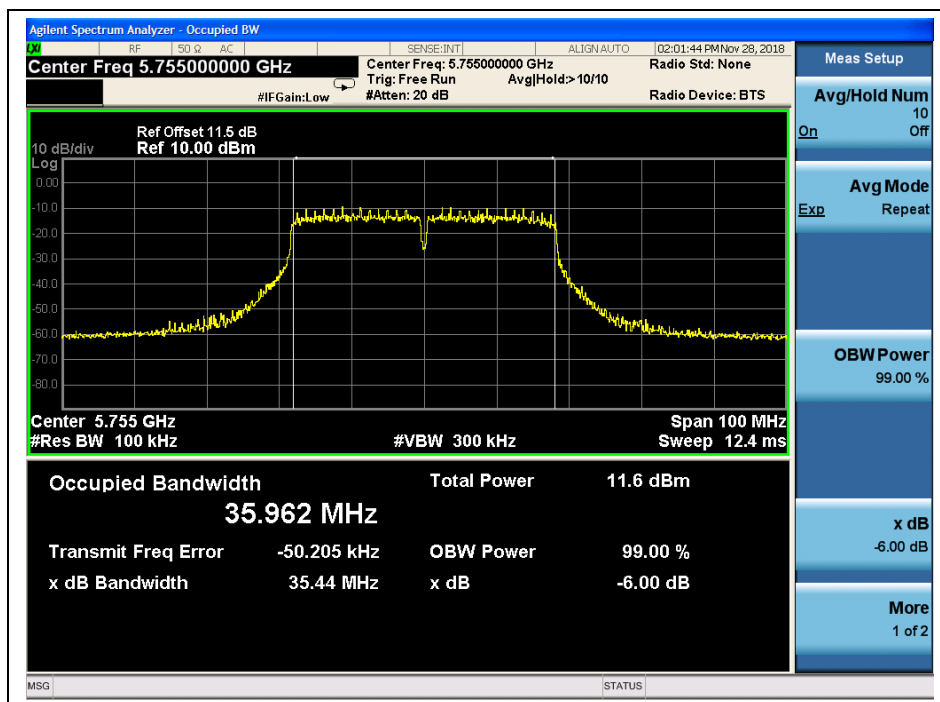
(Channel 126, 5630 MHz, 802.11 ac (VHT40))



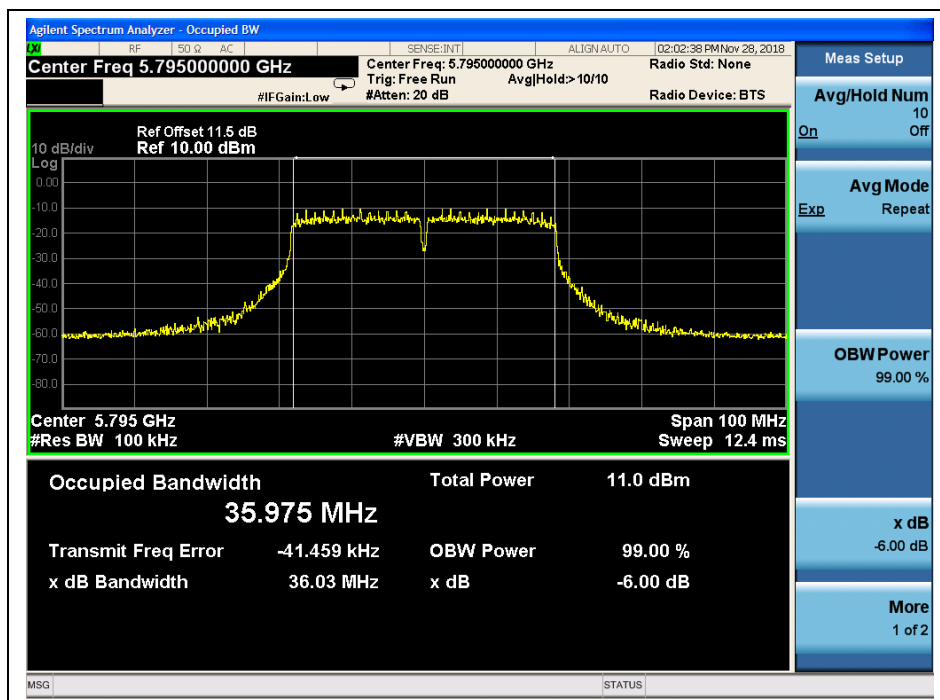
(Channel 142, 5710MHz, 802.11 ac (VHT40))



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



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



(Channel 159, 5795MHz, 802.11ac (VHT40))



802.11ac (VHT80) Test mode

A. Test Verdict:

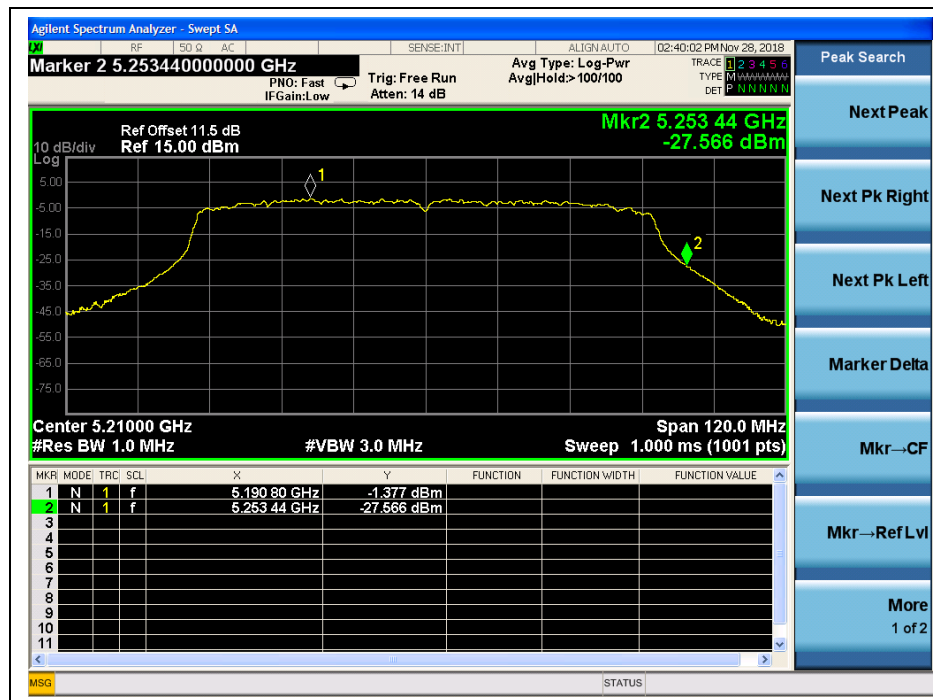
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
42	5210	84.18 Note
58	5290	84.13
106	5530	84.16
122	5610	84.08
138	5690	83.71
Channel	Frequency (MHz)	6dB Bandwidth (MHz)
138	5690	75.06
155	5775	75.09

Note: The high frequency of the -26dB is 5253.44MHz which is in the DFS frequency range, so DFS testing is required. Please refer to DFS report (Report No.: SZ180990337W05).

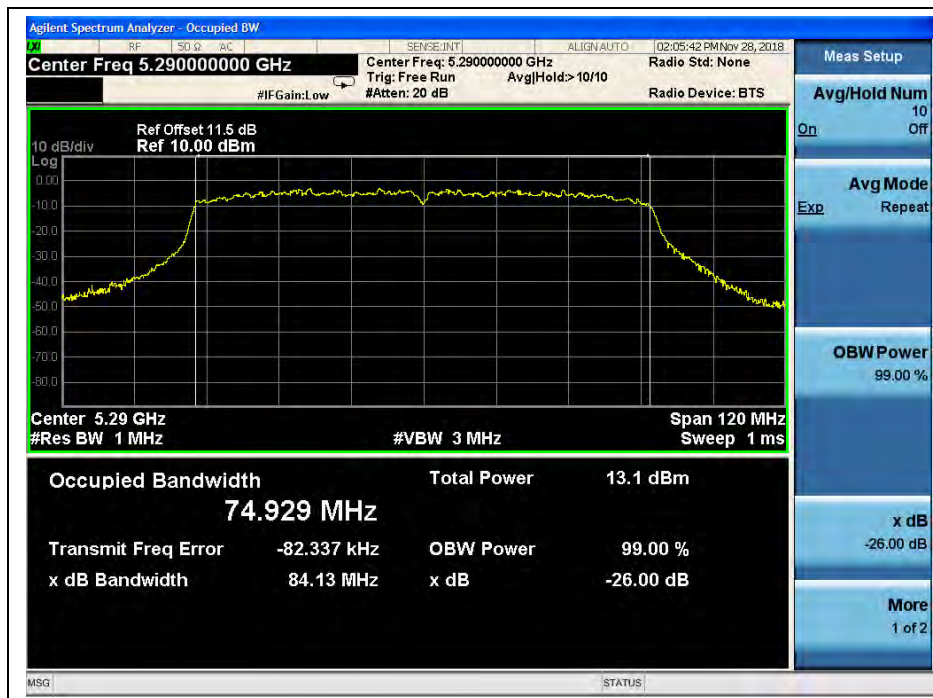
B. Test Plots



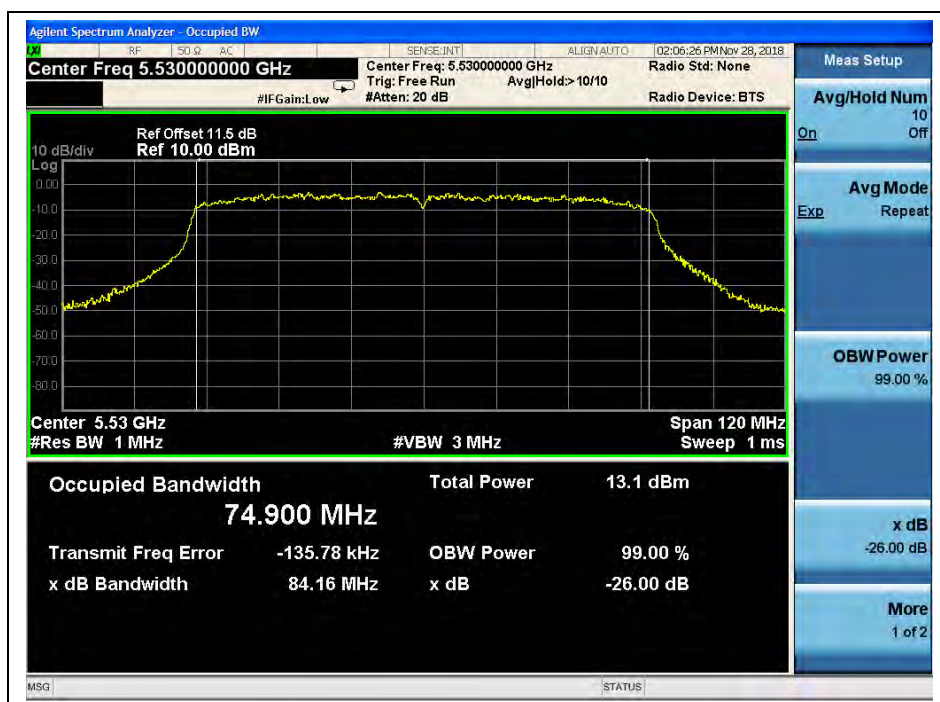
(Channel 42, 5210MHz, 802.11 ac (VHT80))



(Channel 42, 5210 MHz, fh of -26dB, 802. ac (VHT80))



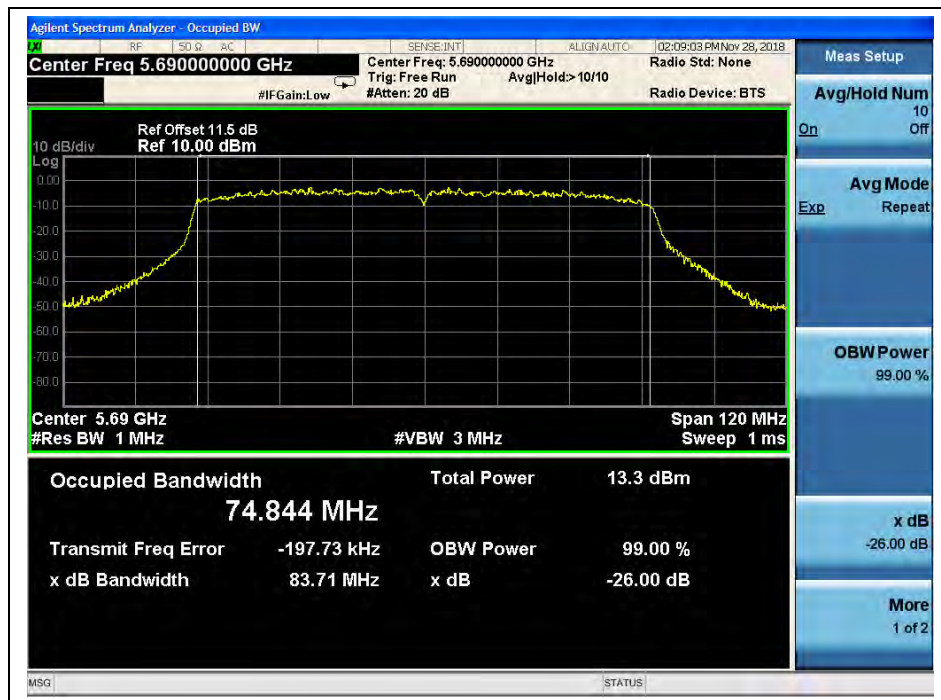
(Channel 58, 5290 MHz, 802.11 ac (VHT80))



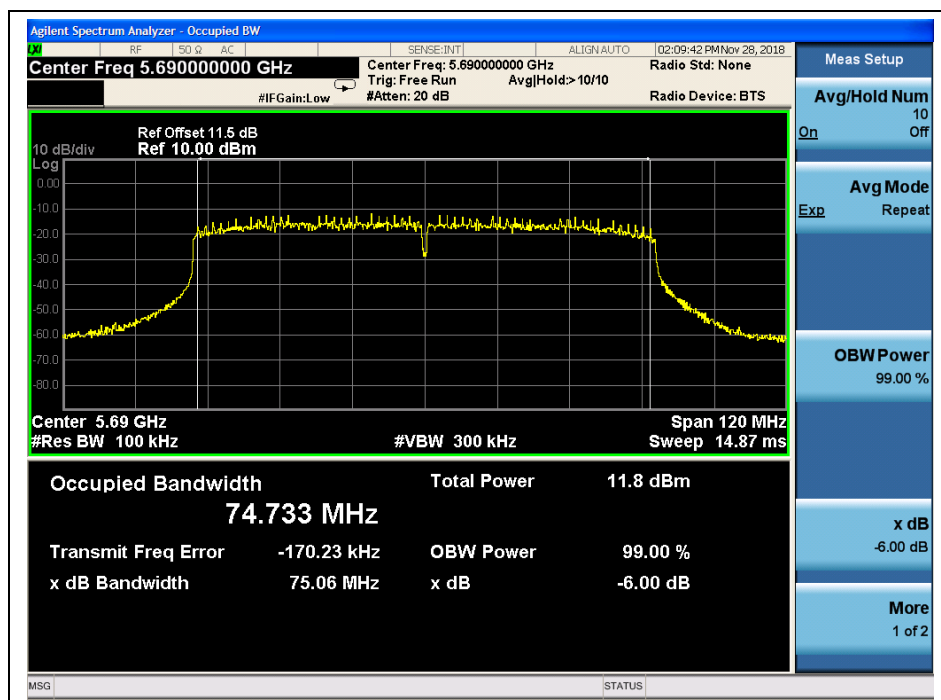
(Channel 106, 5530MHz, 802.11 ac (VHT80))



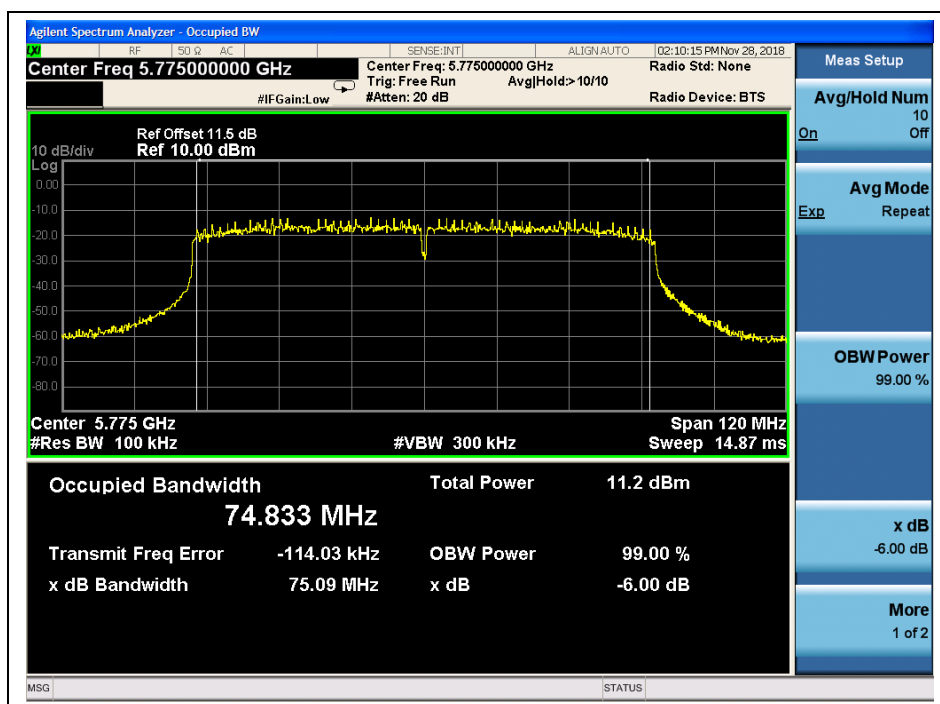
(Channel 122, 5610 MHz, 802.11 ac (VHT80))



(Channel 138, 5690MHz, 802.11 ac (VHT80))



(Channel 138, 5690MHz, 802.11 ac (VHT80))



(Channel 155, 5775 MHz, 802.11 ac (VHT80))

2.4. Maximum conducted output power

2.4.1. 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 250 mW provided the maximum antenna gain does not exceed 6 dBi.

(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 250 mW 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 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

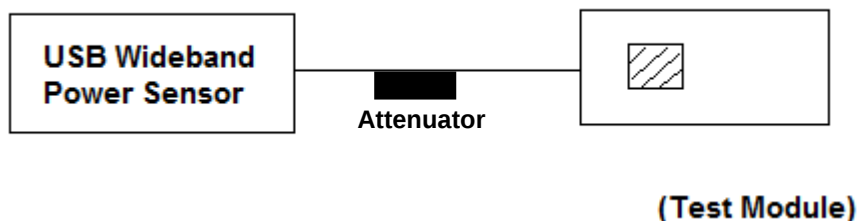
(4) According to KDB662911D01 Measure-and-sum technique, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the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

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

2.4.2. Test Description

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

A. 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.



2.4.3. 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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

Mode	Band	Channel (MHz)	26dB BW (MHz)	$11+10\log(26\text{dB BW})$	Limits (dBm)
a	UNII-2a	5260	22.27	24.48	24.00
		5300	22.02	24.43	24.00
		5320	22.16	24.46	24.00
	UNII-2c	5500	21.93	24.41	24.00
		5600	22.14	24.45	24.00
		5720	22.09	24.44	24.00
n20	UNII-2a	5260	22.69	24.56	24.00
		5300	22.52	24.53	24.00
		5320	22.24	24.47	24.00
	UNII-2c	5500	22.37	24.50	24.00
		5600	22.57	24.54	24.00
		5720	22.38	24.50	24.00
ac20	UNII-2a	5260	22.10	24.44	24.00
		5300	22.03	24.43	24.00
		5320	22.15	24.45	24.00
	UNII-2c	5500	22.12	24.45	24.00
		5600	22.13	24.45	24.00
		5720	22.09	24.44	24.00

**2.4.4. Test Result****802.11a Test mode**

Channel	Frequency (MHz)	Measured Peak Power (dBm)	Limit (dBm)	Verdict
36	5180	18.66	24	PASS
44	5220	18.35		
48	5240	18.22		
52	5260	18.01		
60	5300	17.74		
64	5320	17.86		
100	5500	18.05		
120	5600	17.35		
144	5720	17.59		
149	5745	17.82	30	
157	5785	17.35		
165	5825	16.49		
Channel	Frequency (MHz)	Measured Average Power (dBm)	Limit (dBm)	Verdict
36	5180	7.78	24	PASS
44	5220	7.70		
48	5240	7.56		
52	5260	7.61		
60	5300	7.41		
64	5320	7.56		
100	5500	7.65		
120	5600	7.08		
144	5720	7.14		
149	5745	7.57	30	
157	5785	7.42		
165	5825	6.08		

**802.11n (HT20) Test mode**

Channel	Frequency (MHz)	Measured Peak Power (dBm)	Limit (dBm)	Verdict
36	5180	18.38	24	PASS
44	5220	18.09		
48	5240	18.11		
52	5260	18.10		
60	5300	17.68		
64	5320	18.04		
100	5500	18.48		
120	5600	17.43		
144	5720	17.01		
149	5745	17.7	30	
157	5785	17.24		
165	5825	16.30		
Channel	Frequency (MHz)	Measured Average Power (dBm)	Limit (dBm)	Verdict
36	5180	7.77	24	PASS
44	5220	7.67		
48	5240	7.55		
52	5260	7.58		
60	5300	7.38		
64	5320	7.54		
100	5500	7.83		
120	5600	6.83		
144	5720	6.83		
149	5745	6.79	30	
157	5785	6.48		
165	5825	5.69		

**802.11n (HT40) Test mode**

Channel	Frequency (MHz)	Measured Peak Power (dBm)	Limit (dBm)	Verdict
38	5190	18.12	24	PASS
46	5230	18.07		
54	5270	17.93		
62	5310	17.88		
102	5510	17.81		
126	5630	16.88		
142	5710	17.91		
151	5755	17.88	30	
159	5795	16.85		
Channel	Frequency (MHz)	Measured Average Power (dBm)	Limit (dBm)	Verdict
38	5190	8.12	24	PASS
46	5230	7.90		
54	5270	7.77		
62	5310	7.83		
102	5510	7.87		
126	5630	7.08		
142	5710	8.06		
151	5755	7.90	30	
159	5795	7.03		

**802.11ac (VHT20) Test mode**

Channel	Frequency (MHz)	Measured Peak Power (dBm)	Limit (dBm)	Verdict
36	5180	18.33	24	PASS
44	5220	18.09		
48	5240	17.77		
52	5260	18.14		
60	5300	17.56		
64	5320	17.79		
100	5500	17.85		
120	5600	17.13		
144	5720	17.37		
149	5745	17.69	30	
157	5785	17.2		
165	5825	16.25		
Channel	Frequency (MHz)	Measured Average Power (dBm)	Limit (dBm)	Verdict
36	5180	7.90	24	PASS
44	5220	7.66		
48	5240	7.36		
52	5260	7.54		
60	5300	7.25		
64	5320	7.42		
100	5500	7.45		
120	5600	6.72		
144	5720	6.92		
149	5745	7.42	30	
157	5785	6.93		
165	5825	6.07		