10 6 dB Bandwidth

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v01 Section C
Test Limit:	≥ 500 kHz
Test Result:	PASS

10.1 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 = 100kHz, VBW = 300kHz

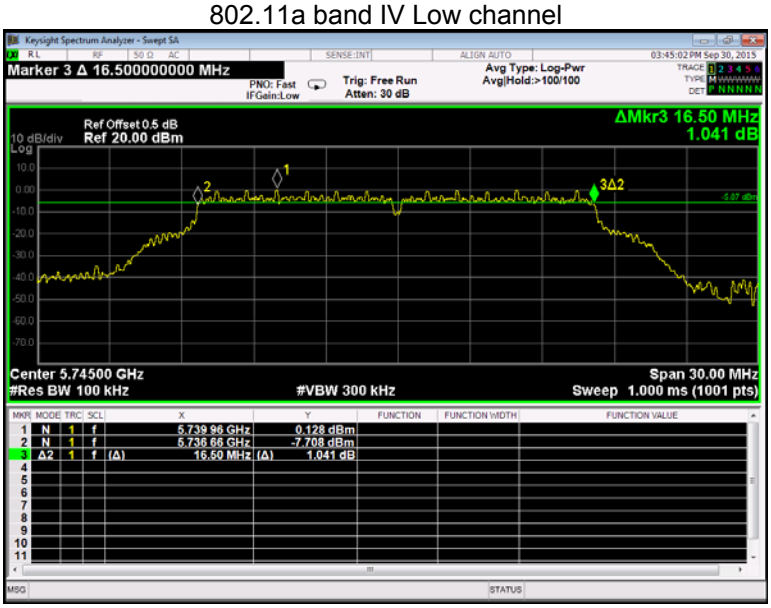
10.2 Test Result:

Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
ANT0 Band IV	802.11a	16.50	16.38	16.41
	802.11n(HT20)	17.67	17.67	17.64
	802.11n(HT40)	36.42	/	36.44
	802.11ac(HT20)	17.67	17.67	17.64
	802.11ac(HT40)	36.42	/	36.44
	802.11ac(HT80)	76.32	/	/
ANT1 Band IV	802.11a	16.38	16.41	16.44
	802.11n(HT20)	17.58	17.04	17.31
	802.11n(HT40)	35.94	/	36.18
	802.11ac(HT20)	17.22	17.25	17.34
	802.11ac(HT40)	36.48	/	36.42
	802.11ac(HT80)	76.08	/	/

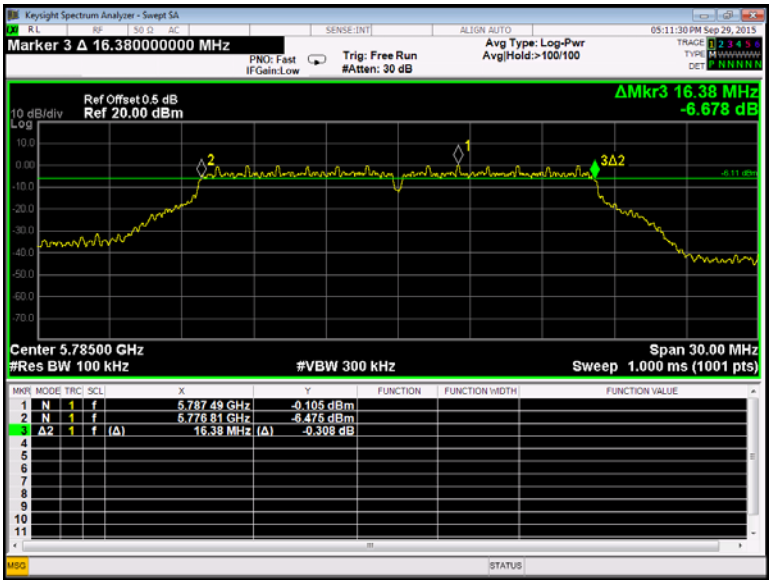
Test result plots shown as follows:

ANT0

802.11a band IV Low channel

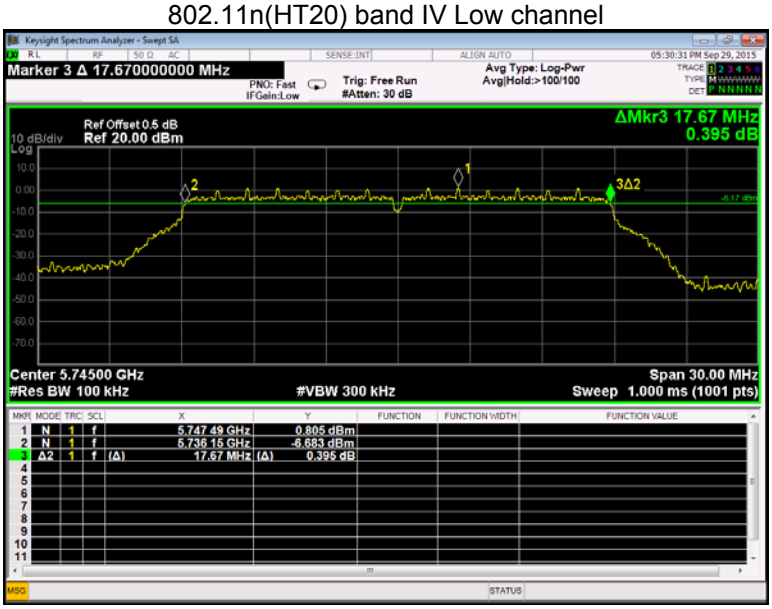


802.11a band IV Middle channel



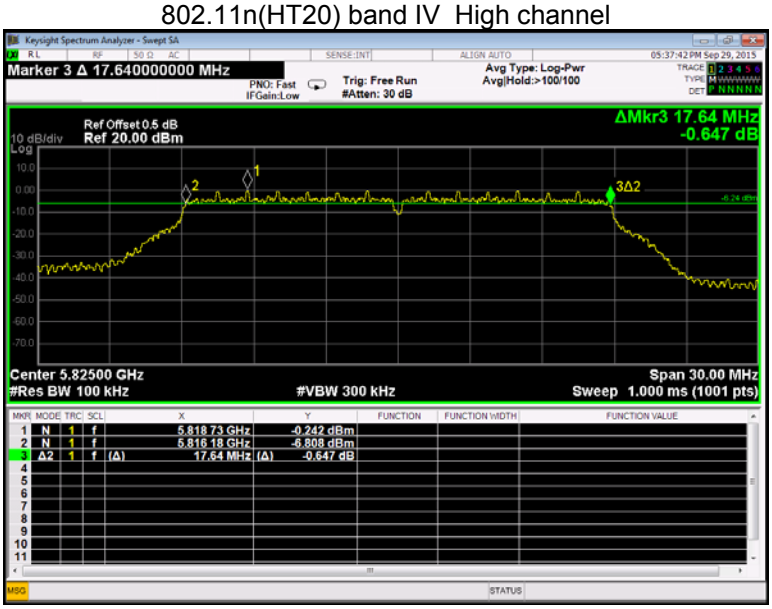
802.11a band IV High channel

802.11n(HT20) band IV Low channel

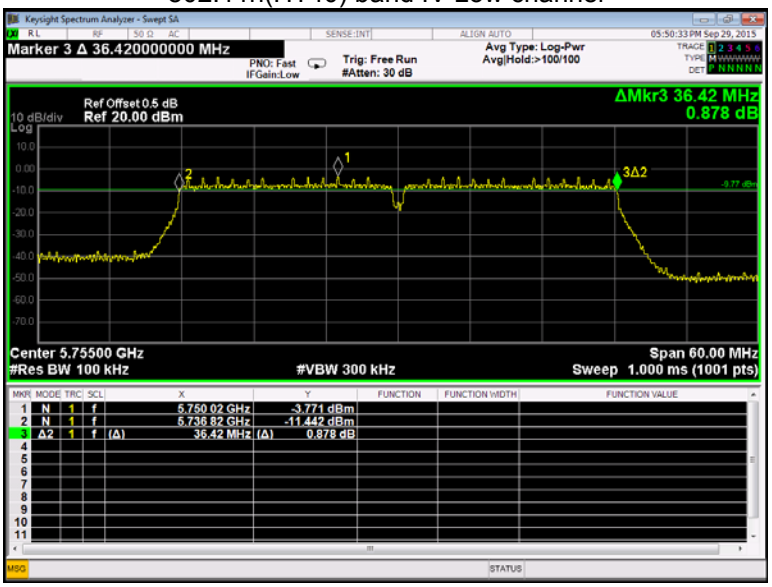


802.11n(HT20) band IV Middle channel

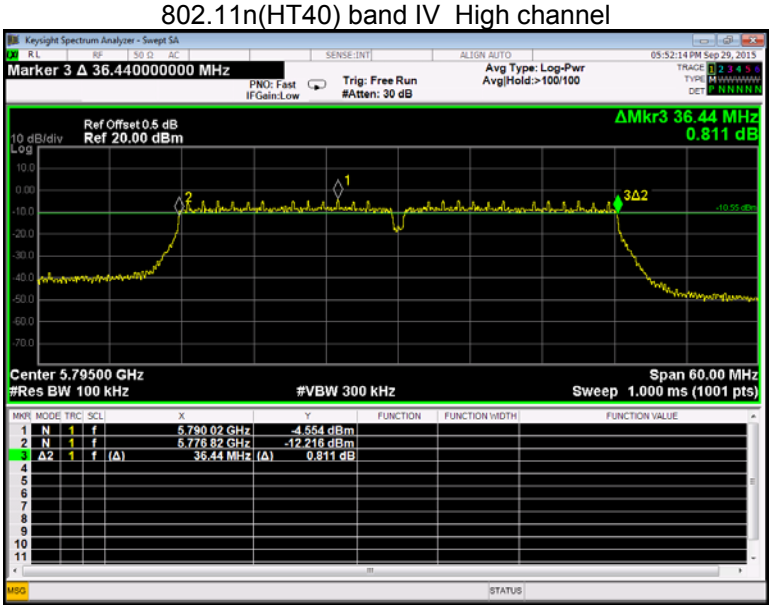
802.11n(HT20) band IV High channel



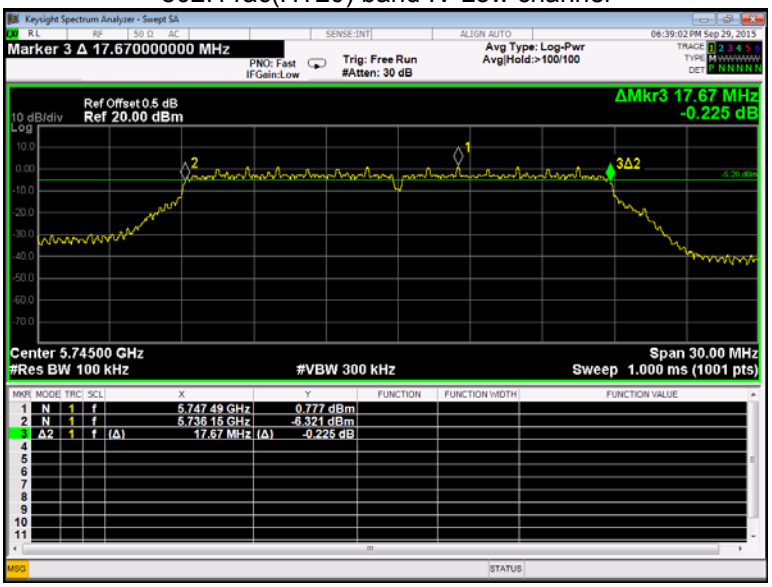
802.11n(HT40) band IV Low channel



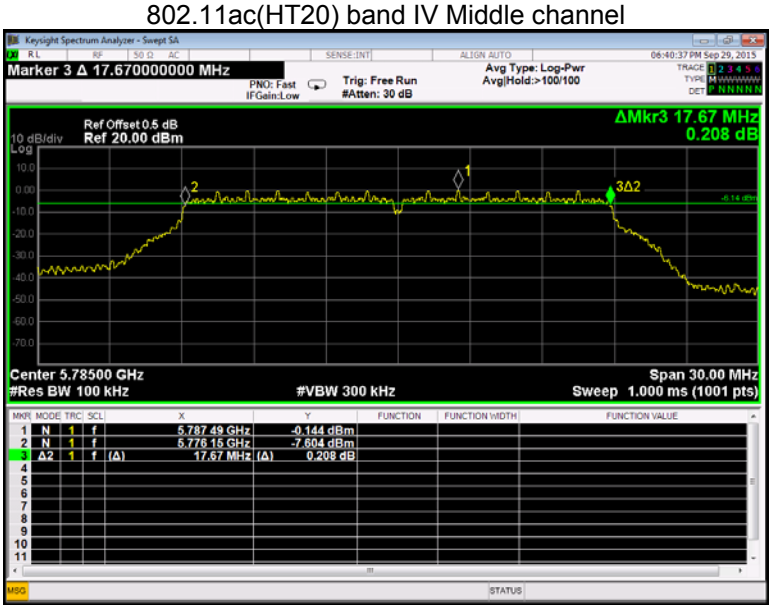
802.11n(HT40) band IV High channel



802.11ac(HT20) band IV Low channel

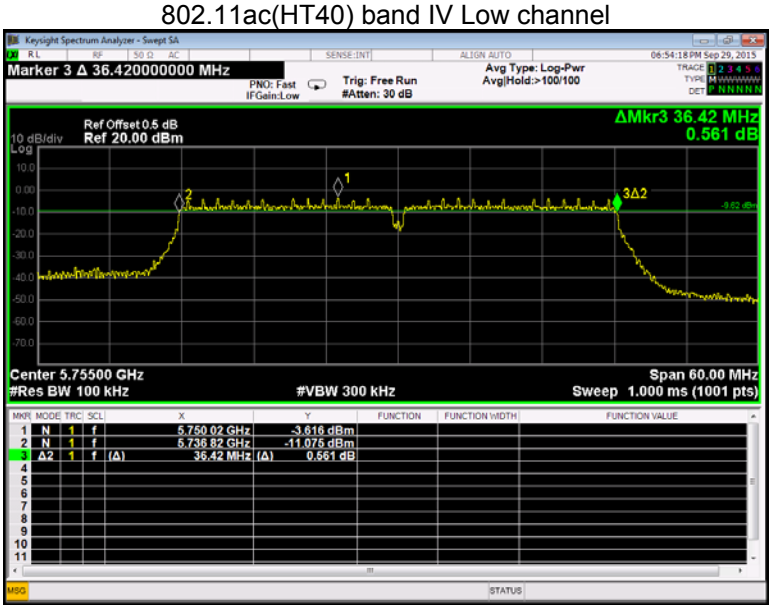


802.11ac(HT20) band IV Middle channel

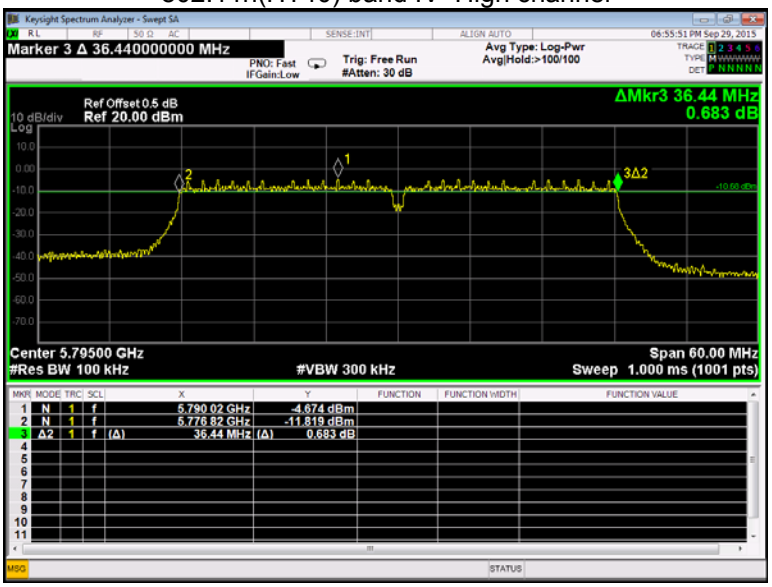


802.11ac(HT20) band IV High channel

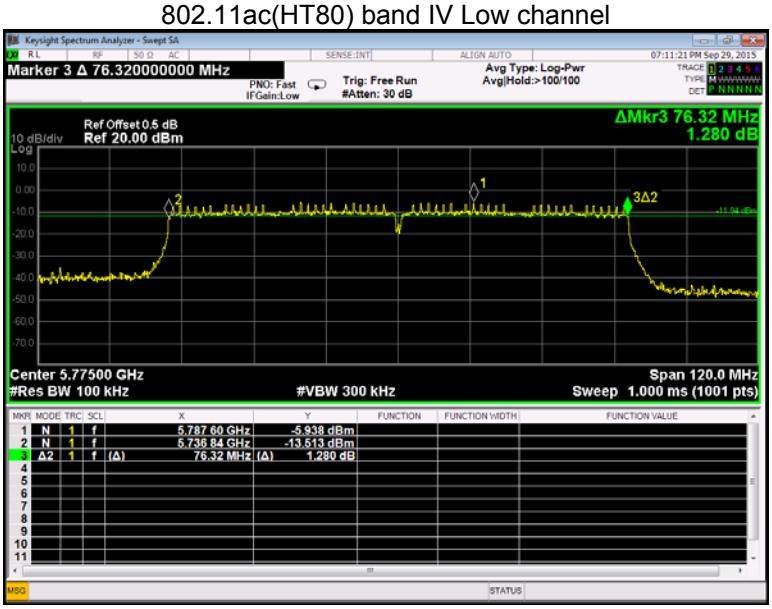
802.11ac(HT40) band IV Low channel



802.11n(HT40) band IV High channel



802.11ac(HT80) band IV Low channel



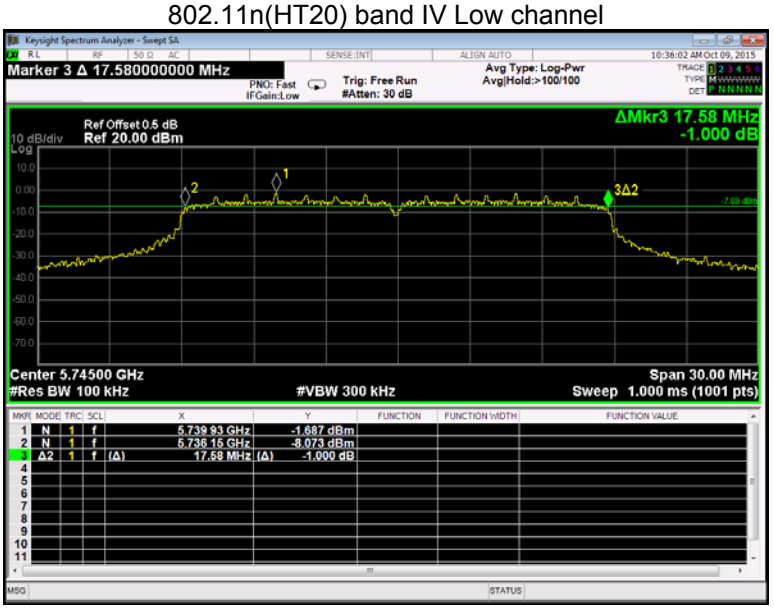
ANT1

802.11a band IV Low channel

802.11a band IV Middle channel

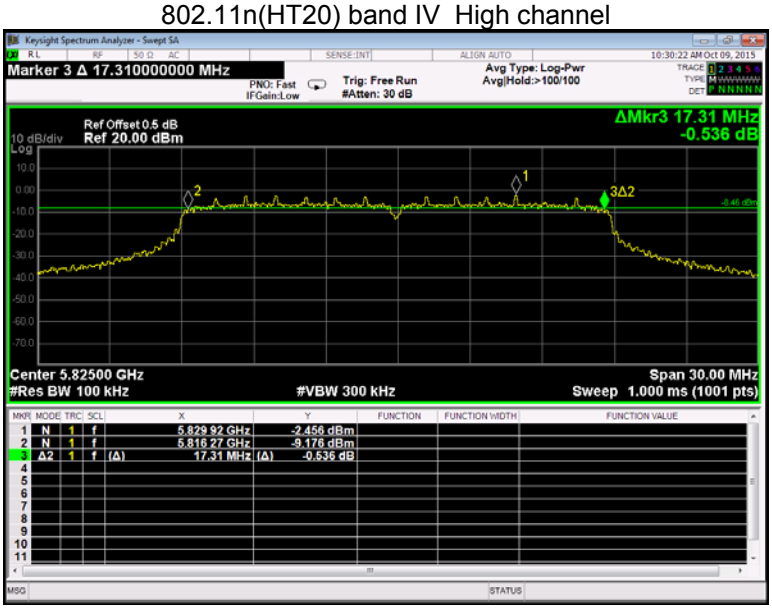
802.11a band IV High channel

802.11n(HT20) band IV Low channel

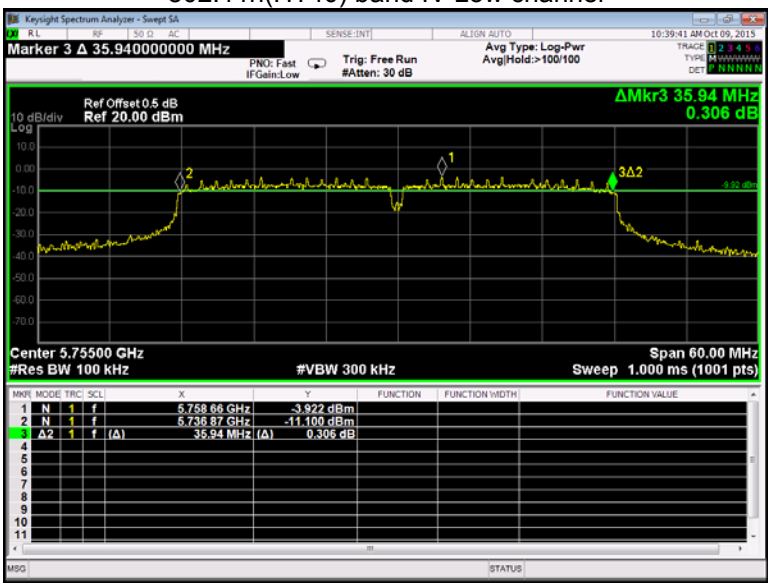


802.11n(HT20) band IV Middle channel

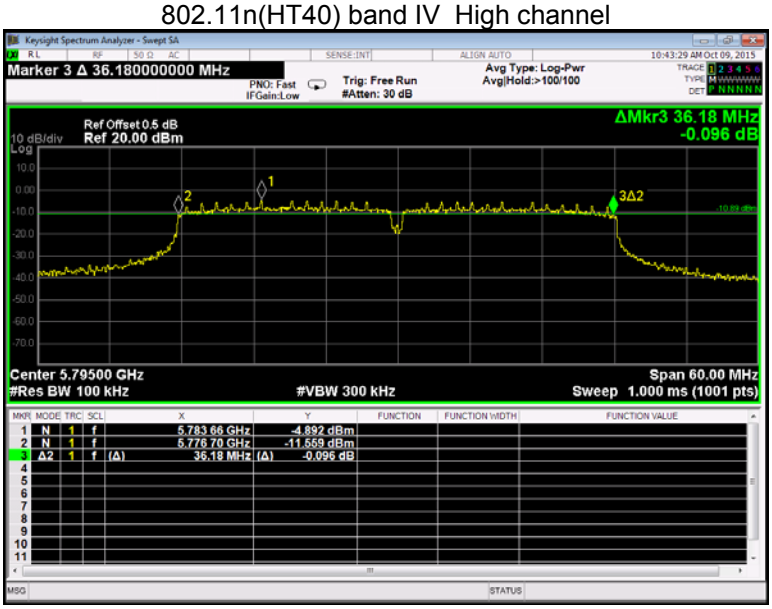
802.11n(HT20) band IV High channel



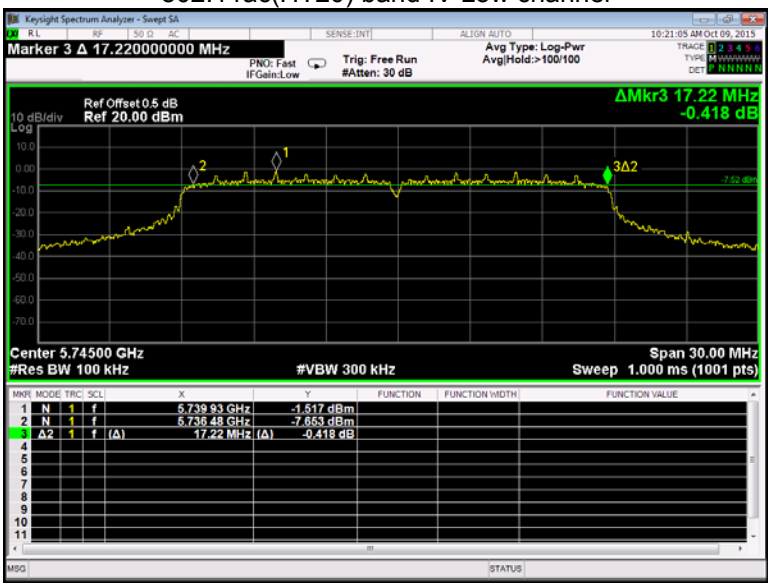
802.11n(HT40) band IV Low channel



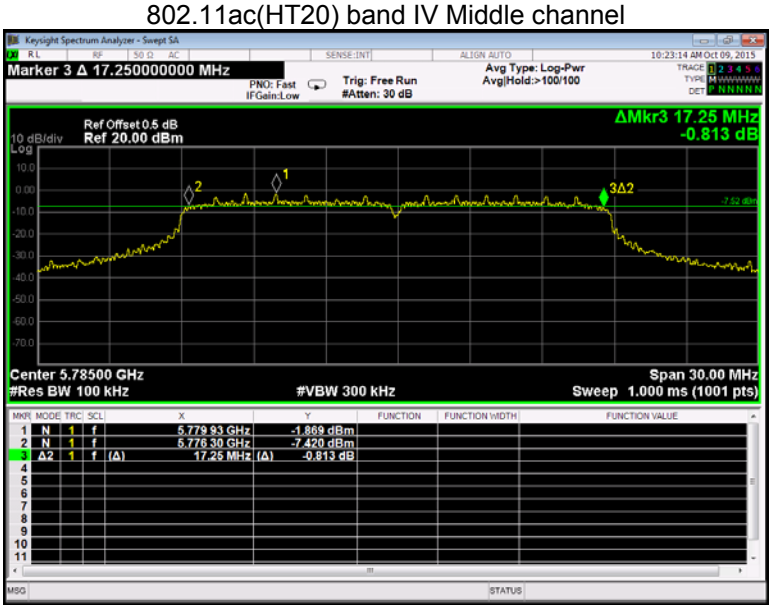
802.11n(HT40) band IV High channel



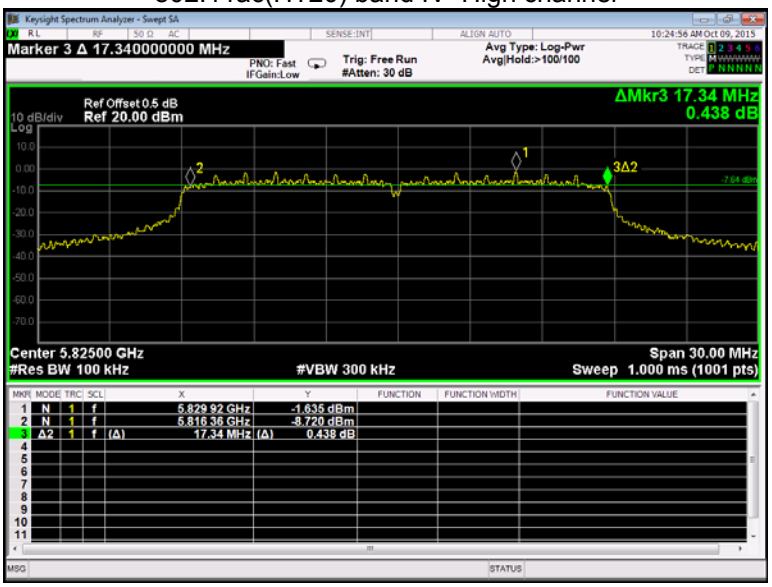
802.11ac(HT20) band IV Low channel



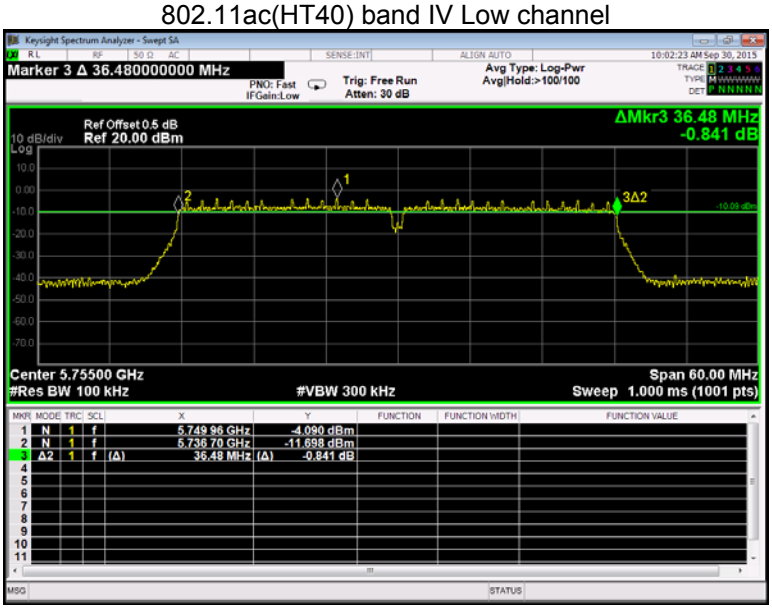
802.11ac(HT20) band IV Middle channel



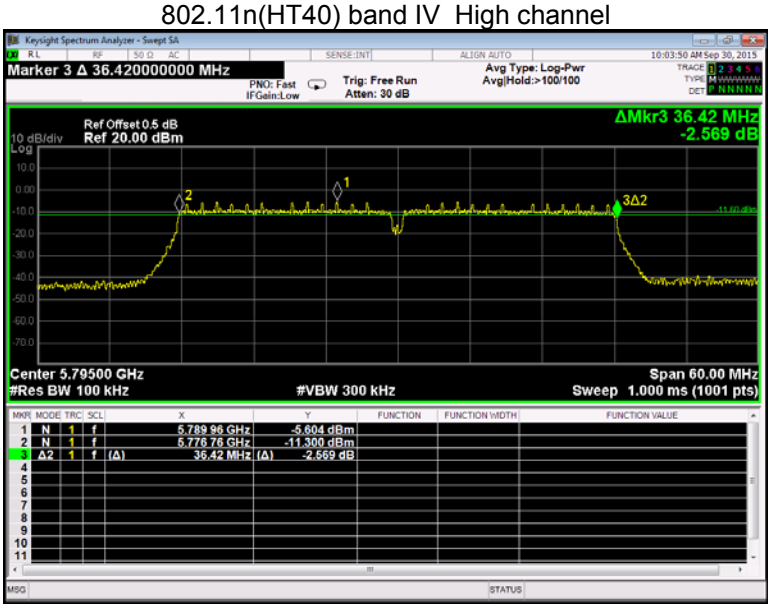
802.11ac(HT20) band IV High channel



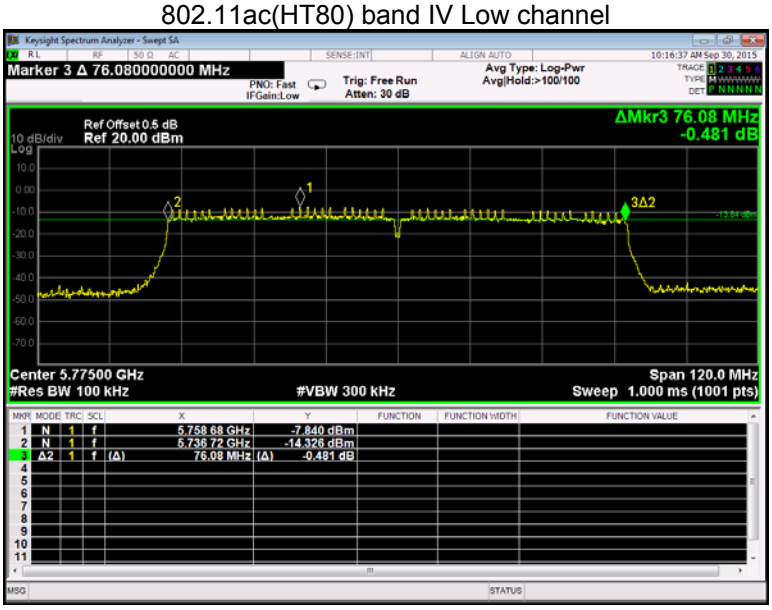
802.11ac(HT40) band IV Low channel



802.11n(HT40) band IV High channel



802.11ac(HT80) band IV Low channel



11 26 dB Bandwidth and 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.407 (a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v01 Section D
Test Limit:	No restriction limits
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 = 100kHz, VBW = 300kHz

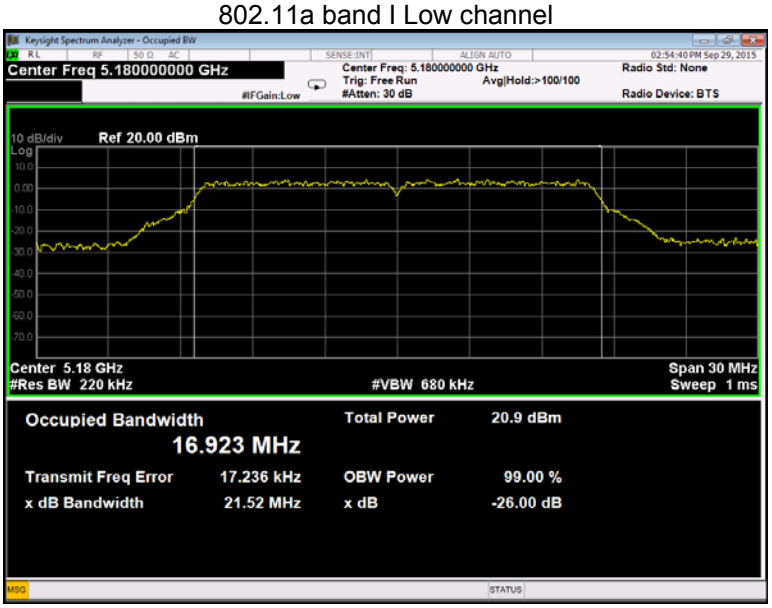
11.2 Test Result:

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
ANT0 Band I	802.11a	21.52	21.45	21.69	16.92	16.93	16.93
	802.11n(HT20)	21.77	21.98	21.77	18.01	17.98	17.99
	802.11n(HT40)	40.41	/	40.29	35.93	/	35.92
	802.11ac(HT20)	21.92	21.81	21.80	17.97	17.98	17.92
	802.11ac(HT40)	40.26	/	40.76	36.36	/	36.34
	802.11ac(HT80)	81.63	/	/	75.70	/	/
ANT0 Band IV	802.11a	21.72	21.83	21.71	16.85	16.91	16.88
	802.11n(HT20)	21.77	21.74	21.81	17.91	17.93	17.94
	802.11n(HT40)	40.01	/	40.30	36.31	/	36.33
	802.11ac(HT20)	21.83	21.78	21.88	17.92	17.93	17.95
	802.11ac(HT40)	40.16	/	40.50	36.33	/	36.33
	802.11ac(HT80)	81.86	/	/	75.90	/	/
ANT1 Band I	802.11a	21.41	21.49	21.53	16.84	16.86	16.86
	802.11n(HT20)	21.76	21.84	21.71	17.97	17.95	17.96
	802.11n(HT40)	40.10	/	40.13	36.34	/	36.36
	802.11ac(HT20)	21.95	21.74	21.64	17.97	17.97	17.94
	802.11ac(HT40)	40.10	/	39.98	36.32	/	36.37
	802.11ac(HT80)	82.02	/	/	75.71	/	/
ANT1 Band IV	802.11a	21.53	21.61	21.54	16.81	16.91	16.86
	802.11n(HT20)	21.70	21.70	21.79	17.98	17.98	17.97
	802.11n(HT40)	40.07	/	40.64	36.35	/	36.43
	802.11ac(HT20)	21.84	21.74	21.98	17.95	17.99	17.97
	802.11ac(HT40)	40.28	/	40.21	36.34	/	36.41
	802.11ac(HT80)	82.16	/	/	75.85	/	/

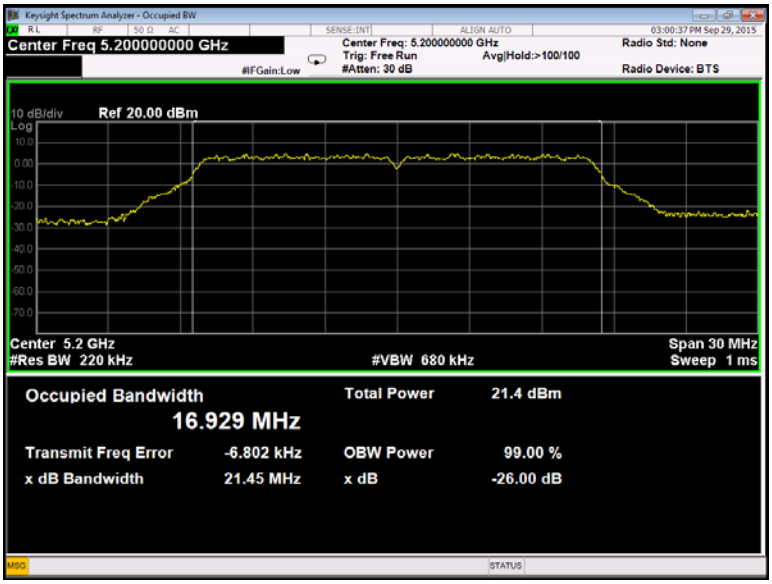
Test result plots shown as follows:

ANT0

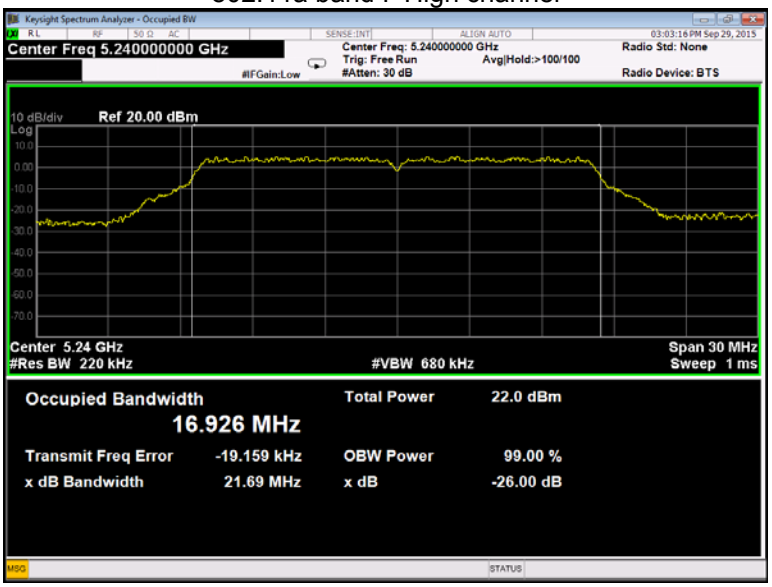
802.11a band I Low channel



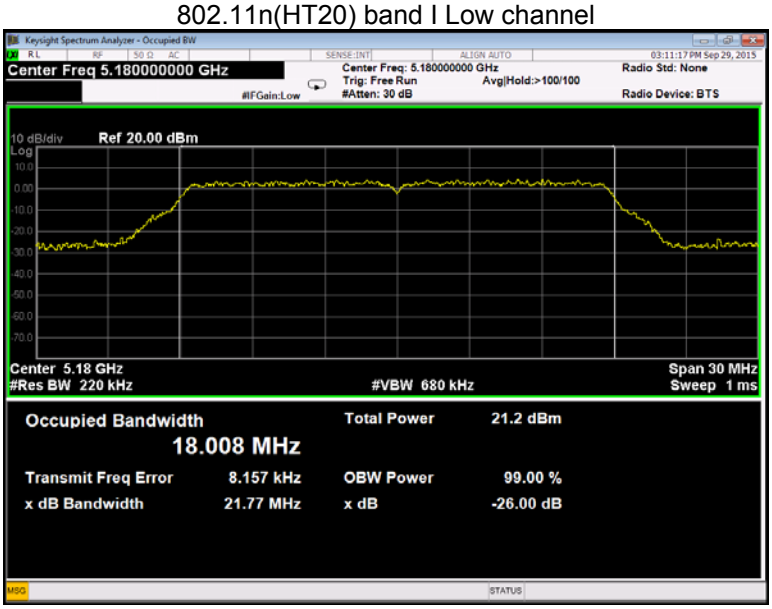
802.11a band I Middle channel



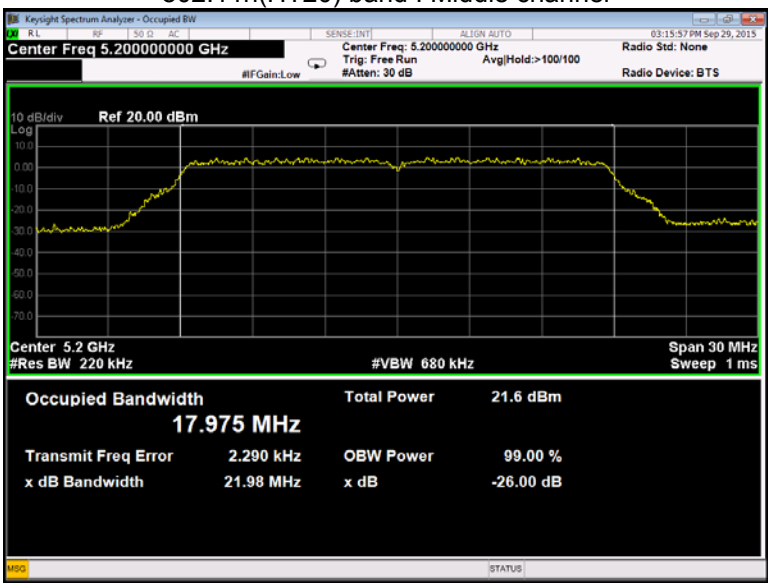
802.11a band I High channel



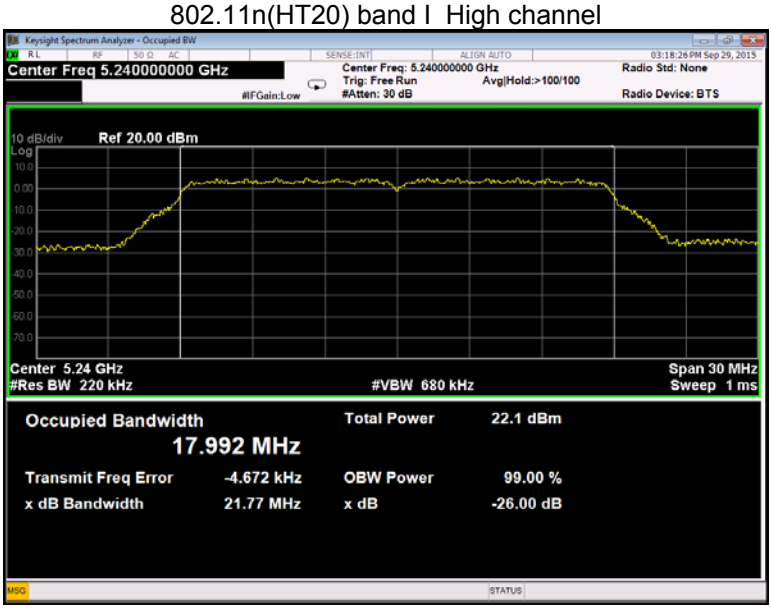
802.11n(HT20) band I Low channel



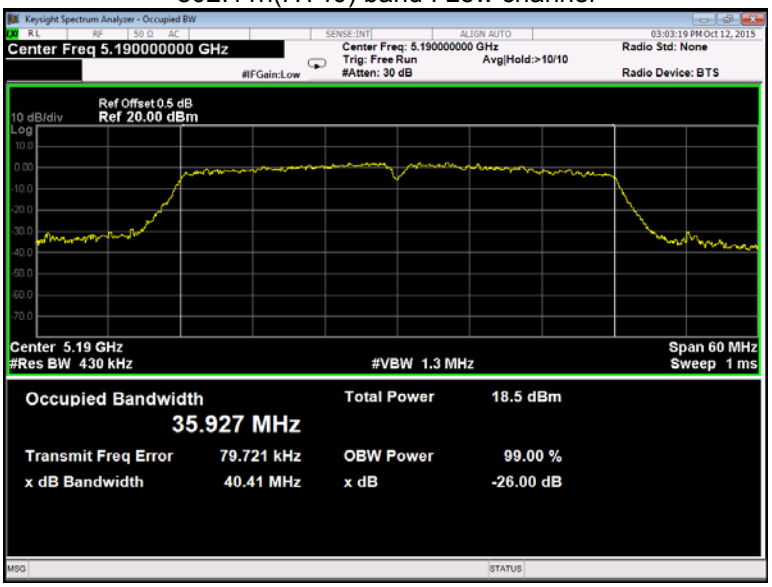
802.11n(HT20) band I Middle channel



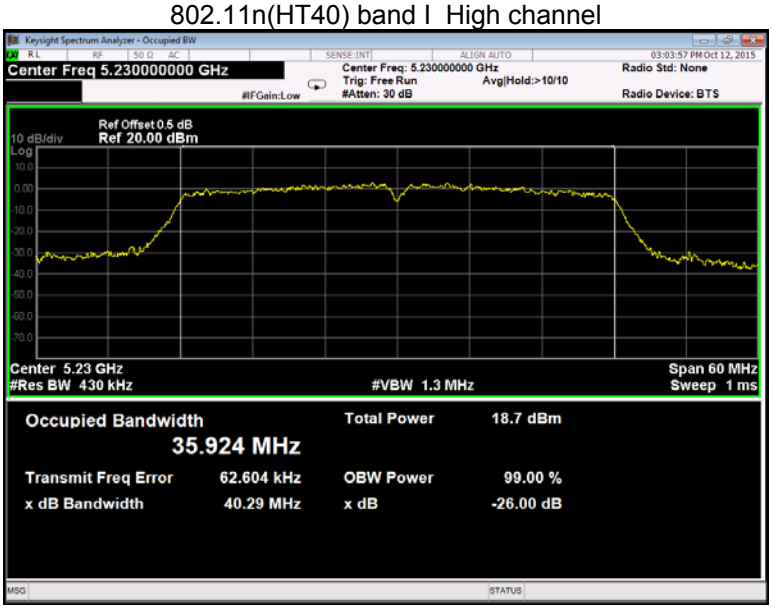
802.11n(HT20) band I High channel



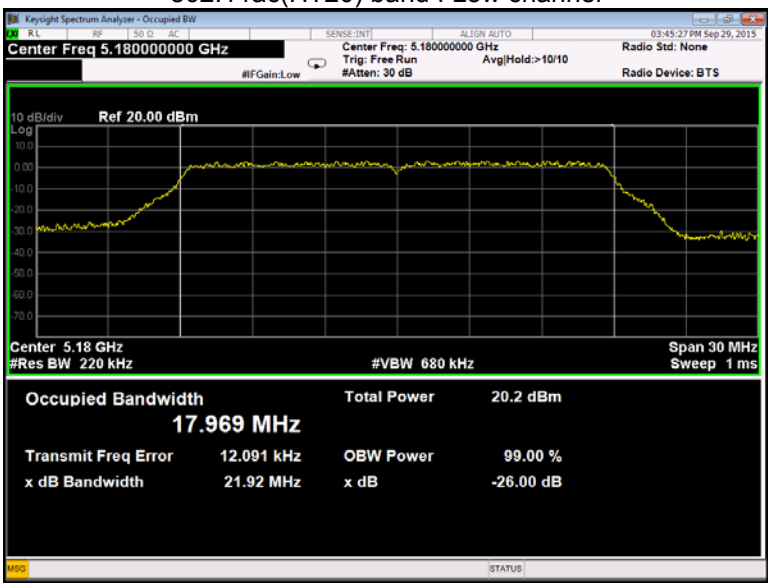
802.11n(HT40) band I Low channel



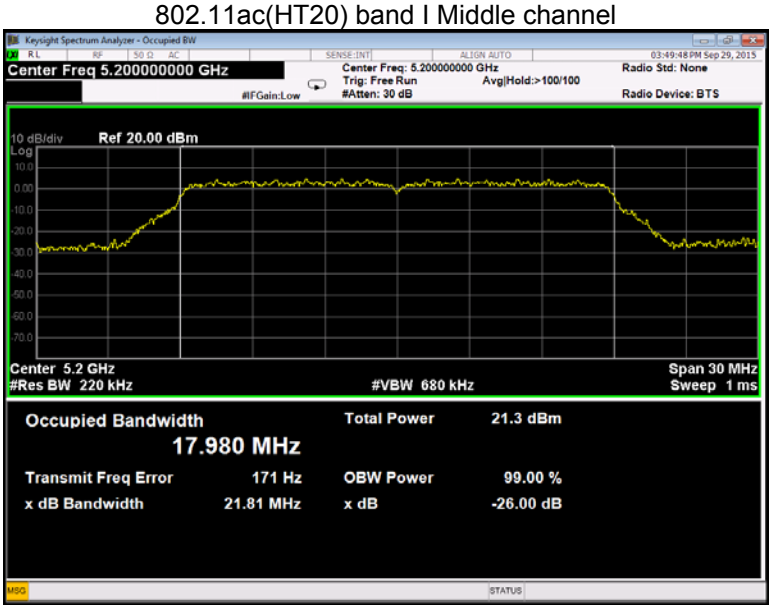
802.11n(HT40) band I High channel



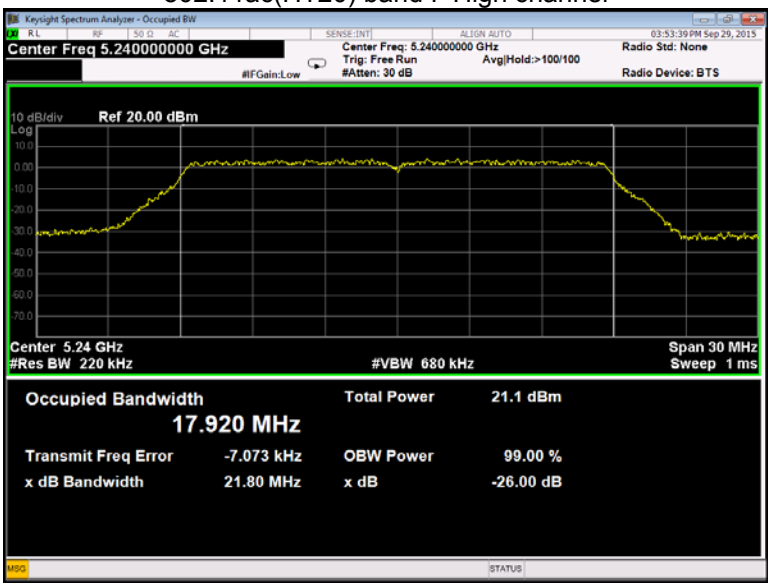
802.11ac(HT20) band I Low channel



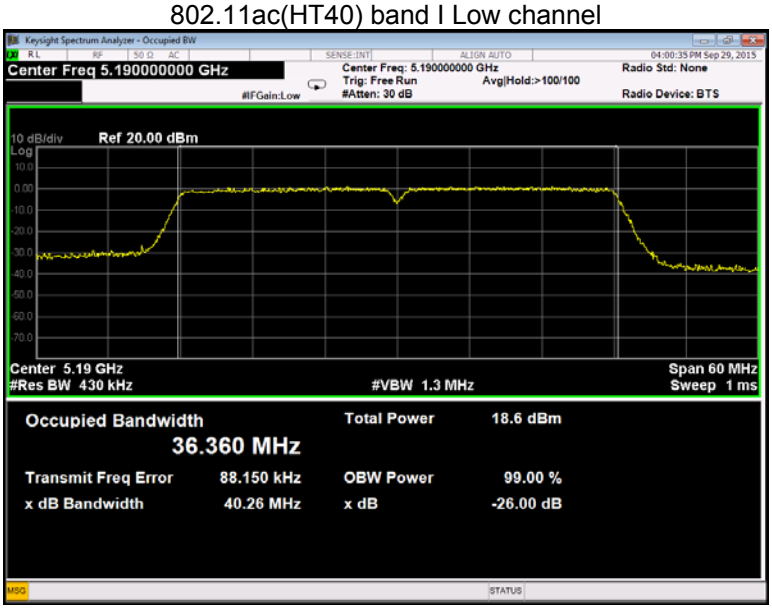
802.11ac(HT20) band I Middle channel



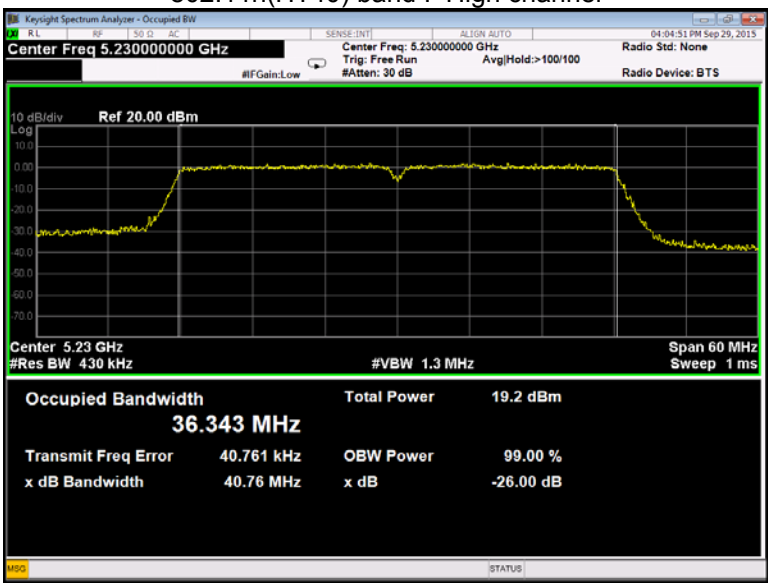
802.11ac(HT20) band I High channel



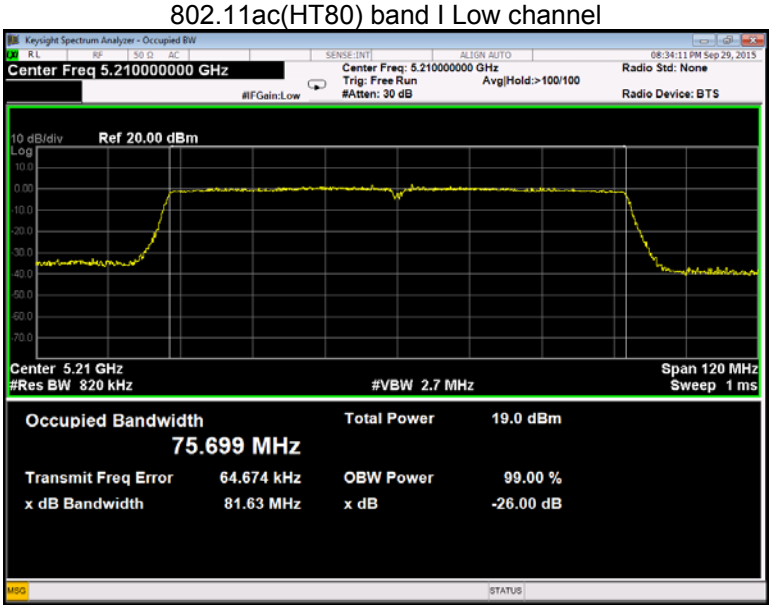
802.11ac(HT40) band I Low channel



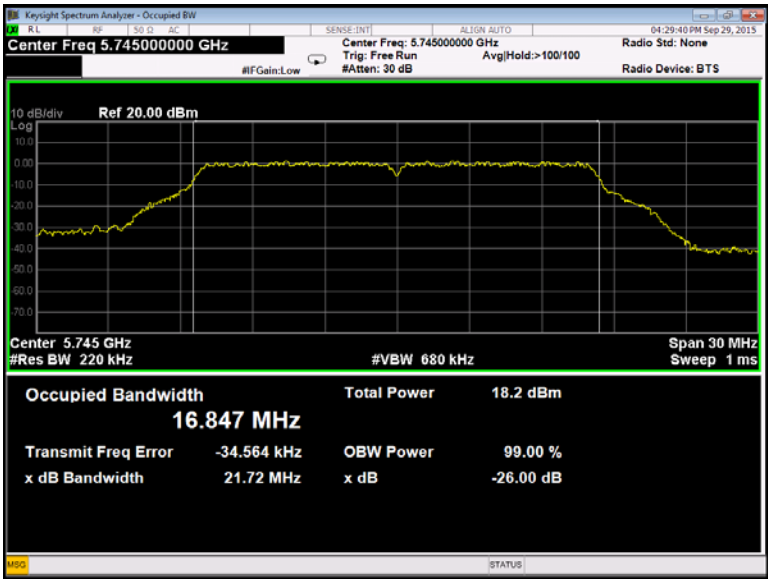
802.11n(HT40) band I High channel



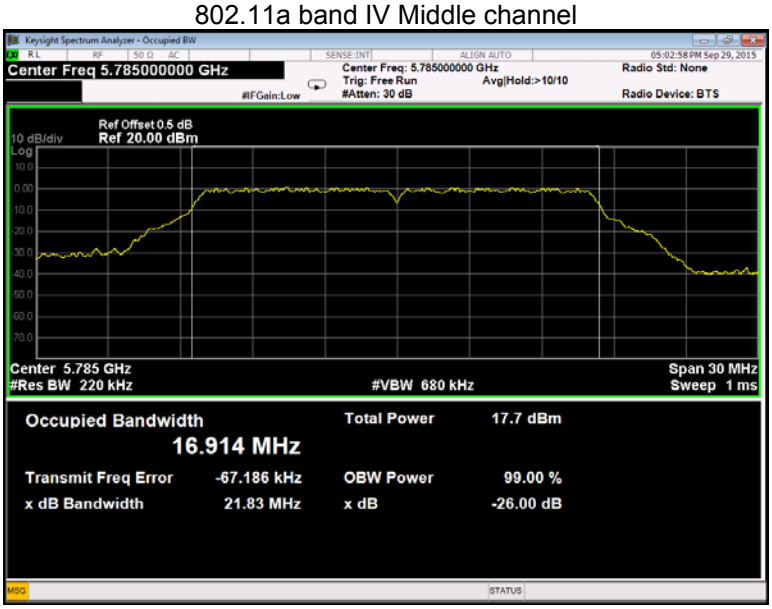
802.11ac(HT80) band I Low channel



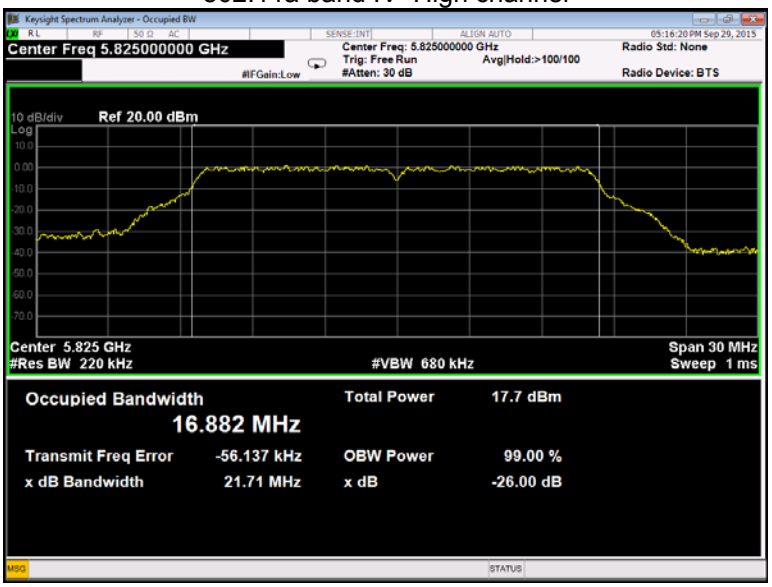
802.11a band IV Low channel



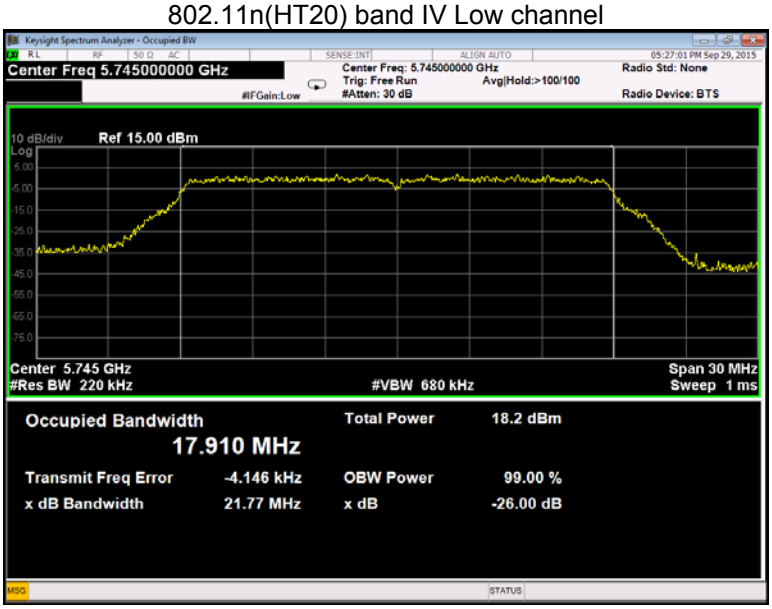
802.11a band IV Middle channel



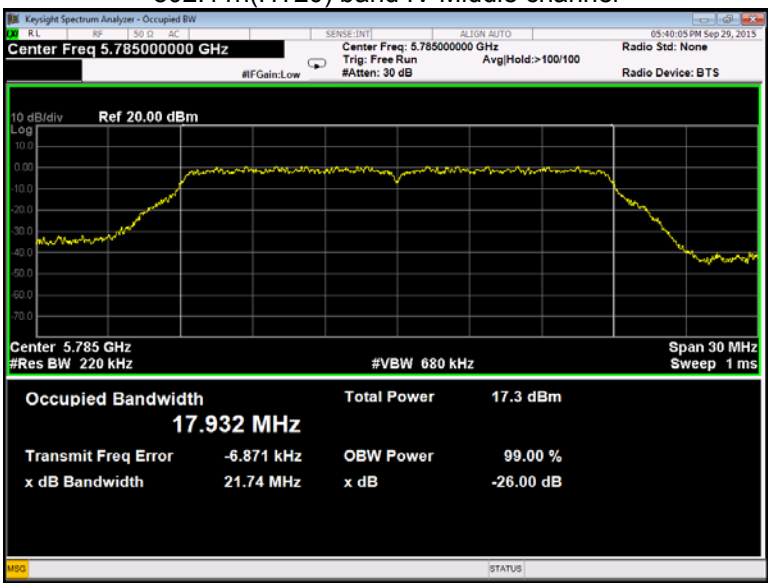
802.11a band IV High channel



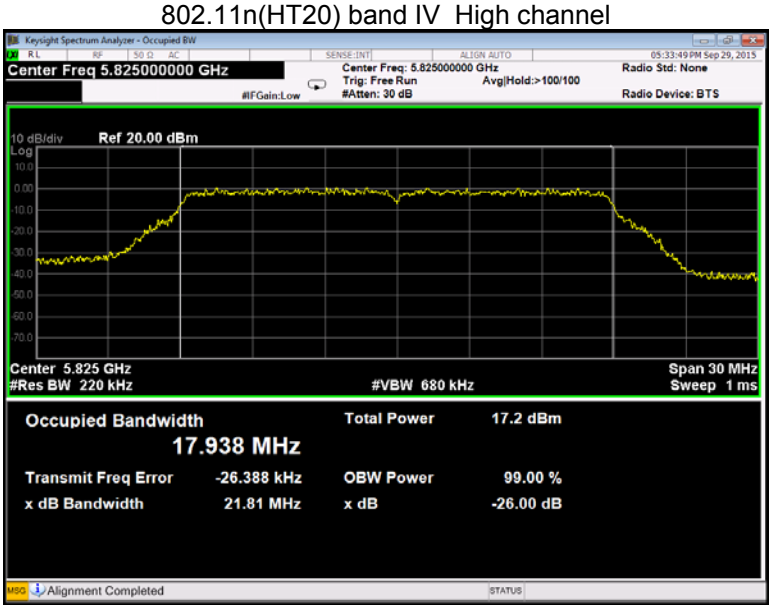
802.11n(HT20) band IV Low channel



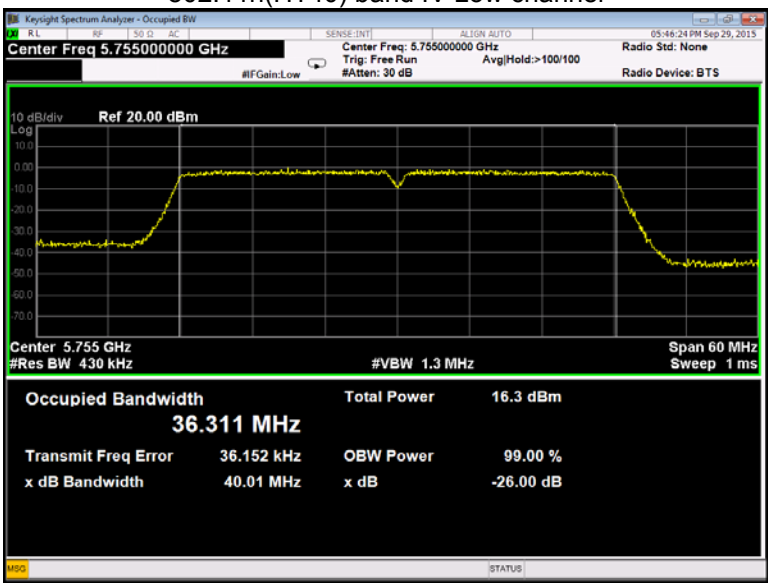
802.11n(HT20) band IV Middle channel



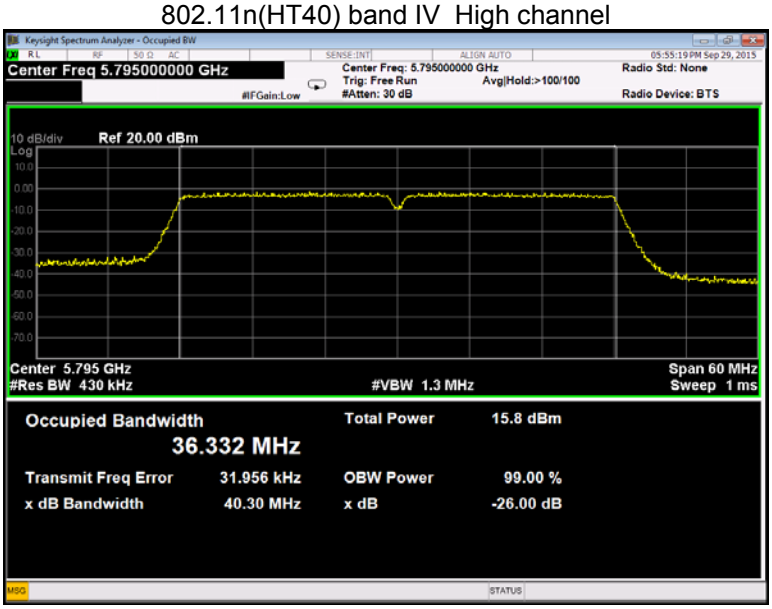
802.11n(HT20) band IV High channel



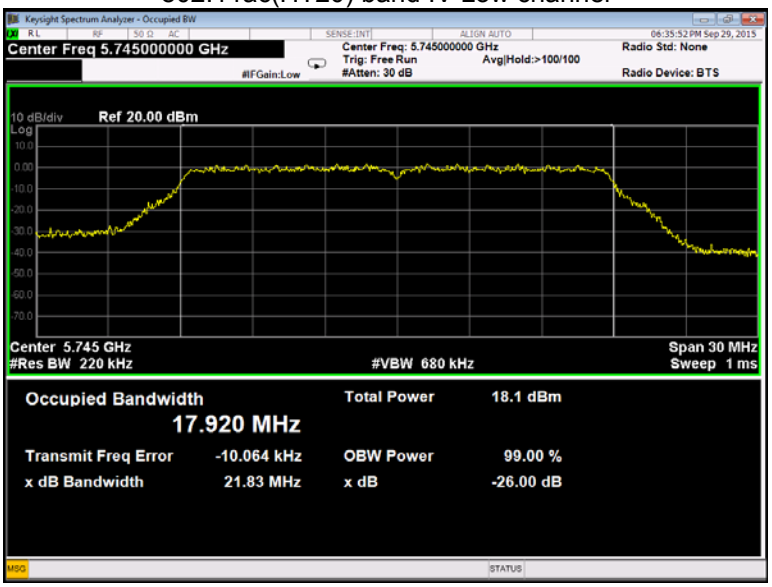
802.11n(HT40) band IV Low channel



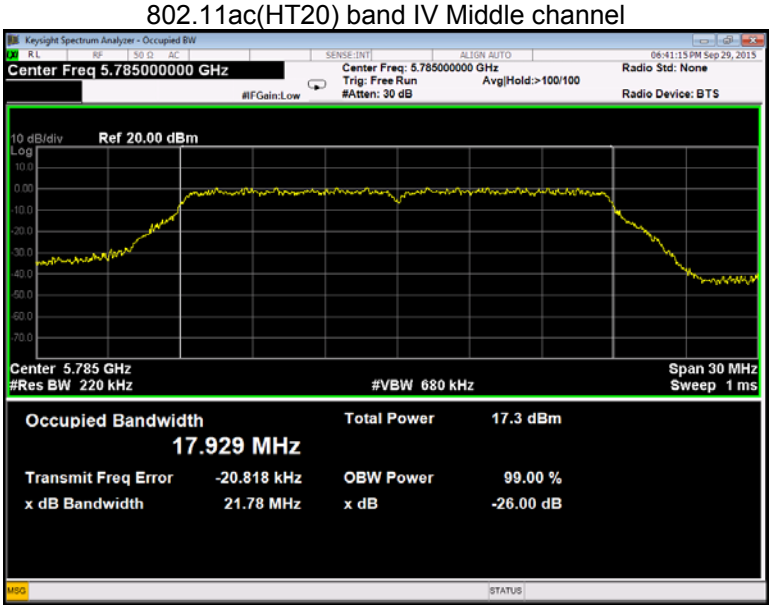
802.11n(HT40) band IV High channel



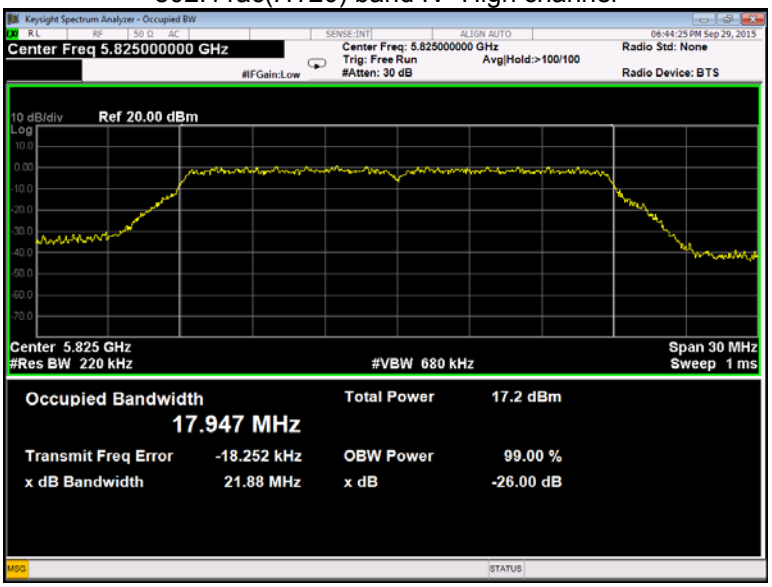
802.11ac(HT20) band IV Low channel



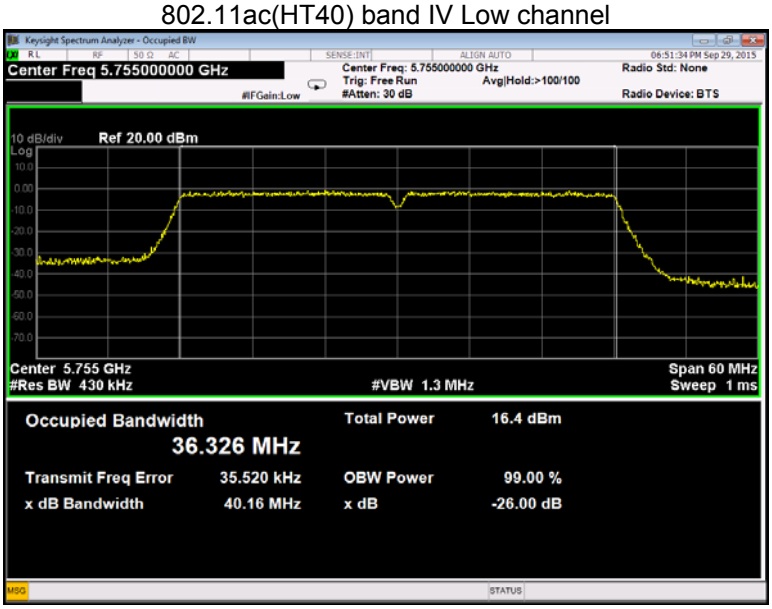
802.11ac(HT20) band IV Middle channel



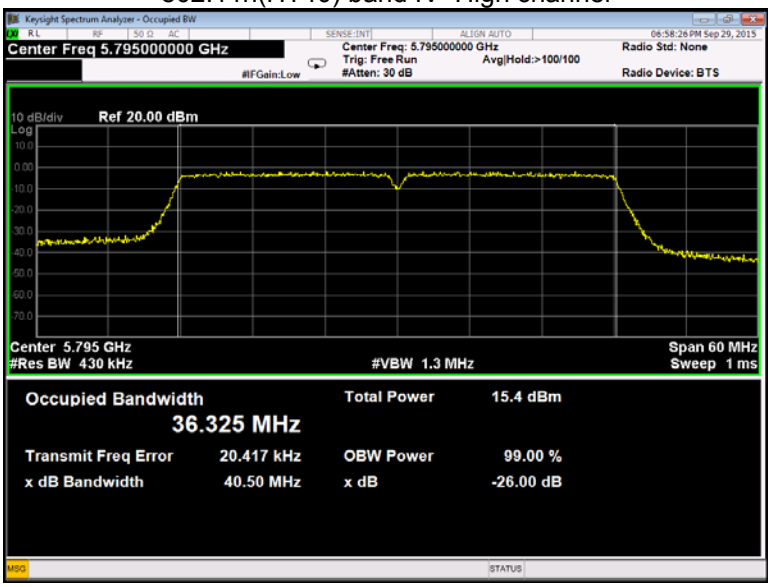
802.11ac(HT20) band IV High channel



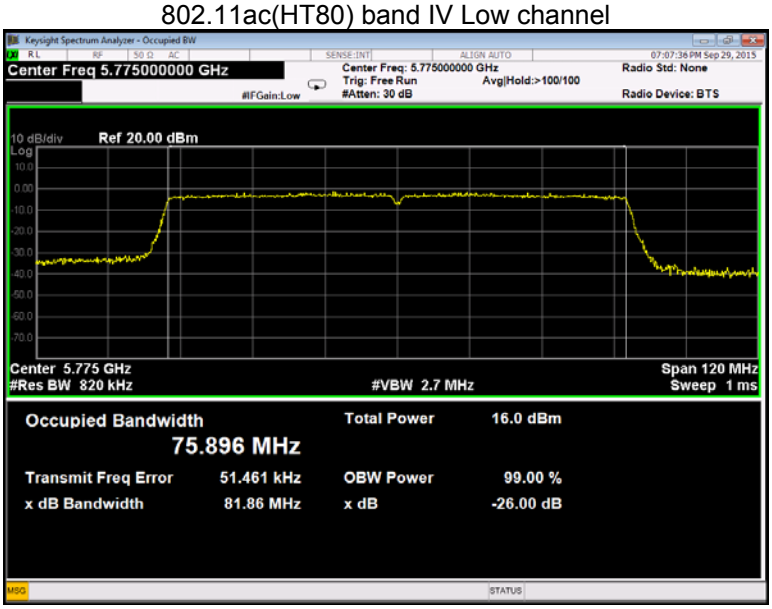
802.11ac(HT40) band IV Low channel



802.11n(HT40) band IV High channel

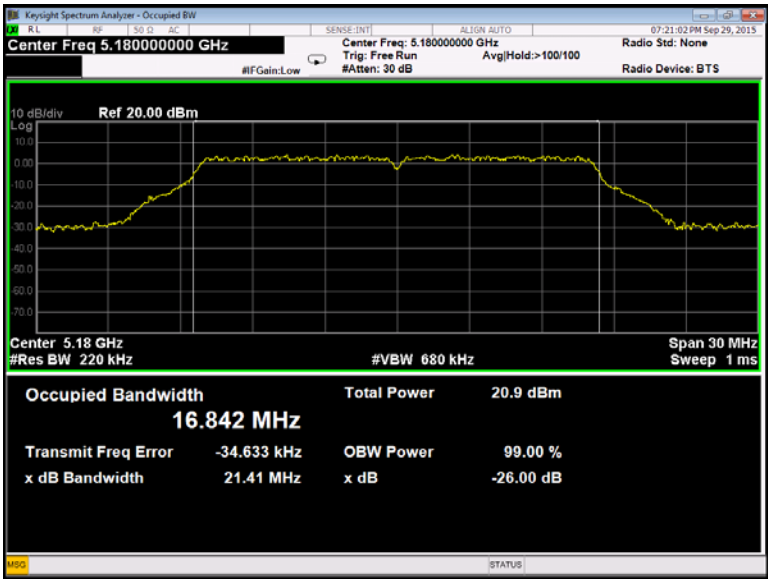


802.11ac(HT80) band IV Low channel



ANT1

802.11a band I Low channel



802.11a band I Middle channel