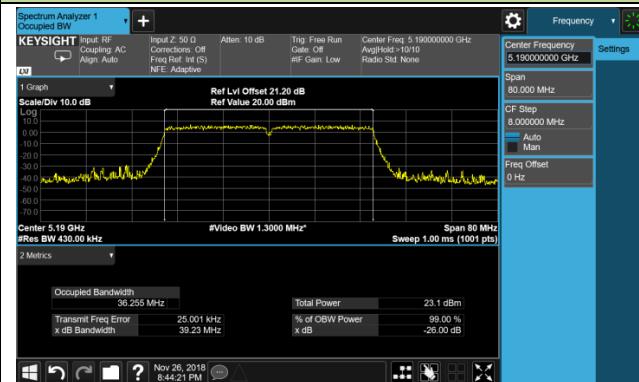
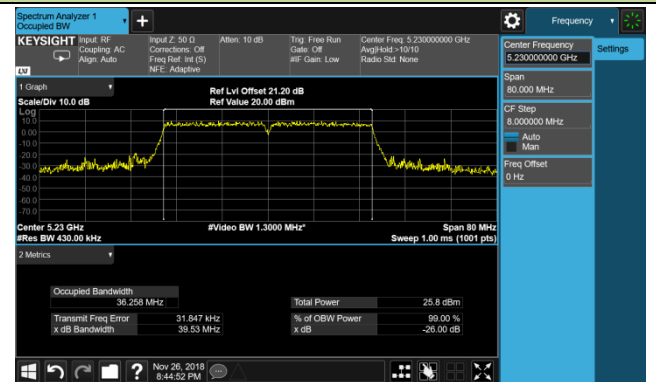


802.11ac-VHT40 26dB Bandwidth & 99% Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

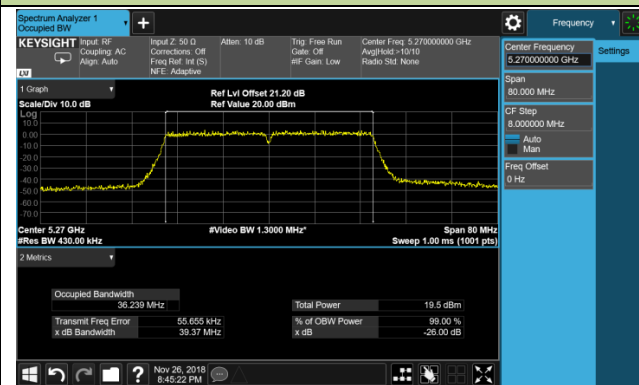
Channel 38 (5190MHz)



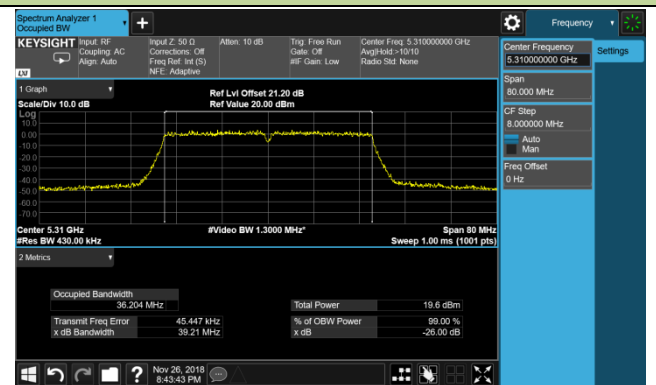
Channel 46 (5230MHz)



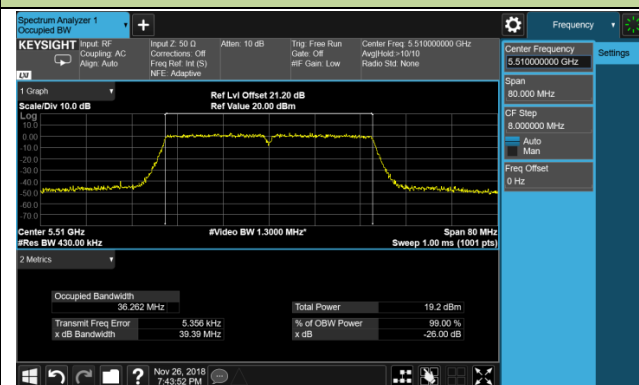
Channel 54 (5270MHz)



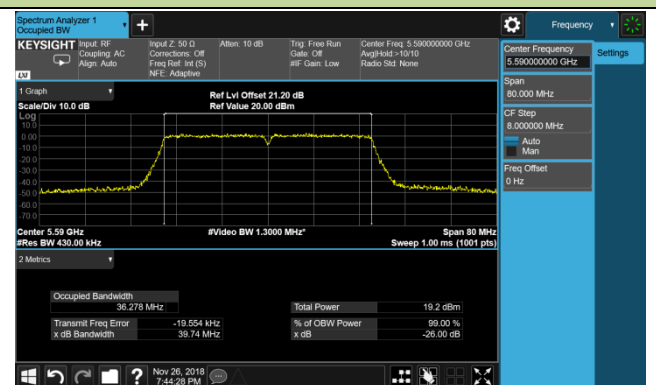
Channel 62 (5310MHz)

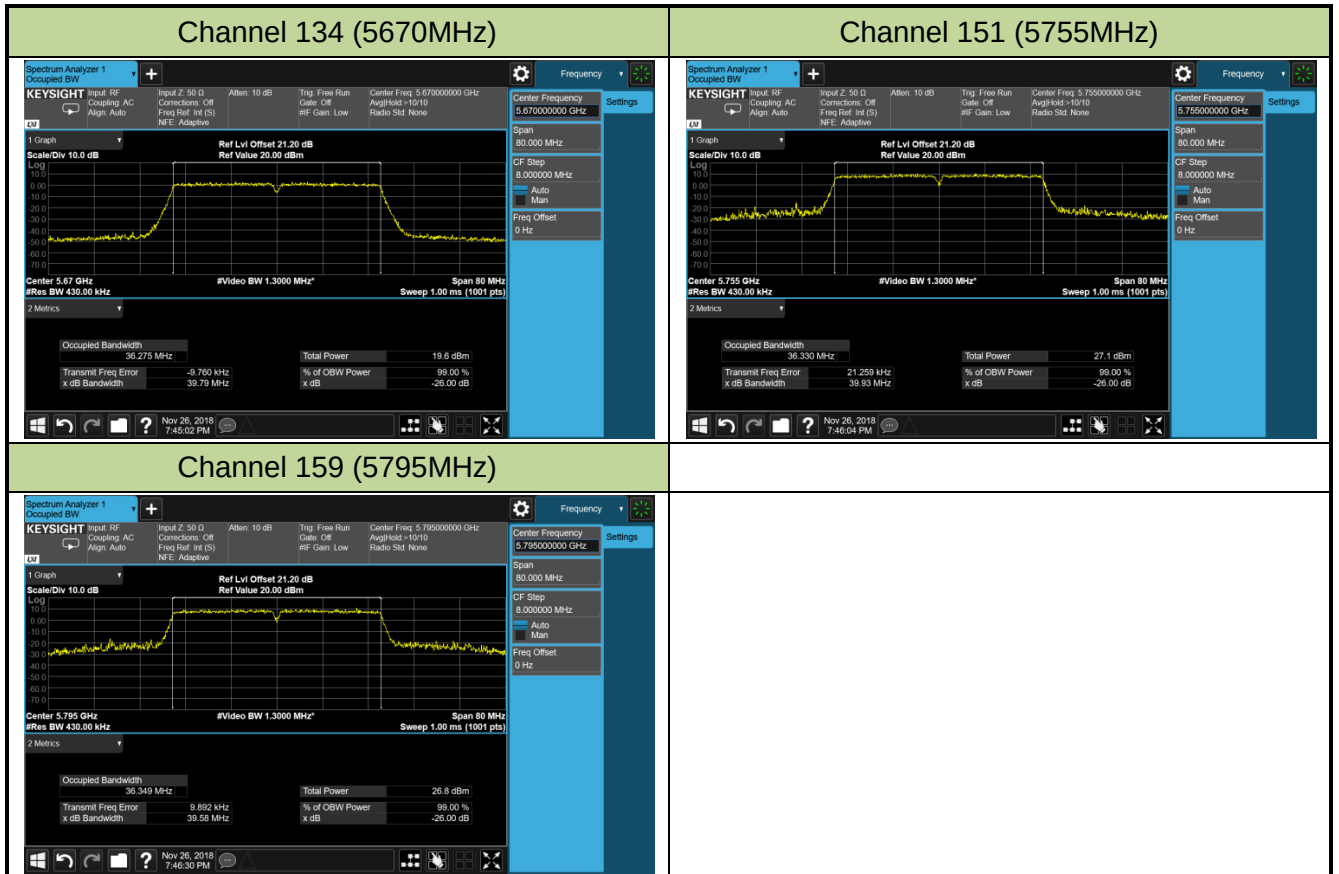


Channel 102 (5510MHz)



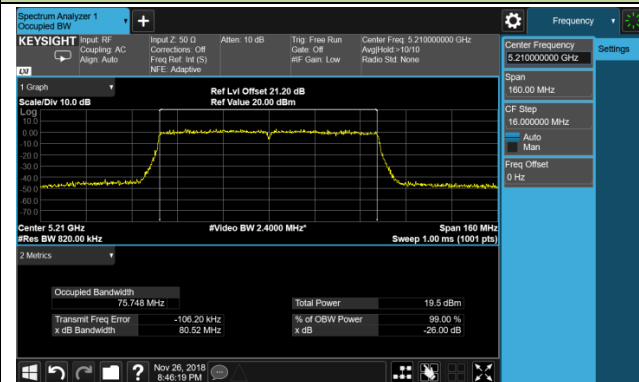
Channel 118 (5590MHz)



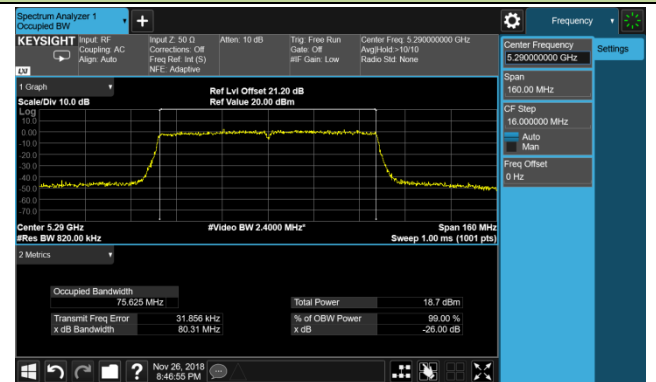


802.11ac-VHT80 26dB Bandwidth & 99% Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

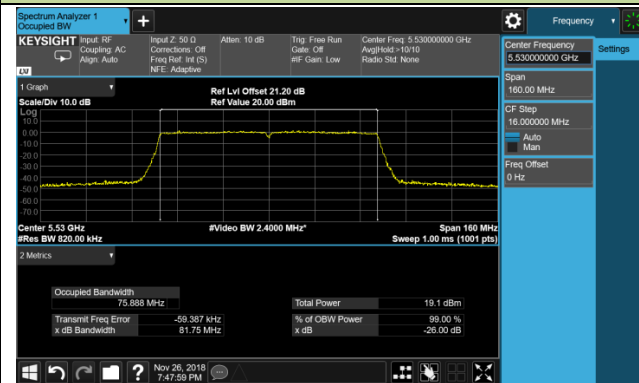
Channel 42 (5210MHz)



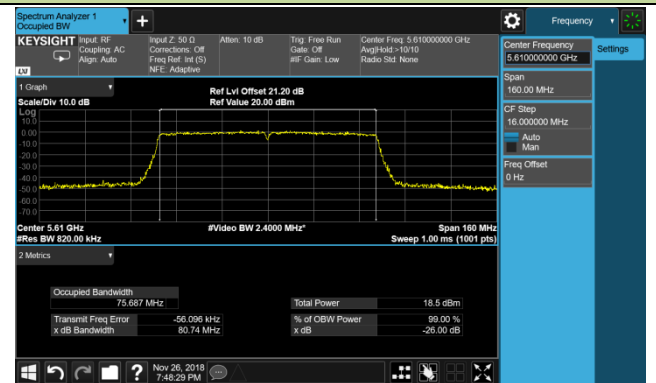
Channel 58 (5290MHz)



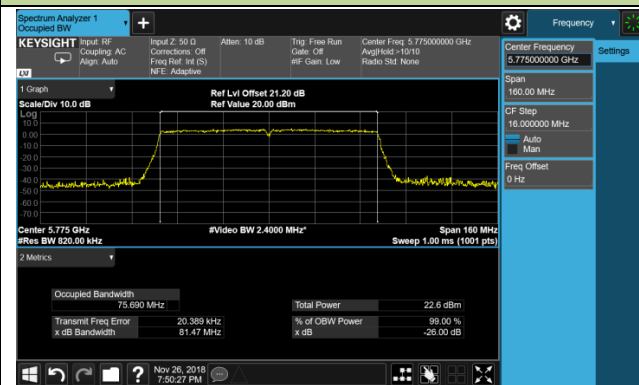
Channel 106 (5530MHz)



Channel 122 (5610MHz)

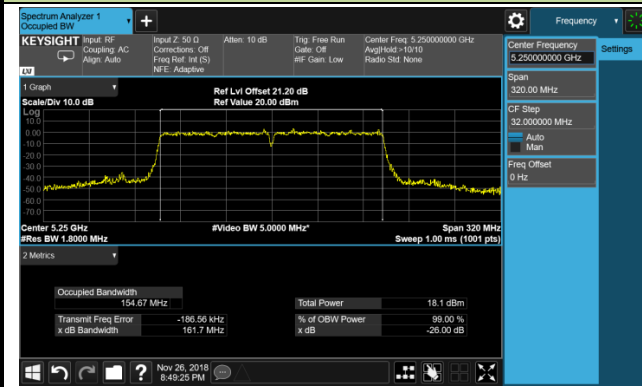


Channel 155 (5775MHz)

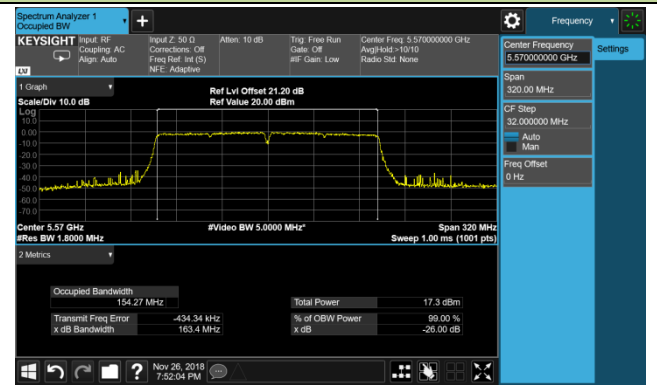


802.11ac-VHT160 26dB Bandwidth & 99% Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 50 (5250MHz)

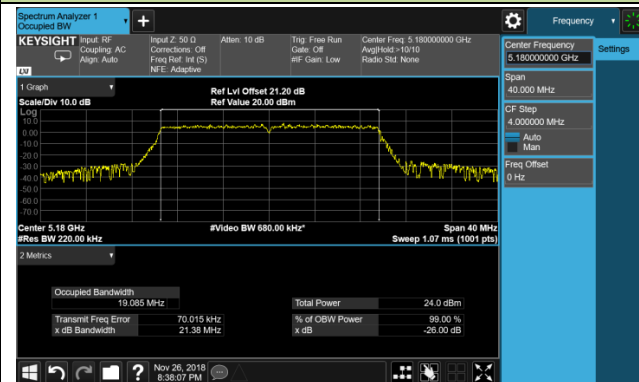


Channel 114 (5570MHz)

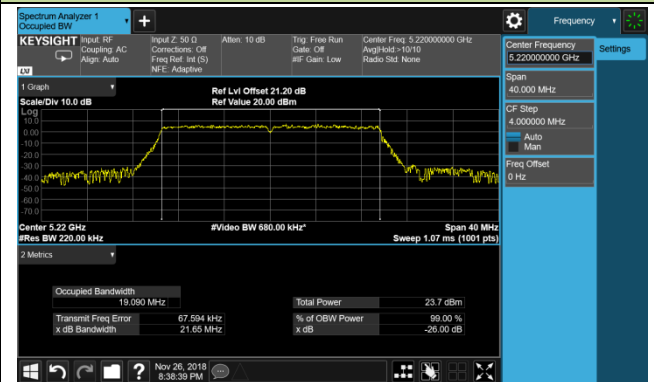


802.11ax-HE20 26dB Bandwidth & 99% Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

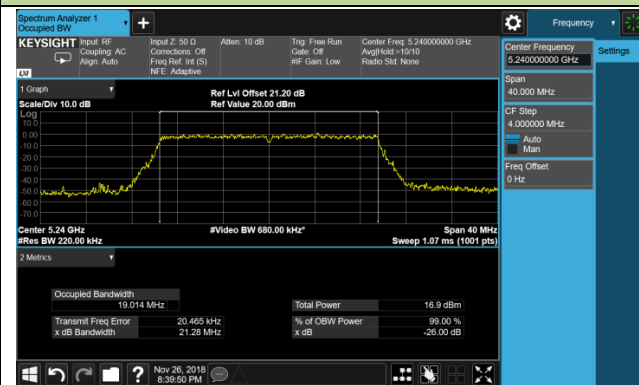
Channel 36 (5180MHz)



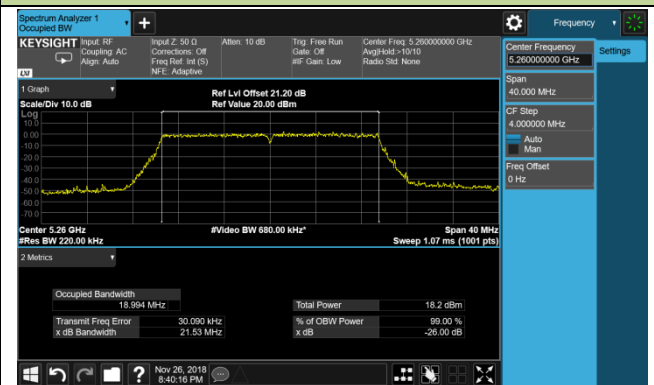
Channel 44 (5220MHz)



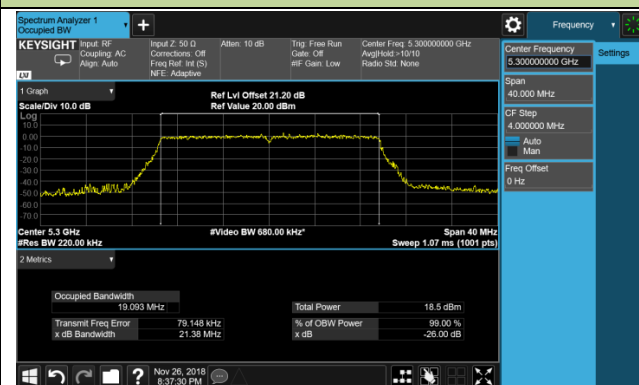
Channel 48 (5240MHz)



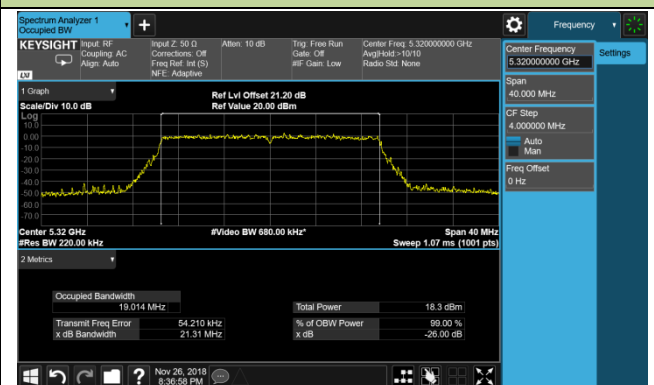
Channel 52 (5260MHz)



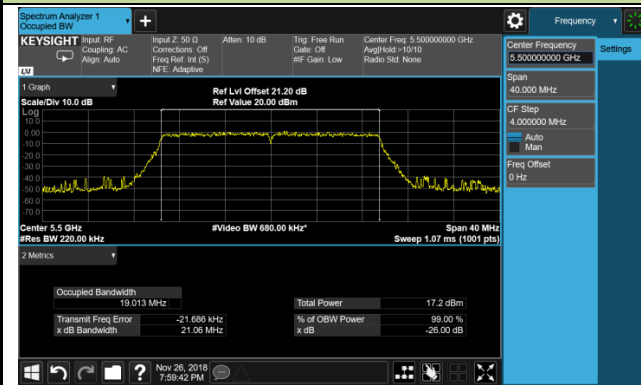
Channel 60 (5300MHz)



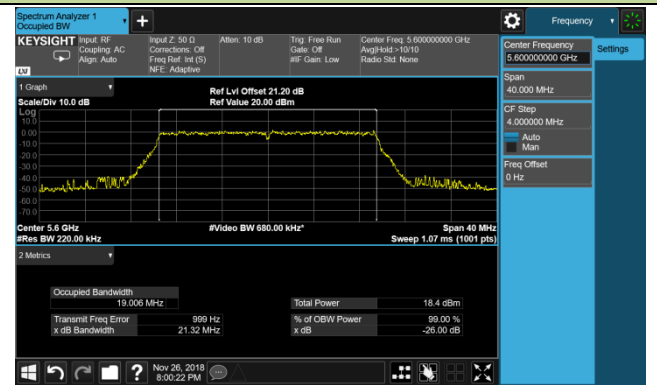
Channel 64 (5320MHz)



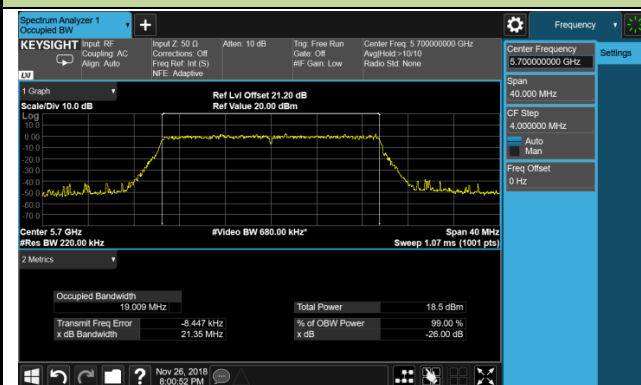
Channel 100 (5500MHz)



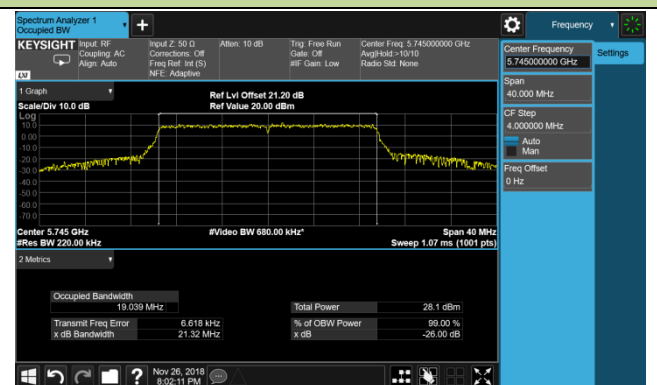
Channel 120 (5600MHz)



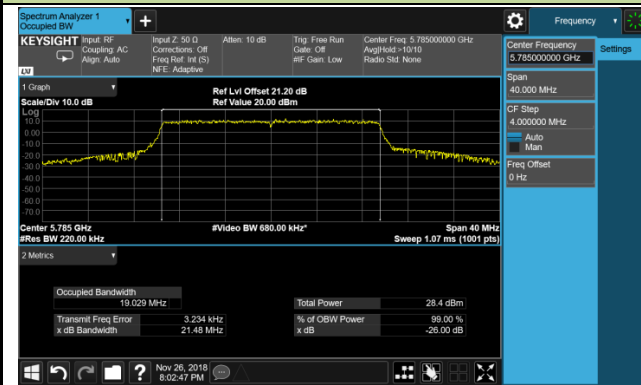
Channel 140 (5700MHz)



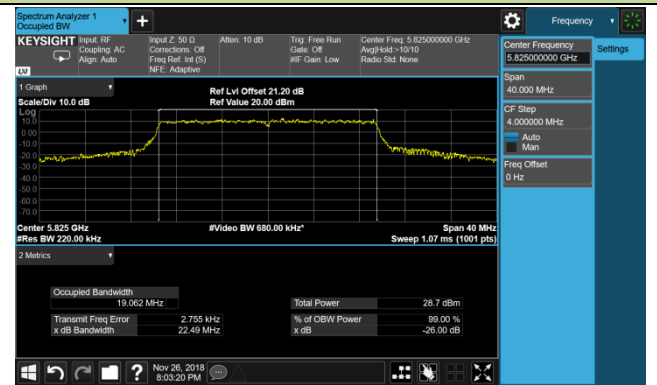
Channel 149 (5745MHz)



Channel 157 (5785MHz)

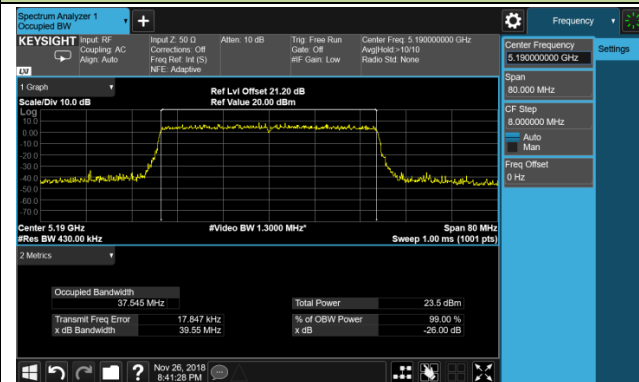


Channel 165 (5825MHz)

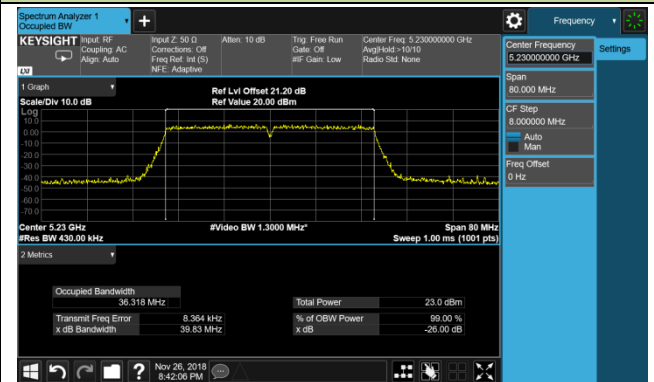


802.11ax-HE40 26dB Bandwidth & 99% Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

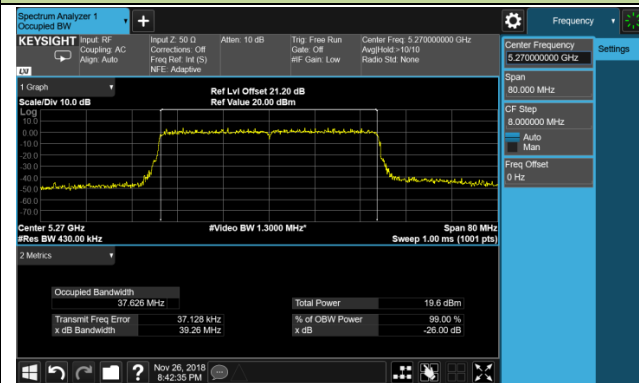
Channel 38 (5190MHz)



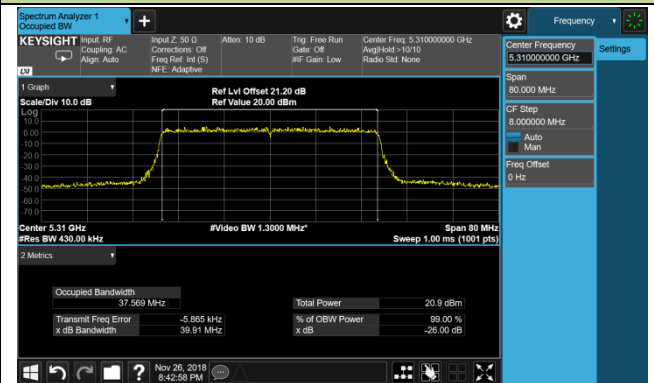
Channel 46 (5230MHz)



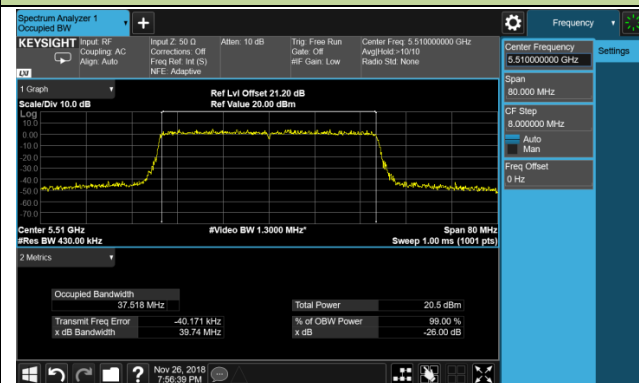
Channel 54 (5270MHz)



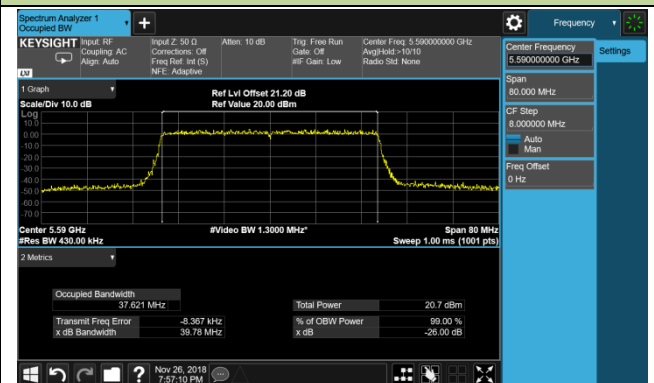
Channel 62 (5310MHz)

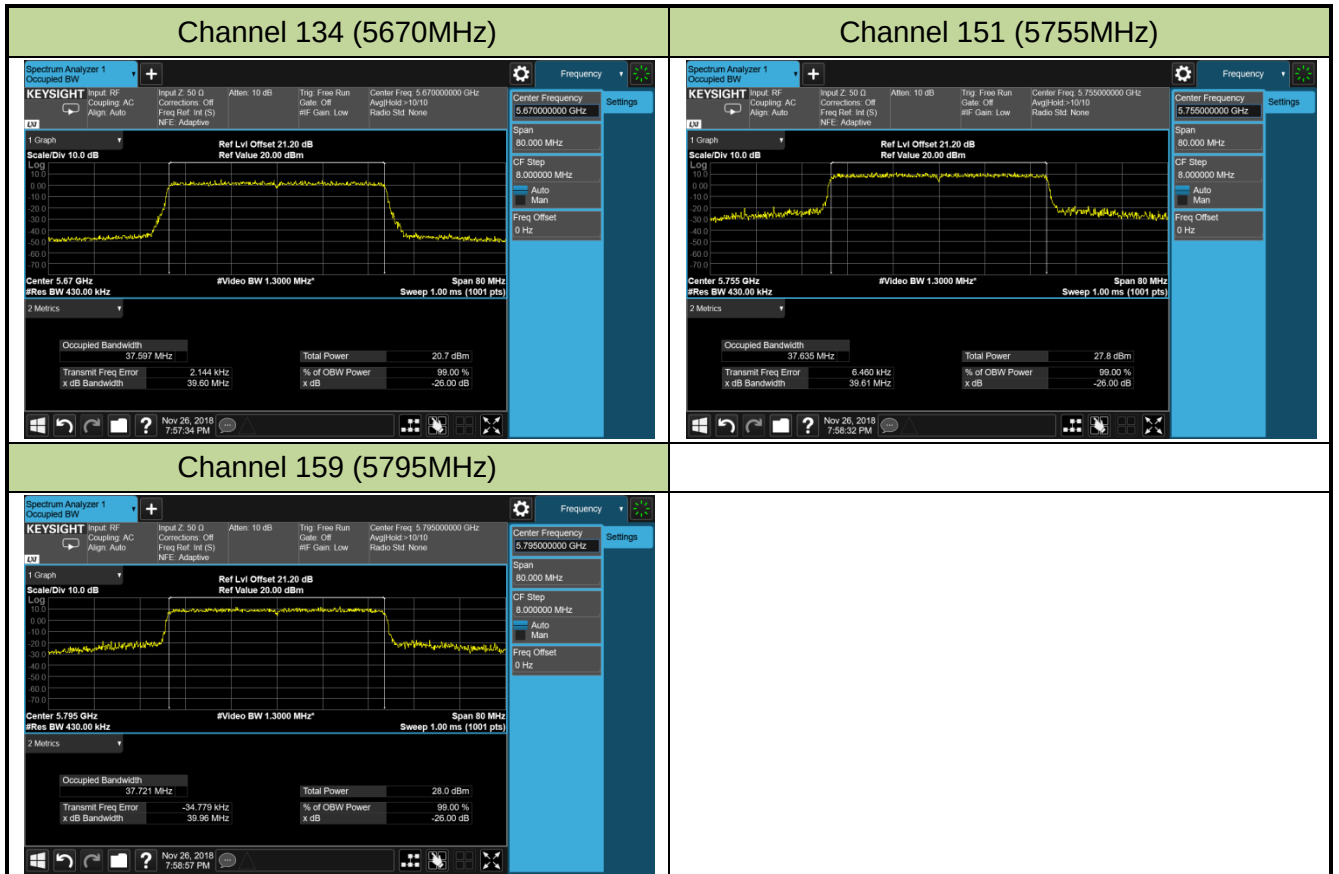


Channel 102 (5510MHz)



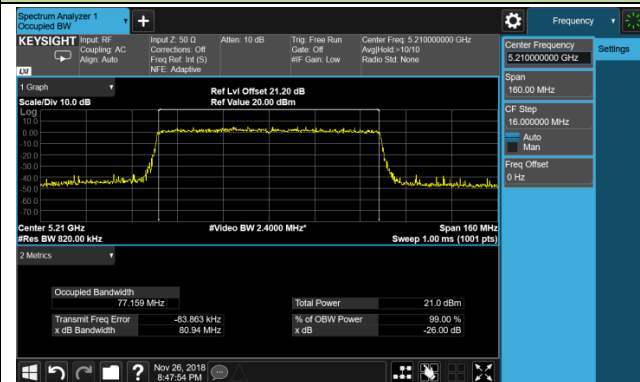
Channel 118 (5590MHz)



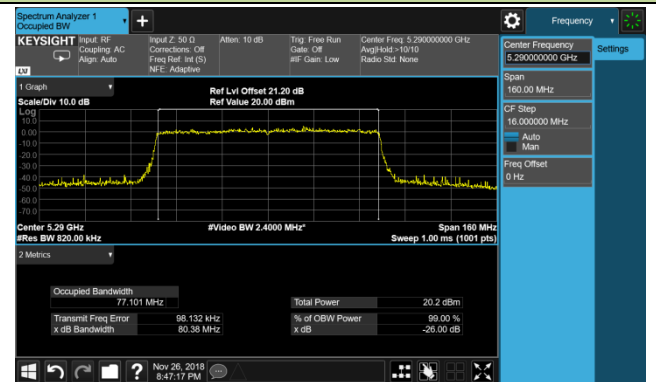


802.11ax-HE80 26dB Bandwidth & 99% Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

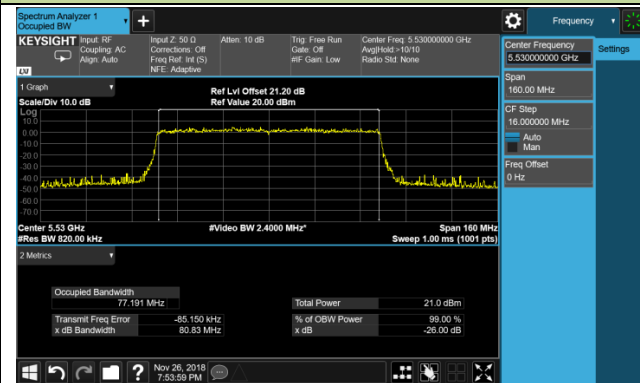
Channel 42 (5210MHz)



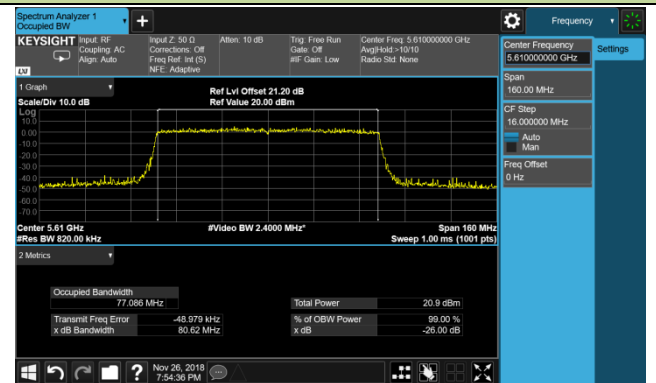
Channel 58 (5290MHz)



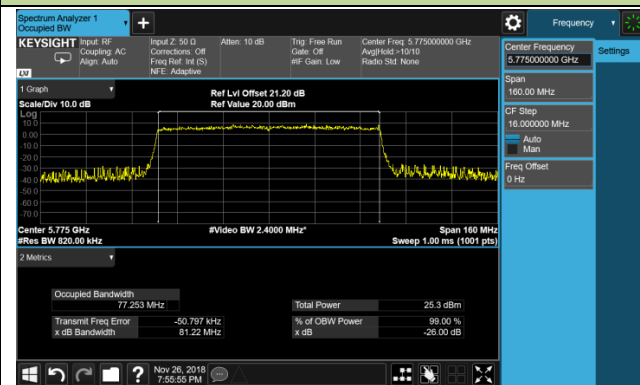
Channel 106 (5530MHz)



Channel 122 (5610MHz)

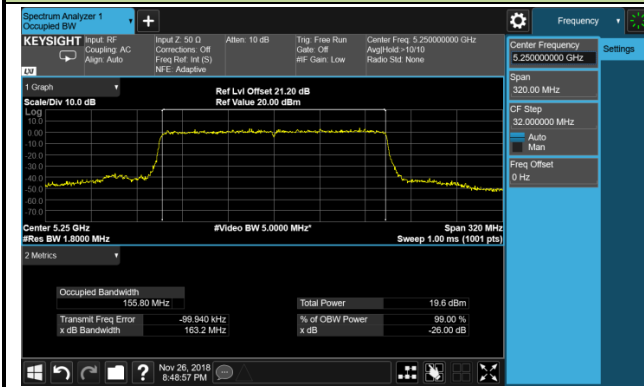


Channel 155 (5775MHz)

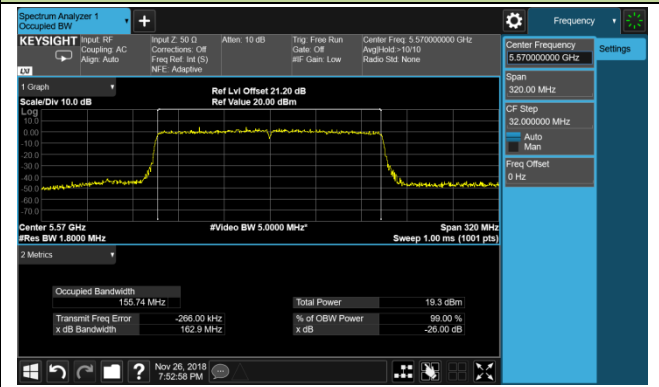


802.11ax-HE160 26dB Bandwidth & 99% Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 50 (5250MHz)



Channel 114 (5570MHz)



7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

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

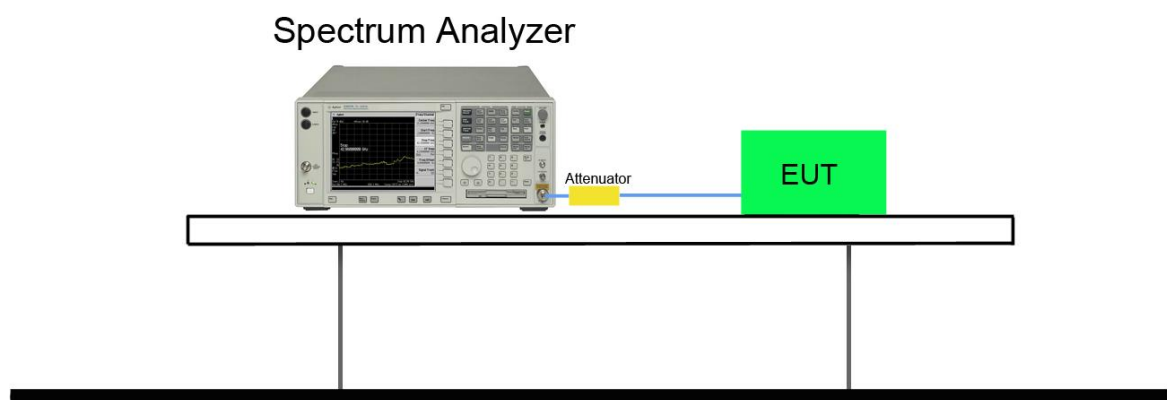
7.3.2. Test Procedure used

KDB 789033 D02v02r01 - 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



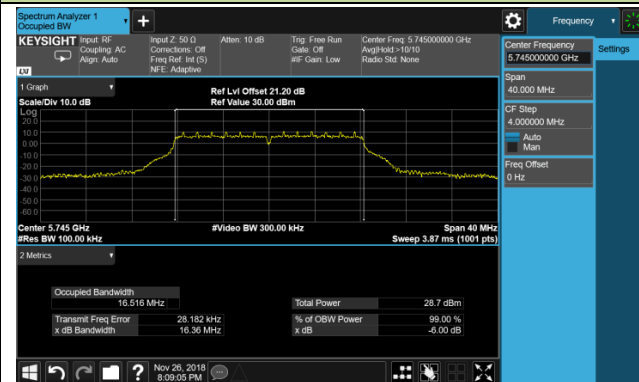
7.3.5.Test Result

Product	AX11000 MU-MIMO Tri-Band Gaming Router	Temperature	25°C
Test Engineer	Kevin Ker	Relative Humidity	58%
Test Site	SR1	Test Date	2018/11/25

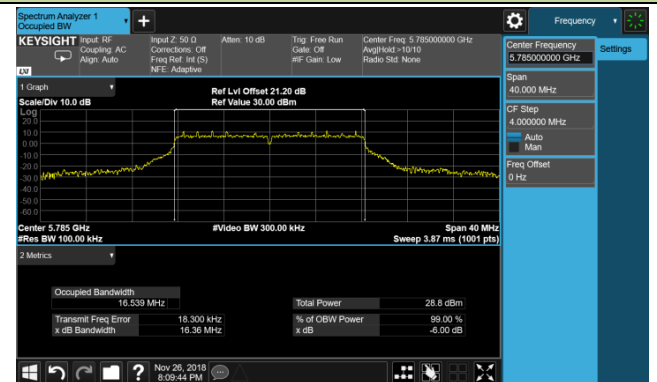
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0 / Ant 0 + 1 + 2 + 3						
802.11a	6Mbps	149	5745	16.36	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.36	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.34	≥ 0.5	Pass
802.11n-HT20	6Mbps	149	5745	17.67	≥ 0.5	Pass
802.11n-HT20	6Mbps	157	5785	17.57	≥ 0.5	Pass
802.11n-HT20	6Mbps	165	5825	17.59	≥ 0.5	Pass
802.11n-HT40	6Mbps	151	5755	36.14	≥ 0.5	Pass
802.11n-HT40	6Mbps	159	5795	35.77	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.62	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.59	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.61	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.14	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	36.27	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	75.81	≥ 0.5	Pass
802.11ax-HE20	MCS0	149	5745	18.86	≥ 0.5	Pass
802.11ax-HE20	MCS0	157	5785	18.94	≥ 0.5	Pass
802.11ax-HE20	MCS0	165	5825	18.84	≥ 0.5	Pass
802.11ax-HE40	MCS0	151	5755	37.55	≥ 0.5	Pass
802.11ax-HE40	MCS0	159	5795	37.55	≥ 0.5	Pass
802.11ax-HE80	MCS0	155	5775	77.27	≥ 0.5	Pass

802.11a 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

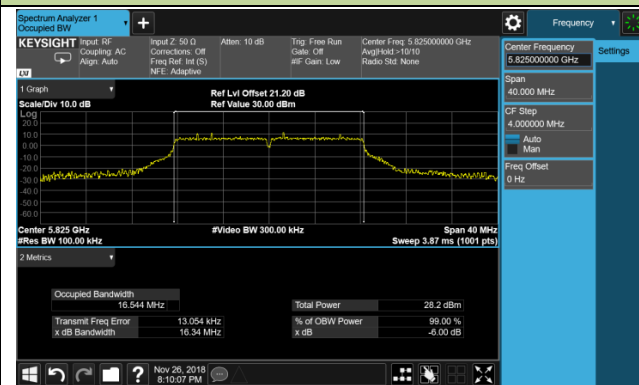
Channel 149 (5745MHz)



Channel 157 (5785MHz)

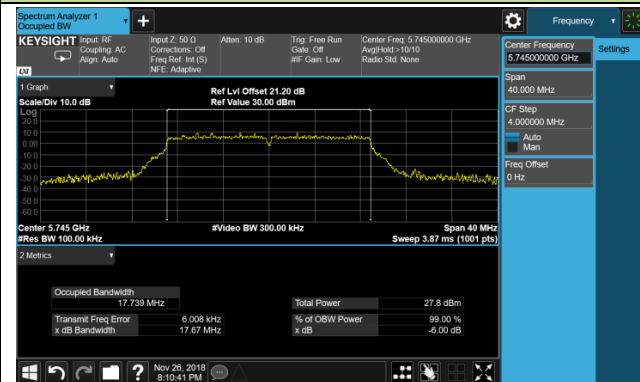


Channel 165 (5825MHz)

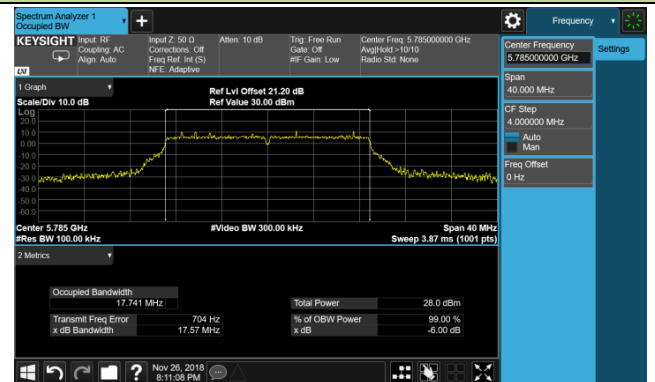


802.11n-HT20 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

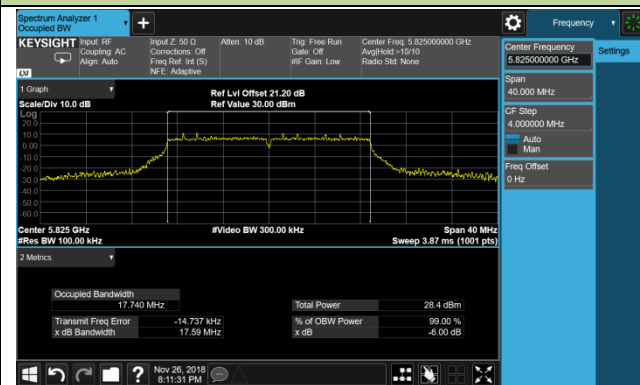
Channel 149 (5745MHz)



Channel 157 (5785MHz)

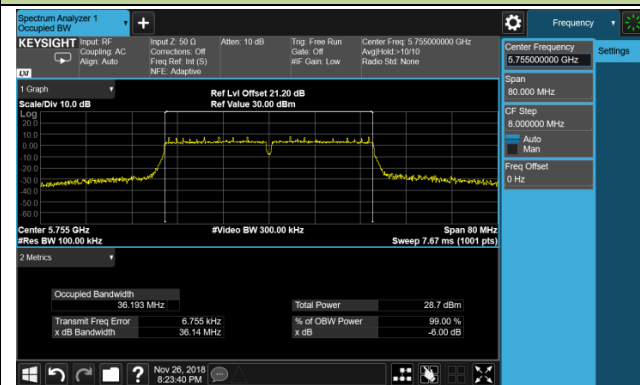


Channel 165 (5825MHz)

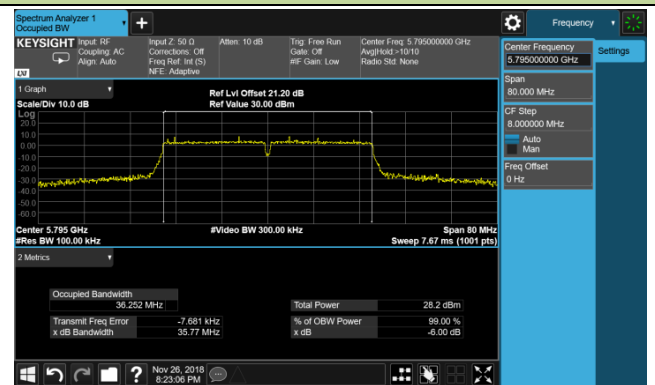


802.11n-HT40 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 149 (5755MHz)

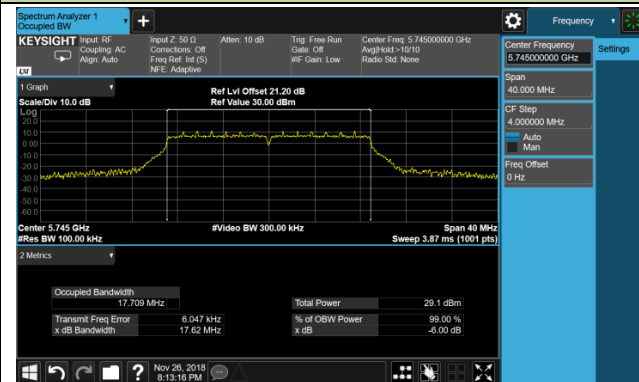


Channel 157 (5795MHz)

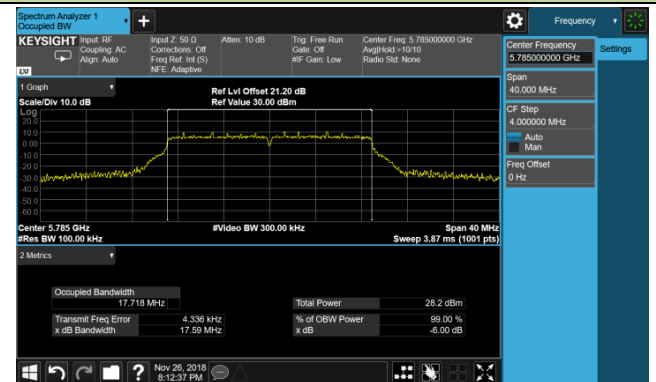


802.11ac-VHT20 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

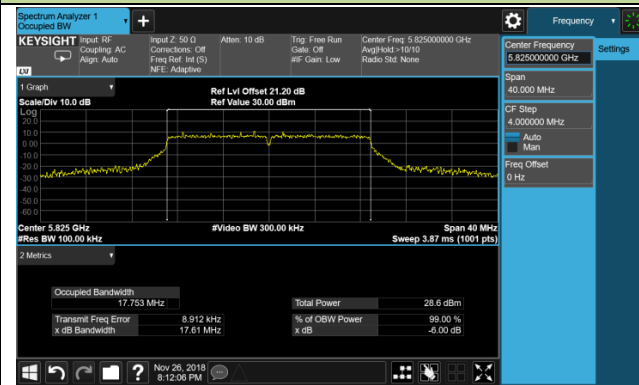
Channel 149 (5745MHz)



Channel 157 (5785MHz)

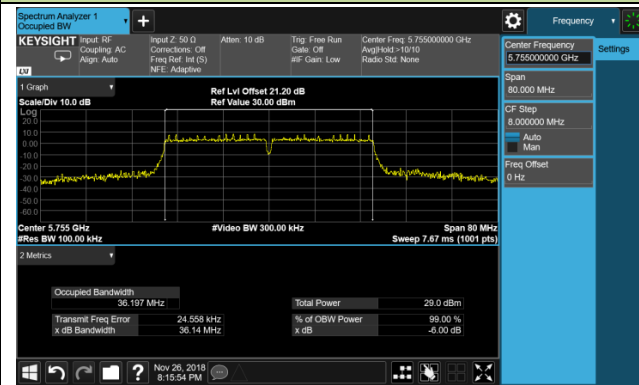


Channel 165 (5825MHz)

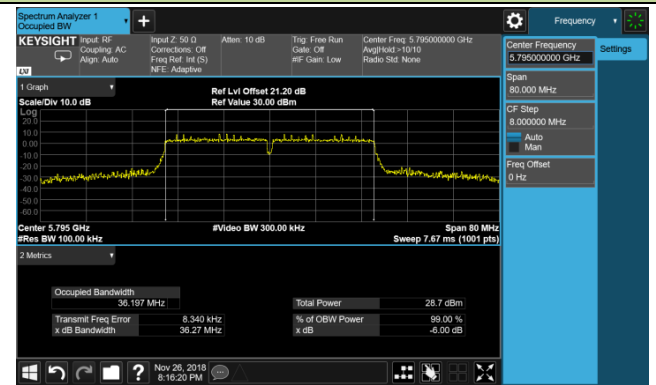


802.11ac-VHT40 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 151 (5755MHz)

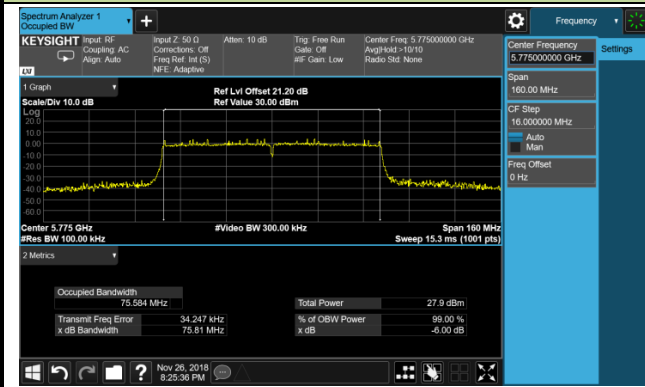


Channel 159 (5795MHz)



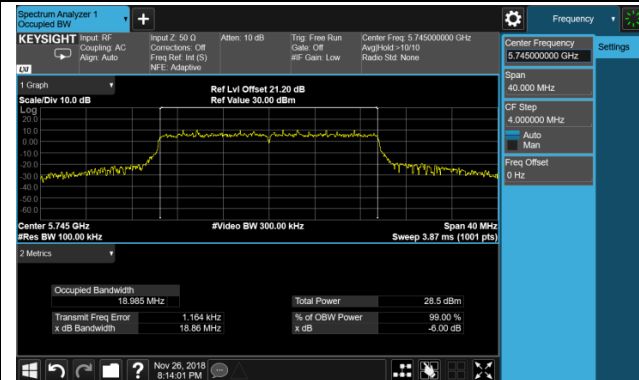
802.11ac-VHT80 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 155 (5775MHz)

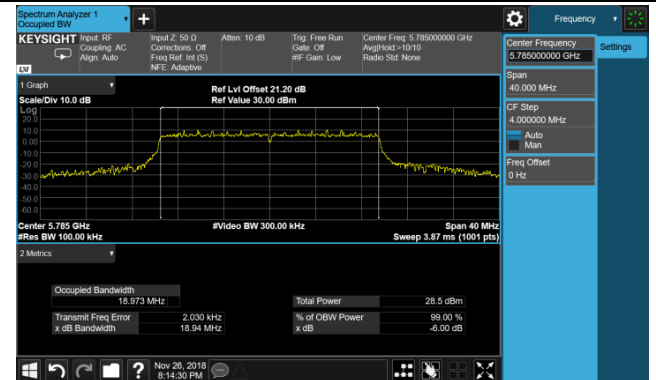


802.11ax-HE20 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

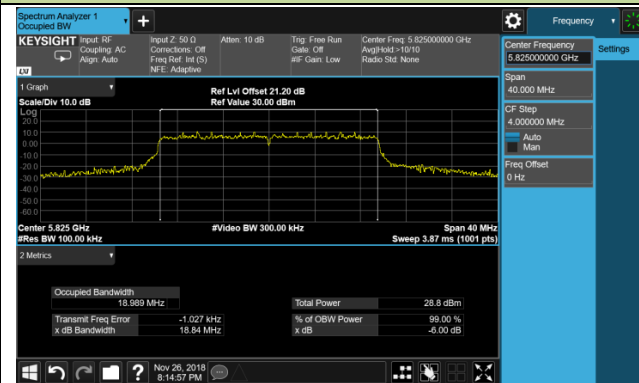
Channel 149 (5745MHz)



Channel 157 (5785MHz)

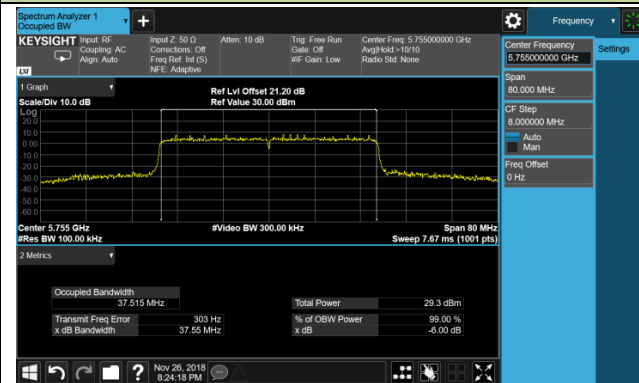


Channel 165 (5825MHz)

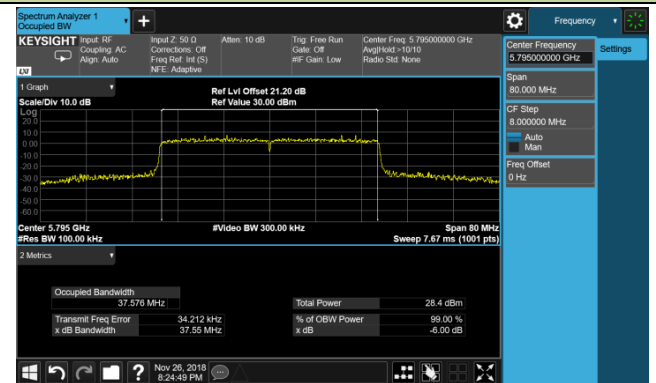


802.11ax-HE40 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 151 (5755MHz)

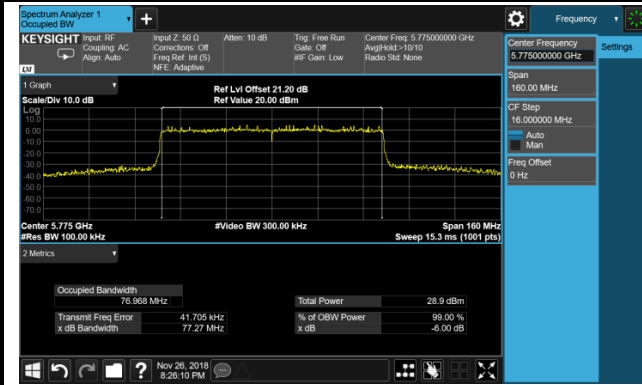


Channel 159 (5795MHz)



802.11ax-HE80 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 155 (5775MHz)



7.4. Output Power Measurement

7.4.1. Test Limit

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

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

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

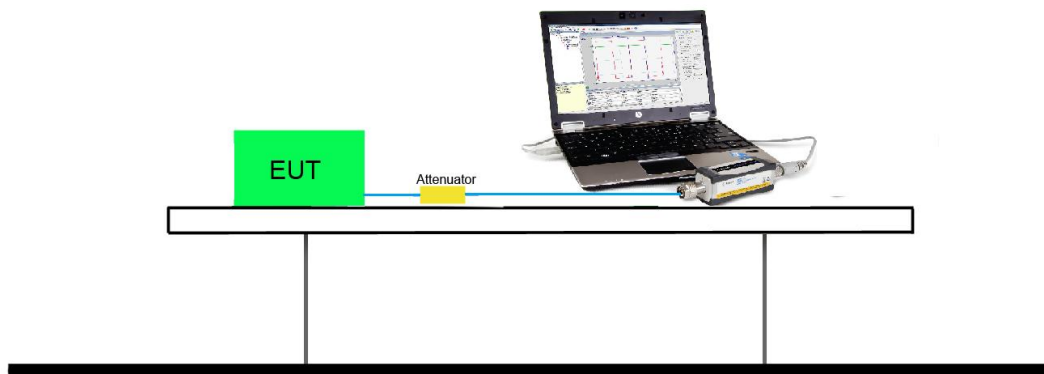
7.4.2. Test Procedure Used

KDB 789033 D02v02r01 - Section E) 3) b) Method PM-G

7.4.3. 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.

7.4.4. Test Setup



7.4.5. Test Result

Power output test was verified over all data rates of each mode shown as below table, and then choose the maximum power output (grey marker) for final test of each channel.

For Ant 0 / Ant 0 + 1 + 2 + 3 port:

Test Mode	Bandwidth	Channel	Frequency (MHz)	Data Rate/ MCS	Average Power (dBm)
802.11a	20	36	5180	6Mbps	19.98
				24Mbps	19.73
				54Mbps	19.51
802.11n	20	36	5180	MCS0	21.28
				MCS4	21.01
				MCS8	20.84
802.11n	40	38	5190	MCS0	19.11
				MCS4	18.92
				MCS9	18.68
802.11ac	20	36	5180	MCS0	19.85
				MCS4	19.63
				MCS8	19.41
802.11ac	40	38	5190	MCS0	19.17
				MCS4	18.95
				MCS9	18.68
802.11ac	80	42	5210	MCS0	17.62
				MCS4	17.36
				MCS9	17.11
802.11ac	160	50	5250	MCS0	14.92
				MCS4	14.72
				MCS9	14.53
802.11ax	20	36	5180	MCS0	21.31
				MCS5	21.16
				MCS11	20.01
802.11ax	40	38	5190	MCS0	18.41
				MCS5	18.19
				MCS11	18.02
802.11ax	80	42	5210	MCS0	16.16
				MCS5	15.98
				MCS11	15.73

Test Mode	Bandwidth	Channel	Frequency (MHz)	Data Rate/ MCS	Average Power (dBm)
802.11ax	160	50	5250	MCS0	16.56
				MCS5	16.32
				MCS11	16.14

Product	AX11000 MU-MIMO Tri-Band Gaming Router	Temperature	25°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	SR1	Test Date	2018/11/24

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
CDD Mode										
11a	6Mbps	36	5180	19.98	19.82	19.33	19.22	25.62	≤ 30.00	Pass
11a	6Mbps	44	5220	21.22	20.41	20.12	20.75	26.67	≤ 30.00	Pass
11a	6Mbps	48	5240	20.90	20.62	20.06	20.59	26.57	≤ 30.00	Pass
11a	6Mbps	52	5260	14.99	14.27	14.01	13.89	20.33	≤ 23.98	Pass
11a	6Mbps	60	5300	14.69	14.34	13.57	13.78	20.14	≤ 23.98	Pass
11a	6Mbps	64	5320	14.61	13.97	13.82	13.79	20.08	≤ 23.98	Pass
11a	6Mbps	100	5500	14.55	14.41	13.83	14.10	20.25	≤ 23.98	Pass
11a	6Mbps	120	5600	14.89	14.80	14.60	14.74	20.78	≤ 23.98	Pass
11a	6Mbps	140	5700	14.76	14.70	14.69	14.39	20.66	≤ 23.98	Pass
11a	6Mbps	149	5745	23.56	23.70	23.62	23.50	29.62	≤ 30.00	Pass
11a	6Mbps	157	5785	23.41	23.54	23.67	23.73	29.61	≤ 30.00	Pass
11a	6Mbps	165	5825	23.41	23.44	24.18	23.39	29.64	≤ 30.00	Pass
11n-HT20	MCS0	36	5180	21.28	20.27	19.75	19.76	26.33	≤ 30.00	Pass
11n-HT20	MSC0	40	5220	20.87	20.43	20.45	21.17	26.76	≤ 30.00	Pass
11n-HT20	MCS0	48	5240	21.01	20.55	20.58	21.22	26.87	≤ 30.00	Pass
11n-HT20	MSC0	52	5260	15.80	14.52	14.22	14.13	20.74	≤ 23.98	Pass
11n-HT20	MCS0	60	5300	15.61	15.01	14.58	14.34	20.93	≤ 23.98	Pass
11n-HT20	MSC0	64	5320	14.51	14.11	13.89	13.48	20.03	≤ 23.98	Pass
11n-HT20	MCS0	100	5500	14.61	14.57	14.57	14.30	20.53	≤ 23.98	Pass
11n-HT20	MSC0	120	5600	14.29	14.32	14.21	14.08	20.25	≤ 23.98	Pass
11n-HT20	MCS0	140	5700	14.38	14.54	14.28	14.29	20.39	≤ 23.98	Pass
11n-HT20	MCS0	149	5745	23.64	23.84	23.83	24.13	29.88	≤ 30.00	Pass
11n-HT20	MCS0	157	5785	23.41	23.59	24.63	23.49	29.83	≤ 30.00	Pass
11n-HT20	MCS0	165	5825	23.54	23.84	23.78	23.75	29.75	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
CDD Mode										
11n-HT40	MCS0	38	5190	19.11	18.31	17.72	17.60	24.25	≤ 30.00	Pass
11n-HT40	MCS0	46	5230	22.39	22.19	22.14	21.80	28.16	≤ 30.00	Pass
11n-HT40	MCS0	54	5270	17.70	17.68	17.18	17.24	23.48	≤ 23.98	Pass
11n-HT40	MCS0	62	5310	17.85	17.49	17.03	17.12	23.41	≤ 23.98	Pass
11n-HT40	MCS0	102	5510	17.44	16.90	17.54	16.94	23.24	≤ 23.98	Pass
11n-HT40	MCS0	118	5590	17.35	17.51	17.22	16.93	23.28	≤ 23.98	Pass
11n-HT40	MCS0	134	5670	17.07	16.85	17.36	17.14	23.13	≤ 23.98	Pass
11n-HT40	MCS0	151	5755	23.33	23.65	24.39	23.73	29.81	≤ 30.00	Pass
11n-HT40	MCS0	159	5795	23.18	23.72	24.02	23.41	29.61	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	19.85	19.80	19.47	19.50	25.68	≤ 30.00	Pass
11ac-VHT20	MSC0	40	5220	21.16	20.58	20.45	21.17	26.87	≤ 30.00	Pass
11ac-VHT20	MCS0	48	5240	20.84	20.42	20.38	20.79	26.63	≤ 30.00	Pass
11ac-VHT20	MSC0	52	5260	14.83	14.22	14.05	14.32	20.39	≤ 23.98	Pass
11ac-VHT20	MCS0	60	5300	14.45	14.08	13.96	14.12	20.18	≤ 23.98	Pass
11ac-VHT20	MSC0	64	5320	14.73	14.01	13.74	13.60	20.06	≤ 23.98	Pass
11ac-VHT20	MCS0	100	5500	14.11	14.34	14.01	14.11	20.16	≤ 23.98	Pass
11ac-VHT20	MSC0	120	5600	14.18	14.32	14.12	14.23	20.23	≤ 23.98	Pass
11ac-VHT20	MCS0	140	5700	14.41	14.65	14.87	15.03	20.77	≤ 23.98	Pass
11ac-VHT20	MCS0	149	5745	23.37	23.62	24.50	23.57	29.81	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	23.59	23.66	24.58	23.46	29.87	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	23.55	23.54	24.26	23.96	29.86	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
CDD Mode										
11ac-VHT40	MCS0	38	5190	19.17	18.32	18.24	18.16	24.51	≤ 30.00	Pass
11ac-VHT40	MCS0	46	5230	22.35	21.98	22.56	21.94	28.24	≤ 30.00	Pass
11ac-VHT40	MCS0	54	5270	18.43	17.85	17.03	17.41	23.73	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	17.91	17.23	16.98	17.22	23.37	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	17.38	17.19	17.46	17.16	23.32	≤ 23.98	Pass
11ac-VHT40	MCS0	118	5590	17.22	17.21	17.29	17.09	23.22	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	17.34	17.25	17.31	17.18	23.29	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	23.43	24.11	24.10	23.44	29.80	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	23.57	23.87	24.29	23.40	29.82	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	17.62	17.33	17.15	17.28	23.37	≤ 30.00	Pass
11ac-VHT80	MCS0	58	5290	17.86	17.93	17.23	17.41	23.64	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	17.65	17.50	18.03	17.48	23.69	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	17.61	17.63	17.84	17.71	23.72	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	20.61	21.07	21.69	20.83	27.09	≤ 30.00	Pass
11ac-VHT160	MCS0	50	5250	14.92	15.03	14.63	14.43	20.78	≤ 23.98	Pass
11ac-VHT160	MCS0	114	5570	15.26	15.07	15.46	14.88	21.19	≤ 23.98	Pass
11ax-HE20	MCS0	36	5180	21.31	21.01	19.76	19.64	26.51	≤ 30.00	Pass
11ax-HE20	MCS0	44	5220	21.49	20.71	20.27	20.72	26.84	≤ 30.00	Pass
11ax-HE20	MCS0	48	5240	20.51	20.17	20.24	19.43	26.13	≤ 30.00	Pass
11ax-HE20	MCS0	52	5260	14.47	14.79	14.17	14.97	20.63	≤ 23.98	Pass
11ax-HE20	MCS0	60	5300	14.72	14.10	13.73	14.24	20.23	≤ 23.98	Pass
11ax-HE20	MCS0	64	5320	14.41	14.22	13.83	14.33	20.22	≤ 23.98	Pass
11ax-HE20	MCS0	100	5500	14.65	14.55	14.58	14.71	20.64	≤ 23.98	Pass
11ax-HE20	MCS0	120	5600	14.58	14.51	14.66	14.84	20.67	≤ 23.98	Pass
11ax-HE20	MCS0	140	5700	14.63	14.53	14.72	14.35	20.58	≤ 23.98	Pass
11ax-HE20	MCS0	149	5745	23.60	23.49	24.33	23.35	29.73	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	23.46	23.63	24.11	24.01	29.83	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	23.48	23.66	23.70	23.46	29.60	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
CDD Mode										
11ax-HE40	MCS0	38	5190	18.41	18.52	17.58	17.95	24.15	≤ 30.00	Pass
11ax-HE40	MCS0	46	5230	22.28	22.45	22.42	21.96	28.30	≤ 30.00	Pass
11ax-HE40	MCS0	54	5270	17.16	17.11	16.98	16.94	23.07	≤ 23.98	Pass
11ax-HE40	MCS0	62	5310	17.01	16.63	16.71	16.57	22.75	≤ 23.98	Pass
11ax-HE40	MCS0	102	5510	17.37	17.37	17.46	17.53	23.45	≤ 23.98	Pass
11ax-HE40	MCS0	118	5590	17.31	17.28	17.32	17.47	23.37	≤ 23.98	Pass
11ax-HE40	MCS0	134	5670	17.28	17.41	17.54	17.62	23.49	≤ 23.98	Pass
11ax-HE40	MCS0	151	5755	23.82	23.51	24.15	23.59	29.80	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	23.50	23.83	24.16	23.51	29.78	≤ 30.00	Pass
11ax-HE80	MCS0	42	5210	16.16	16.34	15.83	15.87	22.08	≤ 30.00	Pass
11ax-HE80	MCS0	58	5290	18.41	17.71	17.31	17.90	23.87	≤ 23.98	Pass
11ax-HE80	MCS0	106	5530	17.60	17.24	17.87	17.24	23.52	≤ 23.98	Pass
11ax-HE80	MCS0	122	5610	17.54	17.21	17.62	17.18	23.41	≤ 23.98	Pass
11ax-HE80	MCS0	155	5775	21.17	21.57	21.65	22.02	27.63	≤ 30.00	Pass
11ax-HE160	MCS0	50	5250	16.56	16.07	15.60	15.97	22.08	≤ 23.98	Pass
11ax-HE160	MCS0	114	5570	17.32	17.65	17.59	17.10	23.44	≤ 23.98	Pass

Note 1: The Total Average Power (dBm) = $10 \cdot \log \{ 10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)} \}$.

Note 2:

For 5150 - 5250MHz and 5725 - 5850MHz Bands: Average Power Limit (dBm) = 30 dBm.

For 5250 - 5350MHz and 5470 - 5725MHz Bands: Average Power Limit (dBm) = 23.98 dBm.

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
Beam-Forming Mode										
11ac-VHT20	MCS0	36	5180	19.85	19.80	19.47	19.50	25.68	≤ 28.18	Pass
11ac-VHT20	MSC0	40	5220	21.16	20.58	20.45	21.17	26.87	≤ 28.18	Pass
11ac-VHT20	MCS0	48	5240	20.84	20.42	20.38	20.79	26.63	≤ 28.18	Pass
11ac-VHT20	MSC0	52	5260	14.83	14.22	14.05	14.32	20.39	≤ 22.16	Pass
11ac-VHT20	MCS0	60	5300	14.45	14.08	13.96	14.12	20.18	≤ 22.16	Pass
11ac-VHT20	MSC0	64	5320	14.73	14.01	13.74	13.60	20.06	≤ 22.16	Pass
11ac-VHT20	MCS0	100	5500	14.11	14.34	14.01	14.11	20.16	≤ 22.16	Pass
11ac-VHT20	MSC0	120	5600	14.18	14.32	14.12	14.23	20.23	≤ 22.16	Pass
11ac-VHT20	MCS0	140	5700	14.41	14.65	14.87	15.03	20.77	≤ 22.16	Pass
11ac-VHT20	MCS0	149	5745	21.63	21.98	21.01	21.78	27.64	≤ 28.18	Pass
11ac-VHT20	MCS0	157	5785	21.78	22.45	21.63	21.13	27.79	≤ 28.18	Pass
11ac-VHT20	MCS0	165	5825	21.36	21.82	21.83	21.97	27.77	≤ 28.18	Pass
11ac-VHT40	MCS0	38	5190	18.91	18.29	17.57	17.86	24.21	≤ 28.18	Pass
11ac-VHT40	MCS0	46	5230	21.39	21.44	21.63	21.13	27.42	≤ 28.18	Pass
11ac-VHT40	MCS0	54	5270	16.26	16.46	15.28	15.42	21.91	≤ 22.16	Pass
11ac-VHT40	MCS0	62	5310	16.45	15.79	15.21	15.53	21.79	≤ 22.16	Pass
11ac-VHT40	MCS0	102	5510	16.16	16.00	16.20	15.64	22.03	≤ 22.16	Pass
11ac-VHT40	MCS0	118	5590	15.74	15.91	15.74	15.90	21.84	≤ 22.16	Pass
11ac-VHT40	MCS0	134	5670	16.12	15.75	16.17	15.84	21.99	≤ 22.16	Pass
11ac-VHT40	MCS0	151	5755	21.83	22.35	22.42	21.32	28.02	≤ 28.18	Pass
11ac-VHT40	MCS0	159	5795	21.63	21.94	22.60	21.68	28.00	≤ 28.18	Pass
11ac-VHT80	MCS0	42	5210	15.06	15.44	15.43	14.76	21.20	≤ 28.18	Pass
11ac-VHT80	MCS0	58	5290	16.44	16.53	15.34	15.65	22.04	≤ 22.16	Pass
11ac-VHT80	MCS0	106	5530	15.68	16.21	15.50	15.33	21.71	≤ 22.16	Pass
11ac-VHT80	MCS0	122	5610	15.72	16.20	15.63	15.21	21.72	≤ 22.16	Pass
11ac-VHT80	MCS0	155	5775	21.45	22.08	21.63	21.59	27.71	≤ 28.18	Pass
11ac-VHT160	MCS0	50	5250	16.19	16.01	15.32	15.48	21.79	≤ 22.16	Pass
11ac-VHT160	MCS0	114	5570	15.93	15.81	15.42	14.98	21.57	≤ 22.16	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
Beam-Forming Mode										
11ax-HE20	MCS0	36	5180	21.31	21.01	19.76	19.64	26.51	≤ 28.18	Pass
11ax-HE20	MCS0	44	5220	21.49	20.71	20.27	20.72	26.84	≤ 28.18	Pass
11ax-HE20	MCS0	48	5240	20.51	20.17	20.24	19.43	26.13	≤ 28.18	Pass
11ax-HE20	MCS0	52	5260	14.47	14.79	14.17	14.97	20.63	≤ 22.16	Pass
11ax-HE20	MCS0	60	5300	14.72	14.10	13.73	14.24	20.23	≤ 22.16	Pass
11ax-HE20	MCS0	64	5320	14.41	14.22	13.83	14.33	20.22	≤ 22.16	Pass
11ax-HE20	MCS0	100	5500	14.65	14.55	14.58	14.71	20.64	≤ 22.16	Pass
11ax-HE20	MCS0	120	5600	14.58	14.51	14.66	14.84	20.67	≤ 22.16	Pass
11ax-HE20	MCS0	140	5700	14.63	14.53	14.72	14.35	20.58	≤ 22.16	Pass
11ax-HE20	MCS0	149	5745	21.69	22.10	21.45	22.03	27.85	≤ 28.18	Pass
11ax-HE20	MCS0	157	5785	21.76	22.48	21.49	21.78	27.91	≤ 28.18	Pass
11ax-HE20	MCS0	165	5825	21.62	22.62	21.69	21.63	27.93	≤ 28.18	Pass
11ax-HE40	MCS0	38	5190	17.20	17.10	16.13	16.18	22.70	≤ 28.18	Pass
11ax-HE40	MCS0	46	5230	22.08	21.23	22.09	21.63	27.79	≤ 28.18	Pass
11ax-HE40	MCS0	54	5270	16.56	16.13	15.65	15.74	22.06	≤ 22.16	Pass
11ax-HE40	MCS0	62	5310	16.24	15.64	15.54	15.97	21.88	≤ 22.16	Pass
11ax-HE40	MCS0	102	5510	15.43	16.36	15.64	15.43	21.75	≤ 22.16	Pass
11ax-HE40	MCS0	118	5590	15.88	16.53	15.64	15.65	21.96	≤ 22.16	Pass
11ax-HE40	MCS0	134	5670	15.66	16.82	15.95	15.20	21.97	≤ 22.16	Pass
11ax-HE40	MCS0	151	5755	21.52	22.28	22.19	21.78	27.97	≤ 28.18	Pass
11ax-HE40	MCS0	159	5795	22.18	22.34	22.15	21.47	28.07	≤ 28.18	Pass
11ax-HE80	MCS0	42	5210	15.75	16.45	15.84	15.74	21.98	≤ 28.18	Pass
11ax-HE80	MCS0	58	5290	15.69	16.05	16.14	15.87	21.96	≤ 22.16	Pass
11ax-HE80	MCS0	106	5530	15.24	16.15	15.92	15.33	21.70	≤ 22.16	Pass
11ax-HE80	MCS0	122	5610	15.86	16.34	15.37	15.27	21.75	≤ 22.16	Pass
11ax-HE80	MCS0	155	5775	21.86	22.76	22.17	21.25	28.06	≤ 28.18	Pass
11ax-HE160	MCS0	50	5250	15.76	16.43	15.49	15.64	21.87	≤ 22.16	Pass
11ax-HE160	MCS0	114	5570	15.45	15.94	15.93	15.32	21.69	≤ 22.16	Pass

Note 1: The Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$.

Note 2: For 5150 - 5250MHz and 5725 - 5850MHz Bands: Average Power Limit (dBm) = $30 - (7.82 - 6)$
= 28.18dBm.

For 5250 - 5350MHz and 5470 - 5725MHz Bands: Average Power Limit (dBm) = $23.98 - (7.82 - 6)$
= 22.16dBm.

7.5. Transmit Power Control

7.5.1. 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.

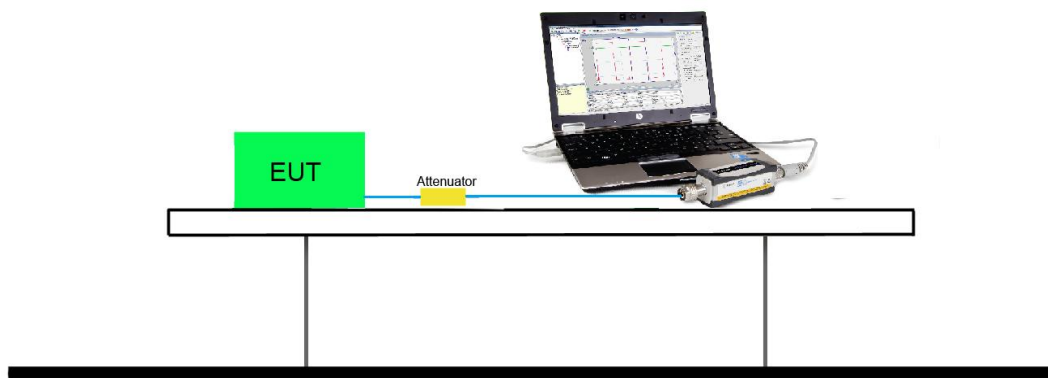
7.5.2. Test Procedure Used

KDB 789033 D02v01- 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

Product	AX11000 MU-MIMO Tri-Band Gaming Router	Temperature	25°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	SR1	Test Date	2018/11/24

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Result
CDD Mode										
11a	6Mbps	52	5260	15.78	15.81	15.57	15.87	23.58	≤ 24.00	Pass
11a	6Mbps	60	5300	15.73	15.81	15.66	15.55	23.51	≤ 24.00	Pass
11a	6Mbps	64	5320	15.77	15.85	15.69	15.56	23.54	≤ 24.00	Pass
11a	6Mbps	100	5500	15.82	16.21	15.68	15.74	23.69	≤ 24.00	Pass
11a	6Mbps	120	5600	15.67	15.87	15.53	15.95	23.58	≤ 24.00	Pass
11a	6Mbps	140	5700	15.61	15.69	15.78	15.75	23.53	≤ 24.00	Pass
11n-HT20	MSC0	52	5260	15.55	15.50	15.71	15.87	23.48	≤ 24.00	Pass
11n-HT20	MCS0	60	5300	15.59	15.86	16.06	15.72	23.63	≤ 24.00	Pass
11n-HT20	MSC0	64	5320	15.65	16.01	16.12	15.77	23.71	≤ 24.00	Pass
11n-HT20	MCS0	100	5500	15.64	16.02	16.04	15.68	23.67	≤ 24.00	Pass
11n-HT20	MSC0	120	5600	15.54	15.75	16.32	15.78	23.68	≤ 24.00	Pass
11n-HT20	MCS0	140	5700	15.38	15.91	16.32	15.73	23.67	≤ 24.00	Pass
11n-HT40	MCS0	54	5270	16.02	15.84	15.98	15.73	23.71	≤ 24.00	Pass
11n-HT40	MCS0	62	5310	15.99	15.92	16.03	15.91	23.78	≤ 24.00	Pass
11n-HT40	MCS0	102	5510	15.76	15.68	15.79	15.85	23.59	≤ 24.00	Pass
11n-HT40	MCS0	118	5590	15.91	16.03	15.67	15.78	23.67	≤ 24.00	Pass
11n-HT40	MCS0	134	5670	15.81	15.99	15.86	15.78	23.68	≤ 24.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Result
CDD Mode										
11ac-VHT20	MSC0	52	5260	15.72	15.60	15.61	16.04	23.57	≤ 24.00	Pass
11ac-VHT20	MCS0	60	5300	15.73	15.55	15.80	15.88	23.56	≤ 24.00	Pass
11ac-VHT20	MSC0	64	5320	15.65	15.79	15.85	15.83	23.60	≤ 24.00	Pass
11ac-VHT20	MCS0	100	5500	15.97	15.86	15.84	15.73	23.67	≤ 24.00	Pass
11ac-VHT20	MSC0	120	5600	15.74	15.89	15.85	15.64	23.60	≤ 24.00	Pass
11ac-VHT20	MCS0	140	5700	16.15	15.91	15.55	15.82	23.68	≤ 24.00	Pass
11ac-VHT40	MCS0	54	5270	15.57	15.82	16.26	16.02	23.75	≤ 24.00	Pass
11ac-VHT40	MCS0	62	5310	15.61	15.85	15.86	16.21	23.71	≤ 24.00	Pass
11ac-VHT40	MCS0	102	5510	15.52	16.02	15.65	15.92	23.60	≤ 24.00	Pass
11ac-VHT40	MCS0	118	5590	15.79	15.87	15.77	15.74	23.61	≤ 24.00	Pass
11ac-VHT40	MCS0	134	5670	15.80	15.87	15.82	15.89	23.67	≤ 24.00	Pass
11ac-VHT80	MCS0	58	5290	15.76	15.81	15.93	15.72	23.63	≤ 24.00	Pass
11ac-VHT80	MCS0	106	5530	15.71	16.12	15.80	16.04	23.74	≤ 24.00	Pass
11ac-VHT80	MCS0	122	5610	15.93	15.91	15.88	15.78	23.70	≤ 24.00	Pass
11ac-VHT160	MCS0	50	5250	16.01	15.76	15.88	15.96	23.72	≤ 24.00	Pass
11ac-VHT160	MCS0	114	5570	15.89	15.76	15.68	15.89	23.63	≤ 24.00	Pass
11ax-HE20	MCS0	52	5260	16.12	15.76	15.78	16.08	23.76	≤ 24.00	Pass
11ax-HE20	MCS0	60	5300	15.99	15.65	15.71	15.90	23.64	≤ 24.00	Pass
11ax-HE20	MCS0	64	5320	15.89	15.92	15.80	15.86	23.69	≤ 24.00	Pass
11ax-HE20	MCS0	100	5500	15.46	16.26	15.89	16.25	23.80	≤ 24.00	Pass
11ax-HE20	MCS0	120	5600	15.76	16.02	15.87	16.03	23.74	≤ 24.00	Pass
11ax-HE20	MCS0	140	5700	15.76	15.95	15.68	16.08	23.69	≤ 24.00	Pass
11ax-HE40	MCS0	54	5270	16.10	16.09	15.99	16.14	23.90	≤ 24.00	Pass
11ax-HE40	MCS0	62	5310	15.29	15.75	16.16	16.13	23.67	≤ 24.00	Pass
11ax-HE40	MCS0	102	5510	15.96	16.15	15.81	15.89	23.77	≤ 24.00	Pass
11ax-HE40	MCS0	118	5590	15.87	15.98	15.81	15.88	23.71	≤ 24.00	Pass
11ax-HE40	MCS0	134	5670	15.79	15.88	15.76	15.82	23.63	≤ 24.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Result
CDD Mode										
11ax-HE80	MCS0	58	5290	16.02	16.12	15.92	16.22	23.89	≤ 24.00	Pass
11ax-HE80	MCS0	106	5530	15.76	15.75	15.78	16.24	23.71	≤ 24.00	Pass
11ax-HE80	MCS0	122	5610	15.82	15.85	15.74	16.11	23.70	≤ 24.00	Pass
11ax-HE160	MCS0	50	5250	16.17	16.05	16.05	15.90	23.86	≤ 24.00	Pass
11ax-HE160	MCS0	114	5570	15.83	15.98	15.68	15.69	23.62	≤ 24.00	Pass

Note 1: The Total E.I.R.P (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\} + \text{Antenna Gain}$, Antenna Gain = 1.8dBi.

Note 2: E.I.R.P Limit (dBm) = 24.0dBm.

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Result
Beam-Forming Mode										
11ac-VHT20	MCS0	52	5260	9.94	9.73	10.21	10.13	23.85	≤ 24.00	Pass
11ac-VHT20	MCS0	60	5300	9.43	9.82	10.13	10.60	23.86	≤ 24.00	Pass
11ac-VHT20	MCS0	64	5320	9.84	9.57	10.04	10.25	23.77	≤ 24.00	Pass
11ac-VHT20	MCS0	100	5500	9.69	10.14	9.81	10.12	23.78	≤ 24.00	Pass
11ac-VHT20	MCS0	120	5600	10.24	10.15	9.75	9.82	23.84	≤ 24.00	Pass
11ac-VHT20	MCS0	140	5700	10.05	9.76	9.48	10.31	23.75	≤ 24.00	Pass
11ac-VHT40	MCS0	54	5270	10.18	10.16	10.13	9.76	23.90	≤ 24.00	Pass
11ac-VHT40	MCS0	62	5310	9.20	9.91	10.04	10.26	23.71	≤ 24.00	Pass
11ac-VHT40	MCS0	102	5510	10.38	9.73	9.55	9.56	23.66	≤ 24.00	Pass
11ac-VHT40	MCS0	118	5590	10.09	10.17	9.84	9.91	23.85	≤ 24.00	Pass
11ac-VHT40	MCS0	134	5670	9.78	10.12	9.65	10.41	23.84	≤ 24.00	Pass
11ac-VHT80	MCS0	58	5290	9.99	10.29	9.75	9.86	23.82	≤ 24.00	Pass
11ac-VHT80	MCS0	106	5530	9.59	10.07	9.48	9.95	23.62	≤ 24.00	Pass
11ac-VHT80	MCS0	122	5610	9.71	10.17	9.81	9.98	23.76	≤ 24.00	Pass
11ac-VHT160	MCS0	50	5250	9.74	9.99	10.26	9.56	23.74	≤ 24.00	Pass
11ac-VHT160	MCS0	114	5570	9.92	10.06	9.89	9.63	23.72	≤ 24.00	Pass
11ax-HE20	MCS0	52	5260	9.71	9.86	10.07	10.14	23.79	≤ 24.00	Pass
11ax-HE20	MCS0	60	5300	9.91	9.84	10.01	9.90	23.76	≤ 24.00	Pass
11ax-HE20	MCS0	64	5320	10.11	9.96	9.61	10.01	23.77	≤ 24.00	Pass
11ax-HE20	MCS0	100	5500	9.89	9.76	9.76	9.84	23.65	≤ 24.00	Pass
11ax-HE20	MCS0	120	5600	9.85	9.87	9.96	9.88	23.73	≤ 24.00	Pass
11ax-HE20	MCS0	140	5700	10.44	9.71	9.48	10.24	23.83	≤ 24.00	Pass
11ax-HE40	MCS0	54	5270	9.82	10.65	9.77	9.66	23.83	≤ 24.00	Pass
11ax-HE40	MCS0	62	5310	9.78	9.82	9.85	9.74	23.64	≤ 24.00	Pass
11ax-HE40	MCS0	102	5510	10.01	10.38	9.66	10.04	23.87	≤ 24.00	Pass
11ax-HE40	MCS0	118	5590	10.18	10.17	9.43	10.14	23.83	≤ 24.00	Pass
11ax-HE40	MCS0	134	5670	9.77	9.90	9.63	10.29	23.75	≤ 24.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Result
Beam-Forming Mode										
11ax-HE80	MCS0	58	5290	9.88	9.78	10.20	10.19	23.86	≤ 24.00	Pass
11ax-HE80	MCS0	106	5530	9.70	9.76	9.65	10.32	23.71	≤ 24.00	Pass
11ax-HE80	MCS0	122	5610	10.11	9.77	10.19	10.01	23.86	≤ 24.00	Pass
11ax-HE160	MCS0	50	5250	9.63	9.92	10.07	10.14	23.78	≤ 24.00	Pass
11ax-HE160	MCS0	114	5570	9.90	9.91	9.75	9.67	23.65	≤ 24.00	Pass

Note: The Total E.I.R.P (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\} + \text{Beam-Forming Gain}$, Beam-Forming Gain = 7.82dBi.

Note 2: E.I.R.P Limit (dBm) = 24.0dBm.

7.6. Power Spectral Density Measurement

7.6.1. Test Limit

For 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.

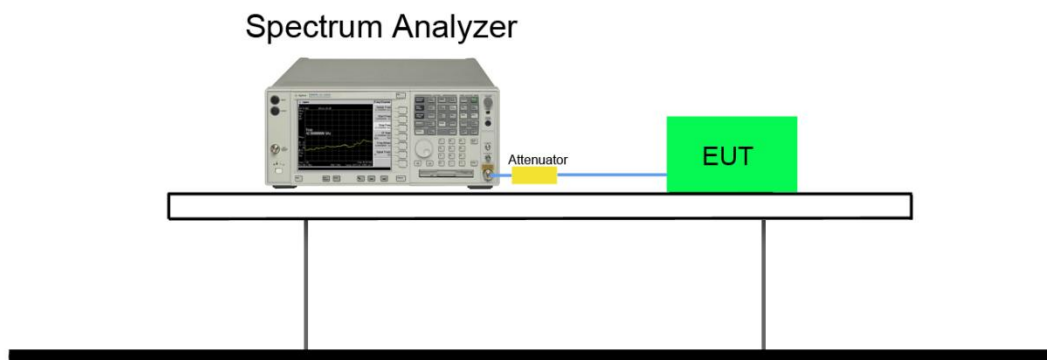
7.6.2. Test Procedure Used

KDB 789033 D02v02r01 - Section F

7.6.3. 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,
RBW = 100 kHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. 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.
11. 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.

7.6.4. Test Setup



7.6.5.Test Result

Product	AX11000 MU-MIMO Tri-Band Gaming Router	Temperature	25°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	SR1	Test Date	2018/11/27

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
CDD Mode											
11a	6Mbps	36	5180	9.17	8.98	8.11	7.93	94.51	14.85	≤ 15.18	Pass
11a	6Mbps	44	5220	8.99	8.64	7.94	8.81	94.51	14.88	≤ 15.18	Pass
11a	6Mbps	48	5240	9.12	8.63	7.84	8.58	94.51	14.83	≤ 15.18	Pass
11a	6Mbps	52	5260	3.16	2.68	1.82	2.53	94.51	8.84	≤ 9.18	Pass
11a	6Mbps	60	5300	3.46	2.36	2.60	2.19	94.51	8.95	≤ 9.18	Pass
11a	6Mbps	64	5320	2.76	2.67	2.61	2.51	94.51	8.90	≤ 9.18	Pass
11a	6Mbps	100	5500	2.76	2.26	2.76	3.14	94.51	9.01	≤ 9.18	Pass
11a	6Mbps	120	5600	3.05	2.98	2.00	2.96	94.51	9.03	≤ 9.18	Pass
11a	6Mbps	140	5700	2.86	2.60	1.36	3.28	94.51	8.85	≤ 9.18	Pass
11n-HT20	MCS0	36	5180	9.11	9.18	8.06	8.13	94.06	14.94	≤ 15.18	Pass
11n-HT20	MCS0	44	5220	8.72	8.22	8.31	8.98	94.06	14.86	≤ 15.18	Pass
11n-HT20	MCS0	48	5240	9.18	8.76	8.15	8.86	94.06	15.04	≤ 15.18	Pass
11n-HT20	MCS0	52	5260	3.42	3.09	1.80	2.25	94.06	8.97	≤ 9.18	Pass
11n-HT20	MCS0	60	5300	3.21	2.14	2.50	2.70	94.06	8.94	≤ 9.18	Pass
11n-HT20	MCS0	64	5320	2.94	2.41	2.60	2.48	94.06	8.90	≤ 9.18	Pass
11n-HT20	MCS0	100	5500	2.43	2.93	2.81	2.65	94.06	9.00	≤ 9.18	Pass
11n-HT20	MCS0	120	5600	2.78	2.69	2.61	2.52	94.06	8.94	≤ 9.18	Pass
11n-HT20	MCS0	140	5700	2.37	2.82	2.44	2.96	94.06	8.94	≤ 9.18	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
CDD Mode											
11n-HT40	MCS0	38	5190	3.50	3.14	1.94	2.77	96.73	9.04	≤ 15.18	Pass
11n-HT40	MCS0	46	5230	8.13	7.90	8.27	7.94	96.73	14.23	≤ 15.18	Pass
11n-HT40	MCS0	54	5270	2.82	2.99	2.32	2.83	96.73	8.91	≤ 9.18	Pass
11n-HT40	MCS0	62	5310	3.37	2.84	2.52	2.85	96.73	9.07	≤ 9.18	Pass
11n-HT40	MCS0	102	5510	2.76	3.02	2.63	2.61	96.73	8.92	≤ 9.18	Pass
11n-HT40	MCS0	118	5590	3.21	3.13	2.53	2.64	96.73	9.05	≤ 9.18	Pass
11n-HT40	MCS0	134	5670	2.88	2.66	2.77	2.67	96.73	8.91	≤ 9.18	Pass
11ac-VHT20	MCS0	36	5180	9.29	9.04	8.01	8.63	97.65	14.89	≤ 15.18	Pass
11ac-VHT20	MCS0	44	5220	9.44	9.15	8.57	8.90	97.65	15.15	≤ 15.18	Pass
11ac-VHT20	MCS0	48	5240	8.96	9.19	8.69	8.97	97.65	15.08	≤ 15.18	Pass
11ac-VHT20	MCS0	52	5260	3.38	2.92	2.64	2.45	97.65	8.99	≤ 9.18	Pass
11ac-VHT20	MCS0	60	5300	3.32	3.09	2.65	2.84	97.65	9.11	≤ 9.18	Pass
11ac-VHT20	MCS0	64	5320	3.15	2.96	2.73	3.08	97.65	9.11	≤ 9.18	Pass
11ac-VHT20	MCS0	100	5500	2.79	3.16	2.81	2.79	97.65	9.01	≤ 9.18	Pass
11ac-VHT20	MCS0	120	5600	2.94	2.96	2.83	3.07	97.65	9.07	≤ 9.18	Pass
11ac-VHT20	MCS0	140	5700	2.88	2.66	2.86	3.27	97.65	9.05	≤ 9.18	Pass
11ac-VHT40	MCS0	38	5190	5.02	4.10	3.42	3.75	98.45	10.14	≤ 15.18	Pass
11ac-VHT40	MCS0	46	5230	7.89	7.92	8.43	8.30	98.45	14.16	≤ 15.18	Pass
11ac-VHT40	MCS0	54	5270	3.49	3.00	2.46	3.13	98.45	9.06	≤ 9.18	Pass
11ac-VHT40	MCS0	62	5310	3.13	3.29	2.21	2.97	98.45	8.94	≤ 9.18	Pass
11ac-VHT40	MCS0	102	5510	2.76	2.68	2.93	2.56	98.45	8.76	≤ 9.18	Pass
11ac-VHT40	MCS0	118	5590	3.10	2.73	2.84	2.70	98.45	8.87	≤ 9.18	Pass
11ac-VHT40	MCS0	134	5670	2.52	2.49	2.85	2.88	98.45	8.71	≤ 9.18	Pass
11ac-VHT80	MCS0	42	5210	0.98	0.12	-0.77	0.05	96.48	6.32	≤ 15.18	Pass
11ac-VHT80	MCS0	58	5290	0.82	0.12	0.05	0.59	96.48	6.58	≤ 9.18	Pass
11ac-VHT80	MCS0	106	5530	0.22	0.24	0.68	0.54	96.48	6.60	≤ 9.18	Pass
11ac-VHT80	MCS0	122	5610	0.18	0.47	0.68	0.42	96.48	6.62	≤ 9.18	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
CDD Mode											
11ac-VHT160	MCS0	50	5250	-4.06	-5.30	-5.95	-5.23	96.60	1.09	≤ 9.18	Pass
11ac-VHT160	MCS0	114	5570	-4.46	-3.68	-3.35	-4.80	96.60	2.14	≤ 9.18	Pass
11ax-HE20	MCS0	36	5180	8.59	8.97	7.71	7.50	98.63	14.26	≤ 15.18	Pass
11ax-HE20	MCS0	44	5220	9.57	8.97	9.02	8.42	98.63	15.03	≤ 15.18	Pass
11ax-HE20	MCS0	48	5240	9.14	9.18	8.85	8.67	98.63	14.99	≤ 15.18	Pass
11ax-HE20	MCS0	52	5260	3.37	3.33	2.29	2.86	98.63	9.00	≤ 9.18	Pass
11ax-HE20	MCS0	60	5300	3.33	3.19	2.30	2.32	98.63	8.83	≤ 9.18	Pass
11ax-HE20	MCS0	64	5320	3.45	2.84	2.95	2.58	98.63	8.99	≤ 9.18	Pass
11ax-HE20	MCS0	100	5500	3.16	3.09	2.57	2.94	98.63	8.97	≤ 9.18	Pass
11ax-HE20	MCS0	120	5600	3.37	2.77	2.89	2.84	98.63	8.99	≤ 9.18	Pass
11ax-HE20	MCS0	140	5700	2.95	3.06	2.53	3.02	98.63	8.92	≤ 9.18	Pass
11ax-HE40	MCS0	38	5190	4.49	3.94	2.74	2.95	97.53	9.72	≤ 15.18	Pass
11ax-HE40	MCS0	46	5230	8.06	8.37	8.17	8.38	97.53	14.38	≤ 15.18	Pass
11ax-HE40	MCS0	54	5270	3.12	2.94	2.36	2.86	97.53	8.96	≤ 9.18	Pass
11ax-HE40	MCS0	62	5310	2.88	3.26	2.66	2.56	97.53	8.98	≤ 9.18	Pass
11ax-HE40	MCS0	102	5510	2.65	2.69	2.96	2.70	97.53	8.88	≤ 9.18	Pass
11ax-HE40	MCS0	118	5590	2.78	3.08	2.92	2.91	97.53	9.05	≤ 9.18	Pass
11ax-HE40	MCS0	134	5670	2.63	2.86	2.53	2.99	97.53	8.89	≤ 9.18	Pass
11ax-HE80	MCS0	42	5210	0.45	-0.87	-1.54	-0.85	95.95	5.56	≤ 15.18	Pass
11ax-HE80	MCS0	58	5290	0.95	1.17	0.54	1.02	95.95	7.13	≤ 9.18	Pass
11ax-HE80	MCS0	106	5530	-0.31	-0.23	0.38	-0.15	95.95	6.13	≤ 9.18	Pass
11ax-HE80	MCS0	122	5610	0.75	0.53	1.18	0.42	95.95	6.93	≤ 9.18	Pass
11ax-HE160	MCS0	50	5250	-2.66	-3.78	-4.78	-4.47	87.91	2.74	≤ 9.18	Pass
11ax-HE160	MCS0	114	5570	-2.77	-2.38	-2.74	-3.61	87.91	3.73	≤ 9.18	Pass

Note 1: When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/MHz).

Note 2: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

Note 3:

For 5150 - 5250MHz Band: PSD Limit (dBm/MHz) = 17dBm/MHz - (7.82dBi - 6.00dBi) = 15.18dBm/MHz.

For 5250 - 5350 and 5470 - 5725MHz Band: PSD Limit (dBm/MHz) = 11dBm/MHz - (7.82dBi - 6.00dBi) = 9.18dBm/MHz.

Product	AX11000 MU-MIMO Tri-Band Gaming Router	Temperature	25°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	SR1	Test Date	2018/11/27

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/100kHz)	Ant 1 PSD (dBm/100kHz)	Ant 2 PSD (dBm/100kHz)	Ant 3 PSD (dBm/100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
CDD Mode												
11a	6Mbps	149	5745	3.52	3.98	3.73	3.91	94.51	6.99	17.04	≤ 28.18	Pass
11a	6Mbps	157	5785	3.48	3.52	4.60	3.92	94.51	6.99	17.16	≤ 28.18	Pass
11a	6Mbps	165	5825	3.54	3.76	4.33	3.46	94.51	6.99	17.04	≤ 28.18	Pass
11n-HT20	MCS0	149	5745	3.01	3.91	4.24	3.98	94.06	6.99	17.09	≤ 28.18	Pass
11n-HT20	MCS0	157	5785	3.48	4.13	4.44	3.51	94.06	6.99	17.19	≤ 28.18	Pass
11n-HT20	MCS0	165	5825	3.04	3.54	4.23	3.44	94.06	6.99	16.86	≤ 28.18	Pass
11n-HT40	MCS0	151	5755	1.22	1.44	1.81	0.43	96.73	6.99	14.41	≤ 28.18	Pass
11n-HT40	MCS0	159	5795	0.50	1.40	1.40	0.82	96.73	6.99	14.20	≤ 28.18	Pass
11ac-VHT20	MCS0	149	5745	2.35	2.44	3.54	3.50	97.65	6.99	16.11	≤ 28.18	Pass
11ac-VHT20	MCS0	157	5785	3.11	3.45	3.64	3.08	97.65	6.99	16.44	≤ 28.18	Pass
11ac-VHT20	MCS0	165	5825	2.45	3.03	3.34	3.01	97.65	6.99	16.08	≤ 28.18	Pass
11ac-VHT40	MCS0	151	5755	0.46	0.81	1.35	0.53	98.45	6.99	13.81	≤ 28.18	Pass
11ac-VHT40	MCS0	159	5795	0.28	0.94	1.28	1.42	98.45	6.99	14.01	≤ 28.18	Pass
11ac-VHT80	MCS0	155	5775	-5.37	-4.98	-4.59	-4.73	96.48	6.99	8.26	≤ 28.18	Pass
11ax-HE20	MCS0	149	5745	2.08	2.17	2.91	1.87	98.63	6.99	15.29	≤ 28.18	Pass
11ax-HE20	MCS0	157	5785	2.06	2.02	3.05	1.93	98.63	6.99	15.30	≤ 28.18	Pass
11ax-HE20	MCS0	165	5825	2.08	2.56	2.97	2.32	98.63	6.99	15.51	≤ 28.18	Pass
11ax-HE40	MCS0	151	5755	-0.59	-0.84	-0.38	-0.30	97.53	6.99	12.60	≤ 28.18	Pass
11ax-HE40	MCS0	159	5795	-1.05	-0.31	-0.12	-0.72	97.53	6.99	12.58	≤ 28.18	Pass
11ax-HE80	MCS0	155	5775	-6.69	-5.50	-5.38	-5.62	95.95	6.99	7.42	≤ 28.18	Pass

Note 1: When EUT duty cycle ≥ 98%, the total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/100kHz) + Constant Factor.

Note 2: When EUT duty cycle < 98%, the total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/100kHz) + Constant Factor + $10 \cdot \log (1/\text{Duty Cycle})$.

Note 3: PSD Limit (dBm/500kHz) = 30dBm/500kHz - (7.82dBi - 6.00dBi) = 28.18dBm/500kHz.

Product	AX11000 MU-MIMO Tri-Band Gaming Router	Temperature	25°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	SR1	Test Date	2018/11/27

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
Beam-Forming Mode											
11ac-VHT20	MCS0	36	5180	9.29	9.04	8.01	8.63	97.65	14.89	≤ 15.18	Pass
11ac-VHT20	MCS0	44	5220	9.44	9.15	8.57	8.90	97.65	15.15	≤ 15.18	Pass
11ac-VHT20	MCS0	48	5240	8.96	9.19	8.69	8.97	97.65	15.08	≤ 15.18	Pass
11ac-VHT20	MCS0	52	5260	3.38	2.92	2.64	2.45	97.65	8.99	≤ 9.18	Pass
11ac-VHT20	MCS0	60	5300	3.32	3.09	2.65	2.84	97.65	9.11	≤ 9.18	Pass
11ac-VHT20	MCS0	64	5320	3.15	2.96	2.73	3.08	97.65	9.11	≤ 9.18	Pass
11ac-VHT20	MCS0	100	5500	2.79	3.16	2.81	2.79	97.65	9.01	≤ 9.18	Pass
11ac-VHT20	MCS0	120	5600	2.94	2.96	2.83	3.07	97.65	9.07	≤ 9.18	Pass
11ac-VHT20	MCS0	140	5700	2.88	2.66	2.86	3.27	97.65	9.05	≤ 9.18	Pass
11ac-VHT40	MCS0	38	5190	3.58	3.86	3.47	3.33	98.45	9.58	≤ 15.18	Pass
11ac-VHT40	MCS0	46	5230	7.16	7.14	7.55	7.61	98.45	13.39	≤ 15.18	Pass
11ac-VHT40	MCS0	54	5270	1.54	1.33	0.97	1.15	98.45	7.27	≤ 9.18	Pass
11ac-VHT40	MCS0	62	5310	0.72	1.29	0.72	0.97	98.45	6.95	≤ 9.18	Pass
11ac-VHT40	MCS0	102	5510	0.72	1.76	0.81	0.45	98.45	6.98	≤ 9.18	Pass
11ac-VHT40	MCS0	118	5590	0.96	0.96	0.63	0.46	98.45	6.78	≤ 9.18	Pass
11ac-VHT40	MCS0	134	5670	0.64	1.98	0.54	0.61	98.45	7.01	≤ 9.18	Pass
11ac-VHT80	MCS0	42	5210	-2.436	-1.155	-2.34	-2.776	96.48	4.04	≤ 15.18	Pass
11ac-VHT80	MCS0	58	5290	-1.91	-0.94	-1.51	-1.64	96.48	4.69	≤ 9.18	Pass
11ac-VHT80	MCS0	106	5530	-2.00	-1.59	-1.66	-2.50	96.48	4.25	≤ 9.18	Pass
11ac-VHT80	MCS0	122	5610	-1.96	-1.52	-2.15	-2.35	96.48	4.19	≤ 9.18	Pass
11ac-VHT160	MCS0	50	5250	-5.25	-4.51	-5.20	-5.11	96.60	1.16	≤ 9.18	Pass
11ac-VHT160	MCS0	114	5570	-5.17	-4.12	-4.33	-5.23	96.60	1.49	≤ 9.18	Pass

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Ant 3 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
Beam-Forming Mode											
11ax-HE20	MCS0	36	5180	8.59	8.97	7.71	7.50	98.63	14.26	≤ 15.18	Pass
11ax-HE20	MCS0	44	5220	9.57	8.97	9.02	8.42	98.63	15.03	≤ 15.18	Pass
11ax-HE20	MCS0	48	5240	9.14	9.18	8.85	8.67	98.63	14.99	≤ 15.18	Pass
11ax-HE20	MCS0	52	5260	3.37	3.33	2.29	2.86	98.63	9.00	≤ 9.18	Pass
11ax-HE20	MCS0	60	5300	3.33	3.19	2.30	2.32	98.63	8.83	≤ 9.18	Pass
11ax-HE20	MCS0	64	5320	3.45	2.84	2.95	2.58	98.63	8.99	≤ 9.18	Pass
11ax-HE20	MCS0	100	5500	3.16	3.09	2.57	2.94	98.63	8.97	≤ 9.18	Pass
11ax-HE20	MCS0	120	5600	3.37	2.77	2.89	2.84	98.63	8.99	≤ 9.18	Pass
11ax-HE20	MCS0	140	5700	2.95	3.06	2.53	3.02	98.63	8.92	≤ 9.18	Pass
11ax-HE40	MCS0	38	5190	2.24	2.88	1.50	2.48	97.53	8.43	≤ 15.18	Pass
11ax-HE40	MCS0	46	5230	6.77	7.15	6.59	7.13	97.53	13.05	≤ 15.18	Pass
11ax-HE40	MCS0	54	5270	0.96	1.00	0.93	1.06	97.53	7.12	≤ 9.18	Pass
11ax-HE40	MCS0	62	5310	1.17	1.61	0.20	1.29	97.53	7.23	≤ 9.18	Pass
11ax-HE40	MCS0	102	5510	1.17	1.47	0.36	0.35	97.53	6.99	≤ 9.18	Pass
11ax-HE40	MCS0	118	5590	0.86	1.22	0.30	0.36	97.53	6.83	≤ 9.18	Pass
11ax-HE40	MCS0	134	5670	0.92	1.61	0.44	0.25	97.53	6.97	≤ 9.18	Pass
11ax-HE80	MCS0	42	5210	-1.26	-1.06	-1.65	-1.42	95.95	4.86	≤ 15.18	Pass
11ax-HE80	MCS0	58	5290	-1.51	-0.92	-1.27	-1.48	95.95	4.91	≤ 9.18	Pass
11ax-HE80	MCS0	106	5530	-2.24	-1.63	-1.96	-2.56	95.95	4.12	≤ 9.18	Pass
11ax-HE80	MCS0	122	5610	-1.94	-2.11	-2.74	-2.82	95.95	3.81	≤ 9.18	Pass
11ax-HE160	MCS0	50	5250	-4.51	-4.15	-5.08	-5.49	87.91	1.80	≤ 9.18	Pass
11ax-HE160	MCS0	114	5570	-5.26	-4.88	-4.65	-5.35	87.91	1.55	≤ 9.18	Pass

Note 1: When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/MHz).

Note 2: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

Note 3:

For 5150 - 5250MHz Band: PSD Limit (dBm/MHz) = 17dBm/MHz - (7.82dBi - 6.00dBi) = 15.18dBm/MHz.

For 5150 - 5250MHz and 5470 - 5725MHz Bands: PSD Limit (dBm/MHz) = 11dBm/MHz - (7.82dBi - 6.00dBi) = 9.18dBm/MHz.

Product	AX11000 MU-MIMO Tri-Band Gaming Router	Temperature	25°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	SR1	Test Date	2018/11/27

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/100kHz)	Ant 1 PSD (dBm/100kHz)	Ant 2 PSD (dBm/100kHz)	Ant 3 PSD (dBm/100kHz)	Duty Cycle (%)	Constant Factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
Beam-Forming Mode												
11ac-VHT20	MCS0	149	5745	1.36	1.87	1.56	0.85	97.65	6.99	14.54	≤ 28.18	Pass
11ac-VHT20	MCS0	157	5785	1.66	1.57	1.40	1.72	97.65	6.99	14.70	≤ 28.18	Pass
11ac-VHT20	MCS0	165	5825	2.04	2.00	1.34	1.50	97.65	6.99	14.84	≤ 28.18	Pass
11ac-VHT40	MCS0	151	5755	-2.15	-1.42	-2.70	-3.06	98.45	6.99	10.72	≤ 28.18	Pass
11ac-VHT40	MCS0	159	5795	-1.93	-1.95	-1.91	-2.72	98.45	6.99	10.90	≤ 28.18	Pass
11ac-VHT80	MCS0	155	5775	-5.06	-4.15	-4.08	-5.06	96.48	6.99	8.60	≤ 28.18	Pass
11ax-HE20	MCS0	149	5745	0.40	0.26	0.49	0.66	98.63	6.99	13.47	≤ 28.18	Pass
11ax-HE20	MCS0	157	5785	0.46	0.73	0.30	0.59	98.63	6.99	13.53	≤ 28.18	Pass
11ax-HE20	MCS0	165	5825	0.59	1.15	0.83	0.34	98.63	6.99	13.75	≤ 28.18	Pass
11ax-HE40	MCS0	151	5755	-2.33	-1.71	-2.88	-2.32	97.53	6.99	10.83	≤ 28.18	Pass
11ax-HE40	MCS0	159	5795	-1.85	-2.12	-1.71	-2.66	97.53	6.99	11.05	≤ 28.18	Pass
11ax-HE80	MCS0	155	5775	-5.73	-4.91	-4.43	-5.49	95.95	6.99	8.08	≤ 28.18	Pass

Note 1: When EUT duty cycle ≥ 98%, the total PSD (dBm/500KHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/100KHz) + Constant Factor.

Note 2: When EUT duty cycle < 98%, the total PSD (dBm/500KHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/100KHz) + Constant Factor + $10 \cdot \log (1/\text{Duty Cycle})$.

Note 3: PSD Limit (dBm/500kHz) = 30dBm/500kHz - (7.82dBi - 6.00dBi) = 28.18dBm/500kHz.