

Emission Bandwidth&99% Occupied Bandwidth

Test

Model

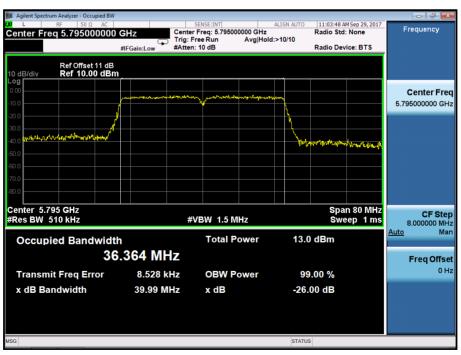
802.11n(VHT40) mode

UNII Band III

Frequency(MHz) 5795

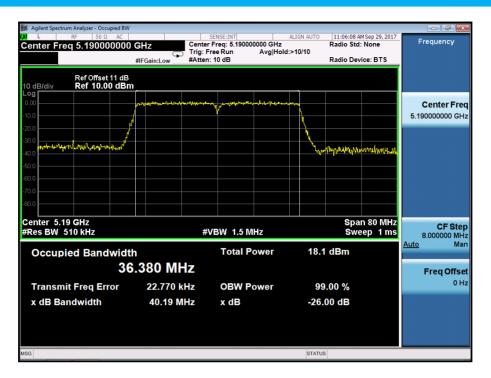
Ant0

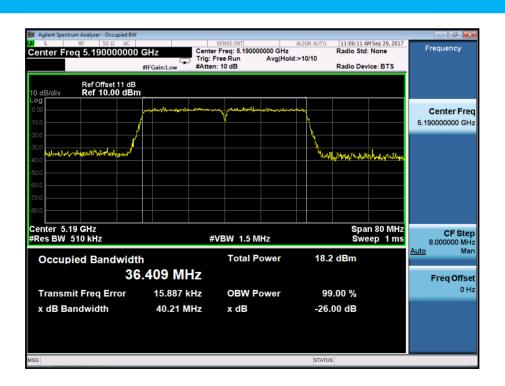






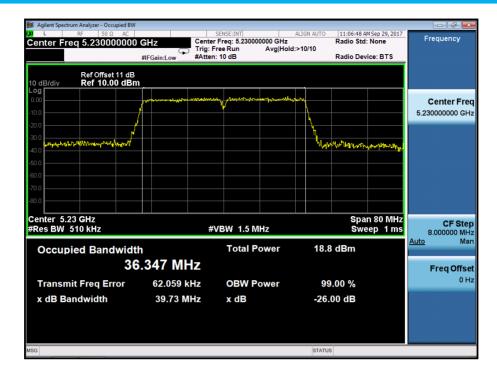
Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5190
Ant0

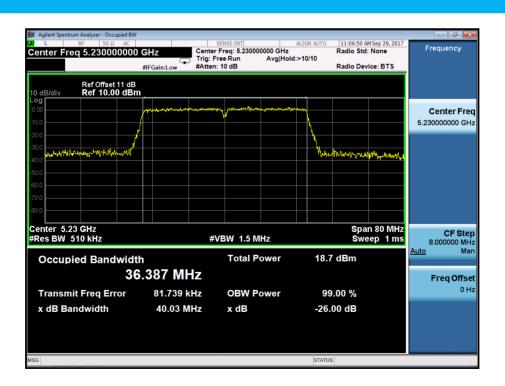






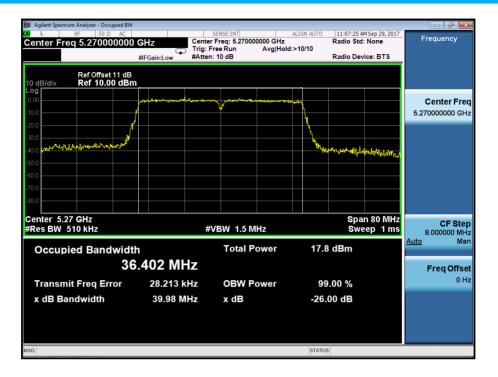
Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5230
Ant0

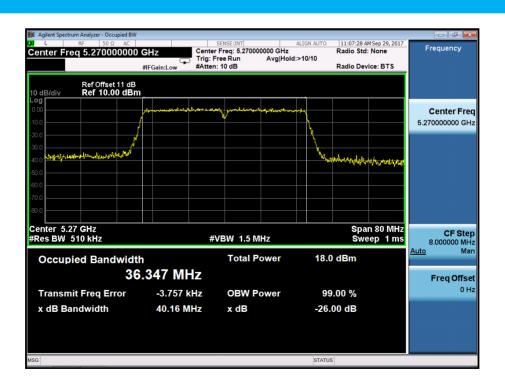






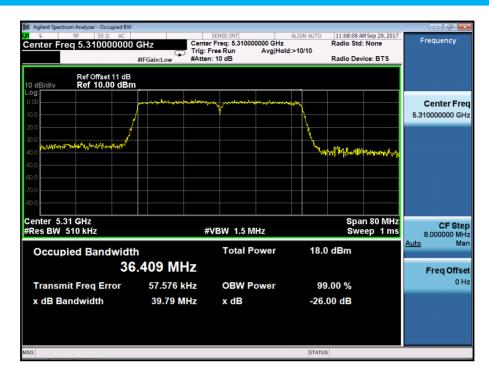
Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5270
Ant0

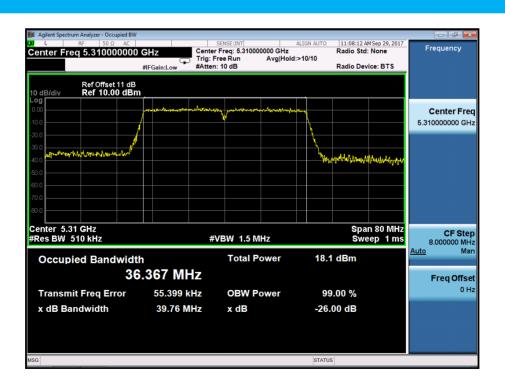






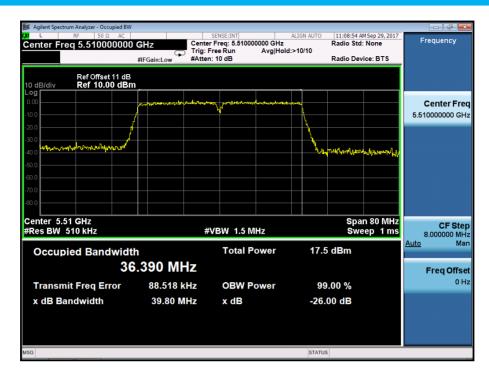
Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5310
Ant0

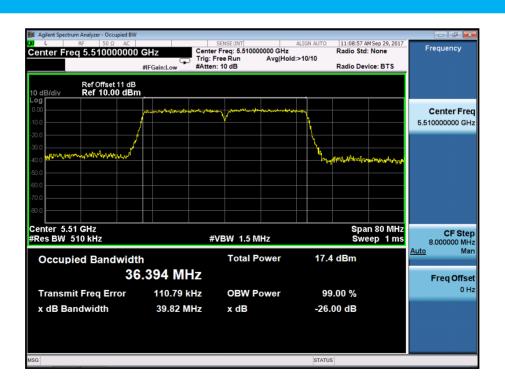






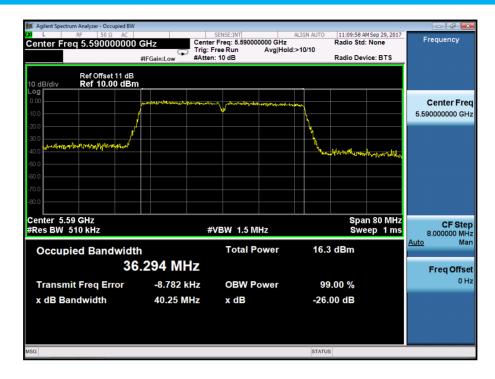
Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5510
Ant0

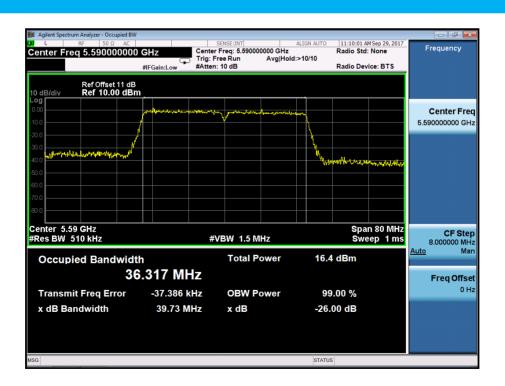






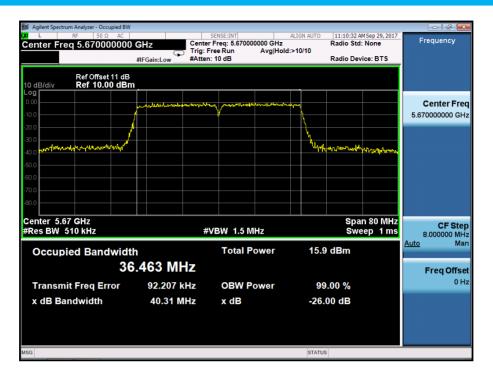
Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5590
Ant0

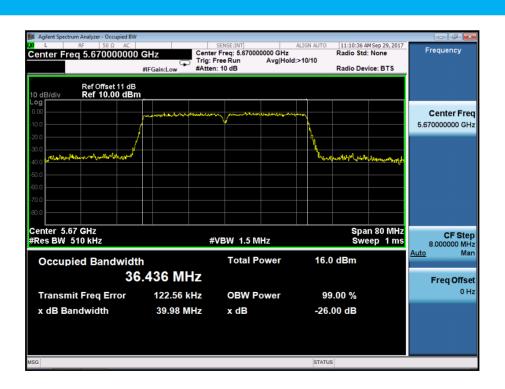






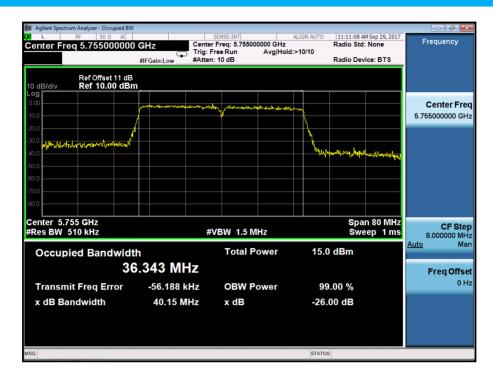
Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5670
Ant0

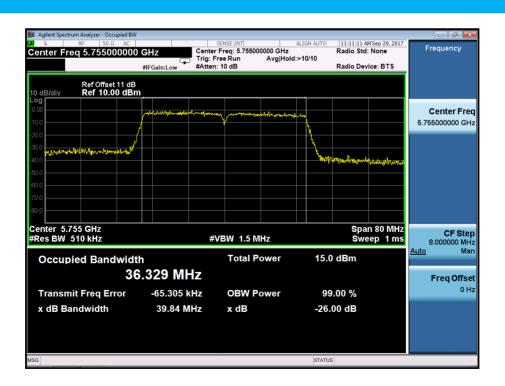






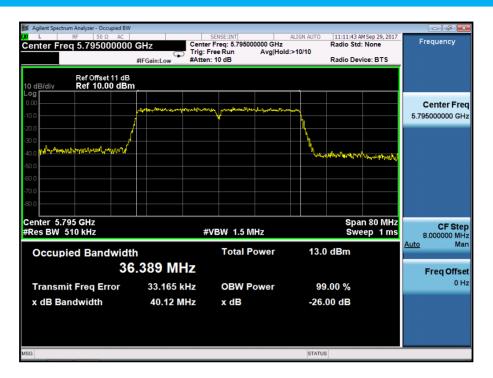
Emission Bandwidth&99% Occupied Bandwidth UNII Band III
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5755
Ant0

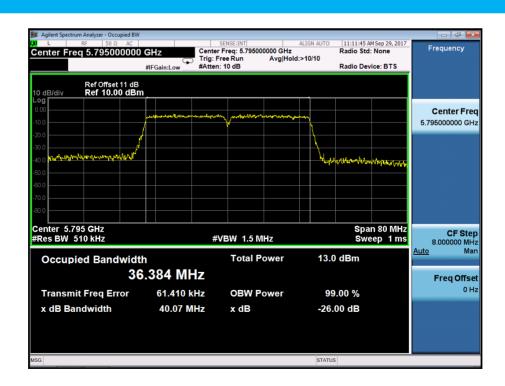






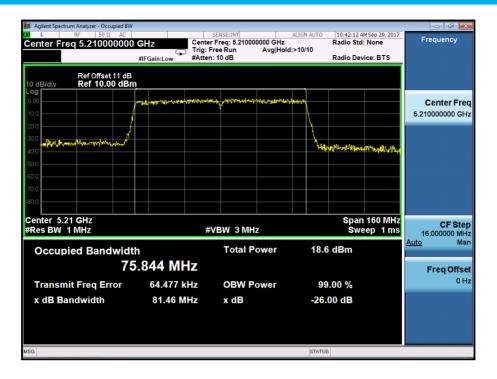
Emission Bandwidth&99% Occupied Bandwidth UNII Band III
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5795
Ant0







Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5210
Ant0

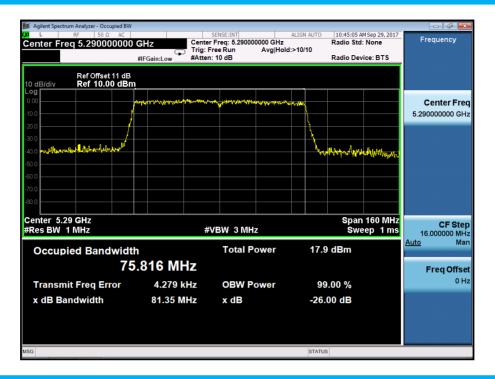


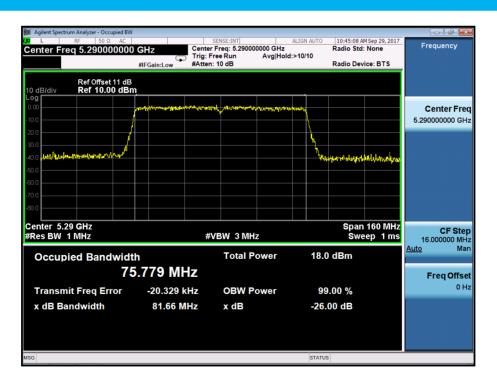
nt1





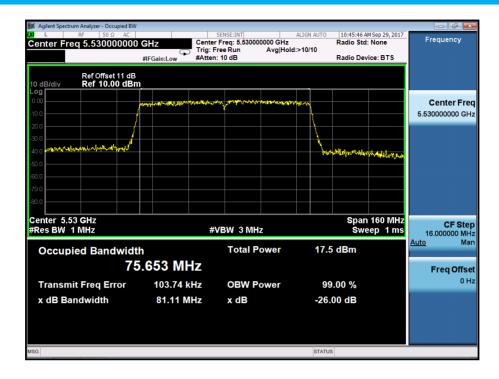
Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5290
Ant0

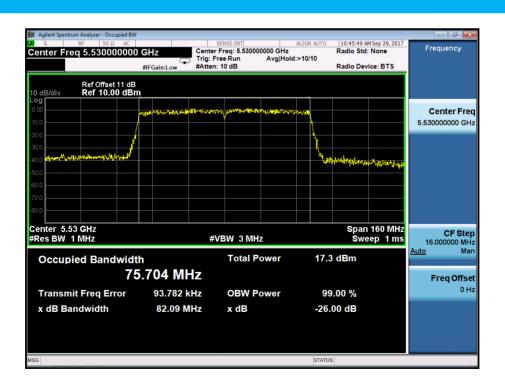






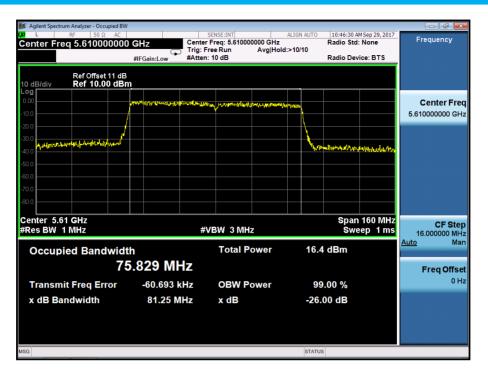
Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5530
Ant0

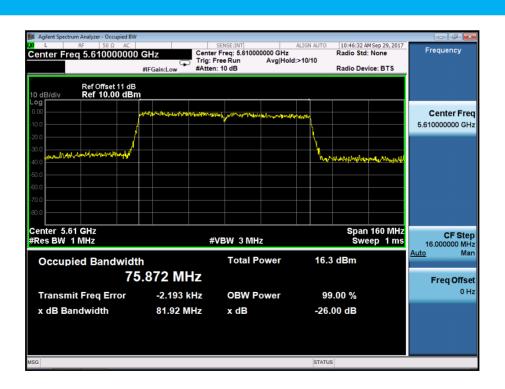






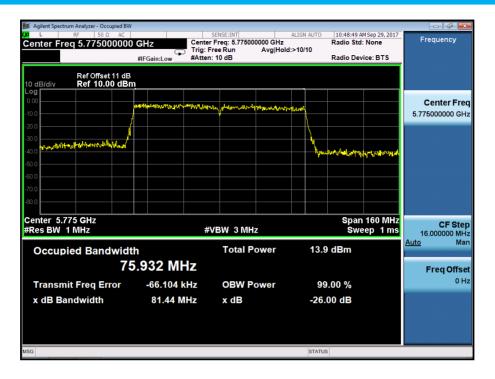
Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5610
Ant0

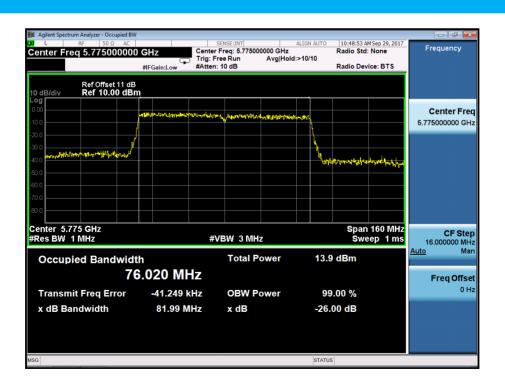






Emission Bandwidth&99% Occupied Bandwidth UNII Band III
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5775
Ant0



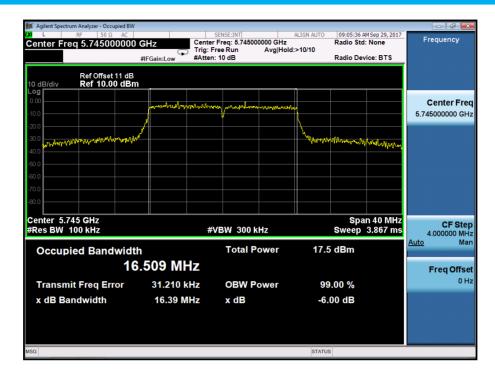


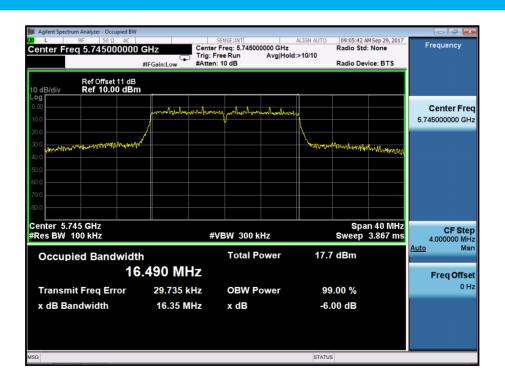


Minimum Emission Bandwidth
Test Model 802.11a mode
Ant0

UNII Band III Frequency(MHz)

5745





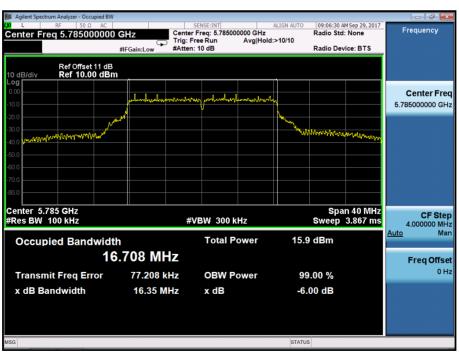


Minimum Emission Bandwidth
Test Model 802.11a mode
Ant0

UNII Band III Frequency(MHz)

5785







Minimum Emission Bandwidth
Test Model 802.11a mode
Ant0

UNII Band III Frequency(MHz)

5825



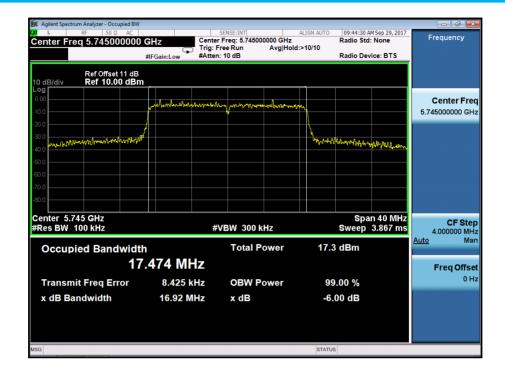


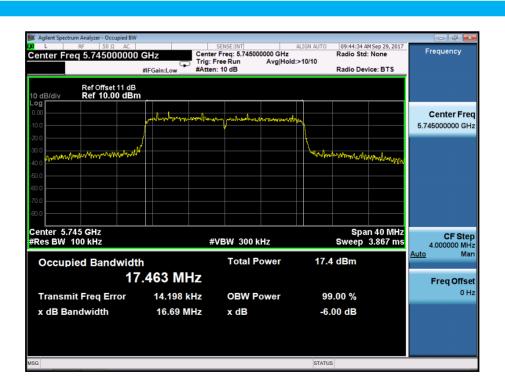


Minimum Emission Bandwidth
Test Model 802.11n(VHT20) mode
Ant0

UNII Band III Frequency(MHz)

5745



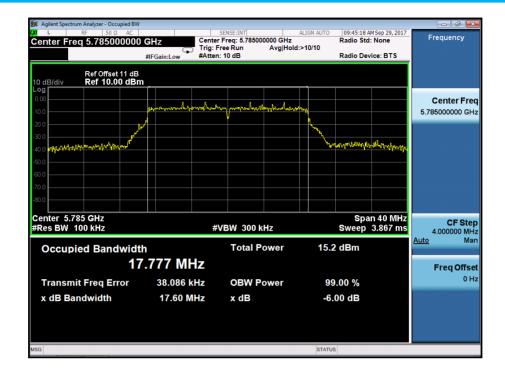


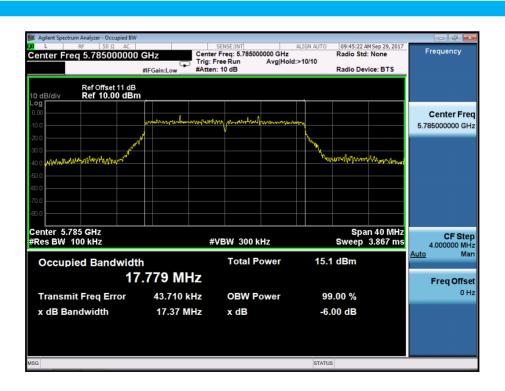


Minimum Emission Bandwidth
Test Model 802.11n(VHT20) mode
Ant0

UNII Band III Frequency(MHz)

5785



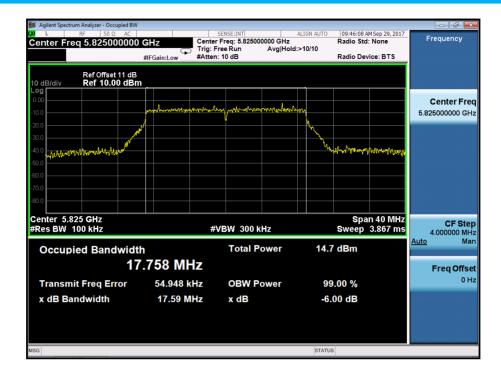


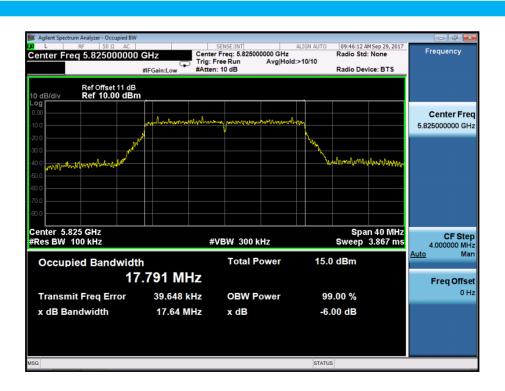


Minimum Emission Bandwidth
Test Model 802.11n(VHT20) mode
Ant0

UNII Band III Frequency(MHz)

5825



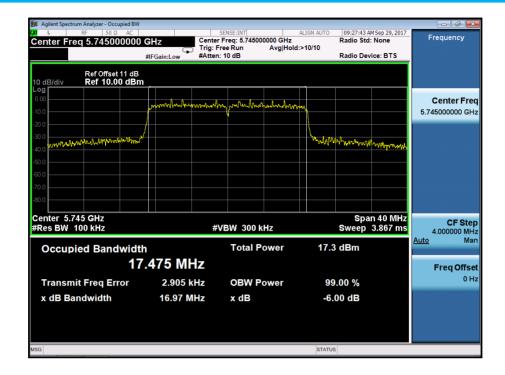


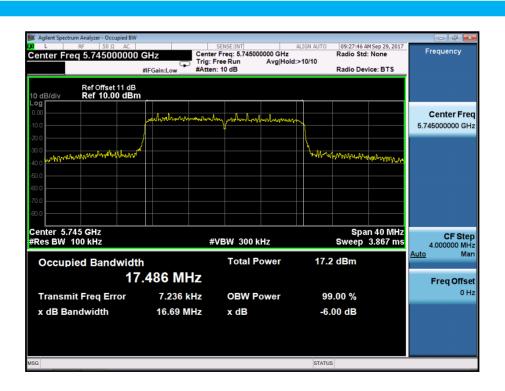


Minimum Emission Bandwidth
Test Model 802.11ac(VHT20) mode
Ant0

UNII Band III Frequency(MHz)

5745



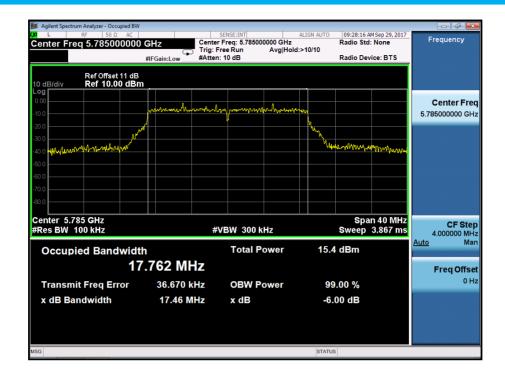


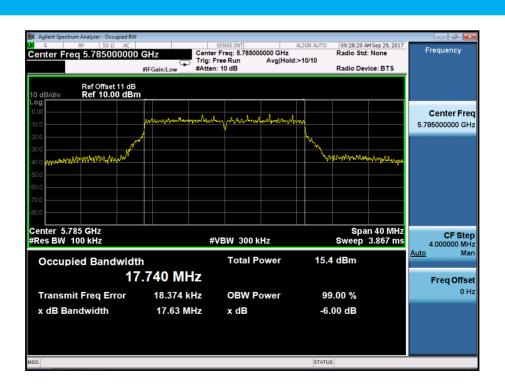


Minimum Emission Bandwidth
Test Model 802.11ac(VHT20) mode
Ant0

UNII Band III Frequency(MHz)

5785



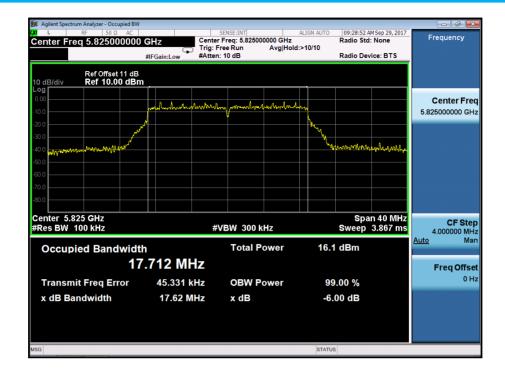


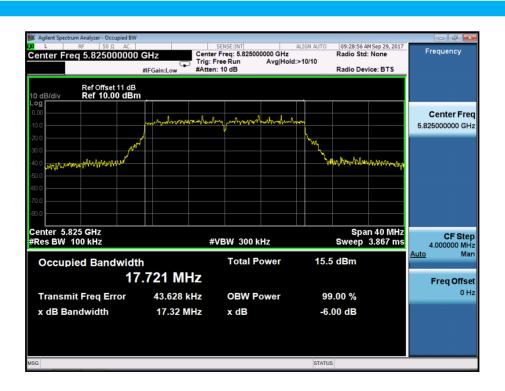


Minimum Emission Bandwidth
Test Model 802.11ac(VHT20) mode
Ant0

UNII Band III Frequency(MHz)

5825



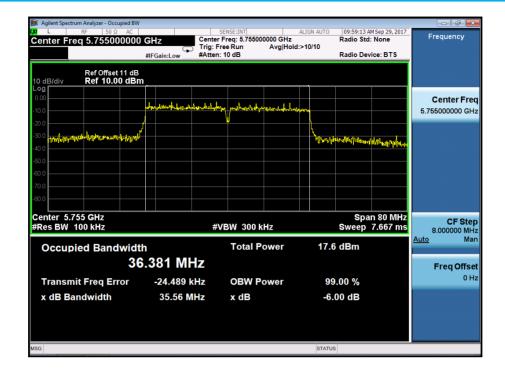


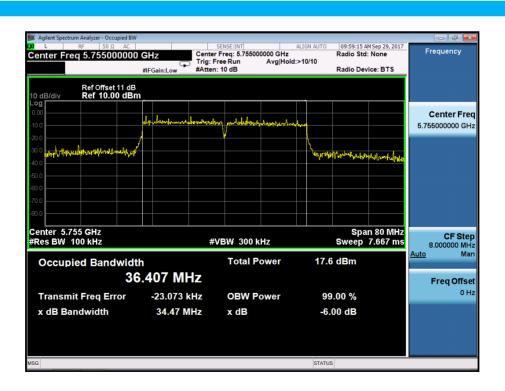


Minimum Emission Bandwidth
Test Model 802.11n(VHT40) mode
Ant0

UNII Band III Frequency(MHz)

5755



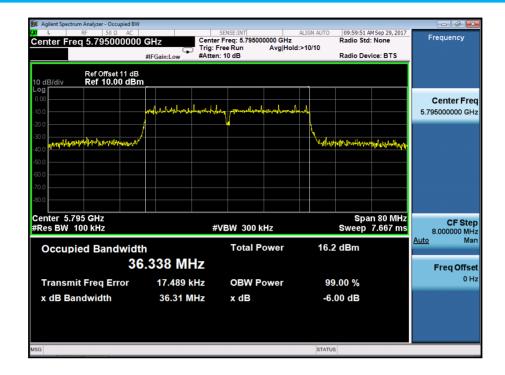


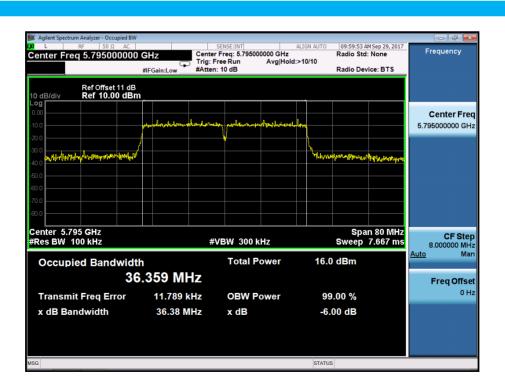


Minimum Emission Bandwidth
Test Model 802.11n(VHT40) mode
Ant0

UNII Band III Frequency(MHz)

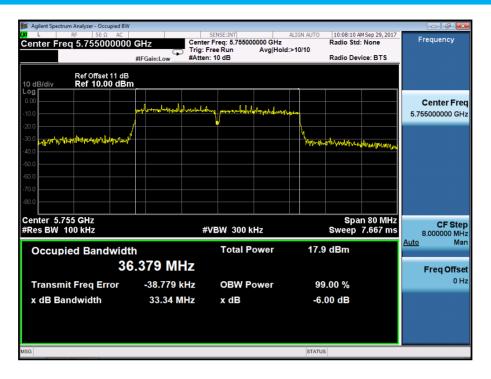
5795







Minimum Emission Bandwidth UNII Band III
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5755
Ant0



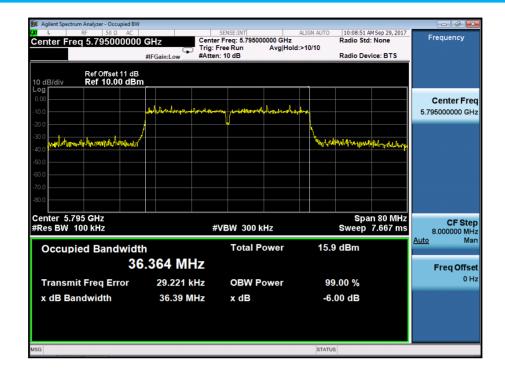


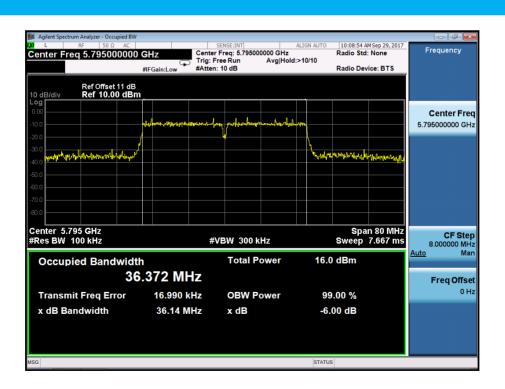


Minimum Emission Bandwidth
Test Model 802.11ac(VHT40) mode
Ant0

UNII Band III Frequency(MHz)

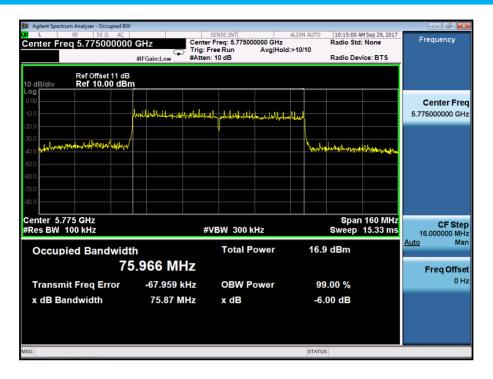
5795

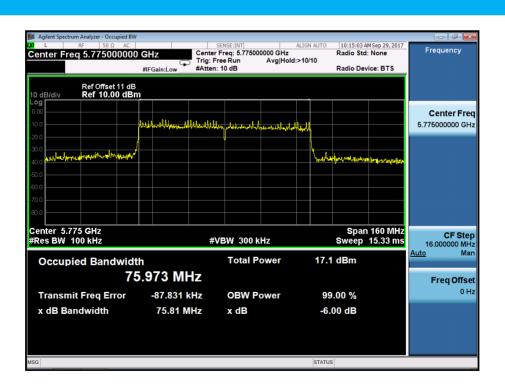






Minimum Emission Bandwidth UNII Band III
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5775
Ant0







8.2 MAXIMUM CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
According to FCC Part 15.407(a)(3) for UNII Band III
According to 789033 D02 Section II(E)

8.2.2 Conformance Limit

■ For the band 5.15-5.25 GHz,

- (a) (1) (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (a) (1) (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (a) (1) (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (a) (1) (iv) For mobile and portable 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. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(a) (2) 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. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (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. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

TRF No.: FCC 15.407/A Page 96 of 219 Report No.: ES170719049E4 Ver.1.0



8.2.4 Test Procedure

Method 1 For Normal Bandwidth 20MHz, 40MHz

The maximum average conducted output power can be measured using Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

- a. The Transmitter output (antenna port) was connected to the power meter.
- b. Turn on the EUT and power meter and then record the power value.
- c. Repeat above procedures on all channels needed to be tested.

Method 2 For Normal Bandwidth 80MHz

Measurement of maximum conducted output power using a spectrum analyzer (Method SA-1 from KDB 789033)

- a. Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- b. Set RBW = 1 MHz.
- c. Set VBW \geq 3 MHz.
- d. Number of points in sweep $\ge 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\le \text{RBW/2}$, so that narrowband signals are not lost between frequency bins.)
- e. Sweep time = auto.
- f. Detector = power averaging (rms)
- g. Trace average at least 100 traces in power averaging (rms) mode.
- h. Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

TRF No.: FCC 15.407/A Page 97 of 219 Report No.: ES170719049E4 Ver.1.0



8.2.5 Test Results

Temperature : 28℃ Test By: King Kong

Humidity: 65 %

Band	Channel	Channel	Conducted Output Power(dBm)		Limit	Verdict
	Number	Freq. (MHz)	Ant0	Ant1	(dBm)	verdict
UNII	CH36	5180	13.45	13.44	22.46	Pass
Band I	CH40	5200	13.29	13.64	22.46	Pass
Danu i	CH48	5240	13.19	13.40	22.46	Pass
UNII	CH52	5260	13.26	13.30	22.46	Pass
Band II-A	CH56	5280	13.46	13.34	22.46	Pass
Band II-A	CH64	5320	13.21	13.39	22.46	Pass
UNII	CH100	5500	13.42	13.25	22.46	Pass
Band II-C	CH120	5600	13.29	13.47	22.46	Pass
Danu II-C	CH140	5700	13.52	13.45	22.46	Pass
LINIII	CH149	5745	12.17	12.02	28.46	Pass
UNII Band III	CH157	5785	12.13	12.10	28.46	Pass
	CH165	5825	12.03	12.26	28.46	Pass
Note:						

N/A (Not Applicable)

Temperature: 28°C Test By: King Kong

Humidity: 65 %

Band	Channel	Channel	Condu	Conducted Output Power(dBm)			Verdict
	Number	Freq. (MHz)	Ant0	Ant1	Ant0+Ant1	(dBm)	verdict
LINIII	CH36	5180	12.07	12.00	15.05	22.46	Pass
UNII Band I	CH40	5200	11.85	11.81	14.84	22.46	Pass
Danu i	CH48	5240	12.16	11.96	15.07	22.46	Pass
UNII Band II-A	CH52	5260	11.85	11.79	14.83	22.46	Pass
	CH56	5280	12.00	12.11	15.07	22.46	Pass
	CH64	5320	12.00	12.17	15.09	22.46	Pass
UNII Band II-C	CH100	5500	12.30	11.82	15.08	22.46	Pass
	CH120	5600	12.12	12.18	15.16	22.46	Pass
	CH140	5700	12.26	12.11	15.20	22.46	Pass
UNII - Band III -	CH149	5745	11.71	11.39	14.57	28.46	Pass
	CH157	5785	11.46	11.42	14.45	28.46	Pass
	CH165	5825	11.72	11.35	14.55	28.46	Pass



Temperature : 28℃ Test By: King Kong

Humidity: 65 %

Band	Channel	Channel	Conducted Output Power(dBm)			Limit	\/ordiot
	Number	Freq. (MHz)	Ant0	Ant1	Ant0+Ant1	(dBm)	Verdict
UNII	CH36	5180	12.10	11.99	15.06	22.46	Pass
Band I	CH40	5200	11.85	12.08	14.98	22.46	Pass
Danu i	CH48	5240	11.89	12.17	15.04	22.46	Pass
UNII Band II-A	CH52	5260	12.21	12.06	15.15	22.46	Pass
	CH56	5280	12.16	12.19	15.18	22.46	Pass
	CH64	5320	12.08	11.88	14.99	22.46	Pass
UNII Band II-C	CH100	5500	12.03	12.16	15.11	22.46	Pass
	CH120	5600	12.09	11.88	14.99	22.46	Pass
Bariu II-C	CH140	5700	11.99	12.05	15.03	22.46	Pass
UNII Band III	CH149	5745	11.43	11.63	14.54	28.46	Pass
	CH157	5785	11.84	11.56	14.71	28.46	Pass
	CH165	5825	11.75	11.62	14.69	28.46	Pass

Temperature: 28°C Test By: King Kong

Humidity: 65 %

Band	Channel	Channel	Conducted Output Power(dBm)			Limit	Verdict
	Number	Freq. (MHz)	Ant0	Ant1	Ant0+Ant1	(dBm)	verdict
UNII	CH38	5190	12.06	11.94	15.01	22.46	Pass
Band I	CH46	5230	12.23	12.22	15.23	22.46	Pass
UNII	CH54	5270	12.19	12.12	15.17	22.46	Pass
Band II-A	CH62	5310	12.10	11.97	15.05	22.46	Pass
UNII	CH102	5510	11.95	11.90	14.94	22.46	Pass
Band II-C	CH118	5590	12.08	11.88	14.99	22.46	Pass
Dariu II-C	CH134	5670	12.00	11.91	14.97	22.46	Pass
UNII	CH151	5755	11.44	11.70	14.59	28.46	Pass
Band III	CH159	5795	11.57	11.58	14.59	28.46	Pass

⊠ 802.11ac(VHT40) mode

Temperature : 28°C Test By: King Kong

Humidity: 65 %

Band	Channel	Channel	Condu	cted Output F	Limit	Verdict	
	Number	Freq. (MHz)	Ant0	Ant1	Ant0+Ant1	(MHz)	verdict
UNII	CH38	5190	12.05	12.01	15.04	22.46	Pass
Band I	CH46	5230	12.24	12.12	15.19	22.46	Pass
UNII	CH54	5270	12.17	12.11	15.15	22.46	Pass
Band II-A	CH62	5310	12.12	11.78	14.96	22.46	Pass
UNII	CH102	5510	11.93	11.94	14.95	22.46	Pass
Band II-C	CH118	5590	12.08	12.17	15.14	22.46	Pass
Dallu II-C	CH134	5670	12.00	11.84	14.93	22.46	Pass
UNII	CH151	5755	11.44	11.60	14.53	28.46	Pass
Band III	CH159	5795	11.58	11.47	14.53	28.46	Pass

TRF No.: FCC 15.407/A Page 99 of 219 Report No.: ES170719049E4 Ver.1.0

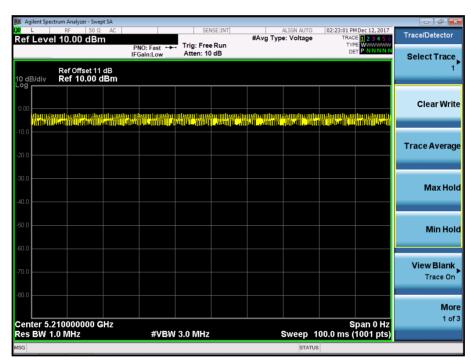


Temperature: 28°C Test By: King Kong

Humidity: 65 %

Band	Channel	Channel	Conduc	Conducted Output Power(dBm)			Verdict
	Number	Freq. (MHz)	Ant0	Ant1	Ant0+Ant1	(dBm)	verdict
UNII Band I	CH42	5210	11.47	11.69	14.59	22.46	Pass
UNII Band II-A	CH58	5290	11.95	11.73	14.85	22.46	Pass
UNII	CH106	5530	11.65	11.54	14.61	22.46	Pass
Band II-C	CH122	5610	12.38	12.36	15.38	22.46	Pass
UNII Band III	CH155	5775	11.31	11.24	14.29	28.46	Pass

Duty cycle=100%



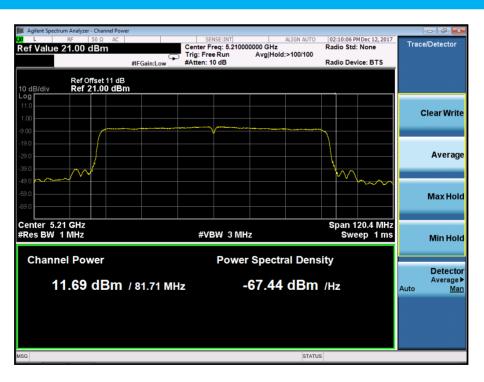


MAXIMUM CONDUCTED OUTPUT POWER
Test Model 802.11ac(VHT80) mode
Ant0

UNII Band I Frequency(MHz)

5210





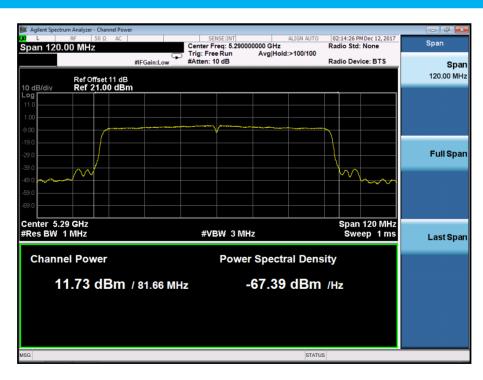


MAXIMUM CONDUCTED OUTPUT POWER
Test Model 802.11ac(VHT80) mode
Ant0

UNII Band II-A Frequency(MHz)

5290



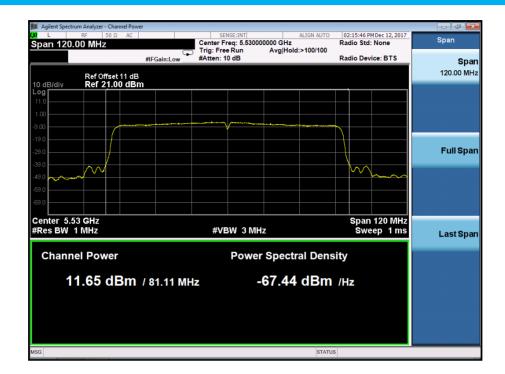


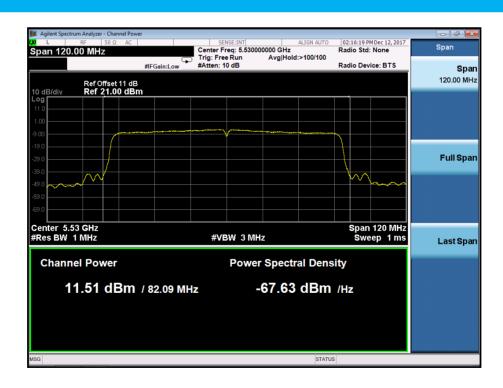


MAXIMUM CONDUCTED OUTPUT POWER
Test Model 802.11ac(VHT80) mode
Ant0

UNII Band II-C Frequency(MHz)

5530



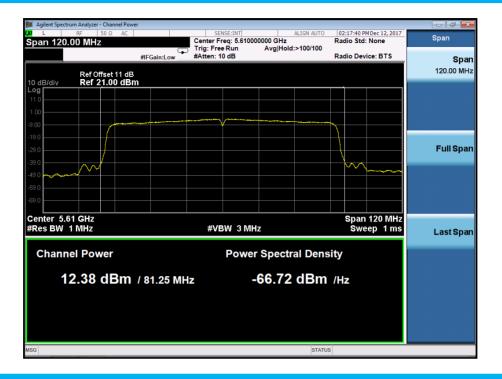


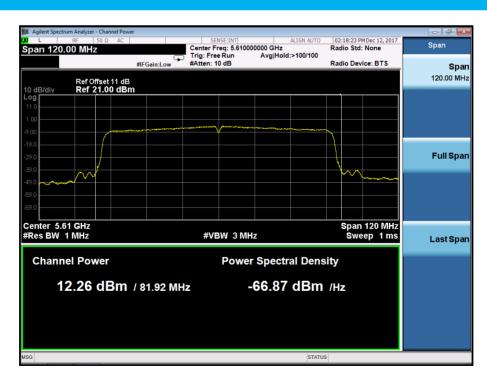


MAXIMUM CONDUCTED OUTPUT POWER
Test Model 802.11ac(VHT80) mode
Ant0

UNII Band II-C Frequency(MHz)

5610





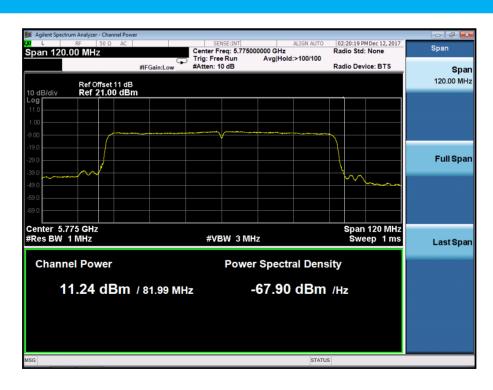


MAXIMUM CONDUCTED OUTPUT POWER
Test Model 802.11ac(VHT80) mode
Ant0

UNII Band III Frequency(MHz)

5775







8.3 MAXIMUM PEAK POWER DENSITY

8.3.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
According to FCC Part 15.407(a)(3) for UNII Band III
According to 789033 D02 Section II(F)

8.3.2 Conformance Limit

■ For the band 5.15-5.25 GHz,

- (a) (1) (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (a) (1) (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (a) (1) (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (a) (1) (iv) For mobile and portable 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. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(b) (2) 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. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(a) (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. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.3.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.3.4 Test Procedure

Methods refer to FCC KDB 789033

TRF No.: FCC 15.407/A Page 106 of 219 Report No.: ES170719049E4 Ver.1.0



- 1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...".
- 2) Use the peak search function on the instrument to find the peak of the spectrum.
- 3) The result is the PPSD.
- 4) The above procedures make use of 500kHz resolution bandwidth to satisfy the 500kHz measurement bandwidth specified in the 15.407(a)(5). That rule section also permits use of resolution bandwidths less than 1 MHz "provided that the measured power is integrated to show the total power over the measurement bandwidth" (i.e., 1 MHz). If measurements are performed using a reduced resolution bandwidth and integrated over 500kHz bandwidth

Note: As a practical matter, it is recommended to use reduced RBW of 500 kHz for the sections 5.c) and 5.d) above, since RBW=500 kHz is available on nearly all spectrum analyzers.

TRF No.: FCC 15.407/A Page 107 of 219 Report No.: ES170719049E4 Ver.1.0



8.3.5 Test Results

Test By: Temperature: King Kong 28℃

Humidity: 65 %

Band	Channel	Channel	Power Spec	tral Density	Limit	Verdict
	Number	Freq. (MHz)	Ant0	Ant1	LIIIII	verdict
UNII Band I	CH36	5180	-1.514	-1.258	≤9.46dBm/1MHz	Pass
	CH40	5200	-2.112	-2.367	≤9.46dBm/1MH	Pass
Danu i	CH48	5240	-1.568	-2.125	≤9.46dBm/1MHz	Pass
LINIII	CH52	5260	-2.337	-2.291	≤9.46dBm/1MH	Pass
UNII Band II-A	CH56	5280	-2.124	2.768	≤9.46dBm/1MHz	Pass
Dallu II-A	CH64	5320	-2.586	-2.644	≤9.46dBm/1MH	Pass
1.18.111	CH100	5500	-3.158	-2.982	≤9.46dBm/1MHz	Pass
UNII Band II-C	CH120	5600	-3.455	-3.687	≤9.46dBm/1MH	Pass
Ballu II-C	CH140	5700	req. (MHz) Ant0 Ant1 Limit 5180 -1.514 -1.258 ≤9.46dBm/1MHz 5200 -2.112 -2.367 ≤9.46dBm/1MH 5240 -1.568 -2.125 ≤9.46dBm/1MHz 5260 -2.337 -2.291 ≤9.46dBm/1MH 5280 -2.124 2.768 ≤9.46dBm/1MHz 5320 -2.586 -2.644 ≤9.46dBm/1MH 5500 -3.158 -2.982 ≤9.46dBm/1MHz 5600 -3.455 -3.687 ≤9.46dBm/1MHz 5700 -3.68 -3.709 ≤9.46dBm/1MHz 5745 -5.221 -5.433 ≤28.46dBm/500K Hz 5785 -8.24 -8.513 ≤28.46dBm/500K Hz	Pass		
	CH149	5745	-5.221	-5.433	≤28.46dBm/500K Hz	Pass
UNII Band III	CH157	5785	-8.24	-8.513	≤28.46dBm/500K Hz	Pass
	CH165	5825	-8.169	-8.398	≤28.46dBm/500K Hz	Pass
Note:					•	•

N/A (Not Applicable)

Temperature: Test By: King Kong 28℃

Humidity: 65 %

Band	Channel	Channel	Pow	er Spectra	al Density	Limit	Verdict
	Number	Freq. (MHz)	Ant0	Ant1	Ant0+Ant1	LIIIIII	
UNII	CH36	5180	-1.191	-1.214	1.808	≤9.46dBm/1MHz	Pass
Band I	CH40	5200	-1.668	-1.647	1.353	≤9.46dBm/1MH	Pass
Danu i	CH48	5240	-2.012	-1.639	1.189	≤9.46dBm/1MHz	Pass
UNII	CH52	5260	-2.485	-2.17	0.686	≤9.46dBm/1MH	Pass
Band II-A	CH56	5280	-2.399	-2.273	0.675	≤9.46dBm/1MHz	Pass
Ballu II-A	CH64	5320	-2.523	-2.394	0.552	≤9.46dBm/1MH	Pass
UNII	CH100	5500	-3.122	-3.482	-0.288	≤9.46dBm/1MHz	Pass
Band II-C	CH120	5600	-3.267	-3.221	-0.234	≤9.46dBm/1MH	Pass
Danu II-C	CH140	5700	-3.27	-3.435	-0.341	≤9.46dBm/1MHz	Pass
	CH149	5745	-3.868	-3.509	-0.674	≤28.46dBm/500K Hz	Pass
UNII Band III	CH157	5785	-6.063	-6.089	-3.066	≤28.46dBm/500K Hz	Pass
	CH165	5825	-5.921	-6.528	-3.204	≤28.46dBm/500K Hz	Pass



802.11ac(VHT20) mode Test By: King Kong Temperature: 28℃

Humidity: 65 %

Band	Channel	Channel	Powe	er Spectra	Density	Limit	Verdict
	Number	Freq. (MHz)	Ant0	Ant1	Ant0+Ant1	LIIIIII	
LINIII	CH36	5180	-1.927	-2.117	0.989	≤9.46dBm/1MHz	Pass
UNII Band I	CH40	5200	-2.402	-2.254	0.683	≤9.46dBm/1MH	Pass
Danu i	CH48	5240	-1.918	-2.562	0.782	≤9.46dBm/1MHz	Pass
UNII	CH52	5260	-2.835	-3.341	-0.070	≤9.46dBm/1MH	Pass
Band	CH56	5280	-3.268	-2.989	-0.116	≤9.46dBm/1MHz	Pass
II-A	CH64	5320	-1.991	-2.346	0.845	≤9.46dBm/1MH	Pass
UNII	CH100	5500	-3.898	-3.426	-0.645	≤9.46dBm/1MHz	Pass
Band	CH120	5600	-4.832	-5.062	-1.935	≤9.46dBm/1MH	Pass
II-C	CH140	5700	-4.307	-4.663	-1.471	≤9.46dBm/1MHz	Pass
	CH149	5745	-5.605	-5.917	-2.748	≤30dBm/500KHz	Pass
UNII Band III	CH157	5785	-8.317	-7.939	-5.114	≤28.46dBm/500K Hz	Pass
Dailu III	CH165	5825	-8.104	-7.822	-4.950	≤28.46dBm/500K Hz	Pass

802.11n(VHT40) mode Test By: King Kong Temperature: 28℃

Humidity: 65 %

Band	Channel	Channel	Powe	er Spectra	I Density	Limit	Verdict
	Number	Freq. (MHz)	Ant0	Ant1	Ant0+Ant1	Limit	
UNII	CH38	5190	-2.016	-2.528	0.746	≤9.46dBm/1MHz	Pass
Band I	CH46	5230	-2.71	-1.835	0.760	≤9.46dBm/1MH	Pass
UNII	CH54	5270	-3.384	-2.697	-0.017	≤9.46dBm/1MHz	Pass
Band II-A	CH62	5310	-2.832	-2.521	0.337	≤9.46dBm/1MH	Pass
UNII	CH102	5510	-3.471	-3.262	-0.355	≤9.46dBm/1MHz	Pass
Band II-C	CH118	5590	-4.828	-4.355	-1.575	≤9.46dBm/1MH	Pass
Dallu II-C	CH134	5670	-4.592	-4.363	-1.466	≤9.46dBm/1MHz	Pass
UNII	CH151	5755	-6.704	-6.789	-3.736	≤28.46dBm/500K Hz	Pass
Band III	CH159	5795	-8.189	-8.206	-5.187	≤28.46dBm/500K Hz	Pass



802.11ac(VHT40) mode Test By: Temperature: King Kong 28℃

Humidity: 65 %

Band	Channel	Channel	Pow	er Spectra	al Density	Limit	Verdict
	Number	Freq. (MHz)	Ant0	Ant1	Ant0+Ant1	LIIIII	
UNII	CH38	5190	-1.812	-2.174	1.021	≤9.46dBm/1MHz	Pass
Band I	CH46	5230	-2.18	-2.343	0.750	≤9.46dBm/1MH	Pass
UNII	CH54	5270	-3.168	-3.024	-0.085	≤9.46dBm/1MHz	Pass
Band II-A	CH62	5310	-2.31	2.277	3.573	≤9.46dBm/1MH	Pass
LINIII	CH102	5510	-3.495	-3.291	-0.382	≤9.46dBm/1MHz	Pass
UNII Band II-C	CH118	5590	-5.119	-4.8	-1.946	≤9.46dBm/1MH	Pass
Bariu II-C	CH134	5670	-4.129	-4.548	-1.323	≤9.46dBm/1MHz	Pass
UNII	CH151	5755	-6.161	-6.412	-3.274	≤28.46dBm/500K Hz	Pass
Band III	CH159	5795	-8.497	-8.192	-5.332	≤28.46dBm/500K Hz	Pass

802.11ac(VHT80) mode Test By: King Kong Temperature: 28℃

Humidity: 65 %

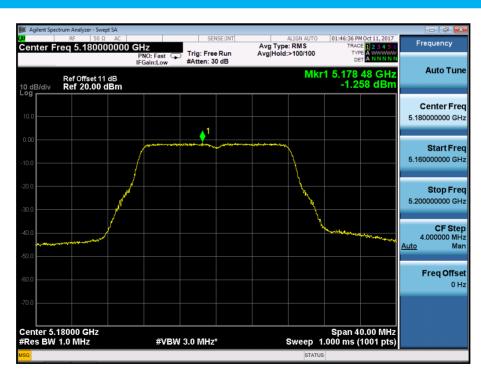
Band	Channel	Channel	Powe	er Spectral	Density	Limit	Verdict
	Number	Freq. (MHz)	Ant0	Ant1	Ant0+Ant1	Limit	
UNII Band I	CH42	5210	-7.895	-8.727	-5.2808	≤9.46dBm/1MHz	Pass
UNII Band II-A	CH58	5290	-8.359	-7.579	-4.9412	≤9.46dBm/1MH	Pass
UNII Band II-C	CH106	5530	-7.886	-7.575	-4.7174	≤9.46dBm/1MHz	Pass
	CH122	5610	-8.532	-8.315	-5.4118	≤9.46dBm/1MH	Pass
UNII Band III	CH155	5775	-10.709	-11.08	-7.8802	≤28.46dBm/500K Hz	Pass



UNII Band I Frequency(MHz)

5180



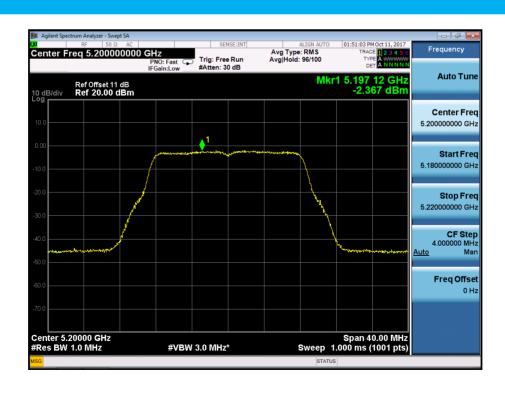




UNII Band I Frequency(MHz)

5200



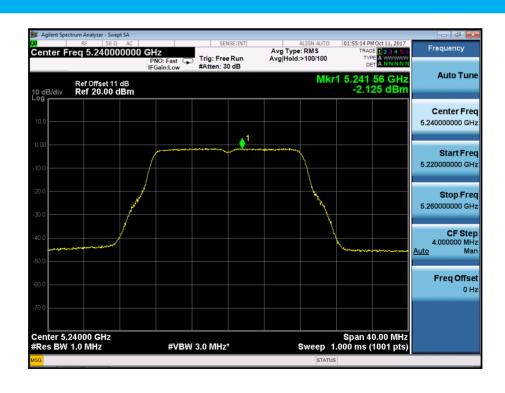




UNII Band I Frequency(MHz)

5240



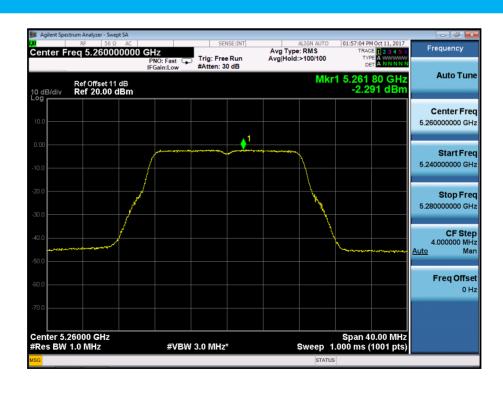




UNII Band II-A Frequency(MHz)

5260



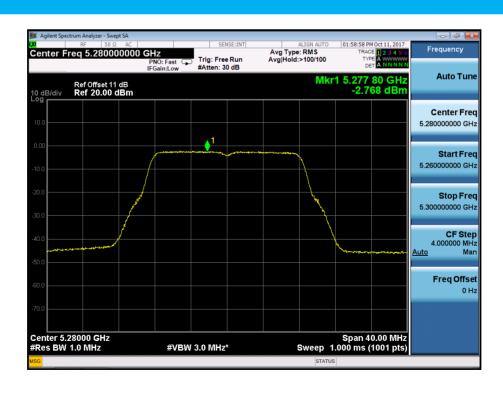




UNII Band II-A Frequency(MHz)

5280



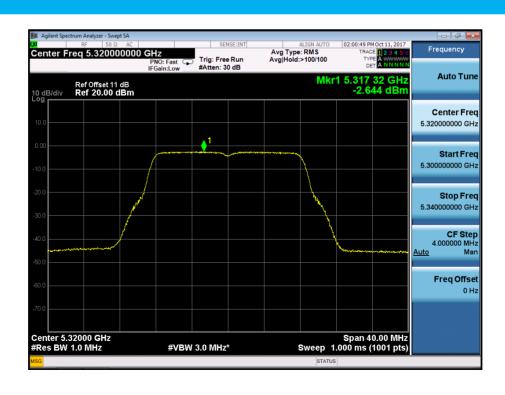




UNII Band II-A Frequency(MHz)

5320







UNII Band II-C Frequency(MHz)

5500







UNII Band II-C Frequency(MHz)

5600



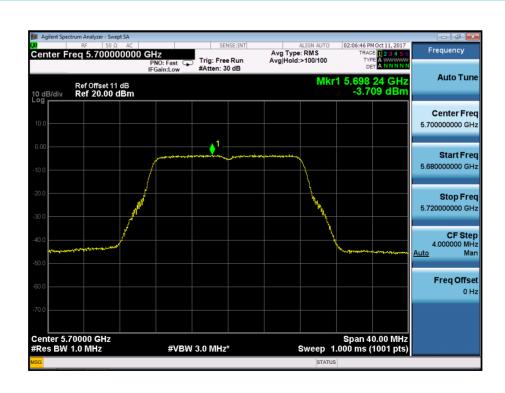




UNII Band II-C Frequency(MHz)

5700







UNII Band III Frequency(MHz)

5745



