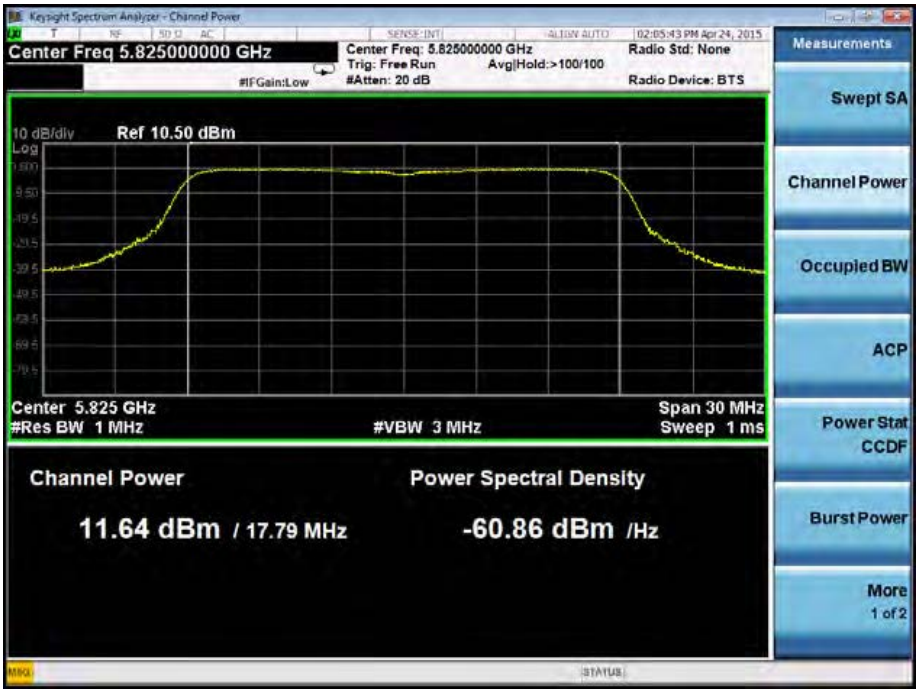
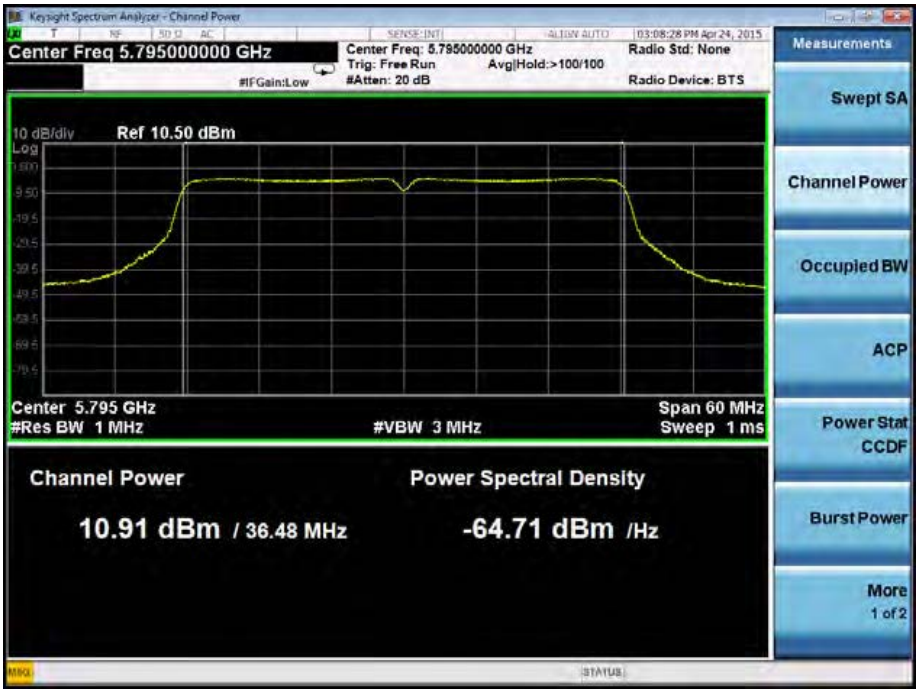
802.11n(HT20) band IV Middle channel

802.11n(HT20) band IV High channel



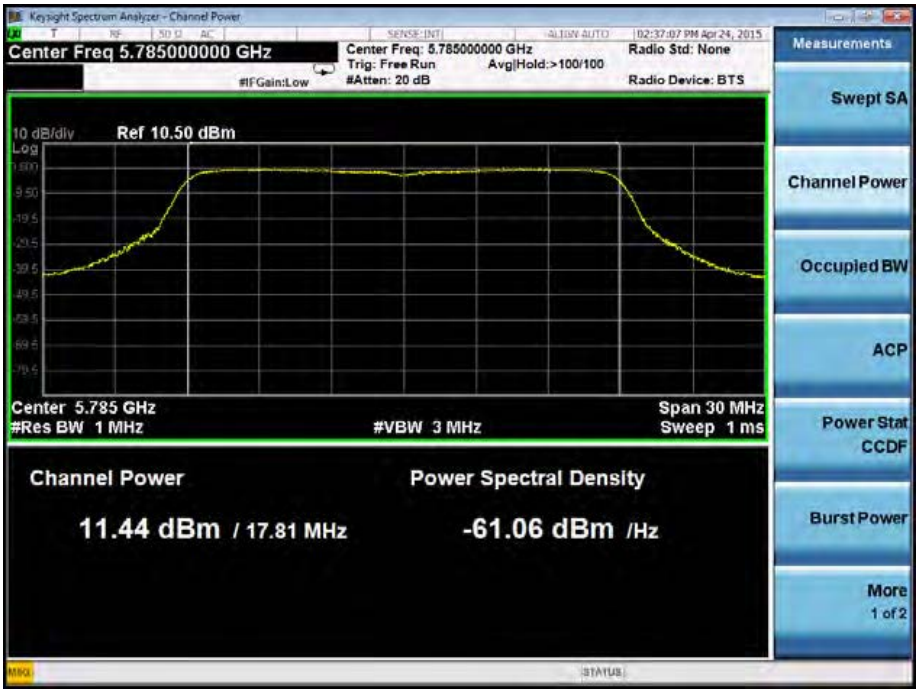
802.11n(HT40) band IV Low channel

802.11n(HT40) band IV High channel



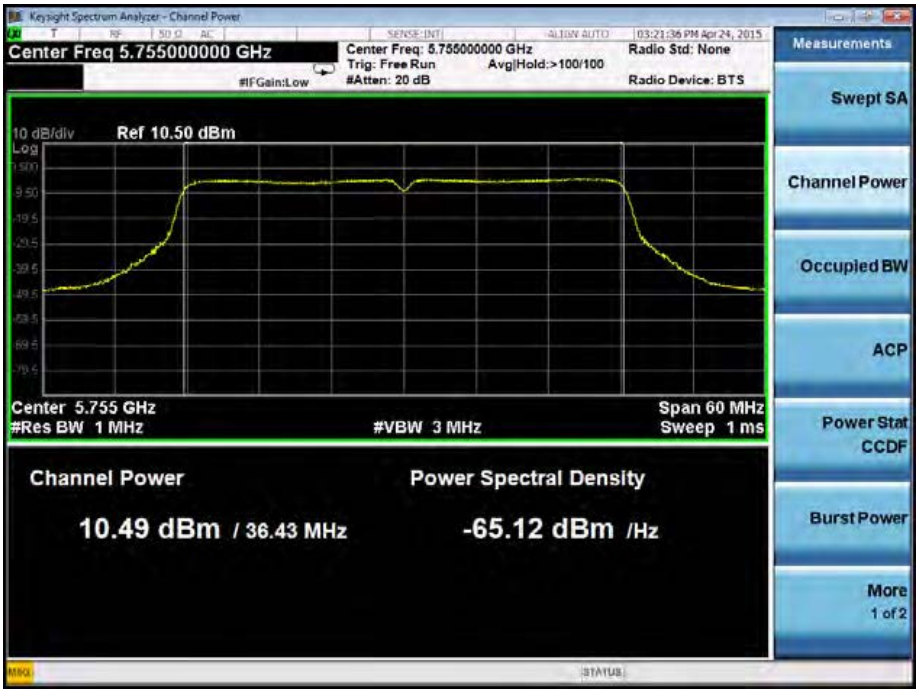
802.11ac(HT20) band IV Low channel

802.11ac(HT20) band IV Middle channel

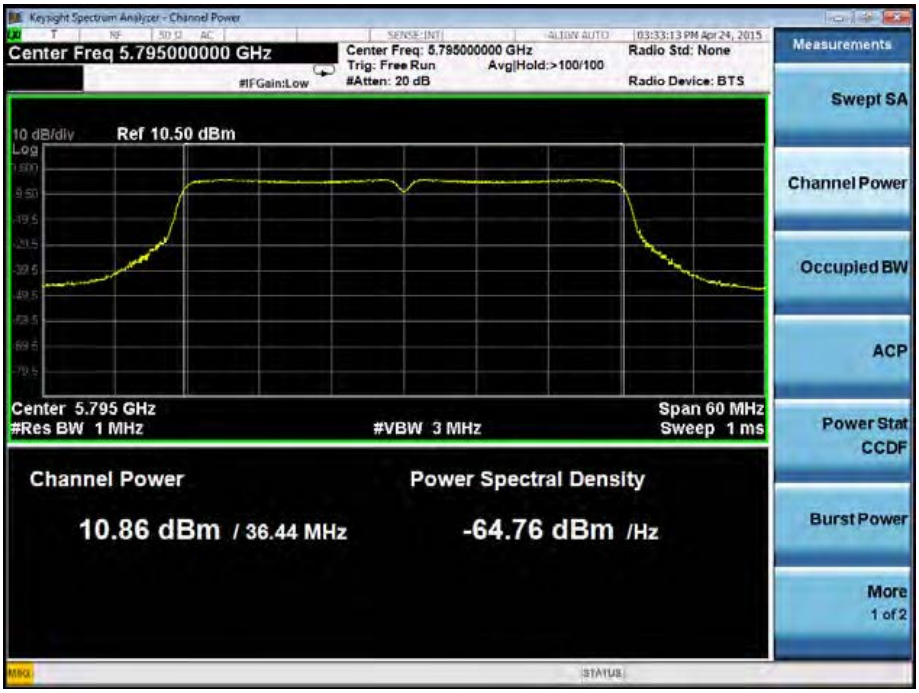


802.11ac(HT20) band IV High channel

802.11ac(HT40) band IV Low channel



802.11n(HT40) band IV High channel



11. Power Spectral density

Test Requirement:	FCC CFR47 Part 15 Section 15.407(a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v01, Section F
Test Limit:	≤17.00dBm/MHz for Operation in the band I(5150MHz-5250MHz)of device ≤30.00dBm/500KHz for Operation in the band IV(5725MHz-5850MHz)of device
Test Result:	PASS

11.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 510kHz/1MHz. VBW ⩾3 RBW Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

11.2 Test Result

Band	Operation mode	Power Spectral Density (dBm/MHz)		
		Low	Middle	High
Band I	802.11a	7.99	7.65	7.76
	802.11n(HT20)	7.84	7.41	7.74
	802.11n(HT40)	4.53	/	4.63
	802.11ac(HT20)	7.88	7.95	7.68
	802.11ac(HT40)	4.70	/	4.68
	Limit	≤17.00dBm/MHz		
Band	**Operation mode**	**Power Spectral Density (dBm/500kHz)**		
		Low	Middle	High
Band IV	802.11a	4.51	4.50	4.53
	802.11n(HT20)	4.98	4.98	4.67
	802.11n(HT40)	0.90	/	0.93
	802.11ac(HT20)	4.39	4.50	4.83
	802.11ac(HT40)	0.76	/	0.93
	Limit	≤30.00dBm/500KHz		

Test result plots shown as follows:

802.11a band I Low channel

802.11a band I Middle channel

802.11a band I High channel

802.11n(HT20) band I Low channel

802.11n(HT20) band I Middle channel

802.11n(HT20) band I High channel

802.11n(HT40) band I Low channel

802.11n(HT40) band I High channel

802.11ac(HT20) band I Low channel

802.11ac(HT20) band I Middle channel

802.11ac(HT20) band I High channel

802.11ac(HT40) band I Low channel

802.11n(HT40) band I High channel

802.11a band IV Low channel

802.11a band IV Middle channel

802.11a band IV High channel

802.11n(HT20) band IV Low channel

802.11n(HT20) band IV Middle channel

802.11n(HT20) band IV High channel

802.11n(HT40) band IV Low channel

802.11n(HT40) band IV High channel

802.11ac(HT20) band IV Low channel

802.11ac(HT20) band IV Middle channel

802.11ac(HT20) band IV High channel

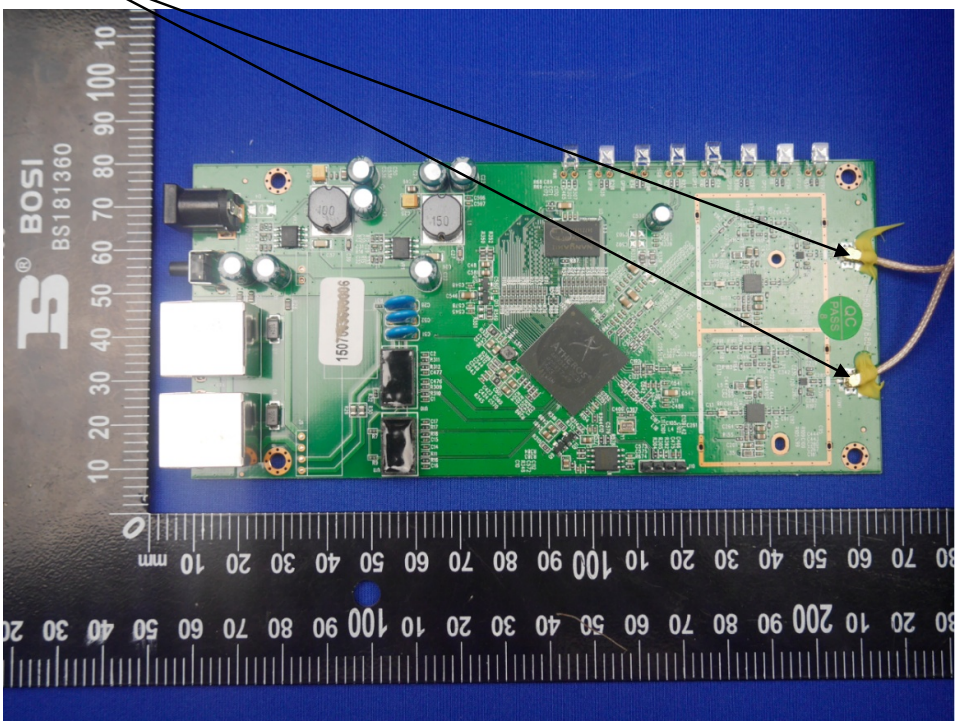
802.11ac(HT40) band IV Low channel

802.11n(HT40) band IV High channel

12. Antenna Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. Antenna is fixed by enclosure, cannot be changed except take apart the product.

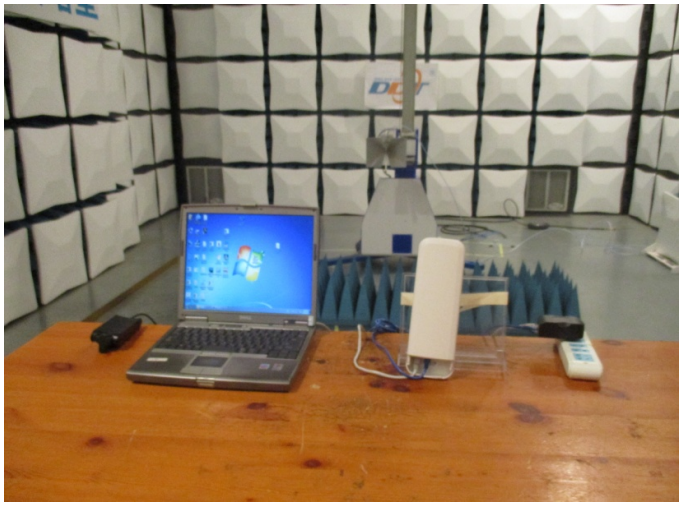
Antenna



Note: The antennas to transmitter at the same time.

13. Photographs of Test

Radiated Emission



AC Power Line Conducted Emission

======End of Report======