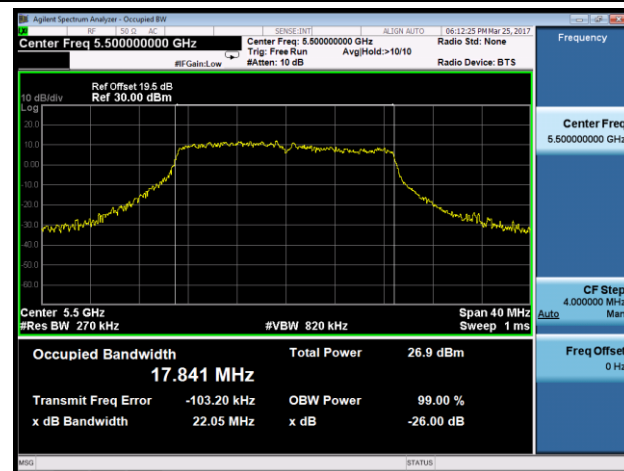
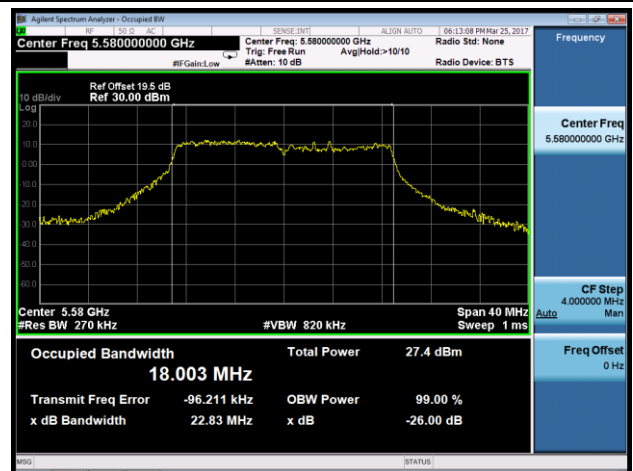


802.11ac-VHT20 26dB Bandwidth & 99% Bandwidth - Ant 0 / Ant 0 + 1

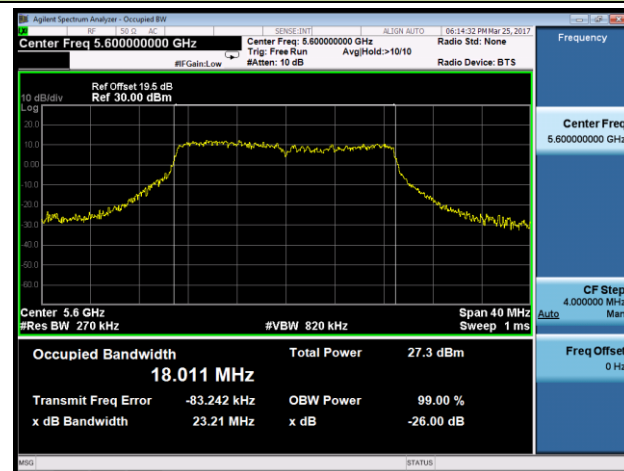
Channel 100 (5500MHz)



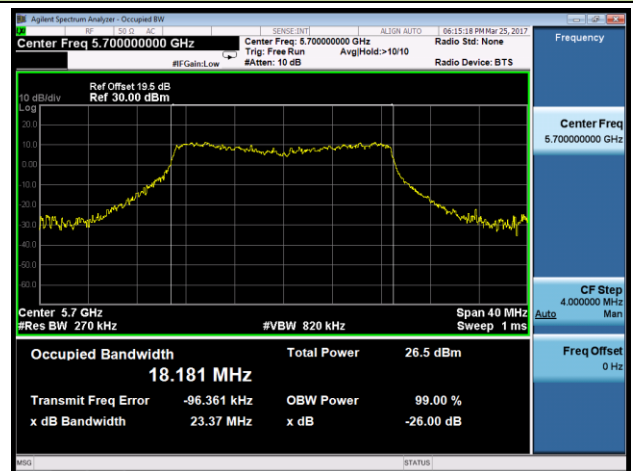
Channel 116 (5580MHz)



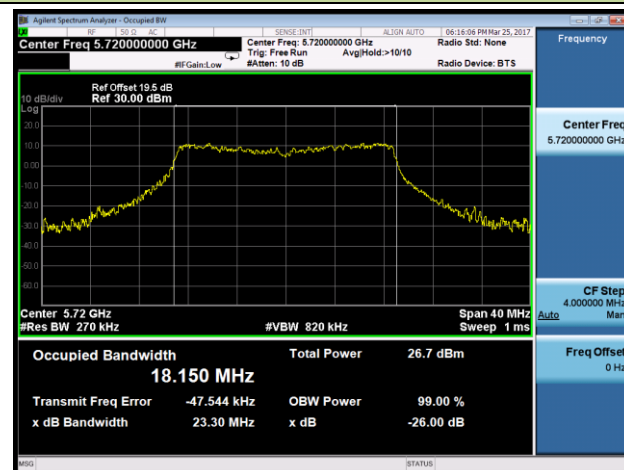
Channel 120 (5600MHz)



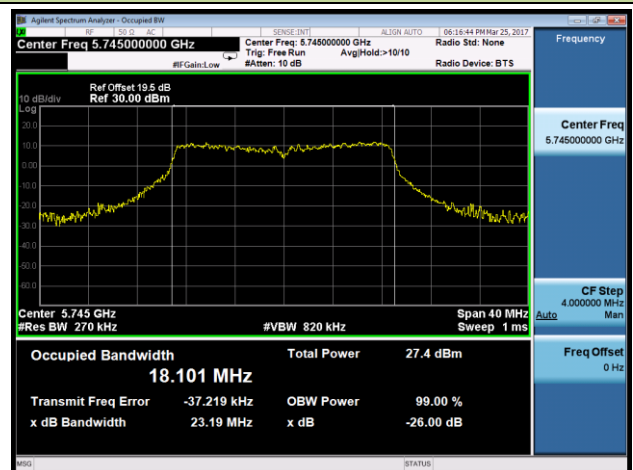
Channel 140 (5700MHz)



Channel 144 (5720MHz)

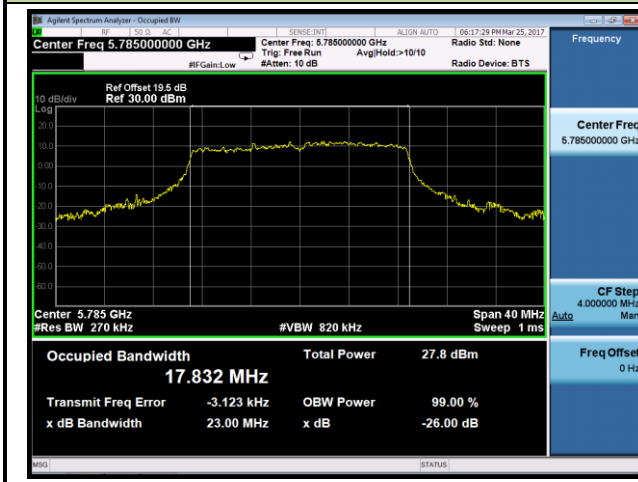


Channel 149 (5745MHz)

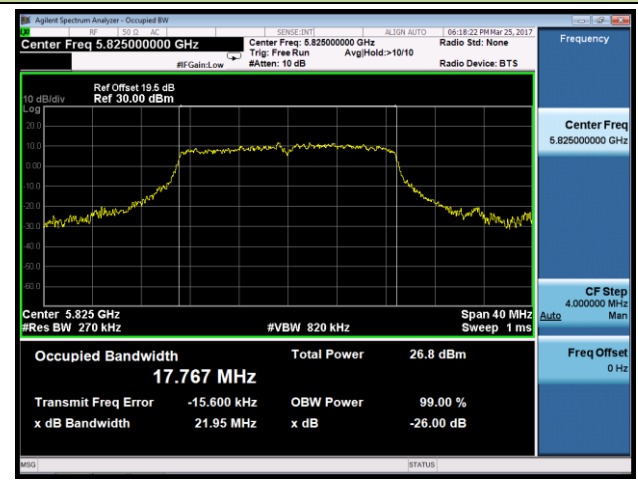


802.11ac-VHT20 26dB Bandwidth & 99% Bandwidth - Ant 0 / Ant 0 + 1

Channel 157 (5785MHz)

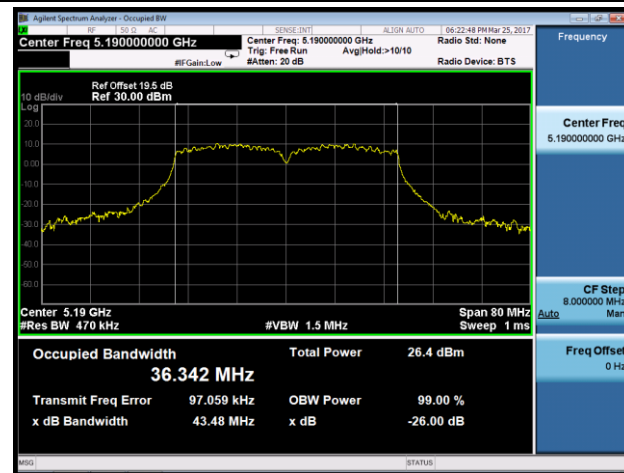


Channel 165 (5825MHz)

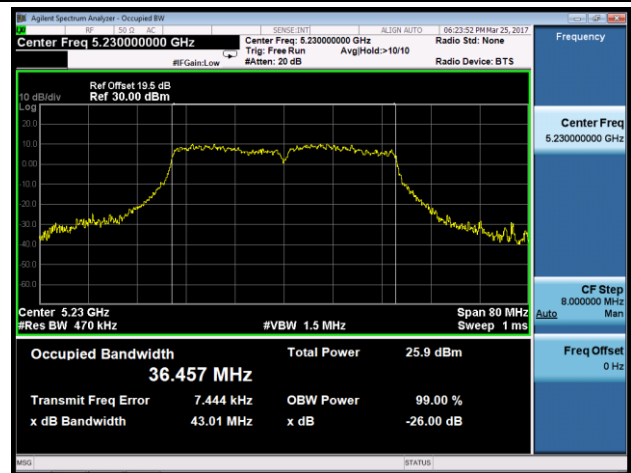


802.11ac-VHT40 26dB Bandwidth & 99% Bandwidth - Ant 0 / Ant 0 + 1

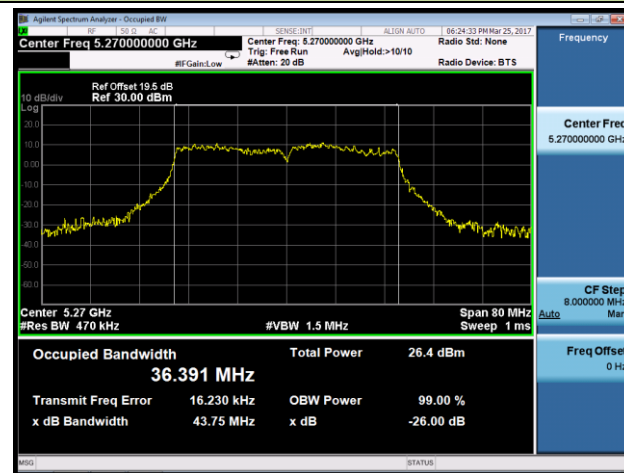
Channel 38 (5190MHz)



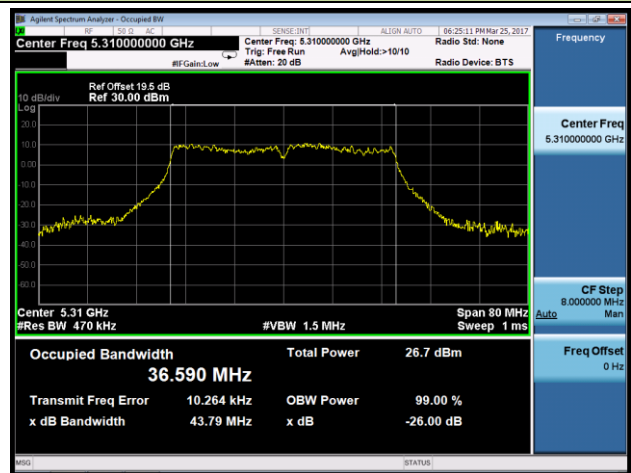
Channel 46 (5230MHz)



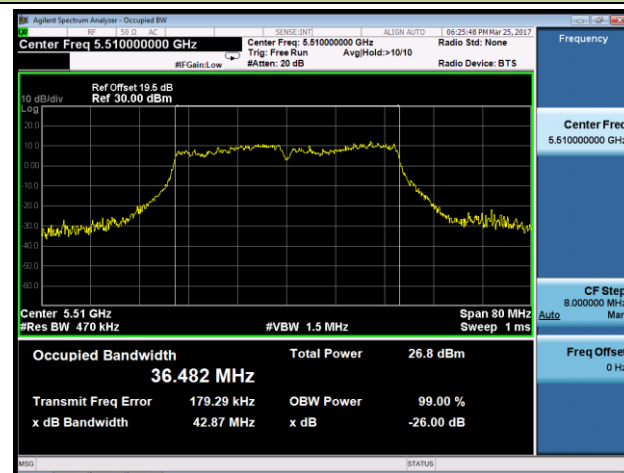
Channel 54 (5270MHz)



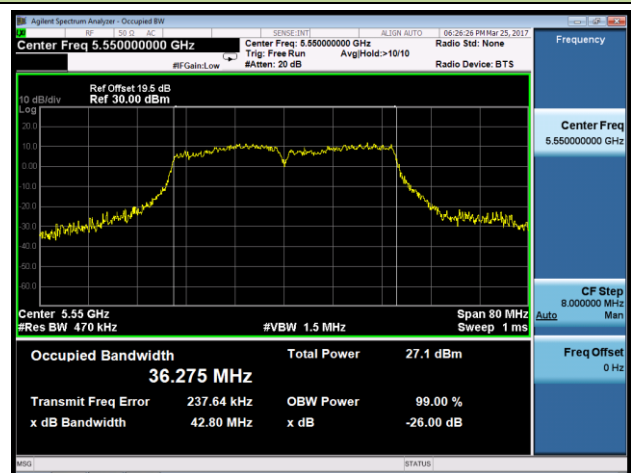
Channel 62 (5310MHz)



Channel 102 (5510MHz)

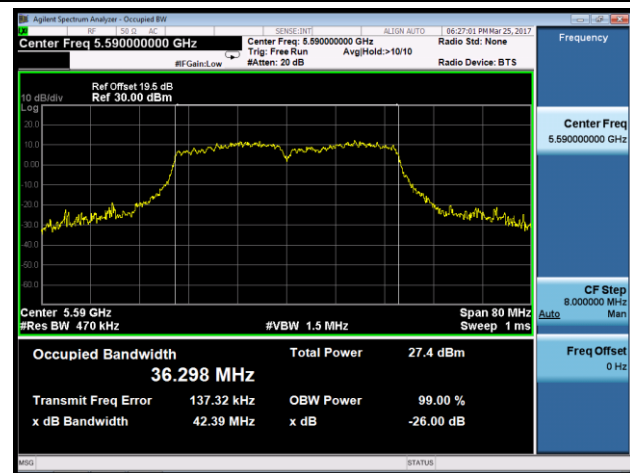


Channel 110 (5550MHz)

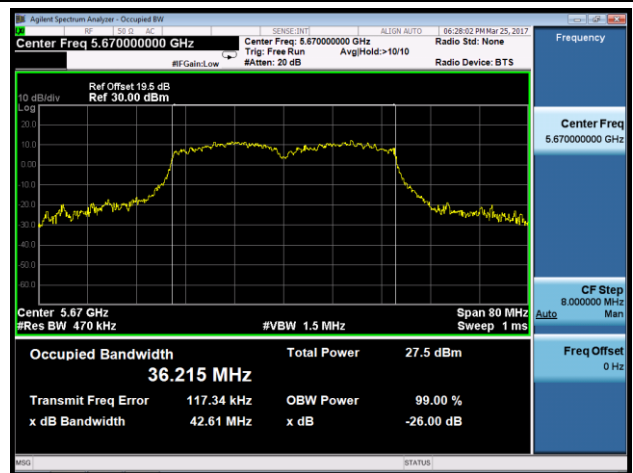


802.11ac-VHT40 26dB Bandwidth & 99% Bandwidth - Ant 0 / Ant 0 + 1

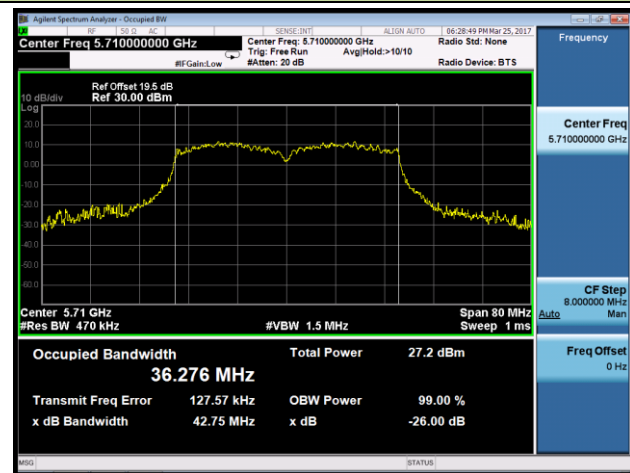
Channel 118 (5590MHz)



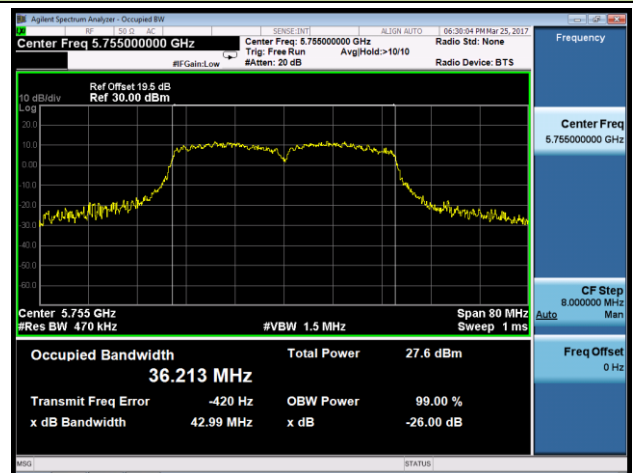
Channel 134 (5670MHz)



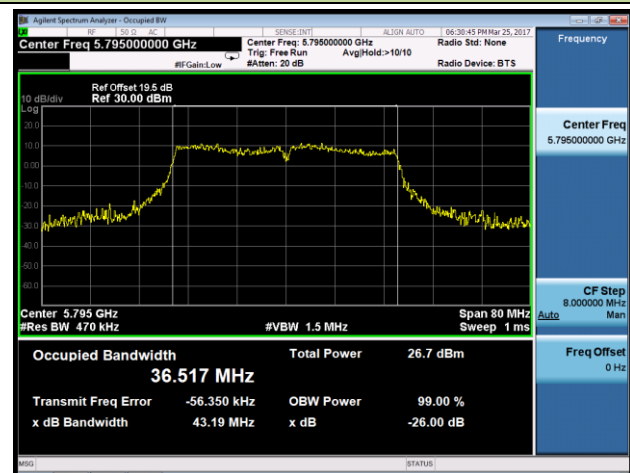
Channel 142 (5710MHz)



Channel 151 (5755MHz)

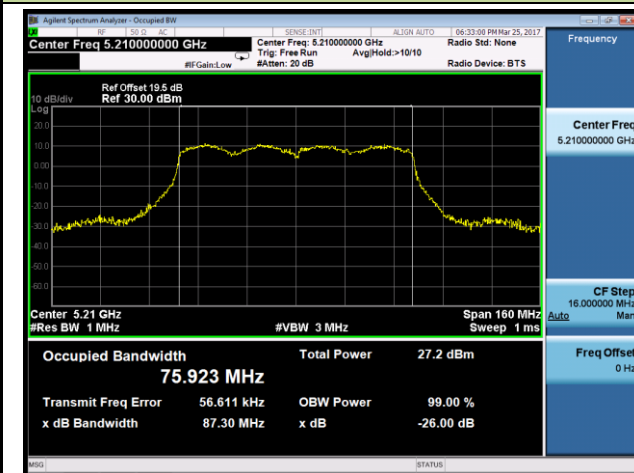


Channel 159 (5795MHz)

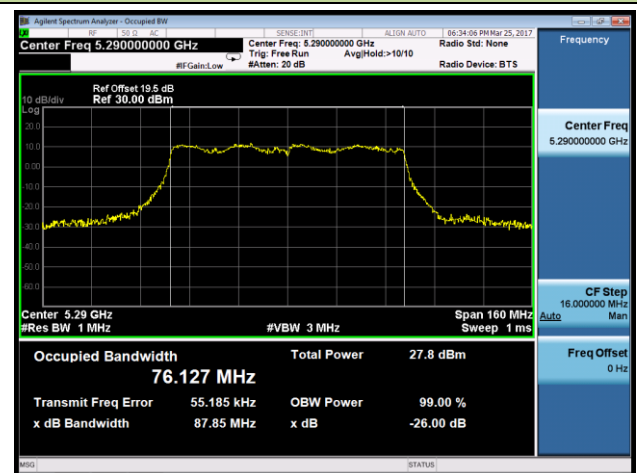


802.11ac-VHT80 26dB Bandwidth & 99% Bandwidth - Ant 0 / Ant 0 + 1

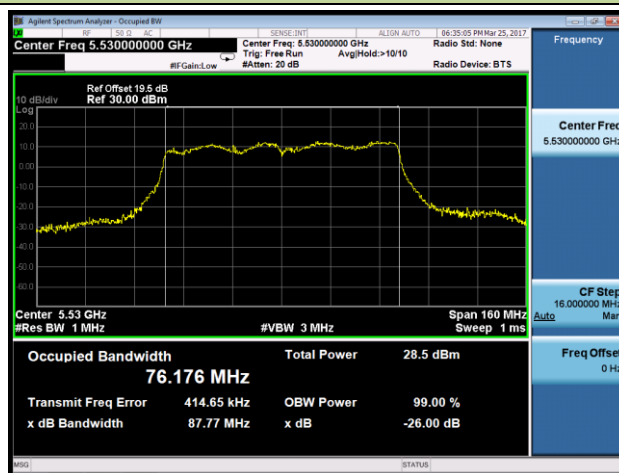
Channel 42 (5210MHz)



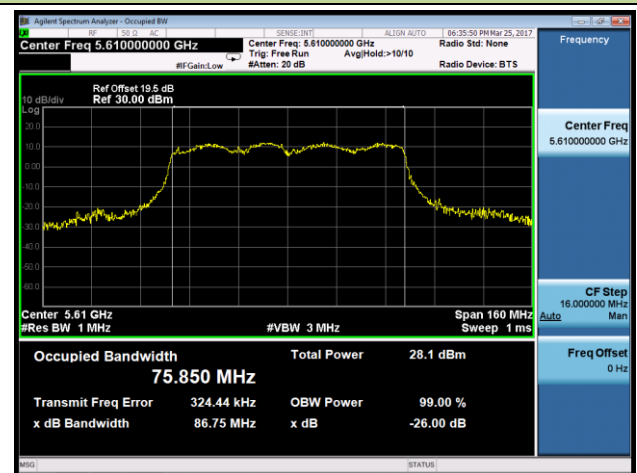
Channel 58 (5290MHz)



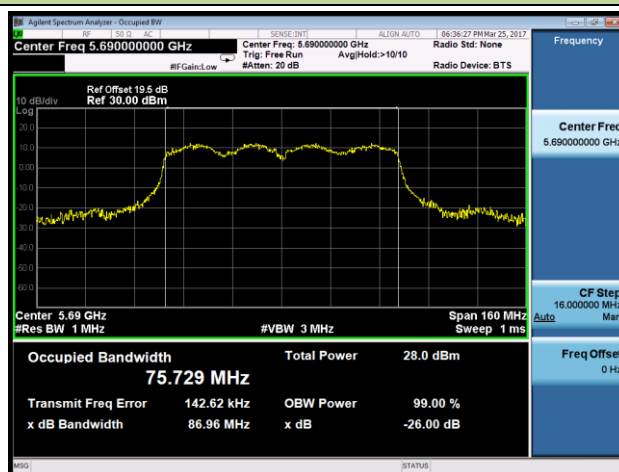
Channel 106 (5530MHz)



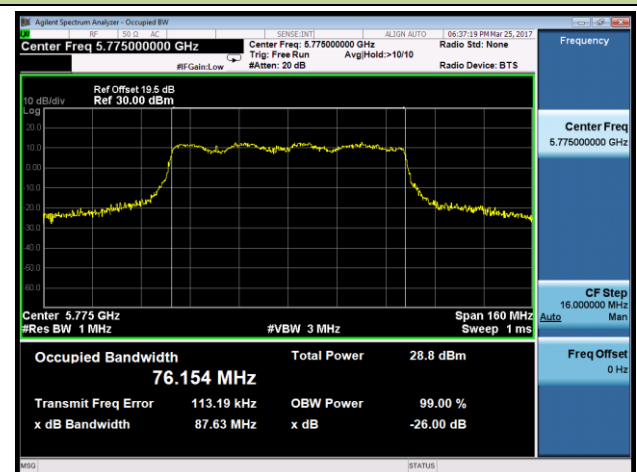
Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)



7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

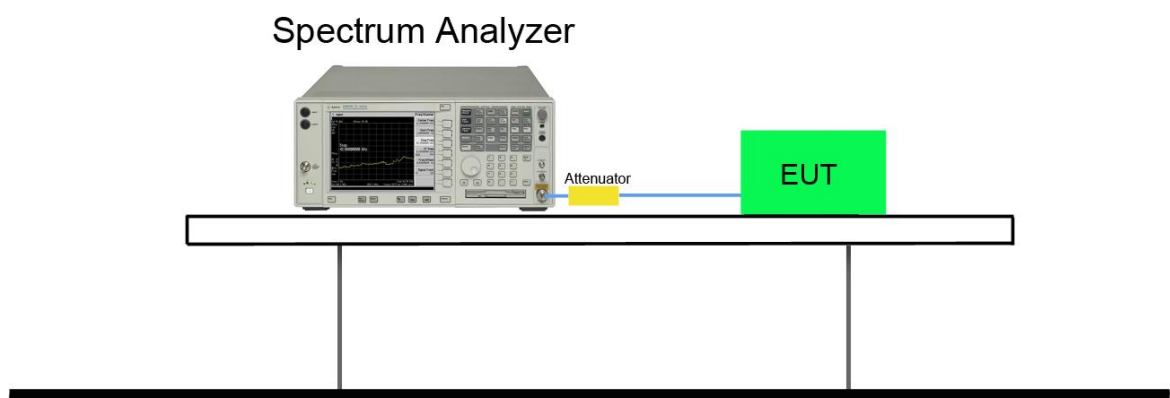
7.3.2. Test Procedure used

KDB 789033 D02v01r04 - Section C.2

7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. 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.

7.3.4. Test Setup



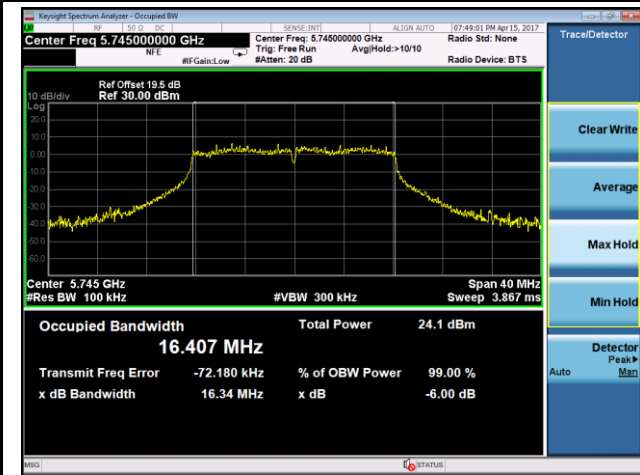
7.3.5. Test Result

Product	Wi-Fi Extender	Temperature	23°C
Test Engineer	Lewis Huang	Relative Humidity	52%
Test Site	TR3	Test Date	2017/04/15

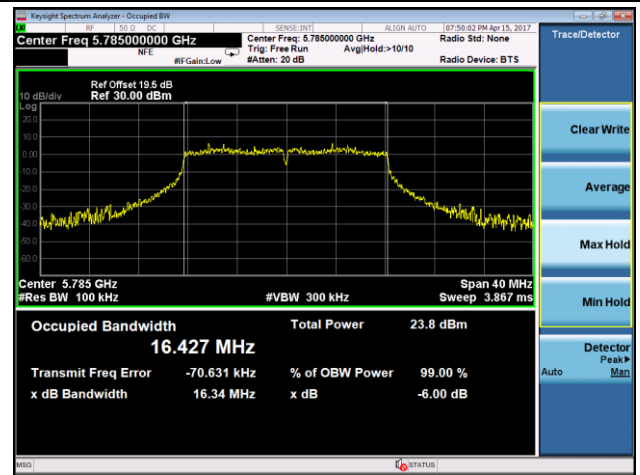
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0 / Ant 0 + 1						
802.11a	6Mbps	149	5745	16.34	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.34	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.35	≥ 0.5	Pass
802.11n-HT20	MCS0	149	5745	17.70	≥ 0.5	Pass
802.11n-HT20	MCS0	157	5785	17.60	≥ 0.5	Pass
802.11n-HT20	MCS0	165	5825	16.29	≥ 0.5	Pass
802.11n-HT40	MCS0	151	5755	36.36	≥ 0.5	Pass
802.11n-HT40	MCS0	159	5795	36.37	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.66	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.59	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	16.29	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.40	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	35.07	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	72.60	≥ 0.5	Pass

802.11a 6dB Bandwidth - Ant 0 / Ant 0 + 1

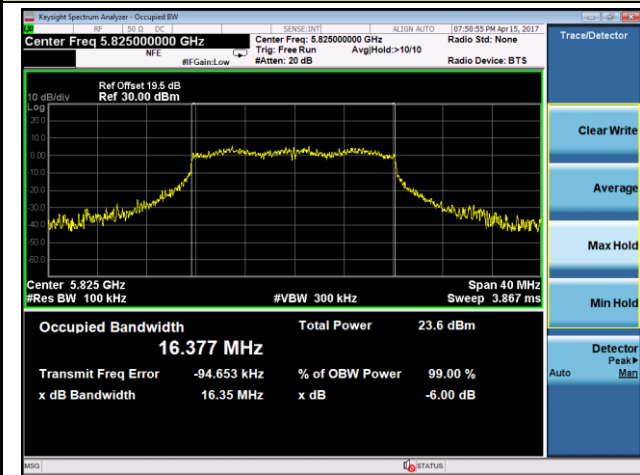
Channel 149 (5745MHz)



Channel 157 (5785MHz)

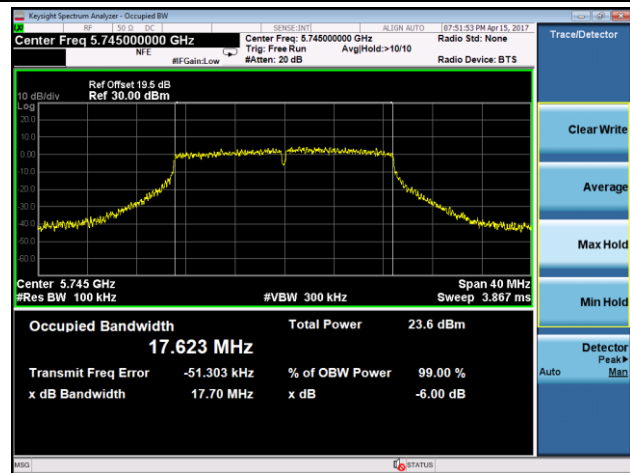


Channel 165 (5825MHz)

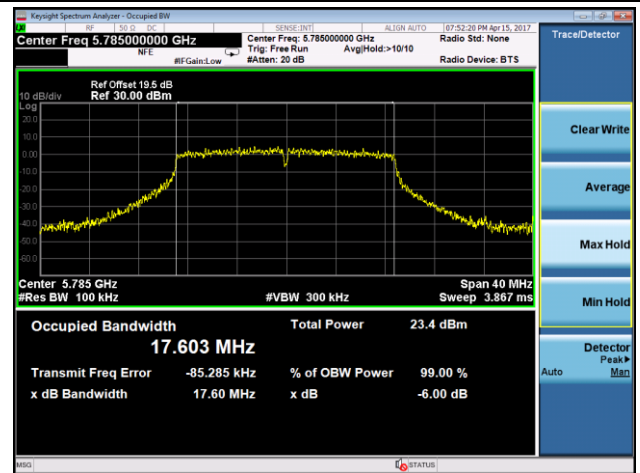


802.11n-HT20 6dB Bandwidth - Ant 0 / Ant 0 + 1

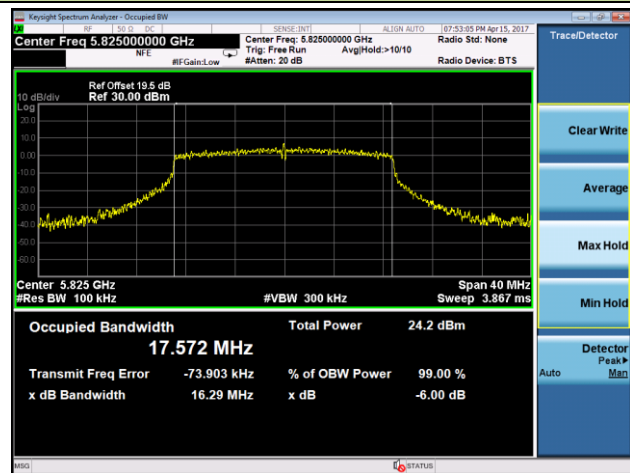
Channel 149 (5745MHz)



Channel 157 (5785MHz)

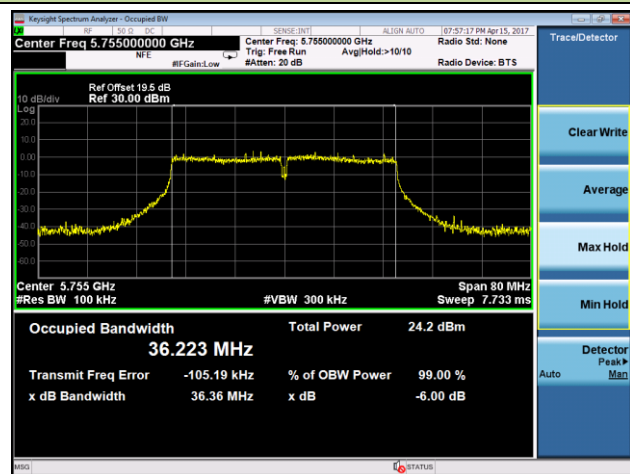


Channel 165 (5825MHz)

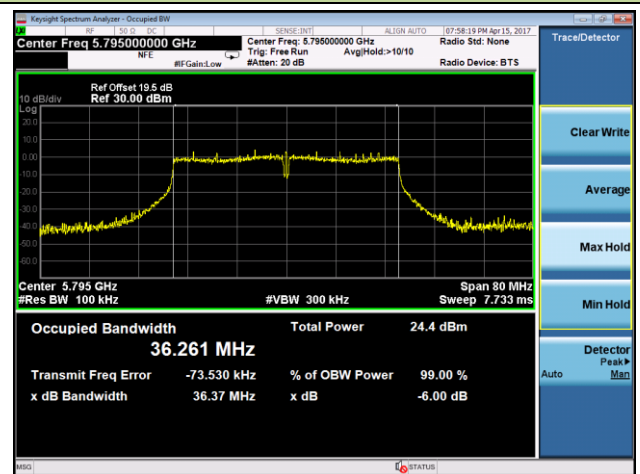


802.11n-HT40 6dB Bandwidth - Ant 0 / Ant 0 + 1

Channel 151 (5755MHz)

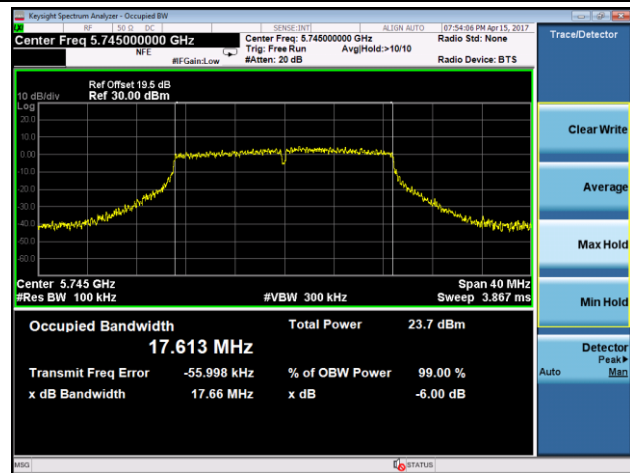


Channel 159 (5795MHz)

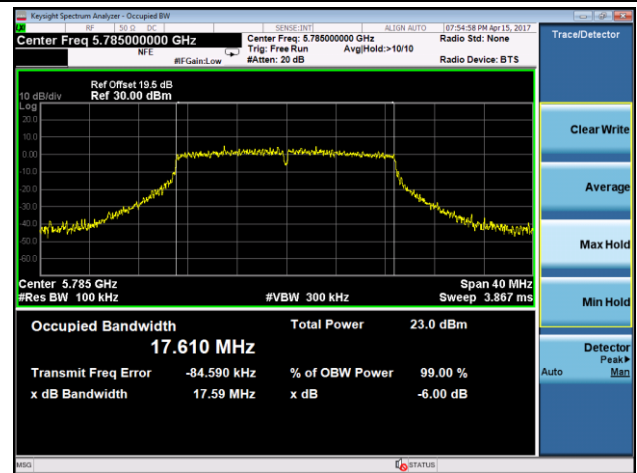


802.11ac-VHT20 6dB Bandwidth - Ant 0 / Ant 0 + 1

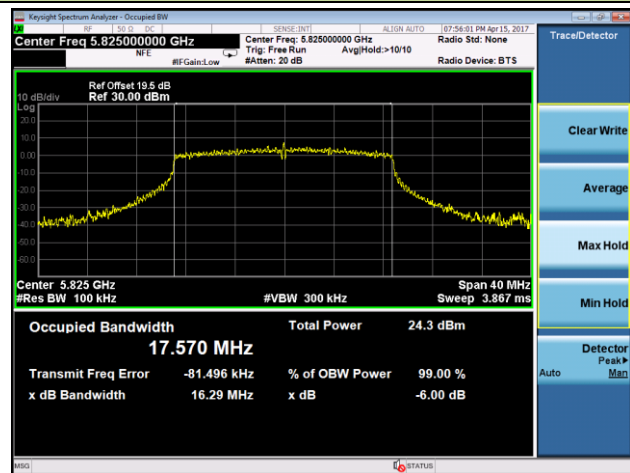
Channel 149 (5745MHz)



Channel 157 (5785MHz)

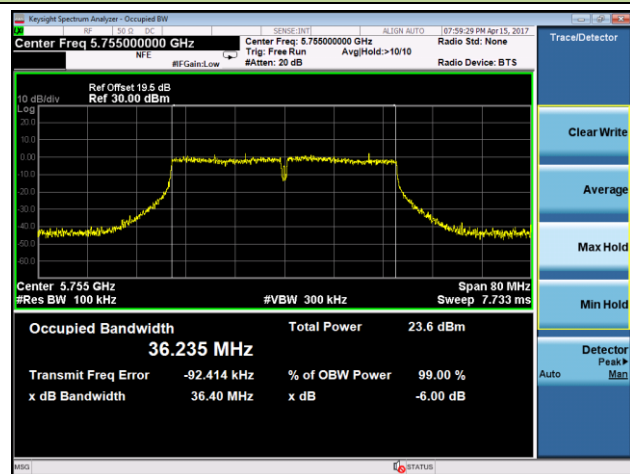


Channel 165 (5825MHz)

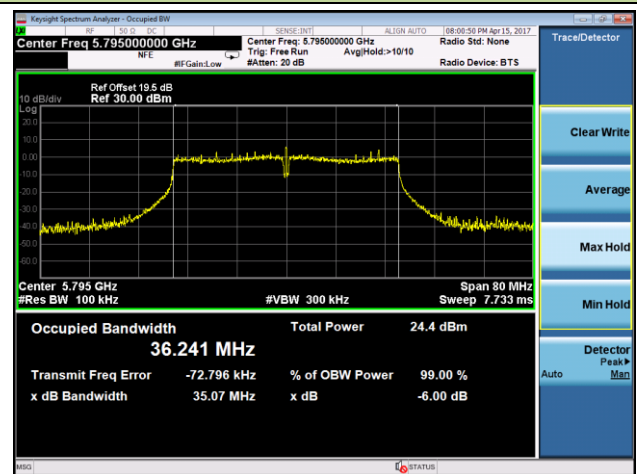


802.11ac-VHT40 6dB Bandwidth - Ant 0 / Ant 0 + 1

Channel 151 (5755MHz)

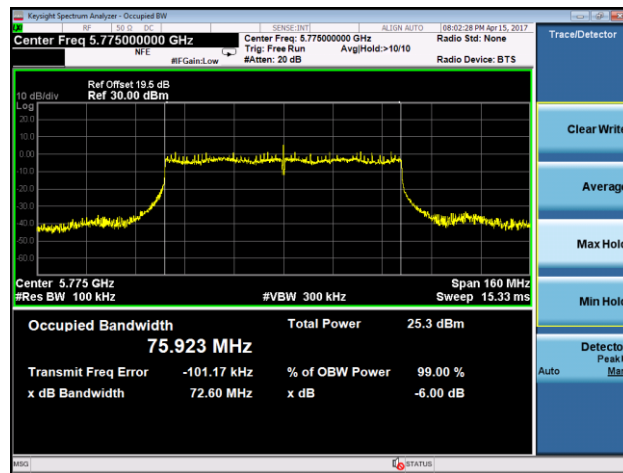


Channel 159 (5795MHz)



802.11ac-VHT80 6dB Bandwidth - Ant 0 / Ant 0 + 1

Channel 155 (5775MHz)



7.4. Operation Frequency Range of 26dBc Bandwidth Measurement

7.4.1. Test Limit

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27dBm/MHz e.i.r.p. However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz.

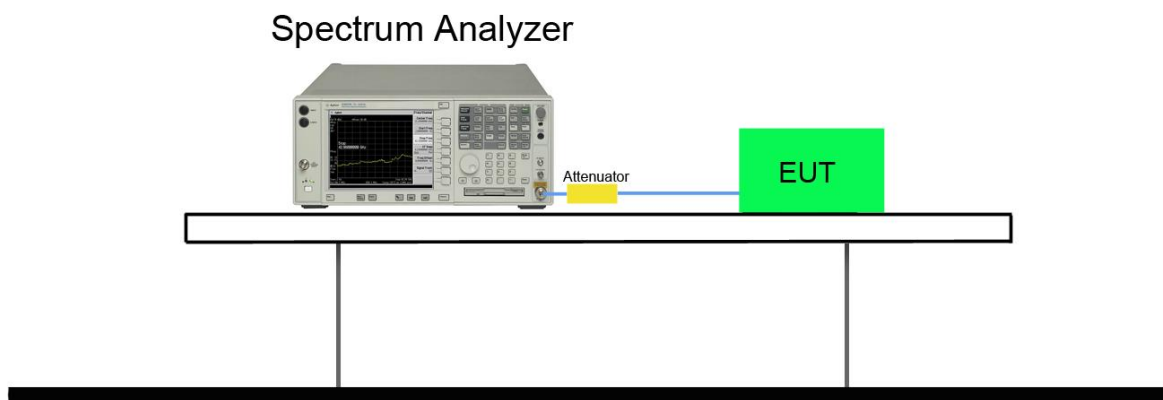
7.4.2. Test Procedure used

N/A

7.4.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. Span = 1.5 times to 5.0 times the OBW.
3. RBW = 1 % to 5 % of the OBW.
4. VBW $\geq 3 \times$ RBW.
5. Detector = Peak.
6. Trace mode = max hold.
7. Allow the trace to stabilize and set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
8. Determine the “-26 dB down amplitude” using [(reference value) – 26].
9. Using the marker function of the instrument to show 5250MHz frequency level.

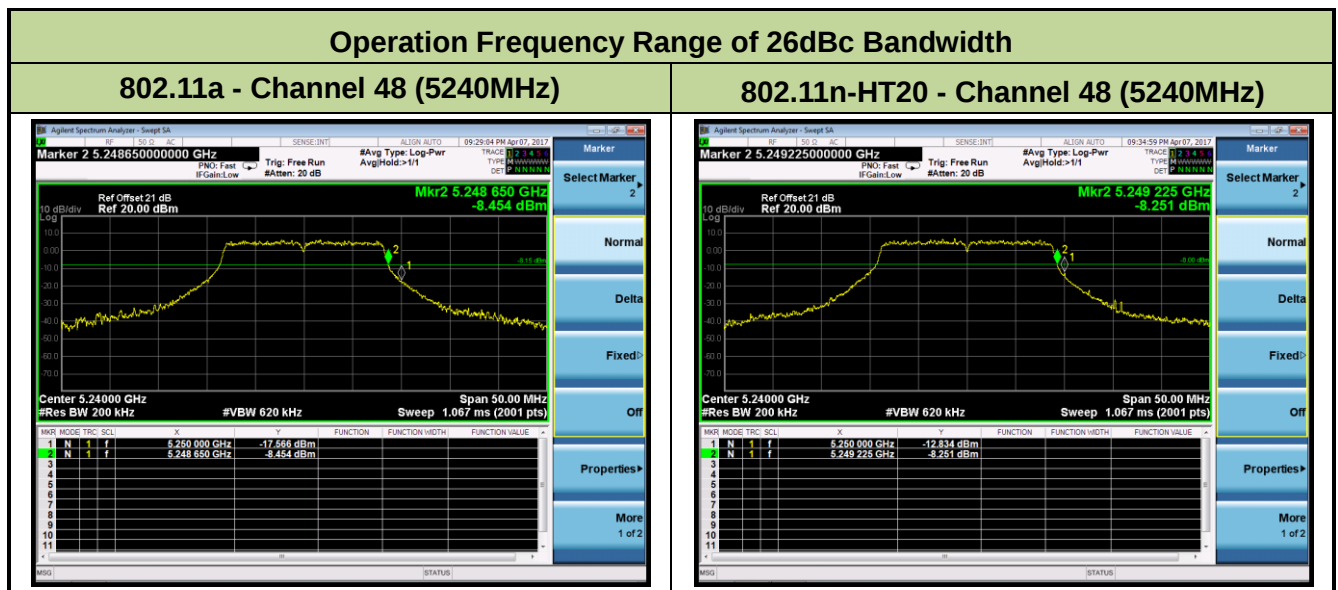
7.4.4. Test Setup



7.4.5. Test Result

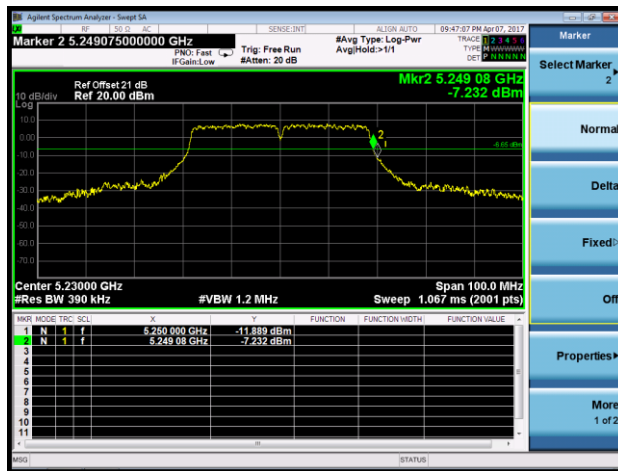
Product	Wi-Fi Extender	Temperature	23°C
Test Engineer	Lewis Huang	Relative Humidity	52%
Test Site	TR3	Test Date	2017/04/07

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Result
Ant 0 / Ant 0 + 1				
802.11a	6Mbps	48	5240	Pass
802.11n-HT20	MCS0	48	5240	Pass
802.11n-HT40	MCS0	46	5230	Pass
802.11ac-VHT20	MCS0	48	5240	Pass
802.11ac-VHT40	MCS0	46	5230	Pass
802.11ac-VHT80	MCS0	42	5210	Pass

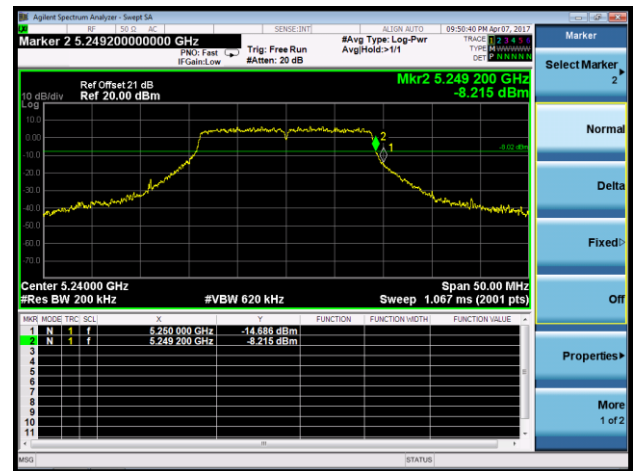


Operation Frequency Range of 26dBc Bandwidth

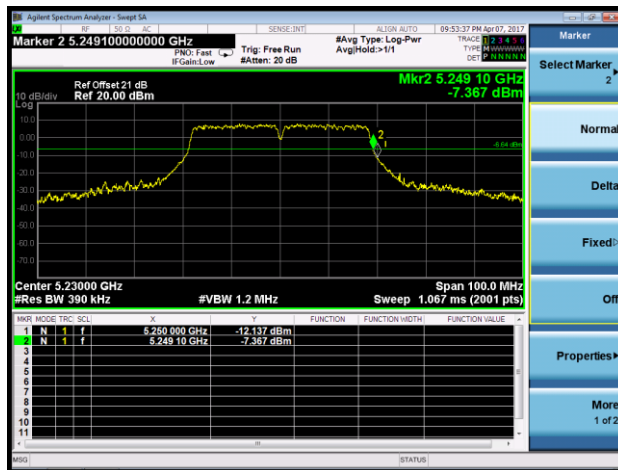
802.11n-HT40 - Channel 46 (5230MHz)



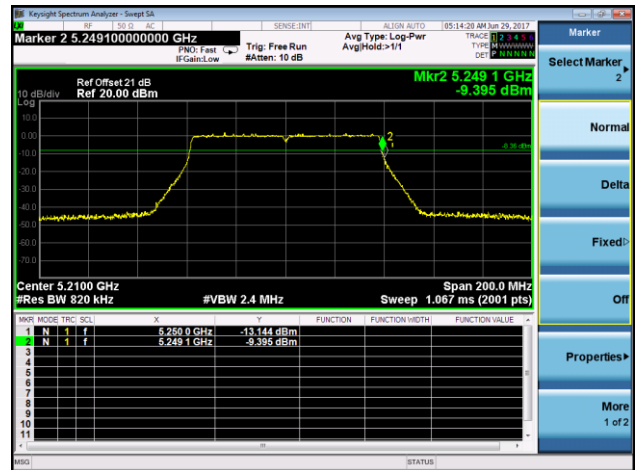
802.11ac-VHT20 - Channel 48 (5240MHz)



802.11ac-VHT40 - Channel 46 (5230MHz)



802.11ac-VHT80 - Channel 42 (5210MHz)



7.5. Output Power Measurement

7.5.1. Test Limit

For FCC

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.

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 (23.98dBm) or 11dBm +10 log (26dB BW).

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

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.

For IC

For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW (23.01dBm) or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power shall not exceed 250 mW (23.98dBm) or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W (30dBm) or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.725-5.85 GHz band, the maximum conducted output power 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.

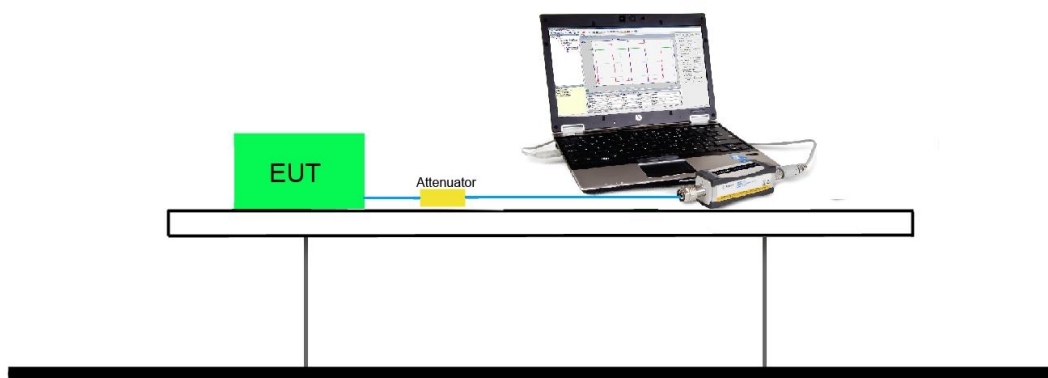
7.5.2. Test Procedure Used

KDB 789033 D02v01r04 - Section E) 3) b) Method PM-G

7.5.3.Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

7.5.4.Test Setup



7.5.5.Test Result

Power output test was verified over all data rates of each mode shown as below table.

For Ant 0 port:

Test Mode	Bandwidth	Channel	Frequency (MHz)	Data Rate/ MCS	Average Power (dBm)
802.11a	20	36	5180	6Mbps	19.04
				24Mbps	18.84
				54Mbps	18.63
802.11n	20	36	5180	MCS0	19.05
				MCS3	18.83
				MCS7	18.58
802.11n	40	38	5190	MCS0	19.04
				MCS3	18.79
				MCS7	18.56
802.11ac	20	36	5180	MCS0	19.03
				MCS4	18.78
				MCS8	18.56
802.11ac	40	38	5190	MCS0	19.05
				MCS4	18.73
				MCS9	18.53
802.11ac	80	42	5210	MCS0	19.22
				MCS4	19.06
				MCS9	18.83

Product	Wi-Fi Extender	Temperature	22°C
Test Engineer	Lewis Huang	Relative Humidity	54%
Test Site	TR3	Test Date	2017/03/25

For FCC Bands (UNII-2A & UNII-2C & UNII-3) & IC Bands (UNII-1 & UNII-2A & UNII-2C & UNII-3)

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)	Max EIRP (dBm)	EIRP Limit (dBm)	Result
Ant 0								
11a	6Mbps	36	5180	17.85	--	21.29	≤ 22.22	Pass
11a	6Mbps	44	5220	17.65	--	21.09	≤ 22.22	Pass
11a	6Mbps	48	5240	17.25	--	20.69	≤ 22.22	Pass
11a	6Mbps	52	5260	19.00	≤ 23.18	22.44	≤ 29.18	Pass
11a	6Mbps	60	5300	18.97	≤ 23.18	22.41	≤ 29.18	Pass
11a	6Mbps	64	5320	17.65	≤ 23.18	21.09	≤ 29.18	Pass
11a	6Mbps	100	5500	19.17	≤ 23.18	22.61	≤ 29.18	Pass
11a	6Mbps	116	5580	19.31	≤ 23.18	22.75	≤ 29.18	Pass
11a	6Mbps	120	5600	19.23	≤ 23.18	22.67	≤ 29.18	Pass
11a	6Mbps	140	5700	18.13	≤ 23.18	21.57	≤ 29.18	Pass
11a	6Mbps	144	5720	18.32	≤ 23.18	21.76	≤ 29.18	Pass
11a	6Mbps	149	5745	19.30	≤ 30.00	--	--	Pass
11a	6Mbps	157	5785	19.00	≤ 30.00	--	--	Pass
11a	6Mbps	165	5825	19.19	≤ 30.00	--	--	Pass
11n-HT20	MCS0	36	5180	18.00	--	21.44	≤ 22.53	Pass
11n-HT20	MCS0	44	5220	17.81	--	21.25	≤ 22.53	Pass
11n-HT20	MCS0	48	5240	17.85	--	21.29	≤ 22.53	Pass
11n-HT20	MCS0	52	5260	19.03	≤ 23.49	22.47	≤ 29.49	Pass
11n-HT20	MCS0	60	5300	19.00	≤ 23.49	22.44	≤ 29.49	Pass
11n-HT20	MCS0	64	5320	19.22	≤ 23.49	22.66	≤ 29.49	Pass
11n-HT20	MCS0	100	5500	19.13	≤ 23.49	22.57	≤ 29.49	Pass
11n-HT20	MCS0	116	5580	19.25	≤ 23.49	22.69	≤ 29.49	Pass
11n-HT20	MCS0	120	5600	19.17	≤ 23.49	22.61	≤ 29.49	Pass
11n-HT20	MCS0	140	5700	17.59	≤ 23.49	21.03	≤ 29.49	Pass
11n-HT20	MCS0	144	5720	17.67	≤ 23.49	21.11	≤ 29.49	Pass
11n-HT20	MCS0	149	5745	19.27	≤ 30.00	--	--	Pass
11n-HT20	MCS0	157	5785	19.24	≤ 30.00	--	--	Pass
11n-HT20	MCS0	165	5825	19.13	≤ 30.00	--	--	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)	Max EIRP (dBm)	EIRP Limit (dBm)	Result
11n-HT40	MCS0	38	5190	19.35	--	22.79	≤ 23.01	Pass
11n-HT40	MCS0	46	5230	19.15	--	22.59	≤ 23.01	Pass
11n-HT40	MCS0	54	5270	19.01	≤ 23.98	22.45	≤ 30.00	Pass
11n-HT40	MCS0	62	5310	19.30	≤ 23.98	22.74	≤ 30.00	Pass
11n-HT40	MCS0	102	5510	18.19	≤ 23.98	21.63	≤ 30.00	Pass
11n-HT40	MCS0	110	5550	19.11	≤ 23.98	22.55	≤ 30.00	Pass
11n-HT40	MCS0	118	5590	19.27	≤ 23.98	22.71	≤ 30.00	Pass
11n-HT40	MCS0	134	5670	19.31	≤ 23.98	22.75	≤ 30.00	Pass
11n-HT40	MCS0	142	5710	19.43	≤ 23.98	22.87	≤ 30.00	Pass
11n-HT40	MCS0	151	5755	19.31	≤ 30.00	--	--	Pass
11n-HT40	MCS0	159	5795	19.28	≤ 30.00	--	--	Pass
11ac-VHT20	MCS0	36	5180	17.98	--	21.42	≤ 22.53	Pass
11ac-VHT20	MCS0	44	5220	17.79	--	21.23	≤ 22.53	Pass
11ac-VHT20	MCS0	48	5240	17.81	--	21.25	≤ 22.53	Pass
11ac-VHT20	MCS0	52	5260	19.27	≤ 23.49	22.71	≤ 29.49	Pass
11ac-VHT20	MCS0	60	5300	19.16	≤ 23.49	22.60	≤ 29.49	Pass
11ac-VHT20	MCS0	64	5320	19.12	≤ 23.49	22.56	≤ 29.49	Pass
11ac-VHT20	MCS0	100	5500	19.13	≤ 23.49	22.57	≤ 29.49	Pass
11ac-VHT20	MCS0	116	5580	19.02	≤ 23.49	22.46	≤ 29.49	Pass
11ac-VHT20	MCS0	120	5600	19.07	≤ 23.49	22.51	≤ 29.49	Pass
11ac-VHT20	MCS0	140	5700	17.56	≤ 23.49	21.00	≤ 29.49	Pass
11ac-VHT20	MCS0	144	5720	19.11	≤ 23.49	22.55	≤ 29.49	Pass
11ac-VHT20	MCS0	149	5745	19.09	≤ 30.00	--	--	Pass
11ac-VHT20	MCS0	157	5785	19.26	≤ 30.00	--	--	Pass
11ac-VHT20	MCS0	165	5825	19.16	≤ 30.00	--	--	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)	Max EIRP (dBm)	EIRP Limit (dBm)	Result
11ac-VHT40	MCS0	38	5190	18.86	--	22.30	≤ 23.01	Pass
11ac-VHT40	MCS0	46	5230	19.15	--	22.59	≤ 23.01	Pass
11ac-VHT40	MCS0	54	5270	19.00	≤ 23.98	22.44	≤ 30.00	Pass
11ac-VHT40	MCS0	62	5310	19.28	≤ 23.98	22.72	≤ 30.00	Pass
11ac-VHT40	MCS0	102	5510	18.66	≤ 23.98	22.10	≤ 30.00	Pass
11ac-VHT40	MCS0	110	5550	19.03	≤ 23.98	22.47	≤ 30.00	Pass
11ac-VHT40	MCS0	118	5590	19.26	≤ 23.98	22.70	≤ 30.00	Pass
11ac-VHT40	MCS0	134	5670	19.33	≤ 23.98	22.77	≤ 30.00	Pass
11ac-VHT40	MCS0	142	5710	19.20	≤ 23.98	22.64	≤ 30.00	Pass
11ac-VHT40	MCS0	151	5755	19.22	≤ 30.00	--	--	Pass
11ac-VHT40	MCS0	159	5795	19.00	≤ 30.00	--	--	Pass
11ac-VHT80	MCS0	42	5210	17.64	--	21.08	≤ 23.01	Pass
11ac-VHT80	MCS0	58	5290	18.19	≤ 23.98	21.63	≤ 30.00	Pass
11ac-VHT80	MCS0	106	5530	18.14	≤ 23.98	21.58	≤ 30.00	Pass
11ac-VHT80	MCS0	122	5610	19.21	≤ 23.98	22.65	≤ 30.00	Pass
11ac-VHT80	MCS0	138	5690	19.06	≤ 23.98	22.50	≤ 30.00	Pass
11ac-VHT80	MCS0	155	5775	19.33	≤ 30.00	--	--	Pass

Note 1: Max EIRP Power (dBm) = Total Average Power (dBm) + Antenna Gain.

EIRP Limit Calculation as below:

For 5150-5250MHz

802.11a: $10 + 10 \log_{10} (16.66\text{MHz}) = 22.22\text{dBm} < 23.01\text{dBm}$;

802.11n-HT20: $10 + 10 \log_{10} (17.92\text{MHz}) = 22.53\text{dBm} < 23.01\text{dBm}$;

802.11ac-VHT20: $10 + 10 \log_{10} (17.91\text{MHz}) = 22.53\text{dBm} < 23.01\text{dBm}$;

802.11n-HT40/ac-VHT40/ac-VHT80: $10 + 10 \log_{10} B > 23.01\text{dBm}$;

For 5250-5350MHz, 5470-5725MHz

802.11a: $17 + 10 \log_{10} (16.53\text{MHz}) = 29.18\text{dBm} < 30\text{dBm}$;

802.11n-HT20: $17 + 10 \log_{10} (17.74\text{MHz}) = 29.49\text{dBm} < 30\text{dBm}$;

802.11ac-VHT20: $17 + 10 \log_{10} (17.76\text{MHz}) = 29.49\text{dBm} < 30\text{dBm}$;

802.11n-HT40/ac-VHT40/ac-VHT80: $10 + 10 \log_{10} B > 30\text{dBm}$;

Note 2: Max Conducted Output Power Limit Calculation as below:

For 5250-5350MHz, 5470-5725MHz

802.11a: $11 + 10 \log_{10} (16.53\text{MHz}) = 23.18\text{dBm} < 23.98\text{dBm}$;

802.11n-HT20: $11 + 10 \log_{10} (17.74\text{MHz}) = 23.49\text{dBm} < 23.98\text{dBm}$;

802.11ac-VHT20: $11 + 10 \log_{10} (17.76\text{MHz}) = 23.49\text{dBm} < 23.98\text{dBm}$;

802.11n-HT40/ac-VHT40/ac-VHT80: $11 + 10 \log_{10} B > 23.98\text{dBm}$;

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)	Max EIRP (dBm)	EIRP Limit (dBm)	Result
Ant 1								
11a	6Mbps	36	5180	18.00	--	21.66	≤ 22.22	Pass
11a	6Mbps	44	5220	17.67	--	21.33	≤ 22.22	Pass
11a	6Mbps	48	5240	17.11	--	20.77	≤ 22.22	Pass
11a	6Mbps	52	5260	19.15	≤ 23.18	22.81	≤ 29.18	Pass
11a	6Mbps	60	5300	19.28	≤ 23.18	22.94	≤ 29.18	Pass
11a	6Mbps	64	5320	19.16	≤ 23.18	22.82	≤ 29.18	Pass
11a	6Mbps	100	5500	18.97	≤ 23.18	22.63	≤ 29.18	Pass
11a	6Mbps	116	5580	19.20	≤ 23.18	22.86	≤ 29.18	Pass
11a	6Mbps	120	5600	19.19	≤ 23.18	22.85	≤ 29.18	Pass
11a	6Mbps	140	5700	19.01	≤ 23.18	22.67	≤ 29.18	Pass
11a	6Mbps	144	5720	18.89	≤ 23.18	22.55	≤ 29.18	Pass
11a	6Mbps	149	5745	19.21	≤ 30.00	--	--	Pass
11a	6Mbps	157	5785	19.11	≤ 30.00	--	--	Pass
11a	6Mbps	165	5825	19.22	≤ 30.00	--	--	Pass
11n-HT20	MCS0	36	5180	18.11	--	21.77	≤ 22.53	Pass
11n-HT20	MCS0	44	5220	17.77	--	21.43	≤ 22.53	Pass
11n-HT20	MCS0	48	5240	17.67	--	21.33	≤ 22.53	Pass
11n-HT20	MCS0	52	5260	18.87	≤ 23.49	22.53	≤ 29.49	Pass
11n-HT20	MCS0	60	5300	19.24	≤ 23.49	22.90	≤ 29.49	Pass
11n-HT20	MCS0	64	5320	19.20	≤ 23.49	22.86	≤ 29.49	Pass
11n-HT20	MCS0	100	5500	19.27	≤ 23.49	22.93	≤ 29.49	Pass
11n-HT20	MCS0	116	5580	18.89	≤ 23.49	22.55	≤ 29.49	Pass
11n-HT20	MCS0	120	5600	19.17	≤ 23.49	22.83	≤ 29.49	Pass
11n-HT20	MCS0	140	5700	18.98	≤ 23.49	22.64	≤ 29.49	Pass
11n-HT20	MCS0	144	5720	18.56	≤ 23.49	22.22	≤ 29.49	Pass
11n-HT20	MCS0	149	5745	19.03	≤ 30.00	--	--	Pass
11n-HT20	MCS0	157	5785	19.25	≤ 30.00	--	--	Pass
11n-HT20	MCS0	165	5825	18.89	≤ 30.00	--	--	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)	Max EIRP (dBm)	EIRP Limit (dBm)	Result
11n-HT40	MCS0	38	5190	17.43	--	21.09	≤ 23.01	Pass
11n-HT40	MCS0	46	5230	19.11	--	22.77	≤ 23.01	Pass
11n-HT40	MCS0	54	5270	19.28	≤ 23.98	22.94	≤ 30.00	Pass
11n-HT40	MCS0	62	5310	18.29	≤ 23.98	21.95	≤ 30.00	Pass
11n-HT40	MCS0	102	5510	18.97	≤ 23.98	22.63	≤ 30.00	Pass
11n-HT40	MCS0	110	5550	19.00	≤ 23.98	22.66	≤ 30.00	Pass
11n-HT40	MCS0	118	5590	19.04	≤ 23.98	22.70	≤ 30.00	Pass
11n-HT40	MCS0	134	5670	19.15	≤ 23.98	22.81	≤ 30.00	Pass
11n-HT40	MCS0	142	5710	19.02	≤ 23.98	22.68	≤ 30.00	Pass
11n-HT40	MCS0	151	5755	19.05	≤ 30.00	--	--	Pass
11n-HT40	MCS0	159	5795	19.14	≤ 30.00	--	--	Pass
11ac-VHT20	MCS0	36	5180	18.11	--	21.77	≤ 22.53	Pass
11ac-VHT20	MCS0	44	5220	17.78	--	21.44	≤ 22.53	Pass
11ac-VHT20	MCS0	48	5240	17.69	--	21.35	≤ 22.53	Pass
11ac-VHT20	MCS0	52	5260	18.85	≤ 23.49	22.51	≤ 29.49	Pass
11ac-VHT20	MCS0	60	5300	19.27	≤ 23.49	22.93	≤ 29.49	Pass
11ac-VHT20	MCS0	64	5320	19.19	≤ 23.49	22.85	≤ 29.49	Pass
11ac-VHT20	MCS0	100	5500	19.27	≤ 23.49	22.93	≤ 29.49	Pass
11ac-VHT20	MCS0	116	5580	18.87	≤ 23.49	22.53	≤ 29.49	Pass
11ac-VHT20	MCS0	120	5600	19.17	≤ 23.49	22.83	≤ 29.49	Pass
11ac-VHT20	MCS0	140	5700	18.94	≤ 23.49	22.60	≤ 29.49	Pass
11ac-VHT20	MCS0	144	5720	19.04	≤ 23.49	22.70	≤ 29.49	Pass
11ac-VHT20	MCS0	149	5745	19.06	≤ 30.00	--	--	Pass
11ac-VHT20	MCS0	157	5785	18.87	≤ 30.00	--	--	Pass
11ac-VHT20	MCS0	165	5825	18.92	≤ 30.00	--	--	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)	Max EIRP (dBm)	EIRP Limit (dBm)	Result
11ac-VHT40	MCS0	38	5190	16.93	--	20.59	≤ 23.01	Pass
11ac-VHT40	MCS0	46	5230	19.10	--	22.76	≤ 23.01	Pass
11ac-VHT40	MCS0	54	5270	18.85	≤ 23.98	22.51	≤ 30.00	Pass
11ac-VHT40	MCS0	62	5310	18.86	≤ 23.98	22.52	≤ 30.00	Pass
11ac-VHT40	MCS0	102	5510	18.97	≤ 23.98	22.63	≤ 30.00	Pass
11ac-VHT40	MCS0	110	5550	19.00	≤ 23.98	22.66	≤ 30.00	Pass
11ac-VHT40	MCS0	118	5590	19.03	≤ 23.98	22.69	≤ 30.00	Pass
11ac-VHT40	MCS0	134	5670	19.16	≤ 23.98	22.82	≤ 30.00	Pass
11ac-VHT40	MCS0	142	5710	18.92	≤ 23.98	22.58	≤ 30.00	Pass
11ac-VHT40	MCS0	151	5755	19.05	≤ 30.00	--	--	Pass
11ac-VHT40	MCS0	159	5795	19.02	≤ 30.00	--	--	Pass
11ac-VHT80	MCS0	42	5210	15.87	--	19.53	≤ 23.01	Pass
11ac-VHT80	MCS0	58	5290	17.29	≤ 23.98	20.95	≤ 30.00	Pass
11ac-VHT80	MCS0	106	5530	18.17	≤ 23.98	21.83	≤ 30.00	Pass
11ac-VHT80	MCS0	122	5610	19.03	≤ 23.98	22.69	≤ 30.00	Pass
11ac-VHT80	MCS0	138	5690	19.02	≤ 23.98	22.68	≤ 30.00	Pass
11ac-VHT80	MCS0	155	5775	18.99	≤ 30.00	--	--	Pass

Note 1: Max EIRP Power (dBm) = Total Average Power (dBm) + Antenna Gain.

EIRP Limit Calculation as below:

For 5150-5250MHz

802.11a: $10 + 10 \log_{10} (16.66\text{MHz}) = 22.22\text{dBm} < 23.01\text{dBm}$;

802.11n-HT20: $10 + 10 \log_{10} (17.92\text{MHz}) = 22.53\text{dBm} < 23.01\text{dBm}$;

802.11ac-VHT20: $10 + 10 \log_{10} (17.91\text{MHz}) = 22.53\text{dBm} < 23.01\text{dBm}$;

802.11n-HT40/ac-VHT40/ac-VHT80: $10 + 10 \log_{10} B > 23.01\text{dBm}$;

For 5250-5350MHz, 5470-5725MHz

802.11a: $17 + 10 \log_{10} (16.53\text{MHz}) = 29.18\text{dBm} < 30\text{dBm}$;

802.11n-HT20: $17 + 10 \log_{10} (17.74\text{MHz}) = 29.49\text{dBm} < 30\text{dBm}$;

802.11ac-VHT20: $17 + 10 \log_{10} (17.76\text{MHz}) = 29.49\text{dBm} < 30\text{dBm}$;

802.11n-HT40/ac-VHT40/ac-VHT80: $10 + 10 \log_{10} B > 30\text{dBm}$;

Note 2: Max Conducted Output Power Limit Calculation as below:

For 5250-5350MHz, 5470-5725MHz

802.11a: $11 + 10 \log_{10} (16.53\text{MHz}) = 23.18\text{dBm} < 23.98\text{dBm}$;

802.11n-HT20: $11 + 10 \log_{10} (17.74\text{MHz}) = 23.49\text{dBm} < 23.98\text{dBm}$;

802.11ac-VHT20: $11 + 10 \log_{10} (17.76\text{MHz}) = 23.49\text{dBm} < 23.98\text{dBm}$;

802.11n-HT40/ac-VHT40/ac-VHT80: $11 + 10 \log_{10} B > 23.98\text{dBm}$;

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Max EIRP (dBm)	EIRP Limit (dBm)	Result
Ant 0 + 1 (CDD Mode)										
11a	6Mbps	36	5180	11.29	11.89	14.61	--	21.17	≤ 22.22	Pass
11a	6Mbps	44	5220	11.65	12.11	14.90	--	21.46	≤ 22.22	Pass
11a	6Mbps	48	5240	11.82	11.69	14.77	--	21.33	≤ 22.22	Pass
11a	6Mbps	52	5260	17.43	17.67	20.56	≤ 22.62	27.12	≤ 29.18	Pass
11a	6Mbps	60	5300	17.56	17.31	20.45	≤ 22.61	27.01	≤ 29.18	Pass
11a	6Mbps	64	5320	17.35	17.28	20.33	≤ 22.62	26.89	≤ 29.18	Pass
11a	6Mbps	100	5500	15.77	17.08	19.48	≤ 22.61	26.04	≤ 29.18	Pass
11a	6Mbps	116	5580	15.81	17.04	19.48	≤ 22.62	26.04	≤ 29.18	Pass
11a	6Mbps	120	5600	15.46	16.41	18.97	≤ 22.61	25.53	≤ 29.18	Pass
11a	6Mbps	140	5700	15.44	17.15	19.39	≤ 22.62	25.95	≤ 29.18	Pass
11a	6Mbps	144	5720	15.54	16.78	19.21	≤ 22.61	25.77	≤ 29.18	
11a	6Mbps	149	5745	17.63	19.41	21.62	≤ 29.44	--	--	Pass
11a	6Mbps	157	5785	17.67	19.46	21.67	≤ 29.44	--	--	Pass
11a	6Mbps	165	5825	17.62	18.98	21.36	≤ 29.44	--	--	Pass
11n-HT20	MCS0	36	5180	12.33	12.15	15.25	--	21.81	≤ 22.53	Pass
11n-HT20	MCS0	44	5220	12.10	11.92	15.02	--	21.58	≤ 22.53	Pass
11n-HT20	MCS0	48	5240	12.22	11.59	14.93	--	21.49	≤ 22.53	Pass
11n-HT20	MCS0	52	5260	19.21	19.24	22.24	≤ 22.93	28.80	≤ 29.49	Pass
11n-HT20	MCS0	60	5300	18.47	19.02	21.76	≤ 22.93	28.32	≤ 29.49	Pass
11n-HT20	MCS0	64	5320	18.24	18.97	21.63	≤ 22.93	28.19	≤ 29.49	Pass
11n-HT20	MCS0	100	5500	16.54	18.41	20.59	≤ 22.93	27.15	≤ 29.49	Pass
11n-HT20	MCS0	116	5580	16.97	17.87	20.45	≤ 22.93	27.01	≤ 29.49	Pass
11n-HT20	MCS0	120	5600	16.27	16.90	19.61	≤ 22.93	26.17	≤ 29.49	Pass
11n-HT20	MCS0	140	5700	16.01	16.76	19.41	≤ 22.93	25.97	≤ 29.49	Pass
11n-HT20	MCS0	144	5720	16.23	16.56	19.41	≤ 22.93	25.97	≤ 29.49	
11n-HT20	MCS0	149	5745	17.85	19.15	21.56	≤ 29.44	--	--	Pass
11n-HT20	MCS0	157	5785	18.02	19.39	21.77	≤ 29.44	--	--	Pass
11n-HT20	MCS0	165	5825	18.19	19.09	21.67	≤ 29.44	--	--	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Max EIRP (dBm)	EIRP Limit (dBm)	Result
11n-HT40	MCS0	38	5190	12.82	13.30	16.08	--	22.64	≤ 23.01	Pass
11n-HT40	MCS0	46	5230	13.15	13.47	16.32	--	22.88	≤ 23.01	Pass
11n-HT40	MCS0	54	5270	18.91	19.39	22.17	≤ 23.42	28.73	≤ 30.00	Pass
11n-HT40	MCS0	62	5310	17.98	19.06	21.56	≤ 23.42	28.12	≤ 30.00	Pass
11n-HT40	MCS0	102	5510	16.71	18.23	20.55	≤ 23.42	27.11	≤ 30.00	Pass
11n-HT40	MCS0	110	5550	18.36	19.41	21.93	≤ 23.42	28.49	≤ 30.00	Pass
11n-HT40	MCS0	118	5590	18.59	19.31	21.98	≤ 23.42	28.54	≤ 30.00	Pass
11n-HT40	MCS0	134	5670	17.64	19.35	21.59	≤ 23.42	28.15	≤ 30.00	Pass
11n-HT40	MCS0	142	5710	17.54	18.83	21.24	≤ 23.42	27.80	≤ 30.00	
11n-HT40	MCS0	151	5755	17.82	19.49	21.75	≤ 29.44	--	--	Pass
11n-HT40	MCS0	159	5795	17.85	19.38	21.69	≤ 29.44	--	--	Pass
11ac-VHT20	MCS0	36	5180	12.33	12.13	15.24	--	21.80	≤ 22.53	Pass
11ac-VHT20	MCS0	44	5220	12.11	11.93	15.03	--	21.59	≤ 22.53	Pass
11ac-VHT20	MCS0	48	5240	12.21	11.62	14.94	--	21.50	≤ 22.53	Pass
11ac-VHT20	MCS0	52	5260	18.85	18.77	21.82	≤ 22.93	28.38	≤ 29.49	Pass
11ac-VHT20	MCS0	60	5300	18.61	19.01	21.82	≤ 22.93	28.38	≤ 29.49	Pass
11ac-VHT20	MCS0	64	5320	18.27	18.96	21.64	≤ 22.93	28.20	≤ 29.49	Pass
11ac-VHT20	MCS0	100	5500	16.46	18.41	20.55	≤ 22.93	27.11	≤ 29.49	Pass
11ac-VHT20	MCS0	116	5580	16.15	17.36	19.81	≤ 22.93	26.37	≤ 29.49	Pass
11ac-VHT20	MCS0	120	5600	16.23	16.90	19.59	≤ 22.93	26.15	≤ 29.49	Pass
11ac-VHT20	MCS0	140	5700	16.48	17.25	19.89	≤ 22.93	26.45	≤ 29.49	Pass
11ac-VHT20	MCS0	144	5720	16.49	17.40	19.98	≤ 22.93	26.54	≤ 29.49	Pass
11ac-VHT20	MCS0	149	5745	17.79	19.16	21.54	≤ 29.44	--	--	Pass
11ac-VHT20	MCS0	157	5785	17.45	18.99	21.30	≤ 29.44	--	--	Pass
11ac-VHT20	MCS0	165	5825	18.15	19.01	21.61	≤ 29.44	--	--	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Max EIRP (dBm)	EIRP Limit (dBm)	Result
11ac-VHT40	MCS0	38	5190	12.81	13.32	16.08	--	22.64	≤ 23.01	Pass
11ac-VHT40	MCS0	46	5230	13.14	13.48	16.32	--	22.88	≤ 23.01	Pass
11ac-VHT40	MCS0	54	5270	19.02	19.37	22.21	≤ 23.42	28.77	≤ 30.00	Pass
11ac-VHT40	MCS0	62	5310	18.40	19.04	21.74	≤ 23.42	28.30	≤ 30.00	Pass
11ac-VHT40	MCS0	102	5510	17.92	19.26	21.65	≤ 23.42	28.21	≤ 30.00	Pass
11ac-VHT40	MCS0	110	5550	17.63	19.39	21.61	≤ 23.42	28.17	≤ 30.00	Pass
11ac-VHT40	MCS0	118	5590	18.59	19.36	22.00	≤ 23.42	28.56	≤ 30.00	Pass
11ac-VHT40	MCS0	134	5670	17.66	19.34	21.59	≤ 23.42	28.15	≤ 30.00	Pass
11ac-VHT40	MCS0	142	5710	17.49	19.11	21.39	≤ 23.42	27.95	≤ 30.00	Pass
11ac-VHT40	MCS0	151	5755	17.29	19.01	21.24	≤ 29.44	--	--	Pass
11ac-VHT40	MCS0	159	5795	17.74	19.38	21.65	≤ 29.44	--	--	Pass
11ac-VHT80	MCS0	42	5210	13.09	13.31	16.21	--	22.77	≤ 23.01	Pass
11ac-VHT80	MCS0	58	5290	17.00	17.68	20.36	≤ 23.42	26.92	≤ 30.00	Pass
11ac-VHT80	MCS0	106	5530	17.14	18.57	20.92	≤ 23.42	27.48	≤ 30.00	Pass
11ac-VHT80	MCS0	122	5610	18.48	19.33	21.94	≤ 23.42	28.50	≤ 30.00	Pass
11ac-VHT80	MCS0	138	5690	17.90	19.21	21.61	≤ 23.42	28.17	≤ 30.00	Pass
11ac-VHT80	MCS0	155	5775	17.61	19.01	21.38	≤ 29.44	--	--	Pass

Note 1: The Total Average Power (dBm) = $10 \cdot \log_{10} \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$.

Note 2: Max EIRP Power (dBm) = Total Average Power (dBm) + Antenna Gain.

EIRP Limit Calculation as below:

For 5150-5250MHz

$$802.11a: 10 + 10 \log_{10} (16.66\text{MHz}) = 22.22\text{dBm} < 23.01\text{dBm};$$

$$802.11n\text{-HT20}: 10 + 10 \log_{10} (17.92\text{MHz}) = 22.53\text{dBm} < 23.01\text{dBm};$$

$$802.11ac\text{-VHT20}: 10 + 10 \log_{10} (17.91\text{MHz}) = 22.53\text{dBm} < 23.01\text{dBm};$$

$$802.11n\text{-HT40}/ac\text{-VHT40}/ac\text{-VHT80}: 10 + 10 \log_{10} B > 23.01\text{dBm};$$

For 5250-5350MHz, 5470-5725MHz

$$802.11a: 17 + 10 \log_{10} (16.53\text{MHz}) = 29.18\text{dBm} < 30\text{dBm};$$

$$802.11n\text{-HT20}: 17 + 10 \log_{10} (17.74\text{MHz}) = 29.49\text{dBm} < 30\text{dBm};$$

$$802.11ac\text{-VHT20}: 17 + 10 \log_{10} (17.76\text{MHz}) = 29.49\text{dBm} < 30\text{dBm};$$

$$802.11n\text{-HT40}/ac\text{-VHT40}/ac\text{-VHT80}: 10 + 10 \log_{10} B > 30\text{dBm};$$

Note 3: Max Conducted Output Power Limit Calculation as below:

For 5250-5350MHz, 5470-5725MHz

$$802.11a: 11 + 10 \log_{10} (16.53\text{MHz}) = 23.18\text{dBm} < 23.98\text{dBm};$$

$$\text{Limit (dBm)} = 23.18\text{dBm} - (6.56\text{dBi} - 6\text{dBi}) = 22.62\text{dBm}$$

802.11n-HT20: $11 + 10 \log_{10} (17.74\text{MHz}) = 23.49\text{dBm} < 23.98\text{dBm}$;

Limit (dBm) = $23.49\text{dBm} - (6.56\text{dBi} - 6\text{dBi}) = 22.93\text{dBm}$

802.11ac-VHT20: $11 + 10 \log_{10} (17.76\text{MHz}) = 23.49\text{dBm} < 23.98\text{dBm}$;

Limit (dBm) = $23.49\text{dBm} - (6.56\text{dBi} - 6\text{dBi}) = 22.93\text{dBm}$

802.11n-HT40/ac-VHT40/ac-VHT80: $11 + 10 \log_{10} B > 23.98\text{dBm}$;

Limit (dBm) = $23.98\text{dBm} - (6.56\text{dBi} - 6\text{dBi}) = 23.42\text{dB}$

For 5725-5850MHz: Limit (dBm) = $30\text{dBm} - (6.56\text{dBi} - 6\text{dBi}) = 29.44\text{dBm}$

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Max EIRP (dBm)	EIRP Limit (dBm)	Result
Ant 0 + 1 (Beam-Forming Mode)										
11n-HT20	MCS0	36	5180	12.33	12.15	15.25	--	21.81	≤ 22.53	Pass
11n-HT20	MCS0	44	5220	12.10	11.92	15.02	--	21.58	≤ 22.53	Pass
11n-HT20	MCS0	48	5240	12.22	11.59	14.93	--	21.49	≤ 22.53	Pass
11n-HT20	MCS0	52	5260	19.21	19.24	22.24	≤ 22.93	28.80	≤ 29.49	Pass
11n-HT20	MCS0	60	5300	18.47	19.02	21.76	≤ 22.93	28.32	≤ 29.49	Pass
11n-HT20	MCS0	64	5320	18.24	18.97	21.63	≤ 22.93	28.19	≤ 29.49	Pass
11n-HT20	MCS0	100	5500	16.54	18.41	20.59	≤ 22.93	27.15	≤ 29.49	Pass
11n-HT20	MCS0	116	5580	16.97	17.87	20.45	≤ 22.93	27.01	≤ 29.49	Pass
11n-HT20	MCS0	120	5600	16.27	16.90	19.61	≤ 22.93	26.17	≤ 29.49	Pass
11n-HT20	MCS0	140	5700	18.41	18.95	21.70	≤ 22.93	28.26	≤ 29.49	Pass
11n-HT20	MCS0	144	5720	18.23	18.54	21.40	≤ 22.93	27.96	≤ 29.49	
11n-HT20	MCS0	149	5745	17.85	19.15	21.56	≤ 29.44	--	--	Pass
11n-HT20	MCS0	157	5785	18.02	19.39	21.77	≤ 29.44	--	--	Pass
11n-HT20	MCS0	165	5825	18.19	19.09	21.67	≤ 29.44	--	--	Pass
11n-HT40	MCS0	38	5190	12.82	13.30	16.08	--	22.64	≤ 23.01	Pass
11n-HT40	MCS0	46	5230	13.15	13.47	16.32	--	22.88	≤ 23.01	Pass
11n-HT40	MCS0	54	5270	18.91	19.39	22.17	≤ 23.42	28.73	≤ 30.00	Pass
11n-HT40	MCS0	62	5310	17.98	19.06	21.56	≤ 23.42	28.12	≤ 30.00	Pass
11n-HT40	MCS0	102	5510	18.59	19.72	22.20	≤ 23.42	28.76	≤ 30.00	Pass
11n-HT40	MCS0	110	5550	18.36	19.41	21.93	≤ 23.42	28.49	≤ 30.00	Pass
11n-HT40	MCS0	118	5590	18.59	19.31	21.98	≤ 23.42	28.54	≤ 30.00	Pass
11n-HT40	MCS0	134	5670	17.64	19.35	21.59	≤ 23.42	28.15	≤ 30.00	Pass
11n-HT40	MCS0	142	5710	17.55	18.98	21.33	≤ 23.42	27.89	≤ 30.00	
11n-HT40	MCS0	151	5755	17.82	19.49	21.75	≤ 29.44	--	--	Pass
11n-HT40	MCS0	159	5795	17.85	19.38	21.69	≤ 29.44	--	--	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Max EIRP (dBm)	EIRP Limit (dBm)	Result
11ac-VHT20	MCS0	36	5180	12.33	12.13	15.24	--	21.80	≤ 22.53	Pass
11ac-VHT20	MCS0	44	5220	12.11	11.93	15.03	--	21.59	≤ 22.53	Pass
11ac-VHT20	MCS0	48	5240	12.21	11.62	14.94	--	21.50	≤ 22.53	Pass
11ac-VHT20	MCS0	52	5260	18.85	18.77	21.82	≤ 22.93	28.38	≤ 29.49	Pass
11ac-VHT20	MCS0	60	5300	18.61	19.01	21.82	≤ 22.93	28.38	≤ 29.49	Pass
11ac-VHT20	MCS0	64	5320	18.27	18.96	21.64	≤ 22.93	28.20	≤ 29.49	Pass
11ac-VHT20	MCS0	100	5500	16.46	18.41	20.55	≤ 22.93	27.11	≤ 29.49	Pass
11ac-VHT20	MCS0	116	5580	16.15	17.36	19.81	≤ 22.93	26.37	≤ 29.49	Pass
11ac-VHT20	MCS0	120	5600	16.23	16.90	19.59	≤ 22.93	26.15	≤ 29.49	Pass
11ac-VHT20	MCS0	140	5700	16.48	17.25	19.89	≤ 22.93	26.45	≤ 29.49	Pass
11ac-VHT20	MCS0	144	5720	16.49	17.40	19.98	≤ 22.93	26.54	≤ 29.49	Pass
11ac-VHT20	MCS0	149	5745	17.79	19.16	21.54	≤ 29.44	--	--	Pass
11ac-VHT20	MCS0	157	5785	17.45	18.99	21.30	≤ 29.44	--	--	Pass
11ac-VHT20	MCS0	165	5825	18.15	19.01	21.61	≤ 29.44	--	--	Pass
11ac-VHT40	MCS0	38	5190	12.81	13.32	16.08	--	22.64	≤ 23.01	Pass
11ac-VHT40	MCS0	46	5230	13.14	13.48	16.32	--	22.88	≤ 23.01	Pass
11ac-VHT40	MCS0	54	5270	19.02	19.37	22.21	≤ 23.42	28.77	≤ 30.00	Pass
11ac-VHT40	MCS0	62	5310	18.40	19.04	21.74	≤ 23.42	28.30	≤ 30.00	Pass
11ac-VHT40	MCS0	102	5510	17.92	19.26	21.65	≤ 23.42	28.21	≤ 30.00	Pass
11ac-VHT40	MCS0	110	5550	17.63	19.39	21.61	≤ 23.42	28.17	≤ 30.00	Pass
11ac-VHT40	MCS0	118	5590	18.59	19.36	22.00	≤ 23.42	28.56	≤ 30.00	Pass
11ac-VHT40	MCS0	134	5670	17.66	19.34	21.59	≤ 23.42	28.15	≤ 30.00	Pass
11ac-VHT40	MCS0	142	5710	17.49	19.11	21.39	≤ 23.42	27.95	≤ 30.00	Pass
11ac-VHT40	MCS0	151	5755	17.29	19.01	21.24	≤ 29.44	--	--	Pass
11ac-VHT40	MCS0	159	5795	17.74	19.38	21.65	≤ 29.44	--	--	Pass
11ac-VHT80	MCS0	42	5210	13.09	13.31	16.21	--	22.77	≤ 23.01	Pass
11ac-VHT80	MCS0	58	5290	17.61	17.92	20.78	≤ 23.42	27.34	≤ 30.00	Pass
11ac-VHT80	MCS0	106	5530	18.37	19.51	21.99	≤ 23.42	28.55	≤ 30.00	Pass
11ac-VHT80	MCS0	122	5610	18.48	19.33	21.94	≤ 23.42	28.50	≤ 30.00	Pass
11ac-VHT80	MCS0	138	5690	17.90	19.21	21.61	≤ 23.42	28.17	≤ 30.00	Pass
11ac-VHT80	MCS0	155	5775	17.61	19.01	21.38	≤ 29.44	--	--	Pass

Note 1: The Total Average Power (dBm) = $10 \cdot \log_{10} \left(10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} \right)$.

Note 2: Max EIRP Power (dBm) = Total Average Power (dBm) + Antenna Gain.

EIRP Limit Calculation as below:

For 5150-5250MHz

$$802.11a: 10 + 10 \log_{10} (16.66\text{MHz}) = 22.22\text{dBm} < 23.01\text{dBm};$$

$$802.11n\text{-HT20}: 10 + 10 \log_{10} (17.92\text{MHz}) = 22.53\text{dBm} < 23.01\text{dBm};$$

$$802.11ac\text{-VHT20}: 10 + 10 \log_{10} (17.91\text{MHz}) = 22.53\text{dBm} < 23.01\text{dBm};$$

$$802.11n\text{-HT40}/ac\text{-VHT40}/ac\text{-VHT80}: 10 + 10 \log_{10} B > 23.01\text{dBm};$$

For 5250-5350MHz, 5470-5725MHz

$$802.11a: 17 + 10 \log_{10} (16.53\text{MHz}) = 29.18\text{dBm} < 30\text{dBm};$$

$$802.11n\text{-HT20}: 17 + 10 \log_{10} (17.74\text{MHz}) = 29.49\text{dBm} < 30\text{dBm};$$

$$802.11ac\text{-VHT20}: 17 + 10 \log_{10} (17.76\text{MHz}) = 29.49\text{dBm} < 30\text{dBm};$$

$$802.11n\text{-HT40}/ac\text{-VHT40}/ac\text{-VHT80}: 10 + 10 \log_{10} B > 30\text{dBm};$$

Note 3: Max Conducted Output Power Limit Calculation as below:

For 5250-5350MHz, 5470-5725MHz

$$802.11a: 11 + 10 \log_{10} (16.53\text{MHz}) = 23.18\text{dBm} < 23.98\text{dBm};$$

$$\text{Limit (dBm)} = 23.18\text{dBm} - (6.56\text{dBi} - 6\text{dBi}) = 22.62\text{dBm}$$

$$802.11n\text{-HT20}: 11 + 10 \log_{10} (17.74\text{MHz}) = 23.49\text{dBm} < 23.98\text{dBm};$$

$$\text{Limit (dBm)} = 23.49\text{dBm} - (6.56\text{dBi} - 6\text{dBi}) = 22.93\text{dBm}$$

$$802.11ac\text{-VHT20}: 11 + 10 \log_{10} (17.76\text{MHz}) = 23.49\text{dBm} < 23.98\text{dBm};$$

$$\text{Limit (dBm)} = 23.49\text{dBm} - (6.56\text{dBi} - 6\text{dBi}) = 22.93\text{dBm}$$

$$802.11n\text{-HT40}/ac\text{-VHT40}/ac\text{-VHT80}: 11 + 10 \log_{10} B > 23.98\text{dBm};$$

$$\text{Limit (dBm)} = 23.98\text{dBm} - (6.56\text{dBi} - 6\text{dBi}) = 23.42\text{dB}$$

$$\text{For 5725-5850MHz: Limit (dBm)} = 30\text{dBm} - (6.56\text{dBi} - 6\text{dBi}) = 29.44\text{dBm}$$

7.6. Transmit Power Control

7.6.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

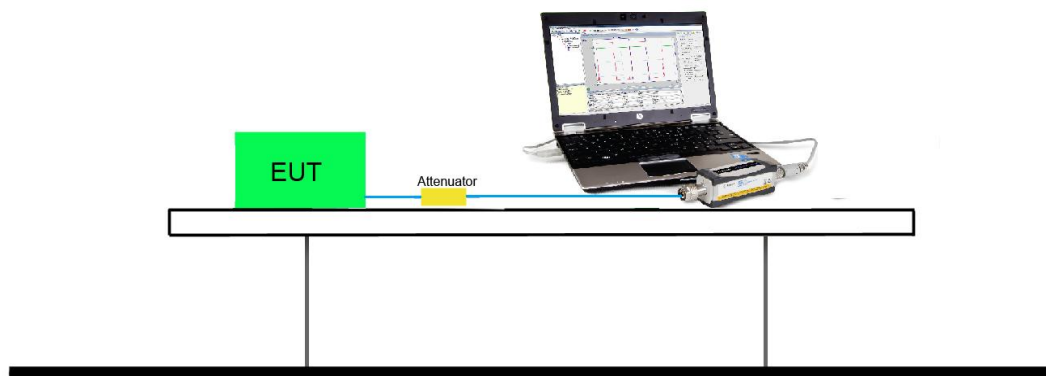
7.6.2. Test Procedure Used

KDB 789033 D02v01 - Section E) 3) b) Method PM-G

7.6.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

7.6.4. Test Setup



7.6.5.Test Result

Product	Wi-Fi Extender	Temperature	22°C
Test Engineer	Lewis Huang	Relative Humidity	54%
Test Site	TR3	Test Date	2017/06/25

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 0 TPC Power (dBm)	Ant 1 TPC Power (dBm)	Total TPC Power (dBm)	EIRP TPC Power (dBm)	Limit (dBm)	Result
Ant 0 + 1									
11a	6	52	5260	13.78	14.21	17.01	23.57	≤ 24.00	Pass
11a	6	60	5300	13.88	14.11	17.01	23.57	≤ 24.00	Pass
11a	6	64	5320	13.75	14.15	16.96	23.52	≤ 24.00	Pass
11a	6	100	5500	13.59	14.21	16.92	23.48	≤ 24.00	Pass
11a	6	118	5580	13.54	14.02	16.80	23.36	≤ 24.00	Pass
11a	6	120	5600	13.75	14.21	17.00	23.56	≤ 24.00	Pass
11a	6	140	5700	13.68	14.18	16.95	23.51	≤ 24.00	Pass
11a	6	144	5720	13.16	13.98	16.60	23.16	≤ 24.00	Pass
11n-HT20	MCS0	52	5260	13.86	14.11	17.00	23.56	≤ 24.00	Pass
11n-HT20	MCS0	60	5300	13.38	13.86	16.64	23.20	≤ 24.00	Pass
11n-HT20	MCS0	64	5320	13.42	14.11	16.79	23.35	≤ 24.00	Pass
11n-HT20	MCS0	100	5500	13.56	14.02	16.81	23.37	≤ 24.00	Pass
11n-HT20	MCS0	118	5580	13.46	13.98	16.74	23.30	≤ 24.00	Pass
11n-HT20	MCS0	120	5600	13.32	13.88	16.62	23.18	≤ 24.00	Pass
11n-HT20	MCS0	140	5700	13.45	14.02	16.75	23.31	≤ 24.00	Pass
11n-HT20	MCS0	144	5720	13.56	14.12	16.86	23.42	≤ 24.00	Pass
11n-HT40	MCS0	54	5270	13.53	13.64	16.60	23.16	≤ 24.00	Pass
11n-HT40	MCS0	62	5310	13.35	13.76	16.57	23.13	≤ 24.00	Pass
11n-HT40	MCS0	102	5510	13.39	14.06	16.75	23.31	≤ 24.00	Pass
11n-HT40	MCS0	110	5550	13.62	14.12	16.89	23.45	≤ 24.00	Pass
11n-HT40	MCS0	118	5590	13.21	13.89	16.57	23.13	≤ 24.00	Pass
11n-HT40	MCS0	134	5670	13.32	14.11	16.74	23.30	≤ 24.00	Pass
11n-HT40	MCS0	142	5710	13.41	13.98	16.71	23.27	≤ 24.00	Pass

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 0 TPC Power (dBm)	Ant 1 TPC Power (dBm)	Total TPC Power (dBm)	EIRP TPC Power (dBm)	Limit (dBm)	Result
11ac-VHT20	MCS0	52	5260	13.67	14.11	16.91	23.47	≤ 24.00	Pass
11ac-VHT20	MCS0	60	5300	13.57	14.02	16.81	23.37	≤ 24.00	Pass
11ac-VHT20	MCS0	64	5320	13.62	14.19	16.92	23.48	≤ 24.00	Pass
11ac-VHT20	MCS0	100	5500	13.45	14.03	16.76	23.32	≤ 24.00	Pass
11ac-VHT20	MCS0	116	5580	13.54	13.89	16.73	23.29	≤ 24.00	Pass
11ac-VHT20	MCS0	120	5600	13.41	13.87	16.66	23.22	≤ 24.00	Pass
11ac-VHT20	MCS0	140	5700	13.62	13.66	16.65	23.21	≤ 24.00	Pass
11ac-VHT20	MCS0	144	5720	13.45	14.19	16.85	23.41	≤ 24.00	Pass
11ac-VHT40	MCS0	54	5270	13.67	14.11	16.91	23.47	≤ 24.00	Pass
11ac-VHT40	MCS0	62	5310	13.56	14.02	16.81	23.37	≤ 24.00	Pass
11ac-VHT40	MCS0	102	5510	13.47	14.04	16.77	23.33	≤ 24.00	Pass
11ac-VHT40	MCS0	110	5550	13.67	13.89	16.79	23.35	≤ 24.00	Pass
11ac-VHT40	MCS0	118	5590	13.65	13.92	16.80	23.36	≤ 24.00	Pass
11ac-VHT40	MCS0	134	5670	13.43	14.11	16.79	23.35	≤ 24.00	Pass
11ac-VHT40	MCS0	142	5710	13.64	14.21	16.94	23.50	≤ 24.00	Pass
11ac-VHT80	MCS0	58	5290	13.42	13.55	16.50	23.06	≤ 24.00	Pass
11ac-VHT80	MCS0	106	5530	13.50	14.02	16.78	23.34	≤ 24.00	Pass
11ac-VHT80	MCS0	122	5610	13.45	13.89	16.69	23.25	≤ 24.00	Pass
11ac-VHT80	MCS0	138	5690	13.47	13.95	16.73	23.29	≤ 24.00	Pass

Note: Total EIRP TPC Power (dBm) = $10 \cdot \log\{10^{(\text{Ant 0 TPC Power} / 10)} + 10^{(\text{Ant 1 TPC Power} / 10)}\} + \text{Antenna Gain (dBi)}$.

7.7. Power Spectral Density Measurement

7.7.1. Test Limit

For FCC

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

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

For IC

For the band 5.15-5.25 GHz, the e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

For the band 5.25-5.35 GHz and 5.47-5.725 GHz, the power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

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

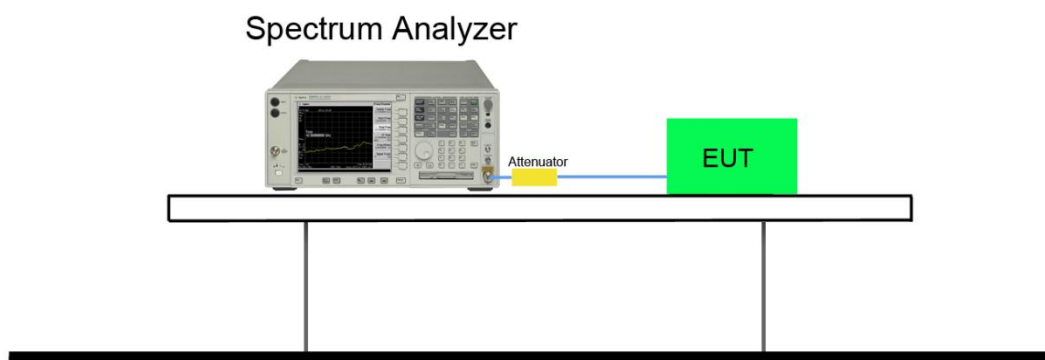
7.7.2. Test Procedure Used

KDB 789033 D02v01r04 - Section F

7.7.3.Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz,
4. RBW = 100 kHz
5. VBW = 3MHz
6. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
7. Detector = power averaging (Average)
8. Sweep time = auto
9. Trigger = free run
10. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
11. Add $10 \cdot \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \cdot \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
12. When the measurement bandwidth of Maximum PSD is specified in 500 kHz, add a constant factor $10 \cdot \log(500\text{kHz}/100\text{kHz}) = 6.99$ dB to the measured result

7.7.4.Test Setup



7.7.5.Test Result

Product	Wi-Fi Extender	Temperature	22°C
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	TR3	Test Date	2017/05/27
Frequency Range	5150 ~ 5250MHz, 5250 ~ 5350MHz, 5470 ~ 5725MHz		

For FCC bands (UNII-2A & UNII-2C) & IC bands (UNII-1 & UNII-2A & UNII-2C)

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/MHz)	Duty Cycle (%)	Final PSD (dBm/MHz)	PSD Limit (dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
Ant 0										
11a	6Mbps	36	5180	6.08	96.07	6.25	--	9.69	≤ 10.00	Pass
11a	6Mbps	44	5220	5.93	96.07	6.10	--	9.54	≤ 10.00	Pass
11a	6Mbps	48	5240	5.78	96.07	5.95	--	9.39	≤ 10.00	Pass
11a	6Mbps	52	5260	7.55	96.07	7.72	≤ 11.00	--	--	Pass
11a	6Mbps	60	5300	7.50	96.07	7.67	≤ 11.00	--	--	Pass
11a	6Mbps	64	5320	7.90	96.07	8.07	≤ 11.00	--	--	Pass
11a	6Mbps	100	5500	7.47	96.07	7.64	≤ 11.00	--	--	Pass
11a	6Mbps	116	5580	7.95	96.07	8.12	≤ 11.00	--	--	Pass
11a	6Mbps	120	5600	8.05	96.07	8.22	≤ 11.00	--	--	Pass
11a	6Mbps	140	5700	7.47	96.07	7.64	≤ 11.00	--	--	Pass
11a	6Mbps	144	5720	6.97	96.07	7.14	≤ 11.00	--	--	Pass
11n-HT20	MCS0	36	5180	5.98	98.23	5.98	--	9.42	≤ 10.00	Pass
11n-HT20	MCS0	44	5220	5.96	98.23	5.96	--	9.40	≤ 10.00	Pass
11n-HT20	MCS0	48	5240	5.99	98.23	5.99	--	9.43	≤ 10.00	Pass
11n-HT20	MCS0	52	5260	6.96	98.23	6.96	≤ 11.00	--	--	Pass
11n-HT20	MCS0	60	5300	7.05	98.23	7.05	≤ 11.00	--	--	Pass
11n-HT20	MCS0	64	5320	7.45	98.23	7.45	≤ 11.00	--	--	Pass
11n-HT20	MCS0	100	5500	7.18	98.23	7.18	≤ 11.00	--	--	Pass
11n-HT20	MCS0	116	5580	7.42	98.23	7.42	≤ 11.00	--	--	Pass
11n-HT20	MCS0	120	5600	7.37	98.23	7.37	≤ 11.00	--	--	Pass
11n-HT20	MCS0	140	5700	7.68	98.23	7.68	≤ 11.00	--	--	Pass
11n-HT20	MCS0	144	5720	6.47	98.23	6.47	≤ 11.00	--	--	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	PSD (dBm/MHz)	Duty Cycle (%)	Final PSD (dBm/MHz)	PSD Limit (dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
11n-HT40	MCS0	38	5190	4.28	96.61	4.43	--	7.87	≤ 10.00	Pass
11n-HT40	MCS0	46	5230	4.19	96.61	4.34	--	7.78	≤ 10.00	Pass
11n-HT40	MCS0	54	5270	4.07	96.61	4.22	≤ 11.00	--	--	Pass
11n-HT40	MCS0	62	5310	4.42	96.61	4.57	≤ 11.00	--	--	Pass
11n-HT40	MCS0	102	5510	4.44	96.61	4.59	≤ 11.00	--	--	Pass
11n-HT40	MCS0	110	5550	4.52	96.61	4.67	≤ 11.00	--	--	Pass
11n-HT40	MCS0	118	5590	4.77	96.61	4.92	≤ 11.00	--	--	Pass
11n-HT40	MCS0	134	5670	4.46	96.61	4.61	≤ 11.00	--	--	Pass
11n-HT40	MCS0	142	5710	4.93	96.61	5.08	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	36	5180	5.82	98.23	5.82	--	9.26	≤ 10.00	Pass
11ac-VHT20	MCS0	44	5220	6.07	98.23	6.07	--	9.51	≤ 10.00	Pass
11ac-VHT20	MCS0	48	5240	6.08	98.23	6.08	--	9.52	≤ 10.00	Pass
11ac-VHT20	MCS0	52	5260	7.62	98.23	7.62	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	60	5300	7.54	98.23	7.54	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	64	5320	7.43	98.23	7.43	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	100	5500	7.43	98.23	7.43	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	116	5580	7.68	98.23	7.68	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	120	5600	7.94	98.23	7.94	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	140	5700	7.24	98.23	7.24	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	144	5720	7.41	98.23	7.41	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	38	5190	4.33	96.62	4.48	--	7.92	≤ 10.00	Pass
11ac-VHT40	MCS0	46	5230	4.34	96.62	4.49	--	7.93	≤ 10.00	Pass
11ac-VHT40	MCS0	54	5270	4.25	96.62	4.40	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	62	5310	4.92	96.62	5.07	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	102	5510	4.61	96.62	4.76	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	110	5550	4.62	96.62	4.77	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	118	5590	4.64	96.62	4.79	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	134	5670	4.43	96.62	4.58	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	142	5710	4.54	96.62	4.69	≤ 11.00	--	--	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	PSD (dBm/MHz)	Duty Cycle (%)	Final PSD (dBm/MHz)	PSD Limit (dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
11ac-VHT80	MCS0	42	5210	1.58	93.17	1.89	--	5.33	≤ 10.00	Pass
11ac-VHT80	MCS0	58	5290	0.97	93.17	1.28	≤ 11.00	--	--	Pass
11ac-VHT80	MCS0	106	5530	1.33	93.17	1.64	≤ 11.00	--	--	Pass
11ac-VHT80	MCS0	122	5610	0.86	93.17	1.17	≤ 11.00	--	--	Pass
11ac-VHT80	MCS0	138	5690	0.93	93.17	1.24	≤ 11.00	--	--	Pass

Note 1: When EUT duty cycle ≥ 98%, the Final PSD (dBm/MHz) = PSD (dBm/MHz).

Note 2: When EUT duty cycle < 98%, the Final PSD (dBm/MHz) = PSD (dBm/MHz) + 10*log(1/Duty Cycle).

Note 3: EIRP PSD (dBm/MHz) = Final PSD (dBm/MHz) + Antenna Gain(dBi)

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	PSD (dBm/MHz)	Duty Cycle (%)	Final PSD (dBm/MHz)	PSD Limit (dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
Ant 1										
11a	6Mbps	36	5180	6.02	96.07	6.19	--	9.85	≤ 10.00	Pass
11a	6Mbps	44	5220	5.99	96.07	6.16	--	9.82	≤ 10.00	Pass
11a	6Mbps	48	5240	5.35	96.07	5.52	--	9.18	≤ 10.00	Pass
11a	6Mbps	52	5260	8.12	96.07	8.29	≤ 11.00	--	--	Pass
11a	6Mbps	60	5300	8.02	96.07	8.19	≤ 11.00	--	--	Pass
11a	6Mbps	64	5320	8.19	96.07	8.36	≤ 11.00	--	--	Pass
11a	6Mbps	100	5500	7.69	96.07	7.86	≤ 11.00	--	--	Pass
11a	6Mbps	116	5580	8.06	96.07	8.23	≤ 11.00	--	--	Pass
11a	6Mbps	120	5600	7.90	96.07	8.07	≤ 11.00	--	--	Pass
11a	6Mbps	140	5700	7.32	96.07	7.49	≤ 11.00	--	--	Pass
11a	6Mbps	144	5720	7.26	96.07	7.43	≤ 11.00	--	--	Pass
11n-HT20	MCS0	36	5180	6.09	98.23	6.09	--	9.75	≤ 10.00	Pass
11n-HT20	MCS0	44	5220	6.09	98.23	6.09	--	9.75	≤ 10.00	Pass
11n-HT20	MCS0	48	5240	5.86	98.23	5.86	--	9.52	≤ 10.00	Pass
11n-HT20	MCS0	52	5260	7.54	98.23	7.54	≤ 11.00	--	--	Pass
11n-HT20	MCS0	60	5300	8.10	98.23	8.10	≤ 11.00	--	--	Pass
11n-HT20	MCS0	64	5320	7.91	98.23	7.91	≤ 11.00	--	--	Pass
11n-HT20	MCS0	100	5500	8.25	98.23	8.25	≤ 11.00	--	--	Pass
11n-HT20	MCS0	116	5580	7.61	98.23	7.61	≤ 11.00	--	--	Pass
11n-HT20	MCS0	120	5600	7.68	98.23	7.68	≤ 11.00	--	--	Pass
11n-HT20	MCS0	140	5700	7.12	98.23	7.12	≤ 11.00	--	--	Pass
11n-HT20	MCS0	144	5720	7.05	98.23	7.05	≤ 11.00	--	--	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	PSD (dBm/MHz)	Duty Cycle (%)	Final PSD (dBm/MHz)	PSD Limit (dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
11n-HT40	MCS0	38	5190	4.05	96.61	4.20	--	7.86	≤ 10.00	Pass
11n-HT40	MCS0	46	5230	4.26	96.61	4.41	--	8.07	≤ 10.00	Pass
11n-HT40	MCS0	54	5270	4.59	96.61	4.74	≤ 11.00	--	--	Pass
11n-HT40	MCS0	62	5310	5.00	96.61	5.15	≤ 11.00	--	--	Pass
11n-HT40	MCS0	102	5510	4.68	96.61	4.83	≤ 11.00	--	--	Pass
11n-HT40	MCS0	110	5550	4.75	96.61	4.90	≤ 11.00	--	--	Pass
11n-HT40	MCS0	118	5590	4.50	96.61	4.65	≤ 11.00	--	--	Pass
11n-HT40	MCS0	134	5670	4.14	96.61	4.29	≤ 11.00	--	--	Pass
11n-HT40	MCS0	142	5710	3.91	96.61	4.74	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	36	5180	6.10	98.23	6.10	--	9.76	≤ 10.00	Pass
11ac-VHT20	MCS0	44	5220	6.03	98.23	6.03	--	9.69	≤ 10.00	Pass
11ac-VHT20	MCS0	48	5240	5.90	98.23	5.90	--	9.56	≤ 10.00	Pass
11ac-VHT20	MCS0	52	5260	7.24	98.23	7.24	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	60	5300	7.81	98.23	7.81	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	64	5320	8.00	98.23	8.00	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	100	5500	7.94	98.23	7.94	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	116	5580	7.44	98.23	7.44	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	120	5600	7.66	98.23	7.66	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	140	5700	7.12	98.23	7.12	≤ 11.00	--	--	Pass
11ac-VHT20	MCS0	144	5720	7.32	98.23	7.32	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	38	5190	3.87	96.62	4.02	--	7.68	≤ 10.00	Pass
11ac-VHT40	MCS0	46	5230	4.13	96.62	4.28	--	7.94	≤ 10.00	Pass
11ac-VHT40	MCS0	54	5270	4.22	96.62	4.37	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	62	5310	4.15	96.62	4.30	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	102	5510	4.68	96.62	4.83	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	110	5550	4.76	96.62	4.91	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	118	5590	4.64	96.62	4.79	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	134	5670	4.25	96.62	4.40	≤ 11.00	--	--	Pass
11ac-VHT40	MCS0	142	5710	4.36	96.62	4.51	≤ 11.00	--	--	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	PSD (dBm/MHz)	Duty Cycle (%)	Final PSD (dBm/MHz)	PSD Limit (dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
11ac-VHT80	MCS0	42	5210	1.02	93.17	1.33	--	4.99	≤ 10.00	Pass
11ac-VHT80	MCS0	58	5290	1.54	93.17	1.85	≤ 11.00	--	--	Pass
11ac-VHT80	MCS0	106	5530	2.32	93.17	2.63	≤ 11.00	--	--	Pass
11ac-VHT80	MCS0	122	5610	1.25	93.17	1.56	≤ 11.00	--	--	Pass
11ac-VHT80	MCS0	138	5690	1.30	93.17	1.61	≤ 11.00	--	--	Pass

Note 1: When EUT duty cycle ≥ 98%, the Final PSD (dBm/MHz) = PSD (dBm/MHz).

Note 2: When EUT duty cycle < 98%, the Final PSD (dBm/MHz) = PSD (dBm/MHz) + 10*log(1/Duty Cycle).

Note 3: EIRP PSD (dBm/MHz) = Final PSD (dBm/MHz) + Antenna Gain(dBi)

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
Ant 0 + 1 (CDD Mode)											
11a	6Mbps	36	5180	-0.15	0.24	96.07	3.23	--	9.79	≤ 10.00	Pass
11a	6Mbps	44	5220	-0.10	0.33	96.07	3.30	--	9.86	≤ 10.00	Pass
11a	6Mbps	48	5240	-0.11	-0.14	96.07	3.06	--	9.62	≤ 10.00	Pass
11a	6Mbps	52	5260	6.55	7.59	96.07	10.29	≤ 10.44	--	--	Pass
11a	6Mbps	60	5300	6.82	7.25	96.07	10.22	≤ 10.44	--	--	Pass
11a	6Mbps	64	5320	7.02	7.09	96.07	10.24	≤ 10.44	--	--	Pass
11a	6Mbps	100	5500	6.56	7.64	96.07	10.32	≤ 10.44	--	--	Pass
11a	6Mbps	116	5580	6.74	7.67	96.07	10.41	≤ 10.44	--	--	Pass
11a	6Mbps	120	5600	6.88	7.09	96.07	10.17	≤ 10.44	--	--	Pass
11a	6Mbps	140	5700	6.11	7.55	96.07	10.07	≤ 10.44	--	--	Pass
11a	6Mbps	144	5720	5.76	6.75	96.07	9.47	≤ 10.44	--	--	Pass
11n-HT20	MCS0	36	5180	0.54	0.16	98.23	3.36	--	9.92	≤ 10.00	Pass
11n-HT20	MCS0	44	5220	0.29	-0.04	98.23	3.14	--	9.70	≤ 10.00	Pass
11n-HT20	MCS0	48	5240	0.32	-0.39	98.23	2.99	--	9.55	≤ 10.00	Pass
11n-HT20	MCS0	52	5260	7.08	7.29	98.23	10.20	≤ 10.44	--	--	Pass
11n-HT20	MCS0	60	5300	6.99	7.38	98.23	10.20	≤ 10.44	--	--	Pass
11n-HT20	MCS0	64	5320	6.58	7.42	98.23	10.03	≤ 10.44	--	--	Pass
11n-HT20	MCS0	100	5500	6.14	7.89	98.23	10.11	≤ 10.44	--	--	Pass
11n-HT20	MCS0	116	5580	6.99	7.63	98.23	10.33	≤ 10.44	--	--	Pass
11n-HT20	MCS0	120	5600	7.14	7.48	98.23	10.32	≤ 10.44	--	--	Pass
11n-HT20	MCS0	140	5700	7.30	7.48	98.23	10.40	≤ 10.44	--	--	Pass
11n-HT20	MCS0	144	5720	5.69	6.25	98.23	8.99	≤ 10.44	--	--	Pass
11n-HT40	MCS0	38	5190	-1.69	-1.70	96.61	1.47	--	8.03	≤ 10.00	Pass
11n-HT40	MCS0	46	5230	-1.28	-1.53	96.61	1.76	--	8.32	≤ 10.00	Pass
11n-HT40	MCS0	54	5270	5.02	5.25	96.61	8.30	≤ 10.44	--	--	Pass
11n-HT40	MCS0	62	5310	4.69	5.38	96.61	8.21	≤ 10.44	--	--	Pass
11n-HT40	MCS0	102	5510	4.98	6.57	96.61	9.01	≤ 10.44	--	--	Pass
11n-HT40	MCS0	110	5550	6.00	6.90	96.61	9.63	≤ 10.44	--	--	Pass
11n-HT40	MCS0	118	5590	6.92	7.23	96.61	10.24	≤ 10.44	--	--	Pass
11n-HT40	MCS0	134	5670	6.21	7.35	96.61	9.98	≤ 10.44	--	--	Pass
11n-HT40	MCS0	142	5710	4.16	5.63	96.61	8.12	≤ 10.44	--	--	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
11ac-VHT20	MCS0	36	5180	0.33	0.21	98.23	3.28	--	9.84	≤ 10.00	Pass
11ac-VHT20	MCS0	44	5220	0.08	0.27	98.23	3.19	--	9.75	≤ 10.00	Pass
11ac-VHT20	MCS0	48	5240	0.35	-0.26	98.23	3.07	--	9.63	≤ 10.00	Pass
11ac-VHT20	MCS0	52	5260	6.95	6.99	98.23	9.98	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	60	5300	7.23	7.36	98.23	10.31	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	64	5320	6.91	7.25	98.23	10.09	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	100	5500	6.27	7.79	98.23	10.11	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	116	5580	6.61	7.73	98.23	10.22	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	120	5600	7.19	7.45	98.23	10.33	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	140	5700	6.90	7.45	98.23	10.19	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	144	5720	6.85	7.25	98.23	10.06	≤ 10.44	--	--	Pass
11ac-VHT40	MCS0	38	5190	-1.88	-1.60	96.62	1.42	--	7.98	≤ 10.00	Pass
11ac-VHT40	MCS0	46	5230	-1.40	-1.37	96.62	1.77	--	8.33	≤ 10.00	Pass
11ac-VHT40	MCS0	54	5270	4.69	5.01	96.62	8.01	≤ 10.44	--	--	Pass
11ac-VHT40	MCS0	62	5310	4.74	4.98	96.62	8.02	≤ 10.44	--	--	Pass
11ac-VHT40	MCS0	102	5510	4.80	6.38	96.62	8.82	≤ 10.44	--	--	Pass
11ac-VHT40	MCS0	110	5550	5.71	6.74	96.62	9.42	≤ 10.44	--	--	Pass
11ac-VHT40	MCS0	118	5590	6.67	7.15	96.62	10.08	≤ 10.44	--	--	Pass
11ac-VHT40	MCS0	134	5670	5.93	7.19	96.62	9.77	≤ 10.44	--	--	Pass
11ac-VHT40	MCS0	142	5710	5.52	6.56	96.62	9.23	≤ 10.44	--	--	Pass
11ac-VHT80	MCS0	42	5210	-4.98	-4.51	93.17	-1.73	--	5.14	≤ 10.00	Pass
11ac-VHT80	MCS0	58	5290	1.14	1.44	93.17	4.61	≤ 10.44	--	--	Pass
11ac-VHT80	MCS0	106	5530	2.20	3.59	93.17	6.27	≤ 10.44	--	--	Pass
11ac-VHT80	MCS0	122	5610	3.44	3.58	93.17	6.83	≤ 10.44	--	--	Pass
11ac-VHT80	MCS0	138	5690	2.47	3.46	93.17	6.31	≤ 10.44	--	--	Pass

Note 1: When EUT duty cycle ≥ 98%, the total PSD = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$

Note 2: When EUT duty cycle < 98%, the total PSD = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\} + 10 \cdot \log(1/\text{duty cycle})$

Note 3: EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Antenna Gain(dBi)

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
Ant 0 + 1 (Beam-Forming Mode)											
11n-HT20	MCS0	36	5180	0.54	0.16	98.23	3.36	--	9.92	≤ 10.00	Pass
11n-HT20	MCS0	44	5220	0.29	-0.04	98.23	3.14	--	9.70	≤ 10.00	Pass
11n-HT20	MCS0	48	5240	0.32	-0.39	98.23	2.99	--	9.55	≤ 10.00	Pass
11n-HT20	MCS0	52	5260	7.08	7.29	98.23	10.20	≤ 10.44	--	--	Pass
11n-HT20	MCS0	60	5300	6.99	7.38	98.23	10.20	≤ 10.44	--	--	Pass
11n-HT20	MCS0	64	5320	6.58	7.42	98.23	10.03	≤ 10.44	--	--	Pass
11n-HT20	MCS0	100	5500	6.14	7.89	98.23	10.11	≤ 10.44	--	--	Pass
11n-HT20	MCS0	116	5580	6.99	7.63	98.23	10.33	≤ 10.44	--	--	Pass
11n-HT20	MCS0	120	5600	7.14	7.48	98.23	10.32	≤ 10.44	--	--	Pass
11n-HT20	MCS0	140	5700	6.97	7.50	98.23	10.25	≤ 10.44	--	--	Pass
11n-HT20	MCS0	144	5720	5.69	6.25	98.23	8.99	≤ 10.44	--	--	Pass
11n-HT40	MCS0	38	5190	-1.69	-1.70	96.61	1.47	--	8.03	≤ 10.00	Pass
11n-HT40	MCS0	46	5230	-1.28	-1.53	96.61	1.76	--	8.32	≤ 10.00	Pass
11n-HT40	MCS0	54	5270	5.02	5.25	96.61	8.30	≤ 10.44	--	--	Pass
11n-HT40	MCS0	62	5310	4.69	5.38	96.61	8.21	≤ 10.44	--	--	Pass
11n-HT40	MCS0	102	5510	3.96	5.58	96.61	8.01	≤ 10.44	--	--	Pass
11n-HT40	MCS0	110	5550	6.00	6.90	96.61	9.63	≤ 10.44	--	--	Pass
11n-HT40	MCS0	118	5590	6.92	7.23	96.61	10.24	≤ 10.44	--	--	Pass
11n-HT40	MCS0	134	5670	6.21	7.35	96.61	9.98	≤ 10.44	--	--	Pass
11n-HT40	MCS0	142	5710	4.16	5.63	96.61	8.12	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	36	5180	0.33	0.21	98.23	3.28	--	9.84	≤ 10.00	Pass
11ac-VHT20	MCS0	44	5220	0.08	0.27	98.23	3.19	--	9.75	≤ 10.00	Pass
11ac-VHT20	MCS0	48	5240	0.35	-0.26	98.23	3.07	--	9.63	≤ 10.00	Pass
11ac-VHT20	MCS0	52	5260	6.95	6.99	98.23	9.98	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	60	5300	7.23	7.36	98.23	10.31	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	64	5320	6.91	7.25	98.23	10.09	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	100	5500	6.27	7.79	98.23	10.11	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	116	5580	6.61	7.73	98.23	10.22	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	120	5600	7.19	7.45	98.23	10.33	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	140	5700	6.90	7.45	98.23	10.19	≤ 10.44	--	--	Pass
11ac-VHT20	MCS0	144	5720	6.85	7.25	98.23	10.06	≤ 10.44	--	--	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
11ac-VHT40	MCS0	38	5190	-1.88	-1.60	96.62	1.42	--	7.98	≤ 10.00	Pass
11ac-VHT40	MCS0	46	5230	-1.40	-1.37	96.62	1.77	--	8.33	≤ 10.00	Pass
11ac-VHT40	MCS0	54	5270	4.69	5.01	96.62	8.01	≤ 10.44	--	--	Pass
11ac-VHT40	MCS0	62	5310	4.74	4.98	96.62	8.02	≤ 10.44	--	--	Pass
11ac-VHT40	MCS0	102	5510	4.80	6.38	96.62	8.82	≤ 10.44	--	--	Pass
11ac-VHT40	MCS0	110	5550	5.71	6.74	96.62	9.42	≤ 10.44	--	--	Pass
11ac-VHT40	MCS0	118	5590	6.67	7.15	96.62	10.08	≤ 10.44	--	--	Pass
11ac-VHT40	MCS0	134	5670	5.93	7.19	96.62	9.77	≤ 10.44	--	--	Pass
11ac-VHT40	MCS0	142	5710	5.52	6.56	96.62	9.23	≤ 10.44	--	--	Pass
11ac-VHT80	MCS0	42	5210	-4.98	-4.51	93.17	-1.42	--	5.14	≤ 10.00	Pass
11ac-VHT80	MCS0	58	5290	-0.42	0.07	93.17	3.15	≤ 10.44	--	--	Pass
11ac-VHT80	MCS0	106	5530	1.10	2.46	93.17	5.15	≤ 10.44	--	--	Pass
11ac-VHT80	MCS0	122	5610	3.44	3.58	93.17	6.83	≤ 10.44	--	--	Pass
11ac-VHT80	MCS0	138	5690	2.47	3.46	93.17	6.31	≤ 10.44	--	--	Pass

Note 1: When EUT duty cycle ≥ 98%, the total PSD = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$

Note 2: When EUT duty cycle < 98%, the total PSD = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\} + 10 \cdot \log(1/\text{duty cycle})$

Note 3: EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Antenna Gain(dBi)

Product	Wi-Fi Extender	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	55%
Test Site	TR3	Test Date	2017/04/01
Frequency Range	5745 ~ 5850MHz		

IC bands (UNII-3)

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	PSD (dBm/100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
Ant 0									
11a	6	149	5745	-1.51	96.07	6.99	5.65	≤ 29.00	Pass
11a	6	157	5785	-1.97	96.07	6.99	5.19	≤ 29.00	Pass
11a	6	165	5825	-1.86	96.07	6.99	5.30	≤ 29.00	Pass
11n-HT20	MCS0	149	5745	-1.21	98.23	6.99	5.78	≤ 29.00	Pass
11n-HT20	MCS0	157	5785	-1.53	98.23	6.99	5.46	≤ 29.00	Pass
11n-HT20	MCS0	165	5825	-1.80	98.23	6.99	5.19	≤ 29.00	Pass
11n-HT40	MCS0	151	5755	-4.51	96.61	6.99	2.63	≤ 29.00	Pass
11n-HT40	MCS0	159	5795	-4.14	96.61	6.99	3.00	≤ 29.00	Pass
11ac-VHT20	MCS0	149	5745	-1.55	98.23	6.99	5.44	≤ 29.00	Pass
11ac-VHT20	MCS0	157	5785	-1.70	98.23	6.99	5.29	≤ 29.00	Pass
11ac-VHT20	MCS0	165	5825	-1.66	98.23	6.99	5.33	≤ 29.00	Pass
11ac-VHT40	MCS0	151	5755	-4.61	96.62	6.99	2.53	≤ 29.00	Pass
11ac-VHT40	MCS0	159	5795	-4.91	96.62	6.99	2.23	≤ 29.00	Pass
11ac-VHT80	MCS0	155	5775	-8.06	93.17	6.99	-0.76	≤ 29.00	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	PSD (dBm/100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
Ant 1									
11a	6	149	5745	-1.22	96.07	6.99	5.94	≤ 29.00	Pass
11a	6	157	5785	-1.52	96.07	6.99	5.64	≤ 29.00	Pass
11a	6	165	5825	-1.56	96.07	6.99	5.60	≤ 29.00	Pass
11n-HT20	MCS0	149	5745	-1.47	98.23	6.99	5.52	≤ 29.00	Pass
11n-HT20	MCS0	157	5785	-1.13	98.23	6.99	5.86	≤ 29.00	Pass
11n-HT20	MCS0	165	5825	-1.48	98.23	6.99	5.51	≤ 29.00	Pass
11n-HT40	MCS0	151	5755	-4.32	96.61	6.99	2.82	≤ 29.00	Pass
11n-HT40	MCS0	159	5795	-4.23	96.61	6.99	2.91	≤ 29.00	Pass
11ac-VHT20	MCS0	149	5745	-1.65	98.23	6.99	5.34	≤ 29.00	Pass
11ac-VHT20	MCS0	157	5785	-1.73	98.23	6.99	5.26	≤ 29.00	Pass
11ac-VHT20	MCS0	165	5825	-1.68	98.23	6.99	5.31	≤ 29.00	Pass
11ac-VHT40	MCS0	151	5755	-4.65	96.62	6.99	2.49	≤ 29.00	Pass
11ac-VHT40	MCS0	159	5795	-4.30	96.62	6.99	2.84	≤ 29.00	Pass
11ac-VHT80	MCS0	155	5775	-7.85	93.17	6.99	-0.55	≤ 29.00	Pass

Note 1: When EUT duty cycle ≥ 98%, the Final PSD (dBm/MHz) = PSD (dBm/MHz) + Constant Factor.

Note 2: When EUT duty cycle < 98%, the Total PSD (dBm/MHz) = PSD (dBm/MHz) + 10*log(1/Duty Cycle) + Constant Factor.

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/100kHz)	Ant 1 PSD (dBm/100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
Ant 0 + 1 (CDD Mode)										
11a	6	149	5745	-0.28	1.46	96.07	6.99	10.85	≤ 29.44	Pass
11a	6	157	5785	-1.26	0.50	96.07	6.99	9.88	≤ 29.44	Pass
11a	6	165	5825	-1.87	-0.20	96.07	6.99	9.22	≤ 29.44	Pass
11n-HT20	MCS0	149	5745	-3.69	-2.57	98.23	6.99	6.91	≤ 29.44	Pass
11n-HT20	MCS0	157	5785	-1.14	0.67	98.23	6.99	9.86	≤ 29.44	Pass
11n-HT20	MCS0	165	5825	-1.89	-0.29	98.23	6.99	8.98	≤ 29.44	Pass
11n-HT40	MCS0	151	5755	-3.92	-2.42	96.61	6.99	7.04	≤ 29.44	Pass
11n-HT40	MCS0	159	5795	3.84	-3.15	96.61	6.99	11.77	≤ 29.44	Pass
11ac-VHT20	MCS0	149	5745	-0.47	0.55	98.23	6.99	10.07	≤ 29.44	Pass
11ac-VHT20	MCS0	157	5785	4.25	0.76	98.23	6.99	12.85	≤ 29.44	Pass
11ac-VHT20	MCS0	165	5825	-1.65	-0.46	98.23	6.99	8.99	≤ 29.44	Pass
11ac-VHT40	MCS0	151	5755	-3.87	-2.72	96.62	6.99	6.89	≤ 29.44	Pass
11ac-VHT40	MCS0	159	5795	-4.41	-3.31	96.62	6.99	6.32	≤ 29.44	Pass
11ac-VHT80	MCS0	155	5775	-8.12	-6.43	93.17	6.99	3.11	≤ 29.44	Pass

Note 1: When EUT duty cycle ≥ 98%, the Total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\} + \text{Constant Factor}$.

Note 2: When EUT duty cycle < 98%, the Total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\} + 10 \cdot \log(1/\text{Duty Cycle}) + \text{Constant Factor}$.

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/100kHz)	Ant 1 PSD (dBm/100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
Ant 0 + 1 (Beam-Forming Mode)										
11n-HT20	MCS0	149	5745	-3.69	-2.57	98.23	6.99	6.91	≤ 29.44	Pass
11n-HT20	MCS0	157	5785	-1.14	0.67	98.23	6.99	9.86	≤ 29.44	Pass
11n-HT20	MCS0	165	5825	-1.89	-0.29	98.23	6.99	8.98	≤ 29.44	Pass
11n-HT40	MCS0	151	5755	-3.92	-2.42	96.61	6.99	7.04	≤ 29.44	Pass
11n-HT40	MCS0	159	5795	3.84	-3.15	96.61	6.99	11.77	≤ 29.44	Pass
11ac-VHT20	MCS0	149	5745	-0.47	0.55	98.23	6.99	10.07	≤ 29.44	Pass
11ac-VHT20	MCS0	157	5785	4.25	0.76	98.23	6.99	12.85	≤ 29.44	Pass
11ac-VHT20	MCS0	165	5825	-1.65	-0.46	98.23	6.99	8.99	≤ 29.44	Pass
11ac-VHT40	MCS0	151	5755	-3.87	-2.72	96.62	6.99	6.89	≤ 29.44	Pass
11ac-VHT40	MCS0	159	5795	-4.41	-3.31	96.62	6.99	6.32	≤ 29.44	Pass
11ac-VHT80	MCS0	155	5775	-8.12	-6.43	93.17	6.99	3.11	≤ 29.44	Pass

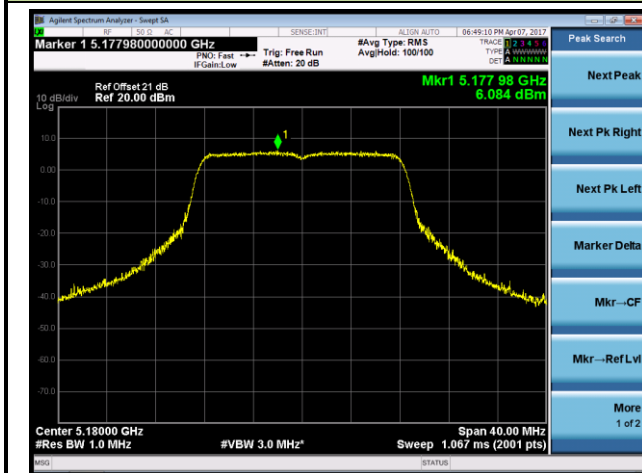
Note 1: When EUT duty cycle ≥ 98%, the Total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\} + \text{Constant Factor}$.

Note 2: When EUT duty cycle < 98%, the Total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\} + 10 \cdot \log(1/\text{Duty Cycle}) + \text{Constant Factor}$.

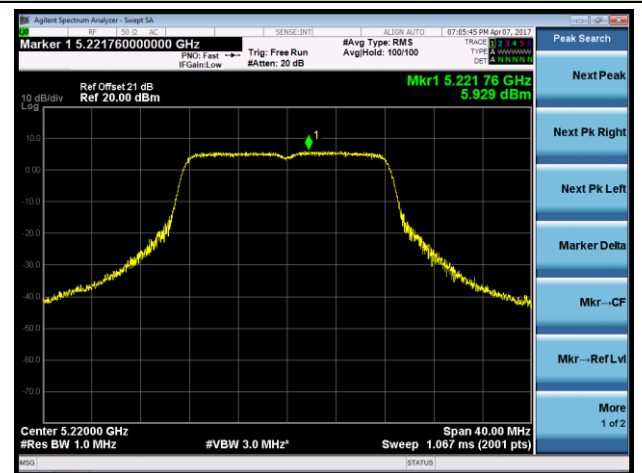
For FCC bands (UNII-2A & UNII-2C & UNII-3) & IC bands (UNII-1 & UNII-2A & UNII-2C & UNII-3)

802.11a Power Spectral Density - Ant 0

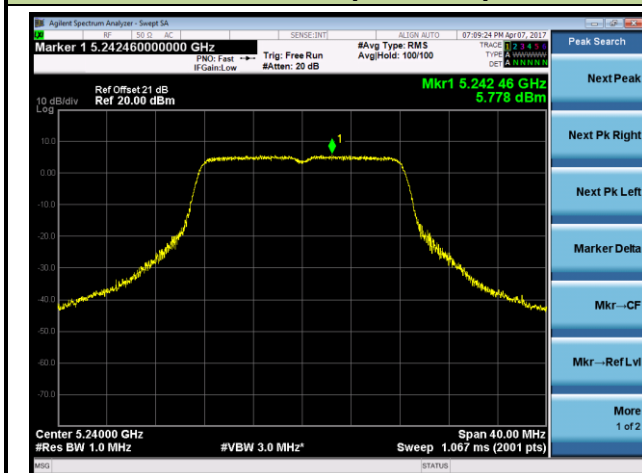
Channel 36 (5180MHz)



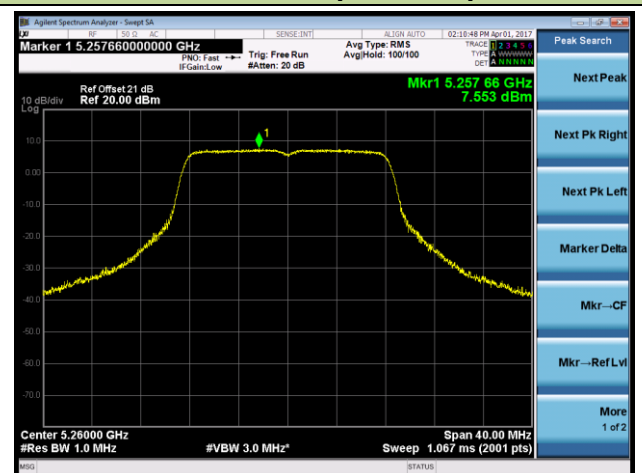
Channel 44 (5220MHz)



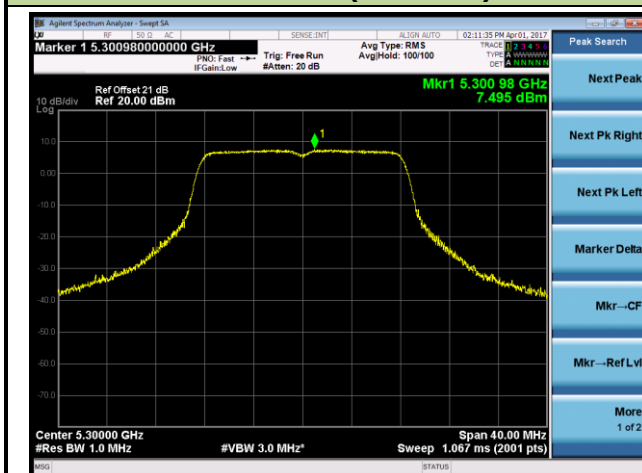
Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

