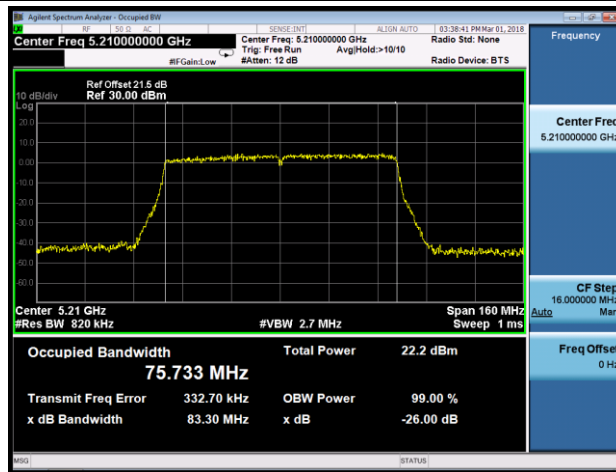


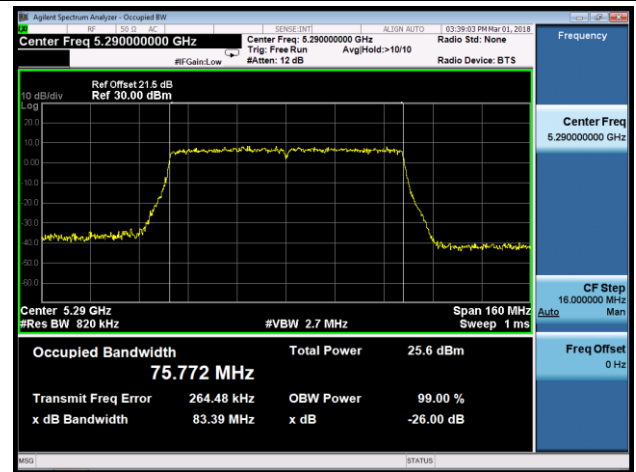
Non-contiguous 80+80 MHz mode

802.11ac-VHT80+80 26dB Bandwidth & 99% Bandwidth - Ant 3 / Ant 2 + 3 (Ant 0 + 1 + 2 + 3)

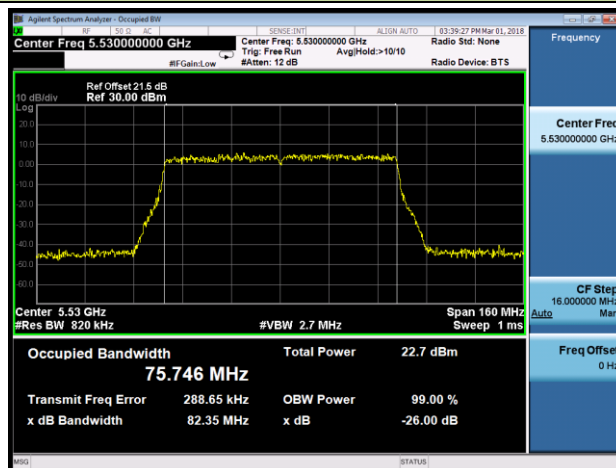
Channel 42 (5210MHz)



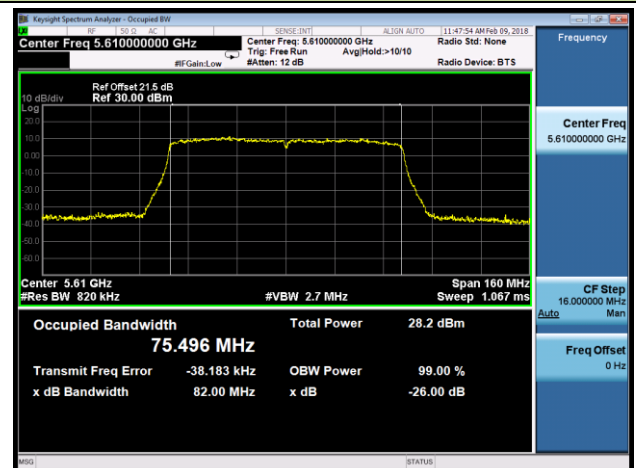
Channel 58 (5290MHz)



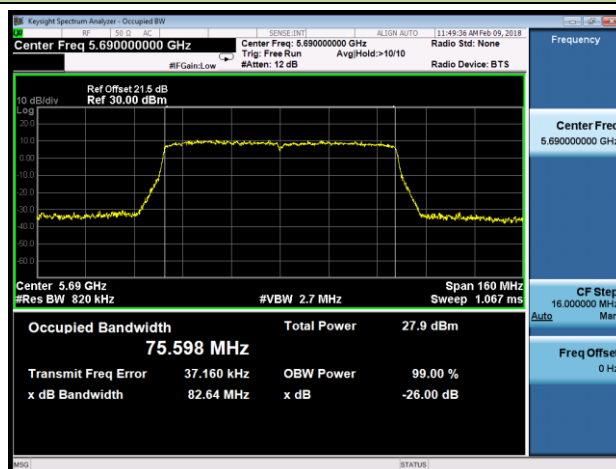
Channel 106 (5530MHz)



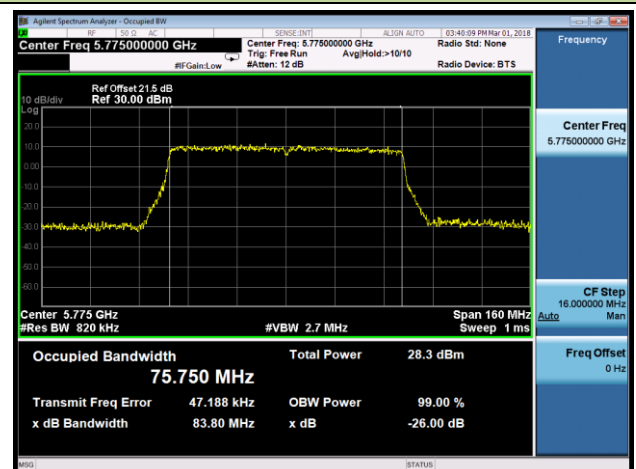
Channel 122 (5610MHz)



Channel 138 (5690MHz)



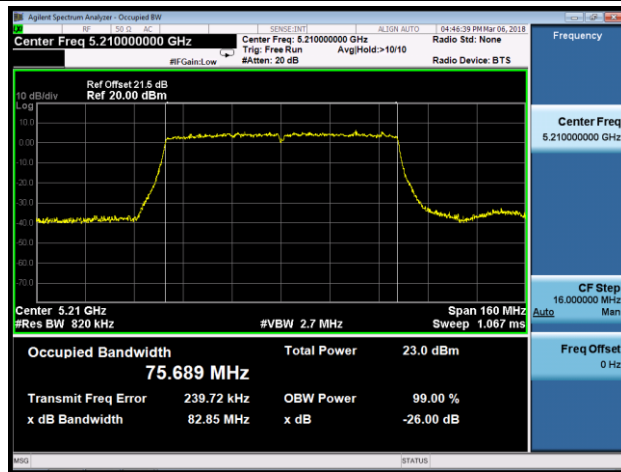
Channel 155 (5775MHz)



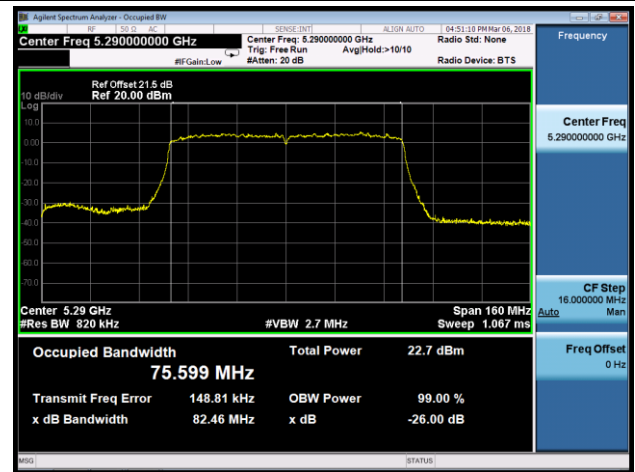
Contiguous 80+80 MHz mode

802.11ac-VHT80+80 26dB Bandwidth & 99% Bandwidth - Ant 0 + 1 + 2 + 3

Channel 42 (5210MHz)



Channel 58 (5290MHz)

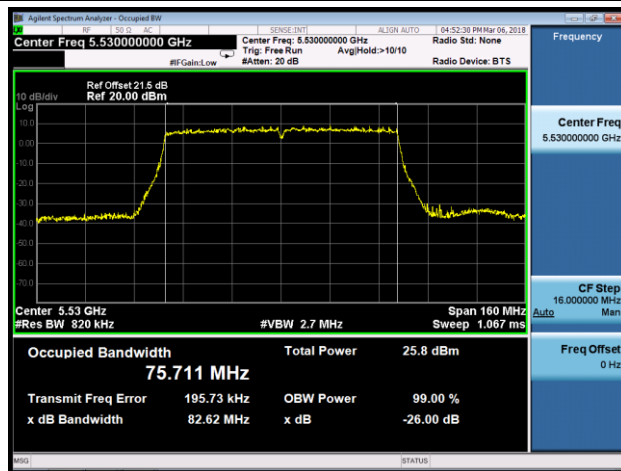


Note: 26dB OCW = $[5290 + (82.46/2)] - [5210 - (82.85/2)] = 162.655$ MHz

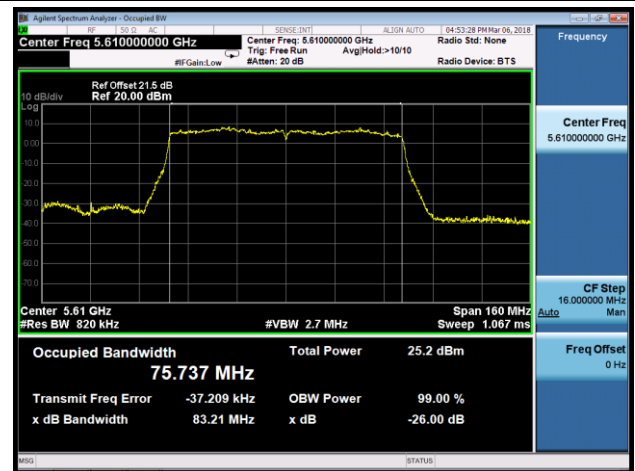
99% OCW = $[5290 + (75.599/2)] - [5210 - (75.689/2)] = 155.644$ MHz

802.11ac-VHT80+80 26dB Bandwidth & 99% Bandwidth - Ant 0 + 1 + 2 + 3

Channel 106 (5530MHz)



Channel 122 (5610MHz)



Note: 26dB OCW = $[5610 + (83.21/2)] - [5530 - (82.62/2)] = 162.915$ MHz

99% OCW = $[5610 + (75.737/2)] - [5530 - (75.711/2)] = 155.724$ MHz

5.5. 6dB 佔用頻寬

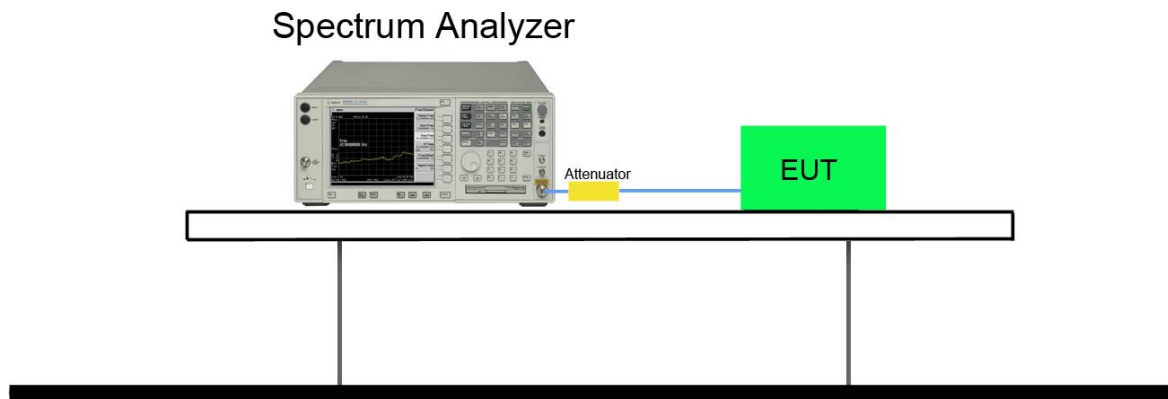
5.5.1. 適用標準

在 5.725 GHz~5.850 GHz 頻段操作之設備，其 6 dB 頻寬至少應有 500 kHz。

5.5.2. 量測方法

待測物之天線埠經由適當之衰減直接連至頻譜分析儀RF輸入端，峰值發射功率必須使用依據均方根等效電壓校準之儀器量測於任何連續傳輸之時段，量測結果須依儀器限制(如偵測器反應時間、相較於發射頻寬有限之解析頻寬能力，靈敏度等)調整得出正確之峰值量測或使用峰值功率表。

5.5.3. 測試架構圖



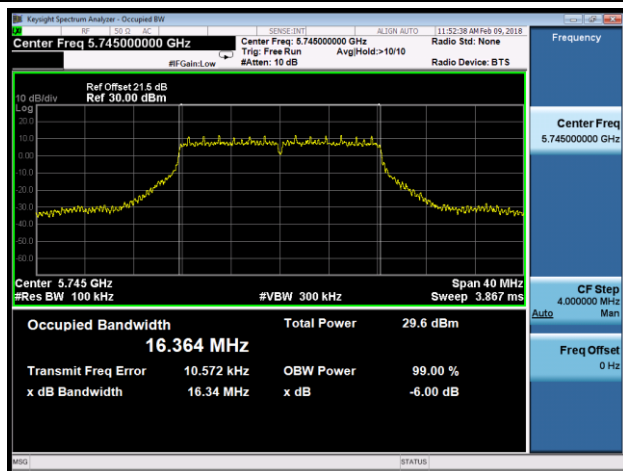
5.5.4. 6dB 佔用頻寬測試結果

Product	ACCESS POINT	Temperature	24°C
Test Engineer	Kevin Ker	Relative Humidity	59%
Test Site	SR2	Test Date	2018/02/09
Antenna Type	Omin Antenna (AP-ANT-20W)		

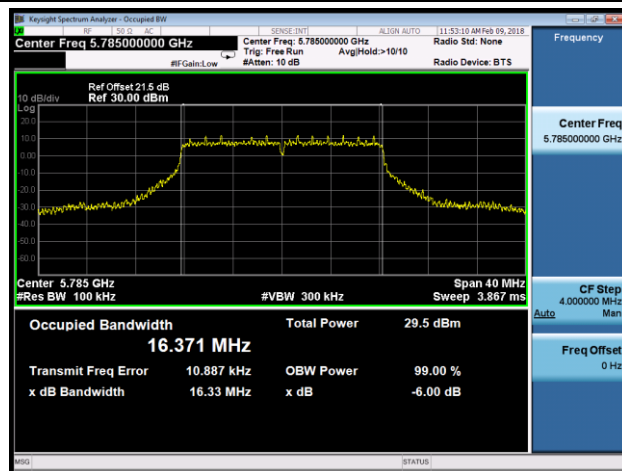
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0 / Ant 0 + 1 + 2 + 3						
802.11a	6Mbps	149	5745	16.34	≥0.5	Pass
802.11a	6Mbps	157	5785	16.33	≥0.5	Pass
802.11a	6Mbps	165	5825	16.33	≥0.5	Pass
802.11ac-VHT20	MCS0	149	5745	16.96	≥0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.53	≥0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.57	≥0.5	Pass
802.11ac-VHT40	MCS0	151	5755	35.12	≥0.5	Pass
802.11ac-VHT40	MCS0	159	5795	35.15	≥0.5	Pass
802.11ac-VHT80	MCS0	155	5775	76.12	≥0.5	Pass
Non-contiguous 80+80 MHz mode_Ant 0 / Ant 0 + 1 (Ant 0 + 1 + 2 + 3)						
802.11ac-VHT80+80	MCS0	155	5775	76.20	≥0.5	Pass
Non-contiguous 80+80 MHz mode_Ant 3 / Ant 2 + 3 (Ant 0 + 1 + 2 + 3)						
802.11ac-VHT80+80	MCS0	155	5775	76.17	≥0.5	Pass

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

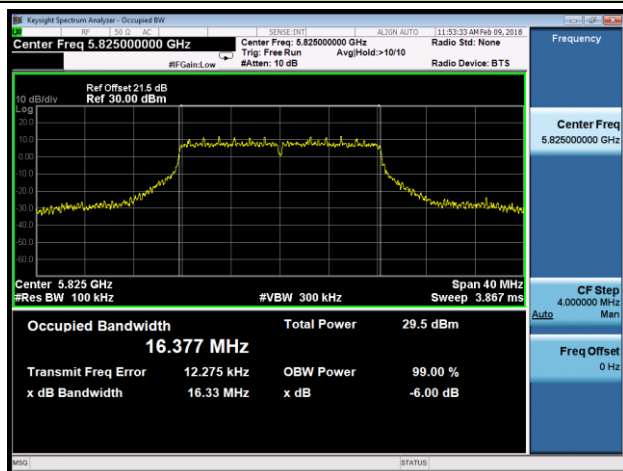
Channel 149 (5745MHz)



Channel 157 (5785MHz)

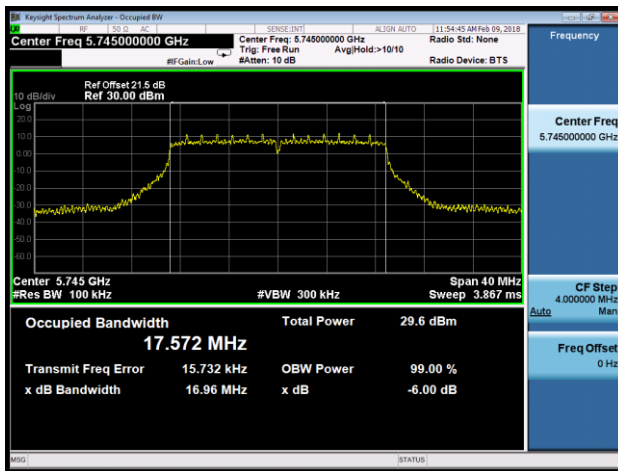


Channel 165 (5825MHz)

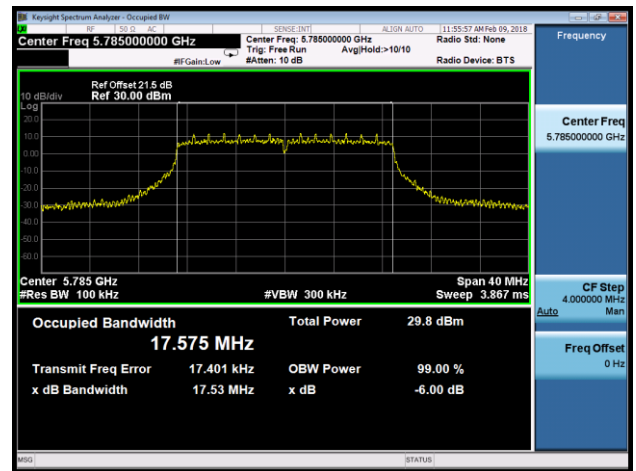


802.11ac-VHT20 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

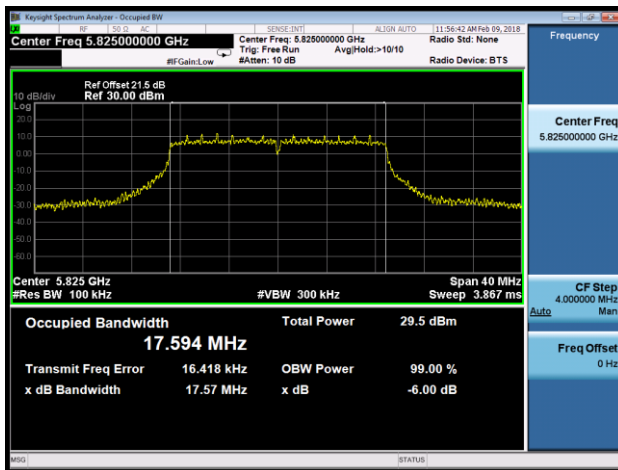
Channel 149 (5745MHz)



Channel 157 (5785MHz)

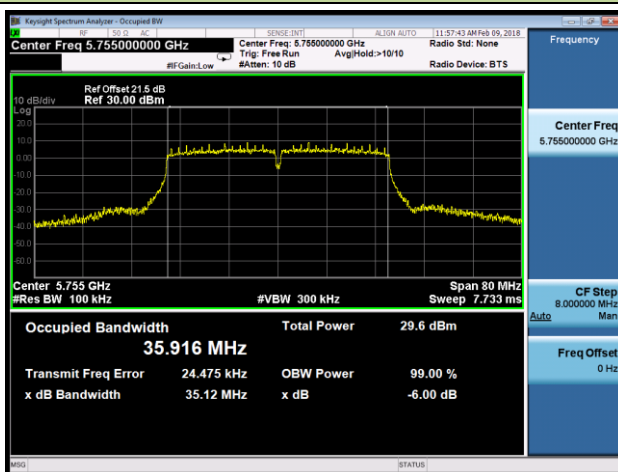


Channel 165 (5825MHz)

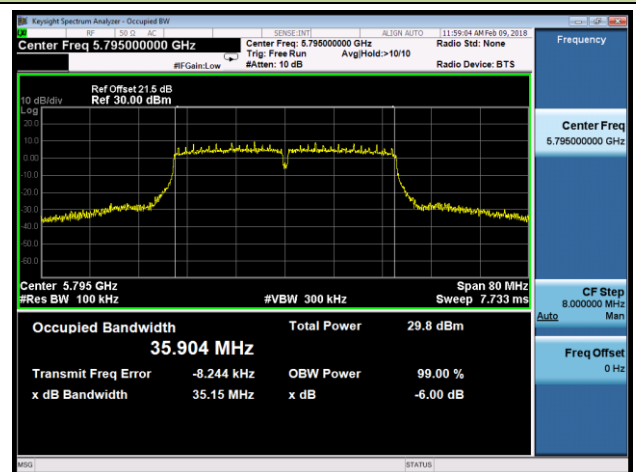


802.11ac-VHT40 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 151 (5755MHz)

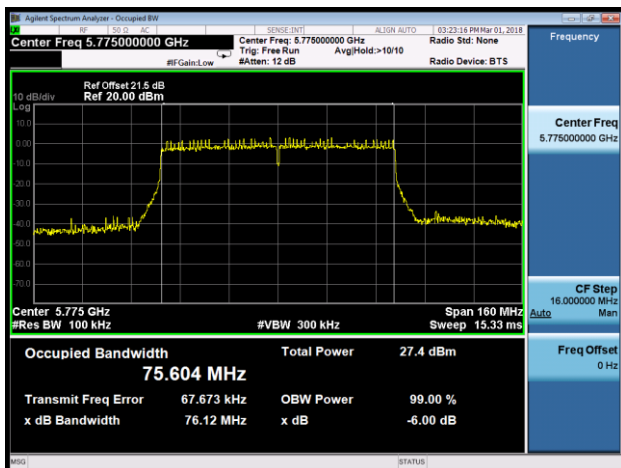


Channel 159 (5795MHz)



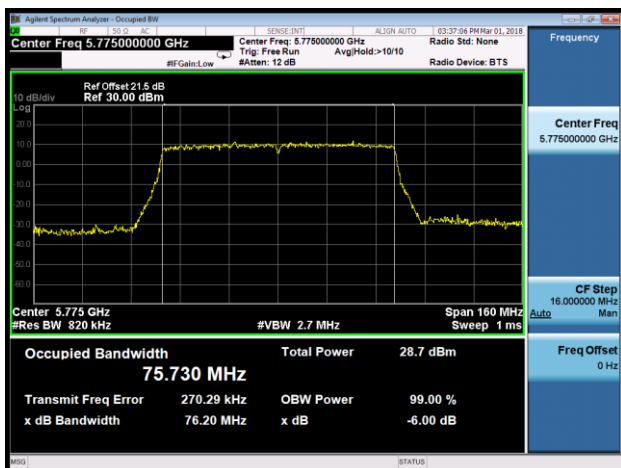
802.11ac-VHT80 6dB Bandwidth - Ant 0 / Ant 0 + 1 + 2 + 3

Channel 155 (5775MHz)



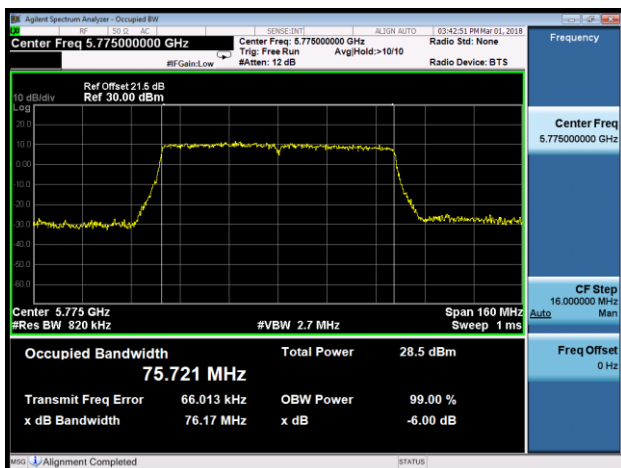
802.11ac-VHT80+80 Non-contiguous 6dB Bandwidth - Ant 0 / Ant 0 + 1 (Ant 0 + 1 + 2 + 3)

Channel 155 (5775MHz)



802.11ac-VHT80+80 Non-contiguous 6dB Bandwidth - Ant 3 / Ant 2 + 3 (Ant 0 + 1 + 2 + 3)

Channel 155 (5775MHz)



5.6. 最大功率頻譜密度

5.6.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範之第4.7.2(1)(2)(3)節

使用於5.15 GHz~5.25 GHz 頻段，供室內操作使用，在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。

使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段，最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。

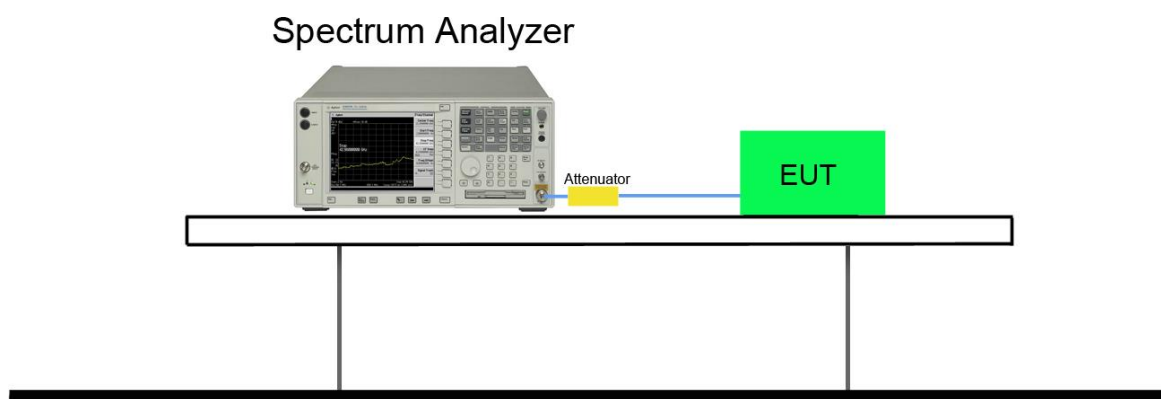
使用頻率於5.725 GHz~5.850 GHz 頻段，在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。

使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大功率頻譜密度。

5.6.2. 量測方法

待測物之天線埠經由適當之衰減直接連至頻譜分析儀RF輸入端，量測定於1MHz/500kHz頻寬。

5.6.3. 測試架構圖



5.6.4. 峰值功率頻譜密度測試結果

Product	ACCESS POINT	Temperature	24°C
Test Engineer	Kevin Ker	Relative Humidity	59%
Test Site	SR2	Test Date	2018/02/08
Test Item	Power Spectral Density (UNII-Band 1 & UNII-2A & UNII-2C)		
Antenna Type	Omni Antenna (AP-ANT-20W)		

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
Ant 0 + 1 + 2 + 3 (CDD Mode)											
11a	6Mbps	36	5180	8.45	8.20	8.20	8.29	97.18	14.43	≤ 14.98	Pass
11a	6Mbps	44	5220	8.76	8.25	8.61	8.61	97.18	14.71	≤ 14.98	Pass
11a	6Mbps	48	5240	8.72	8.43	8.24	8.33	97.18	14.58	≤ 14.98	Pass
11a	6Mbps	52	5260	2.56	2.74	2.27	2.32	97.18	8.62	≤ 8.98	Pass
11a	6Mbps	60	5300	2.74	2.66	2.55	2.67	97.18	8.80	≤ 8.98	Pass
11a	6Mbps	64	5320	2.87	2.43	2.50	2.22	97.18	8.66	≤ 8.98	Pass
11a	6Mbps	100	5500	2.21	2.70	1.90	2.34	97.18	8.44	≤ 8.98	Pass
11a	6Mbps	120	5600	2.33	2.77	2.30	2.78	97.18	8.70	≤ 8.98	Pass
11a	6Mbps	140	5700	2.12	2.13	2.11	2.74	97.18	8.43	≤ 8.98	Pass
11a	6Mbps	144	5720	2.94	2.63	2.29	2.94	97.18	8.85	≤ 8.98	Pass
11ac-VHT20	MCS0	36	5180	8.90	8.34	8.59	8.82	98.23	14.69	≤ 14.98	Pass
11ac-VHT20	MCS0	44	5220	8.71	8.41	8.61	8.55	98.23	14.59	≤ 14.98	Pass
11ac-VHT20	MCS0	48	5240	8.90	8.56	8.57	8.57	98.23	14.67	≤ 14.98	Pass
11ac-VHT20	MCS0	52	5260	2.50	2.49	2.16	2.60	98.23	8.46	≤ 8.98	Pass
11ac-VHT20	MCS0	60	5300	2.93	2.56	2.31	2.78	98.23	8.67	≤ 8.98	Pass
11ac-VHT20	MCS0	64	5320	2.89	2.48	2.63	2.33	98.23	8.61	≤ 8.98	Pass
11ac-VHT20	MCS0	100	5500	2.29	2.33	2.16	2.66	98.23	8.38	≤ 8.98	Pass
11ac-VHT20	MCS0	120	5600	2.27	2.72	2.26	2.70	98.23	8.51	≤ 8.98	Pass
11ac-VHT20	MCS0	140	5700	2.32	2.25	2.12	2.73	98.23	8.38	≤ 8.98	Pass
11ac-VHT20	MCS0	144	5720	2.49	2.32	2.07	2.79	98.23	8.45	≤ 8.98	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
Ant 0 + 1 + 2 + 3 (CDD Mode)											
11ac-VHT40	MCS0	38	5190	0.62	0.58	0.17	0.37	96.12	6.63	≤ 14.98	Pass
11ac-VHT40	MCS0	46	5230	7.76	7.61	7.19	7.20	96.12	13.64	≤ 14.98	Pass
11ac-VHT40	MCS0	54	5270	2.31	2.09	2.11	2.14	96.12	8.36	≤ 8.98	Pass
11ac-VHT40	MCS0	62	5310	2.10	2.07	1.87	1.82	96.12	8.16	≤ 8.98	Pass
11ac-VHT40	MCS0	102	5510	2.86	2.57	2.40	2.81	96.12	8.86	≤ 8.98	Pass
11ac-VHT40	MCS0	118	5590	2.84	2.82	2.14	2.57	96.12	8.79	≤ 8.98	Pass
11ac-VHT40	MCS0	134	5670	2.52	2.22	2.31	2.20	96.12	8.51	≤ 8.98	Pass
11ac-VHT40	MCS0	142	5710	2.65	2.20	2.15	2.65	96.12	8.61	≤ 8.98	Pass
11ac-VHT80	MCS0	42	5210	-5.05	-5.64	-5.73	-5.40	93.75	0.86	≤ 14.98	Pass
11ac-VHT80	MCS0	58	5290	-1.68	-1.87	-1.97	-1.42	93.75	4.57	≤ 8.98	Pass
11ac-VHT80	MCS0	106	5530	-2.61	-2.39	-2.46	-2.81	93.75	3.74	≤ 8.98	Pass
11ac-VHT80	MCS0	122	5610	0.61	0.34	0.08	0.63	93.75	6.72	≤ 8.98	Pass
11ac-VHT80	MCS0	138	5690	0.60	0.19	0.08	0.26	93.75	6.59	≤ 8.98	Pass
Non-contiguous 80+80 MHz mode fall within different UNII band											
11ac-VHT80+80	MCS0	42	5210	-2.37	-2.75	--	--	93.75	0.73	≤ 17.00	Pass
11ac-VHT80+80	MCS0	42	5210	--	--	-2.21	-1.91	93.75	1.23	≤ 17.00	Pass
11ac-VHT80+80	MCS0	58	5290	1.38	1.32	--	--	93.75	4.64	≤ 11.00	Pass
11ac-VHT80+80	MCS0	58	5290	--	--	1.03	1.36	93.75	4.49	≤ 11.00	Pass
11ac-VHT80+80	MCS0	106	5530	-0.82	-0.72	--	--	93.75	2.52	≤ 11.00	Pass
11ac-VHT80+80	MCS0	106	5530	--	--	-0.19	-0.71	93.75	2.85	≤ 11.00	Pass
11ac-VHT80+80	MCS0	122	5610	3.47	3.71	--	--	93.75	6.88	≤ 11.00	Pass
11ac-VHT80+80	MCS0	122	5610	--	--	2.89	3.83	93.75	6.68	≤ 11.00	Pass
11ac-VHT80+80	MCS0	138	5690	3.62	3.59	--	--	93.75	6.90	≤ 11.00	Pass
11ac-VHT80+80	MCS0	138	5690	--	--	2.96	3.74	93.75	6.66	≤ 11.00	Pass
Non-contiguous 80+80 MHz mode fall within same UNII band											
11ac-VHT80+80	MCS0	106	5530	-0.28	-0.35	--	--	93.75	5.72	≤ 11.00	Pass
11ac-VHT80+80	MCS0	138	5690	--	--	-0.93	-0.82				
11ac-VHT80+80	MCS0	106	5530	--	--	-0.06	0.25	93.75	6.48	≤ 11.00	Pass
11ac-VHT80+80	MCS0	138	5690	0.61	-0.11	--	--				

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
Contiguous 80+80 MHz mode											
11ac-VHT80+80	MCS0	42	5210	-1.88	-2.02	--	--	96.71	1.21	≤ 17.00	Pass
	MCS0	58	5290	--	--	-2.44	-2.22	96.71	0.83	≤ 11.00	Pass
11ac-VHT80+80	MCS0	106	5530	0.44	0.19	--	--	96.71	6.54	≤ 11.00	Pass
	MCS0	122	5610	--	--	0.21	0.64				

Note 1: When EUT duty cycle ≥ 98%, 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%, 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 Non-contiguous 80+80 MHz mode fall within different UNII band:

Ant 0 & Ant 1: Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

Ant 2 & Ant 3: Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

For Non-contiguous 80+80 MHz mode fall within same UNII band:

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 4: For 802.11ac-VHT80+80 Contiguous Mode:

5210MHz Fall within UNII-1:

Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

5290MHz Fall within UNII-2A:

Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

5530MHz & 5610MHz Fall within UNII-2C:

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 5: PSD Limit Calculation as below:

For 5150-5250MHz:

802.11a/ac-VHT20/ac-VHT40/ac-VHT80: Limit (dBm/MHz) = 17dBm/MHz - (8.02dBi - 6dBi) = 14.98 dBm/MHz.

802.11ac-VHT80+80: Limit (dBm/MHz) = 17.00 dBm/MHz.

For 5250-5350MHz & 5470-5725MHz:

802.11a/ac-VHT20/ac-VHT40/ac-VHT80: Limit (dBm/MHz) = 11dBm/MHz - (8.02dBi - 6dBi) = 8.98 dBm/MHz.

802.11ac-VHT80+80: Limit (dBm/MHz) = 11.00 dBm/MHz.

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
Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)											
11ac-VHT20	MCS0	36	5180	8.90	8.34	8.59	8.82	98.23	14.69	≤ 14.98	Pass
11ac-VHT20	MCS0	44	5220	8.71	8.41	8.61	8.55	98.23	14.59	≤ 14.98	Pass
11ac-VHT20	MCS0	48	5240	8.90	8.56	8.57	8.57	98.23	14.67	≤ 14.98	Pass
11ac-VHT20	MCS0	52	5260	2.50	2.49	2.16	2.60	98.23	8.46	≤ 8.98	Pass
11ac-VHT20	MCS0	60	5300	2.93	2.56	2.31	2.78	98.23	8.67	≤ 8.98	Pass
11ac-VHT20	MCS0	64	5320	2.89	2.48	2.63	2.33	98.23	8.61	≤ 8.98	Pass
11ac-VHT20	MCS0	100	5500	2.29	2.33	2.16	2.66	98.23	8.38	≤ 8.98	Pass
11ac-VHT20	MCS0	120	5600	2.27	2.72	2.26	2.70	98.23	8.51	≤ 8.98	Pass
11ac-VHT20	MCS0	140	5700	2.32	2.25	2.12	2.73	98.23	8.38	≤ 8.98	Pass
11ac-VHT20	MCS0	144	5720	2.49	2.32	2.07	2.79	98.23	8.45	≤ 8.98	Pass
11ac-VHT40	MCS0	38	5190	6.91	6.55	7.05	6.61	96.12	12.98	≤ 14.98	Pass
11ac-VHT40	MCS0	46	5230	7.99	7.21	7.29	7.28	96.12	13.65	≤ 14.98	Pass
11ac-VHT40	MCS0	54	5270	1.46	1.26	0.94	1.01	96.12	7.36	≤ 8.98	Pass
11ac-VHT40	MCS0	62	5310	1.33	1.13	0.90	1.07	96.12	7.30	≤ 8.98	Pass
11ac-VHT40	MCS0	102	5510	1.80	1.60	1.28	1.59	96.12	7.76	≤ 8.98	Pass
11ac-VHT40	MCS0	118	5590	1.98	1.88	1.72	1.99	96.12	8.09	≤ 8.98	Pass
11ac-VHT40	MCS0	134	5670	1.88	1.56	1.72	1.85	96.12	7.95	≤ 8.98	Pass
11ac-VHT40	MCS0	142	5710	1.76	1.31	1.07	1.94	96.12	7.73	≤ 8.98	Pass
11ac-VHT80	MCS0	42	5210	1.22	1.12	0.91	0.52	93.75	7.25	≤ 14.98	Pass
11ac-VHT80	MCS0	58	5290	2.26	-2.16	-2.58	-2.48	93.75	5.61	≤ 8.98	Pass
11ac-VHT80	MCS0	106	5530	-1.57	-1.61	-2.38	-1.81	93.75	4.47	≤ 8.98	Pass
11ac-VHT80	MCS0	122	5610	-1.42	-1.53	-1.96	-1.64	93.75	4.67	≤ 8.98	Pass
11ac-VHT80	MCS0	138	5690	-1.17	-1.74	-1.92	-1.84	93.75	4.64	≤ 8.98	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
Non-contiguous 80+80 MHz mode fall within different UNII band											
11ac-VHT80+80	MCS0	42	5210	3.29	2.77	--	--	93.75	6.33	≤ 17.00	Pass
11ac-VHT80+80	MCS0	42	5210	--	--	4.99	4.56	93.75	8.07	≤ 17.00	Pass
11ac-VHT80+80	MCS0	58	5290	1.12	0.86	--	--	93.75	4.28	≤ 11.00	Pass
11ac-VHT80+80	MCS0	58	5290	--	--	0.80	1.10	93.75	4.24	≤ 11.00	Pass
11ac-VHT80+80	MCS0	106	5530	1.32	1.12	--	--	93.75	4.51	≤ 11.00	Pass
11ac-VHT80+80	MCS0	106	5530	--	--	1.13	1.44	93.75	4.58	≤ 11.00	Pass
11ac-VHT80+80	MCS0	122	5610	1.68	1.47	--	--	93.75	4.87	≤ 11.00	Pass
11ac-VHT80+80	MCS0	122	5610	--	--	1.09	1.74	93.75	4.72	≤ 11.00	Pass
11ac-VHT80+80	MCS0	138	5690	1.49	1.00	--	--	93.75	4.54	≤ 11.00	Pass
11ac-VHT80+80	MCS0	138	5690	--	--	1.33	1.48	93.75	4.70	≤ 11.00	Pass
Non-contiguous 80+80 MHz mode fall within same UNII band											
11ac-VHT80+80	MCS0	106	5530	-1.77	-2.09	--	--	93.75	4.56	≤ 11.00	Pass
11ac-VHT80+80	MCS0	138	5690	--	--	-1.84	-1.31				
11ac-VHT80+80	MCS0	106	5530	--	--	-2.52	-1.68	93.75	4.41	≤ 11.00	Pass
11ac-VHT80+80	MCS0	138	5690	-1.60	-1.82	--	--				

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

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

Note 3: For Non-contiguous 80+80 MHz mode fall within different UNII band:

Ant 0 & Ant 1: Total PSD (dBm/MHz) = $10^{\log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}}$ (dBm/MHz) + $10^{\log (1/\text{Duty Cycle})}$.

Ant 2 & Ant 3: Total PSD (dBm/MHz) = $10^{\log \{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}}$ (dBm/MHz) + $10^{\log (1/\text{Duty Cycle})}$.

For Non-contiguous 80+80 MHz mode fall within same UNII band:

Total PSD (dBm/MHz) = $10^{\log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}}$ (dBm/MHz) + $10^{\log (1/\text{Duty Cycle})}$.

Note 4: PSD Limit Calculation as below:

For 5150-5250MHz:

802.11ac-VHT20/ac-VHT40/ac-VHT80: Limit (dBm/MHz) = 17dBm/MHz - (8.02dBi - 6dBi) = 14.98 dBm/MHz.

802.11ac-VHT80+80: Limit (dBm/MHz) = 17.00 dBm/MHz.

For 5250-5350MHz & 5470-5725MHz:

802.11ac-VHT20/ac-VHT40/ac-VHT80: Limit (dBm/MHz) = 11dBm/MHz - (8.02dBi - 6dBi) = 8.98 dBm/MHz.

802.11ac-VHT80+80: Limit (dBm/MHz) = 11.00 dBm/MHz.

Product	ACCESS POINT	Temperature	22°C
Test Engineer	Kevin Ker	Relative Humidity	54%
Test Site	SR2	Test Date	2018/02/08
Test Item	Power Spectral Density (UNII-Band 3)		
Antenna Type	Omin Antenna (AP-ANT-20W)		

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
Ant 0 + 1 + 2 + 3 (CDD Mode)												
11a	6Mbps	149	5745	2.01	1.76	2.03	1.95	97.18	6.99	15.07	≤ 27.98	Pass
11a	6Mbps	157	5785	2.21	1.94	2.27	2.31	97.18	6.99	15.32	≤ 27.98	Pass
11a	6Mbps	165	5825	2.58	1.64	1.73	2.37	97.18	6.99	15.23	≤ 27.98	Pass
11ac-VHT20	MCS0	149	5745	1.98	1.29	2.16	1.76	98.23	6.99	14.82	≤ 27.98	Pass
11ac-VHT20	MCS0	157	5785	2.11	1.38	2.55	1.91	98.23	6.99	15.02	≤ 27.98	Pass
11ac-VHT20	MCS0	165	5825	1.84	1.86	1.68	1.77	98.23	6.99	14.80	≤ 27.98	Pass
11ac-VHT40	MCS0	151	5755	-0.81	-1.24	-1.18	-0.82	96.12	6.99	12.17	≤ 27.98	Pass
11ac-VHT40	MCS0	159	5795	-0.79	-0.99	-1.26	-1.05	96.12	6.99	12.16	≤ 27.98	Pass
11ac-VHT80	MCS0	155	5775	2.83	2.42	2.88	2.70	93.75	6.99	16.00	≤ 27.98	Pass
11ac-VHT80+80	MCS0	155	5775	4.28	4.10	--	--	93.75	6.99	14.47	≤ 30.00	Pass
11ac-VHT80+80	MCS0	155	5775	--	--	4.02	4.60	93.75	6.99	14.60	≤ 30.00	Pass

Note 1: When EUT duty cycle ≥ 98%, 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%, 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: For 802.11ac-VHT80+80:

Ant 0 & Ant 1: Total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/100kHz) + Constant Factor + $10 \cdot \log (1/\text{Duty Cycle})$.

Ant 2 & Ant 3: Total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/100kHz) + Constant Factor + $10 \cdot \log (1/\text{Duty Cycle})$.

Note 4: PSD Limit Calculation as below:

For 802.11a/ac-VHT20/ac-VHT40/ac-VHT80: Limit (dBm/500kHz) = 30dBm/500kHz - (8.02dBi - 6dBi) = 27.98 dBm/500kHz.

For 802.11ac-VHT80+80: Limit (dBm/500kHz) = 30.00 dBm/500kHz.

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
Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)												
11ac-VHT20	MCS0	149	5745	1.82	0.96	1.57	1.37	98.23	6.99	14.45	≤ 27.98	Pass
11ac-VHT20	MCS0	157	5785	1.68	0.80	1.29	1.89	98.23	6.99	14.44	≤ 27.98	Pass
11ac-VHT20	MCS0	165	5825	1.25	0.82	1.35	1.68	98.23	6.99	14.30	≤ 27.98	Pass
11ac-VHT40	MCS0	151	5755	-0.97	-1.21	-1.35	-0.69	96.12	6.99	12.13	≤ 27.98	Pass
11ac-VHT40	MCS0	159	5795	-0.64	-1.07	-1.18	-0.85	96.12	6.99	12.25	≤ 27.98	Pass
11ac-VHT80	MCS0	155	5775	-4.65	-4.91	-5.20	-4.55	93.75	6.99	8.47	≤ 27.98	Pass
11ac-VHT80+80	MCS0	155	5775	-4.07	-4.82	--	--	93.75	6.99	5.85	≤ 30.00	Pass
11ac-VHT80+80	MCS0	155	5775	--	--	-3.93	-3.87	93.75	6.99	6.38	≤ 30.00	Pass

Note 1: When EUT duty cycle ≥ 98%, 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%, 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: For 802.11ac-VHT80+80:

Ant 0 & Ant 1: Total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/100kHz) + Constant Factor + $10 \cdot \log (1/\text{Duty Cycle})$.

Ant 2 & Ant 3: Total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/100kHz) + Constant Factor + $10 \cdot \log (1/\text{Duty Cycle})$.

Note 4: PSD Limit Calculation as below:

For 802.11ac-VHT20/ac-VHT40/ac-VHT80: Limit (dBm/500kHz) = 30dBm/500kHz - (8.02dBi - 6dBi) = 27.98dBm/500kHz.

For 802.11ac-VHT80+80: Limit (dBm/500kHz) = 30.00dBm/500kHz.

Product	ACCESS POINT	Temperature	24°C
Test Engineer	Kevin Ker	Relative Humidity	59%
Test Site	SR2	Test Date	2018/02/08
Test Item	Power Spectral Density (UNII-Band 1 & UNII-2A & UNII-2C)		
Antenna Type	Directional Antenna (ANT-4x4-5314)		

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
Ant 0 + 1 + 2 + 3 (CDD Mode)											
11a	6Mbps	36	5180	-0.45	-0.73	-0.66	-0.50	97.18	5.56	≤ 5.99	Pass
11a	6Mbps	44	5220	-0.25	-0.35	-0.26	-0.19	97.18	5.88	≤ 5.99	Pass
11a	6Mbps	48	5240	-0.37	-0.40	-0.68	-0.64	97.18	5.62	≤ 5.99	Pass
11a	6Mbps	52	5260	-6.21	-6.28	-6.76	-6.51	97.18	-0.29	≤ -0.01	Pass
11a	6Mbps	60	5300	-6.63	-6.36	-7.15	-6.51	97.18	-0.51	≤ -0.01	Pass
11a	6Mbps	64	5320	-6.44	-6.57	-6.44	-6.66	97.18	-0.38	≤ -0.01	Pass
11a	6Mbps	100	5500	-6.74	-6.61	-6.93	-6.47	97.18	-0.54	≤ -0.01	Pass
11a	6Mbps	120	5600	-6.60	-6.40	-6.96	-6.36	97.18	-0.43	≤ -0.01	Pass
11a	6Mbps	140	5700	-6.44	-6.53	-7.05	-6.77	97.18	-0.55	≤ -0.01	Pass
11a	6Mbps	144	5720	-6.20	-6.45	-6.52	-6.09	97.18	-0.17	≤ -0.01	Pass
11ac-VHT20	MCS0	36	5180	-0.08	-0.37	-0.16	-0.19	98.62	5.82	≤ 5.99	Pass
11ac-VHT20	MCS0	44	5220	-0.24	-0.42	-0.40	-0.33	98.62	5.67	≤ 5.99	Pass
11ac-VHT20	MCS0	48	5240	-0.17	-0.39	-0.55	-0.29	98.62	5.67	≤ 5.99	Pass
11ac-VHT20	MCS0	52	5260	-6.12	-6.23	-6.46	-6.33	98.62	-0.26	≤ -0.01	Pass
11ac-VHT20	MCS0	60	5300	-6.29	-6.62	-6.80	-6.69	98.62	-0.58	≤ -0.01	Pass
11ac-VHT20	MCS0	64	5320	-6.23	-6.18	-6.37	-6.38	98.62	-0.27	≤ -0.01	Pass
11ac-VHT20	MCS0	100	5500	-6.28	-6.23	-6.73	-6.16	98.62	-0.32	≤ -0.01	Pass
11ac-VHT20	MCS0	120	5600	-6.26	-6.07	-6.65	-6.21	98.62	-0.27	≤ -0.01	Pass
11ac-VHT20	MCS0	140	5700	-6.26	-6.24	-6.71	-6.30	98.62	-0.35	≤ -0.01	Pass
11ac-VHT20	MCS0	144	5720	-6.26	-6.58	-6.79	-6.32	98.62	-0.46	≤ -0.01	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
Ant 0 + 1 + 2 + 3 (CDD Mode)											
11ac-VHT40	MCS0	38	5190	-2.17	-2.48	-2.25	-2.83	96.12	3.77	≤ 5.99	Pass
11ac-VHT40	MCS0	46	5230	-0.15	-0.87	-0.44	-0.47	96.12	5.72	≤ 5.99	Pass
11ac-VHT40	MCS0	54	5270	-6.31	-6.54	-6.86	-6.75	96.12	-0.42	≤ -0.01	Pass
11ac-VHT40	MCS0	62	5310	-6.66	-6.55	-7.20	-6.74	96.12	-0.59	≤ -0.01	Pass
11ac-VHT40	MCS0	102	5510	-6.16	-6.31	-6.98	-6.32	96.12	-0.24	≤ -0.01	Pass
11ac-VHT40	MCS0	118	5590	-6.51	-6.14	-6.85	-6.59	96.12	-0.32	≤ -0.01	Pass
11ac-VHT40	MCS0	134	5670	-6.50	-6.27	-7.18	-6.79	96.12	-0.48	≤ -0.01	Pass
11ac-VHT40	MCS0	142	5710	-6.50	-6.83	-7.17	-6.49	96.12	-0.55	≤ -0.01	Pass
11ac-VHT80	MCS0	42	5210	-8.12	-8.35	-8.46	-8.77	93.75	-2.12	≤ 5.99	Pass
11ac-VHT80	MCS0	58	5290	-7.55	-7.48	-7.84	-7.56	93.75	-1.30	≤ -0.01	Pass
11ac-VHT80	MCS0	106	5530	-6.81	-6.93	-7.75	-6.76	93.75	-0.74	≤ -0.01	Pass
11ac-VHT80	MCS0	122	5610	-7.52	-7.41	-8.42	-7.41	93.75	-1.37	≤ -0.01	Pass
11ac-VHT80	MCS0	138	5690	-7.35	-7.72	-7.96	-7.85	93.75	-1.41	≤ -0.01	Pass
Non-contiguous 80+80 MHz mode fall within different UNII band											
11ac-VHT80+80	MCS0	42	5210	-4.73	-4.93	--	--	93.75	-1.54	≤ 9.00	Pass
11ac-VHT80+80	MCS0	42	5210	--	--	-4.06	-4.88	93.75	-1.16	≤ 9.00	Pass
11ac-VHT80+80	MCS0	58	5290	-4.28	-4.46	--	--	93.75	-1.08	≤ 3.00	Pass
11ac-VHT80+80	MCS0	58	5290	--	--	-4.96	-4.39	93.75	-1.38	≤ 3.00	Pass
11ac-VHT80+80	MCS0	106	5530	-3.88	-3.88	--	--	93.75	-0.59	≤ 3.00	Pass
11ac-VHT80+80	MCS0	106	5530	--	--	-4.75	-3.62	93.75	-0.86	≤ 3.00	Pass
11ac-VHT80+80	MCS0	122	5610	-4.78	-4.84	--	--	93.75	-1.52	≤ 3.00	Pass
11ac-VHT80+80	MCS0	122	5610	--	--	-4.86	-4.00	93.75	-1.12	≤ 3.00	Pass
11ac-VHT80+80	MCS0	138	5690	-4.66	-4.72	--	--	93.75	-1.40	≤ 3.00	Pass
11ac-VHT80+80	MCS0	138	5690	--	--	-4.97	-4.39	93.75	-1.38	≤ 3.00	Pass
Non-contiguous 80+80 MHz mode fall within same UNII band											
11ac-VHT80+80	MCS0	106	5530	-7.05	-6.83	--	--	93.75	-1.23	≤ 3.00	Pass
11ac-VHT80+80	MCS0	138	5690	--	--	-8.48	-7.97				
11ac-VHT80+80	MCS0	106	5530	--	--	-7.69	-7.07	93.75	-1.26	≤ 3.00	Pass
11ac-VHT80+80	MCS0	138	5690	-7.54	-7.99	--	--				

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
11ac-VHT80+80 (Contiguous 80+80 MHz mode)											
11ac-VHT80+80	MCS0	42	5210	-6.79	-6.50	--	--	96.71	-3.49	≤ 9.00	Pass
	MCS0	58	5290	--	--	-7.23	-7.22	96.71	-4.07	≤ 3.00	Pass
11ac-VHT80+80	MCS0	106	5530	-7.11	-6.61	--	--	96.71	-1.17	≤ 3.00	Pass
	MCS0	122	5610	--	--	-8.43	-7.40				

Note 1: When EUT duty cycle ≥ 98%, 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%, 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 Non-contiguous 80+80 MHz mode fall within different UNII band:

Ant 0 & Ant 1: Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

Ant 2 & Ant 3: Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

For Non-contiguous 80+80 MHz mode fall within same UNII band:

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 4: For 802.11ac-VHT80+80 Contiguous Mode:

5210MHz Fall within UNII-1:

Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ + $10 \cdot \log (1/\text{Duty Cycle})$.

5290MHz Fall within UNII-2A:

Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ + $10 \cdot \log (1/\text{Duty Cycle})$.

5530MHz & 5610MHz Fall within UNII-2C:

Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ + $10 \cdot \log (1/\text{Duty Cycle})$.

Note 5: PSD Limit Calculation as below:

For 5150-5250MHz:

802.11a/ac-VHT20/ac-VHT40/ac-VHT80: Limit (dBm/MHz) = 17dBm/MHz - (17.01dBi - 6dBi) = 5.99 dBm/MHz.

802.11ac-VHT80+80: Limit (dBm/MHz) = 17dBm/MHz - (14dBi - 6dBi) = 9.00 dBm/MHz.

For 5250-5350MHz & 5470-5725MHz:

802.11a/ac-VHT20/ac-VHT40/ac-VHT80: Limit (dBm/MHz) = 11dBm/MHz - (17.01dBi - 6dBi) = -0.01 dBm/MHz.

802.11ac-VHT80+80: Limit (dBm/MHz) = 11dBm/MHz - (14dBi - 6dBi) = 3.00 dBm/MHz.

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
Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)											
11ac-VHT20	MCS0	36	5180	-0.08	-0.37	-0.16	-0.19	98.23	5.82	≤ 5.99	Pass
11ac-VHT20	MCS0	44	5220	-0.24	-0.42	-0.40	-0.33	98.23	5.67	≤ 5.99	Pass
11ac-VHT20	MCS0	48	5240	-0.17	-0.39	-0.55	-0.29	98.23	5.67	≤ 5.99	Pass
11ac-VHT20	MCS0	52	5260	-6.12	-6.23	-6.46	-6.33	98.23	-0.26	≤ -0.01	Pass
11ac-VHT20	MCS0	60	5300	-6.29	-6.62	-6.80	-6.69	98.23	-0.58	≤ -0.01	Pass
11ac-VHT20	MCS0	64	5320	-6.23	-6.18	-6.37	-6.38	98.23	-0.27	≤ -0.01	Pass
11ac-VHT20	MCS0	100	5500	-6.28	-6.23	-6.73	-6.16	98.23	-0.32	≤ -0.01	Pass
11ac-VHT20	MCS0	120	5600	-6.26	-6.07	-6.65	-6.21	98.23	-0.27	≤ -0.01	Pass
11ac-VHT20	MCS0	140	5700	-6.26	-6.24	-6.71	-6.30	98.23	-0.35	≤ -0.01	Pass
11ac-VHT20	MCS0	144	5720	-6.26	-6.58	-6.79	-6.32	98.23	-0.46	≤ -0.01	Pass
11ac-VHT40	MCS0	38	5190	-2.17	-2.48	-2.25	-2.83	96.12	3.77	≤ 5.99	Pass
11ac-VHT40	MCS0	46	5230	-0.15	-0.87	-0.44	-0.47	96.12	5.72	≤ 5.99	Pass
11ac-VHT40	MCS0	54	5270	-6.31	-6.54	-6.86	-6.75	96.12	-0.42	≤ -0.01	Pass
11ac-VHT40	MCS0	62	5310	-6.66	-6.55	-7.20	-6.74	96.12	-0.59	≤ -0.01	Pass
11ac-VHT40	MCS0	102	5510	-6.16	-6.31	-6.98	-6.32	96.12	-0.24	≤ -0.01	Pass
11ac-VHT40	MCS0	118	5590	-6.51	-6.14	-6.85	-6.59	96.12	-0.32	≤ -0.01	Pass
11ac-VHT40	MCS0	134	5670	-6.50	-6.27	-7.18	-6.79	96.12	-0.48	≤ -0.01	Pass
11ac-VHT40	MCS0	142	5710	-6.50	-6.83	-7.17	-6.49	96.12	-0.55	≤ -0.01	Pass
11ac-VHT80	MCS0	42	5210	-4.34	-4.94	-5.03	-4.85	93.75	1.52	≤ 5.99	Pass
11ac-VHT80	MCS0	58	5290	-10.87	-10.94	-11.51	-11.38	93.75	-4.87	≤ -0.01	Pass
11ac-VHT80	MCS0	106	5530	-10.07	-10.08	-11.07	-10.11	93.75	-4.01	≤ -0.01	Pass
11ac-VHT80	MCS0	122	5610	-10.72	-10.74	-11.42	-10.55	93.75	-4.54	≤ -0.01	Pass
11ac-VHT80	MCS0	138	5690	-10.86	-11.16	-11.44	-10.86	93.75	-4.77	≤ -0.01	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
Non-contiguous 80+80 MHz mode fall within different UNII band											
11ac-VHT80+80	MCS0	42	5210	-4.73	-4.93	--	--	93.75	-1.54	≤ 9.00	Pass
11ac-VHT80+80	MCS0	42	5210	--	--	-4.06	-4.88	93.75	-1.16	≤ 9.00	Pass
11ac-VHT80+80	MCS0	58	5290	-4.28	-4.46	--	--	93.75	-1.08	≤ 3.00	Pass
11ac-VHT80+80	MCS0	58	5290	--	--	-4.96	-4.39	93.75	-1.38	≤ 3.00	Pass
11ac-VHT80+80	MCS0	106	5530	-3.88	-3.88	--	--	93.75	-0.59	≤ 3.00	Pass
11ac-VHT80+80	MCS0	106	5530	--	--	-4.75	-3.62	93.75	-0.86	≤ 3.00	Pass
11ac-VHT80+80	MCS0	122	5610	-4.78	-4.84	--	--	93.75	-1.52	≤ 3.00	Pass
11ac-VHT80+80	MCS0	122	5610	--	--	-4.86	-4.00	93.75	-1.12	≤ 3.00	Pass
11ac-VHT80+80	MCS0	138	5690	-4.66	-4.72	--	--	93.75	-1.40	≤ 3.00	Pass
11ac-VHT80+80	MCS0	138	5690	--	--	-4.97	-4.39	93.75	-1.38	≤ 3.00	Pass
Non-contiguous 80+80 MHz mode fall within same UNII band											
11ac-VHT80+80	MCS0	106	5530	-7.05	-6.83	--	--	93.75	-1.23	≤ 3.00	Pass
11ac-VHT80+80	MCS0	138	5690	--	--	-8.48	-7.97				
11ac-VHT80+80	MCS0	106	5530	--	--	-7.69	-7.07	93.75	-1.26	≤ 3.00	Pass
11ac-VHT80+80	MCS0	138	5690	-7.54	-7.99	--	--				

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

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

Note 3: For Non-contiguous 80+80 MHz mode fall within different UNII band:

Ant 0 & Ant 1: Total PSD (dBm/MHz) = $10^{\log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}}$ (dBm/MHz) + $10^{\log (1/\text{Duty Cycle})}$.

Ant 2 & Ant 3: Total PSD (dBm/MHz) = $10^{\log \{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}}$ (dBm/MHz) + $10^{\log (1/\text{Duty Cycle})}$.

For Non-contiguous 80+80 MHz mode fall within same UNII band:

Total PSD (dBm/MHz) = $10^{\log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}}$ (dBm/MHz) + $10^{\log (1/\text{Duty Cycle})}$.

Note 4: PSD Limit Calculation as below:

For 5150-5250MHz:

802.11a/ac-VHT20/ac-VHT40/ac-VHT80: Limit (dBm/MHz) = 17dBm/MHz - (17.01dBi - 6dBi) = 5.99dBm/MHz.

802.11ac-VHT80+80: Limit (dBm/MHz) = 17dBm/MHz - (14dBi - 6dBi) = 9.00dBm/MHz.

For 5250-5350MHz & 5470-5725MHz:

802.11a/ac-VHT20/ac-VHT40/ac-VHT80: Limit (dBm/MHz) = 11dBm/MHz - (17.01dBi - 6dBi) = -0.01dBm/MHz.

802.11ac-VHT80+80: Limit (dBm/MHz) = 11dBm/MHz - (14dBi - 6dBi) = 3.00dBm/MHz.

Product	ACCESS POINT	Temperature	22°C
Test Engineer	Kevin Ker	Relative Humidity	54%
Test Site	SR2	Test Date	2018/02/08
Test Item	Power Spectral Density (UNII-Band 3)		
Antenna Type	Directional Antenna (ANT-4x4-5314)		

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
Ant 0 + 1 + 2 + 3 (CDD Mode)												
11a	6Mbps	149	5745	-4.27	-4.42	-4.42	-4.40	97.18	6.99	8.76	≤ 18.99	Pass
11a	6Mbps	157	5785	-4.14	-4.45	-4.48	-4.28	97.18	6.99	8.80	≤ 18.99	Pass
11a	6Mbps	165	5825	-5.32	-5.36	-5.42	-5.19	97.18	6.99	7.81	≤ 18.99	Pass
11ac-VHT20	MCS0	149	5745	-3.94	-4.37	-4.70	-4.45	98.23	6.99	8.65	≤ 18.99	Pass
11ac-VHT20	MCS0	157	5785	-4.42	-4.39	-4.19	-4.28	98.23	6.99	8.69	≤ 18.99	Pass
11ac-VHT20	MCS0	165	5825	-5.53	-5.60	-5.61	-5.49	98.23	6.99	7.45	≤ 18.99	Pass
11ac-VHT40	MCS0	151	5755	-7.18	-7.12	-7.37	-6.97	96.12	6.99	6.02	≤ 18.99	Pass
11ac-VHT40	MCS0	159	5795	-7.00	-7.07	-7.25	-6.64	96.12	6.99	6.20	≤ 18.99	Pass
11ac-VHT80	MCS0	155	5775	-11.44	-11.44	-11.76	-11.40	93.75	6.99	1.78	≤ 18.99	Pass
11ac-VHT80+80	MCS0	155	5775	-9.10	-9.61	--	--	93.75	6.99	0.93	≤ 22.00	Pass
11ac-VHT80+80	MCS0	155	5775	--	--	-7.72	-7.12	93.75	6.99	2.87	≤ 22.00	Pass

Note 1: When EUT duty cycle ≥ 98%, 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%, 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: For 802.11ac-VHT80+80:

Ant 0 & Ant 1: Total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/100kHz) + Constant Factor + $10 \cdot \log (1/\text{Duty Cycle})$.

Ant 2 & Ant 3: Total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/100kHz) + Constant Factor + $10 \cdot \log (1/\text{Duty Cycle})$.

Note 4: PSD Limit Calculation as below:

For 802.11a/ac-VHT20/ac-VHT40/ac-VHT80: Limit (dBm/500kHz) = 30dBm/500kHz - (17.01dBi - 6dBi) = 18.99 dBm/500kHz.

For 802.11ac-VHT80+80: Limit (dBm/500kHz) = 30dBm/500kHz - (14dBi - 6dBi) = 22.00 dBm/500kHz.

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
Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)												
11ac-VHT20	MCS0	149	5745	-7.90	-8.03	-8.07	-7.67	98.23	6.99	5.10	≤ 18.99	Pass
11ac-VHT20	MCS0	157	5785	-7.63	-7.87	-7.74	-7.78	98.23	6.99	5.26	≤ 18.99	Pass
11ac-VHT20	MCS0	165	5825	-7.61	-7.90	-7.49	-7.28	98.23	6.99	5.45	≤ 18.99	Pass
11ac-VHT40	MCS0	151	5755	-10.27	-10.02	-10.50	-9.81	96.12	6.99	3.04	≤ 18.99	Pass
11ac-VHT40	MCS0	159	5795	-10.60	-10.44	-10.75	-10.43	96.12	6.99	2.63	≤ 18.99	Pass
11ac-VHT80	MCS0	155	5775	-13.84	-14.12	-14.49	-13.58	93.75	6.99	-0.70	≤ 18.99	Pass
11ac-VHT80+80	MCS0	155	5775	-9.10	-9.61	--	--	93.75	6.99	0.93	≤ 22.00	Pass
11ac-VHT80+80	MCS0	155	5775	--	--	-7.72	-7.12	93.75	6.99	2.87	≤ 22.00	Pass

Note 1: When EUT duty cycle ≥ 98%, 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%, 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: For 802.11ac-VHT80+80:

Ant 0 & Ant 1: Total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/100kHz) + Constant Factor + $10 \cdot \log (1/\text{Duty Cycle})$.

Ant 2 & Ant 3: Total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/100kHz) + Constant Factor + $10 \cdot \log (1/\text{Duty Cycle})$.

Note 4: PSD Limit Calculation as below:

For 802.11a/ac-VHT20/ac-VHT40/ac-VHT80: Limit (dBm/500kHz) = 30dBm/500kHz - (17.01dBi - 6dBi) = 18.99dBm/500kHz.

For 802.11ac-VHT80+80: Limit (dBm/500kHz) = 30dBm/500kHz - (14dBi - 6dBi) = 22.00dBm/500kHz.

Product	ACCESS POINT	Temperature	24°C
Test Engineer	Kevin Ker	Relative Humidity	59%
Test Site	SR2	Test Date	2017/08/27
Test Item	Power Spectral Density (UNII-Band 1)		
Antenna Type	Omni Antenna (AP-ANT-19)		

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
Ant 0 + 1 + 2 + 3 (CDD Mode)											
11a	6Mbps	36	5180	4.59	4.81	3.83	4.27	97.18	10.54	≤ 10.98	Pass
11a	6Mbps	44	5220	5.08	4.61	4.18	4.06	97.18	10.65	≤ 10.98	Pass
11a	6Mbps	48	5240	4.85	4.63	3.54	4.13	97.18	10.46	≤ 10.98	Pass
11n-HT20	MCS0	36	5180	5.02	4.87	3.92	4.22	98.62	10.55	≤ 10.98	Pass
11n-HT20	MCS0	44	5220	4.80	4.74	4.08	4.09	98.62	10.46	≤ 10.98	Pass
11n-HT20	MCS0	48	5240	5.44	4.96	3.82	3.94	98.62	10.61	≤ 10.98	Pass
11n-HT40	MCS0	38	5190	2.36	2.41	2.08	1.75	96.02	8.35	≤ 10.98	Pass
11n-HT40	MCS0	46	5230	4.84	4.66	3.89	3.96	96.02	10.55	≤ 10.98	Pass
11ac-VHT20	MCS0	36	5180	4.85	4.59	4.11	4.19	98.23	10.47	≤ 10.98	Pass
11ac-VHT20	MCS0	44	5220	5.25	5.16	4.08	4.43	98.23	10.78	≤ 10.98	Pass
11ac-VHT20	MCS0	48	5240	5.26	5.12	3.54	4.16	98.23	10.60	≤ 10.98	Pass
11ac-VHT40	MCS0	38	5190	2.10	2.17	1.56	1.66	96.12	8.07	≤ 10.98	Pass
11ac-VHT40	MCS0	46	5230	4.74	4.75	3.60	4.19	96.12	10.54	≤ 10.98	Pass
11ac-VHT80	MCS0	42	5210	-2.55	-2.35	-3.25	-3.12	93.75	3.50	≤ 10.98	Pass
11ac-VHT80+80	MCS0	42	5210	-2.46	-2.38	--	--	93.75	0.87	≤ 13.99	Pass
11ac-VHT80+80	MCS0	42	5210	--	--	-2.69	-2.48	93.75	0.71	≤ 13.99	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 802.11ac-VHT80+80:

Ant 0 & Ant 1: the total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log(1/\text{Duty Cycle})$.

Ant 2 & Ant 3: the total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log(1/\text{Duty Cycle})$.

Note 4: PSD Limit (dBm/MHz) = 17dBm/MHz - (6.00dBi + 6.02dBi - 6.00dBi) = 10.98dBm/MHz.

For 802.11ac-VHT80+80: PSD Limit (dBm/MHz) = $17\text{dBm/MHz} - (6.00\text{dBi} + 3.01\text{dBi} - 6.00\text{dBi}) =$
13.99dBm/MHz.

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
Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)											
11n-HT20	MCS0	36	5180	5.02	4.87	3.92	4.22	98.62	10.55	≤ 10.98	Pass
11n-HT20	MCS0	44	5220	4.80	4.74	4.08	4.09	98.62	10.46	≤ 10.98	Pass
11n-HT20	MCS0	48	5240	5.44	4.96	3.82	3.94	98.62	10.61	≤ 10.98	Pass
11n-HT40	MCS0	38	5190	3.94	3.68	3.44	3.32	96.02	9.80	≤ 10.98	Pass
11n-HT40	MCS0	46	5230	3.63	3.72	2.71	2.53	96.02	9.38	≤ 10.98	Pass
11ac-VHT20	MCS0	36	5180	4.85	4.59	4.11	4.19	98.23	10.47	≤ 10.98	Pass
11ac-VHT20	MCS0	44	5220	5.25	5.16	4.08	4.43	98.23	10.78	≤ 10.98	Pass
11ac-VHT20	MCS0	48	5240	5.26	5.12	3.54	4.16	98.23	10.60	≤ 10.98	Pass
11ac-VHT40	MCS0	38	5190	3.72	3.83	3.01	3.20	96.12	9.65	≤ 10.98	Pass
11ac-VHT40	MCS0	46	5230	4.29	3.91	3.35	3.15	96.12	9.89	≤ 10.98	Pass
11ac-VHT80	MCS0	42	5210	0.62	0.29	-0.23	-0.20	93.75	6.44	≤ 10.98	Pass
11ac-VHT80+80	MCS0	42	5210	-1.36	-0.97	--	--	93.75	2.13	≤ 13.99	Pass
11ac-VHT80+80	MCS0	42	5210	--	--	-0.82	-0.69	93.75	2.54	≤ 13.99	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 802.11ac-VHT80+80:

Ant 0 & Ant 1: the total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log(1/\text{Duty Cycle})$.

Ant 2 & Ant 3: the total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log(1/\text{Duty Cycle})$.

Note 4: PSD Limit (dBm/MHz) = 17dBm/MHz - (12.02dBi- 6.00dBi) = 10.98dBm/MHz.

For 802.11ac-VHT80+80: PSD Limit (dBm/MHz) = 17dBm/MHz - (6.00dBi + 3.01dBi - 6.00dBi) = 13.99dBm/MHz.

Product	ACCESS POINT	Temperature	22°C
Test Engineer	Kevin Ker	Relative Humidity	54%
Test Site	SR2	Test Date	2017/08/27
Test Item	Power Spectral Density (UNII-Band 3)		
Antenna Type	Omni Antenna (AP-ANT-19)		

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
Ant 0 + 1 + 2 + 3 (CDD Mode)												
11a	6Mbps	149	5745	2.11	2.39	1.28	1.99	97.18	6.99	15.10	≤ 23.98	Pass
11a	6Mbps	157	5785	3.99	3.38	3.07	2.81	97.18	6.99	16.47	≤ 23.98	Pass
11a	6Mbps	165	5825	2.29	1.96	1.63	2.70	97.18	6.99	15.30	≤ 23.98	Pass
11n-HT20	MCS0	149	5745	2.69	2.20	1.58	1.36	98.62	6.99	15.00	≤ 23.98	Pass
11n-HT20	MCS0	157	5785	2.93	2.84	1.58	2.53	98.62	6.99	15.51	≤ 23.98	Pass
11n-HT20	MCS0	165	5825	1.69	1.43	1.32	1.80	98.62	6.99	14.57	≤ 23.98	Pass
11n-HT40	MCS0	151	5755	-0.98	-0.71	-2.52	-1.40	96.02	6.99	11.84	≤ 23.98	Pass
11n-HT40	MCS0	159	5795	-0.82	-1.10	-1.90	-0.46	96.02	6.99	12.15	≤ 23.98	Pass
11ac-VHT20	MCS0	149	5745	2.05	2.40	0.84	1.18	98.23	6.99	14.67	≤ 23.98	Pass
11ac-VHT20	MCS0	157	5785	3.34	2.93	2.14	2.48	98.23	6.99	15.76	≤ 23.98	Pass
11ac-VHT20	MCS0	165	5825	1.58	1.32	0.88	1.76	98.23	6.99	14.41	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	-1.12	-1.17	-2.56	-1.48	96.12	6.99	11.64	≤ 23.98	Pass
11ac-VHT40	MCS0	159	5795	-1.01	-1.20	-1.71	-0.92	96.12	6.99	11.98	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	-6.21	-6.60	-7.69	-6.76	93.75	6.99	6.51	≤ 23.98	Pass
11ac-VHT80+80	MCS0	155	5775	-5.66	-5.56	--	--	93.75	6.99	4.67	≤ 26.99	Pass
11ac-VHT80+80	MCS0	155	5775	--	--	-4.82	-5.90	93.75	6.99	4.95	≤ 26.99	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: For 802.11ac-VHT80+80:

Ant 0 & Ant 1: the total PSD (dBm/500KHz) = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/100KHz) + Constant Factor + $10 \cdot \log(1/\text{Duty Cycle})$.

Ant 2 & Ant 3: the total PSD (dBm/500KHz) = $10 \cdot \log\{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/100KHz) + Constant Factor + $10 \cdot \log(1/\text{Duty Cycle})$.

Note 4: PSD Limit (dBm/500kHz) = 30dBm/500kHz - (6.00dBi + 6.02dBi - 6dBi) = 23.98dBm/500kHz.

For 802.11ac-VHT80+80: PSD Limit (dBm/500kHz) = 30dBm/500kHz - (6.00dBi + 3.01dBi - 6dBi) = 26.99dBm/500kHz.

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
Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)												
11n-HT20	MCS0	149	5745	-1.27	-1.39	-2.86	-2.46	98.62	6.99	11.07	≤ 23.98	Pass
11n-HT20	MCS0	157	5785	-1.59	-1.92	-2.90	-2.05	98.62	6.99	10.92	≤ 23.98	Pass
11n-HT20	MCS0	165	5825	-2.15	-2.05	-2.88	-2.41	98.62	6.99	10.65	≤ 23.98	Pass
11n-HT40	MCS0	151	5755	-4.10	-4.74	-6.43	-5.36	96.02	6.99	8.11	≤ 23.98	Pass
11n-HT40	MCS0	159	5795	-4.83	-5.37	-6.13	-5.08	96.02	6.99	7.86	≤ 23.98	Pass
11ac-VHT20	MCS0	149	5745	-1.81	-2.03	-3.77	-3.25	98.23	6.99	10.37	≤ 23.98	Pass
11ac-VHT20	MCS0	157	5785	-2.09	-2.53	-3.03	-2.89	98.23	6.99	10.39	≤ 23.98	Pass
11ac-VHT20	MCS0	165	5825	-2.29	-2.47	-2.84	-2.22	98.23	6.99	10.56	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	-4.57	-4.99	-6.25	-5.33	96.12	6.99	7.94	≤ 23.98	Pass
11ac-VHT40	MCS0	159	5795	-5.45	-5.47	-6.26	-5.55	96.12	6.99	7.51	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	-8.39	-8.94	-9.52	-9.25	93.75	6.99	4.29	≤ 26.99	Pass
11ac-VHT80+80	MCS0	155	5775	-5.60	-6.13	--	--	93.75	6.99	4.42	≤ 26.99	Pass
11ac-VHT80+80	MCS0	155	5775	--	--	-5.61	-5.97	93.75	6.99	4.49	≤ 26.99	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: For 802.11ac-VHT80+80:

Ant 0 & Ant 1: the total PSD (dBm/500KHz) = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/100KHz) + Constant Factor + $10 \cdot \log(1/\text{Duty Cycle})$.

Ant 2 & Ant 3: the total PSD (dBm/500KHz) = $10 \cdot \log\{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/100KHz) + Constant Factor + $10 \cdot \log(1/\text{Duty Cycle})$.

Note 4: PSD Limit (dBm/500kHz) = 30dBm/500kHz - (6.00dBi + 6.02dBi - 6dBi) = 23.98dBm/500kHz.

For 802.11ac-VHT80+80: PSD Limit (dBm/500kHz) = 30dBm/500kHz - (6.00dBi + 3.01dBi - 6dBi) = 26.99dBm/500kHz.