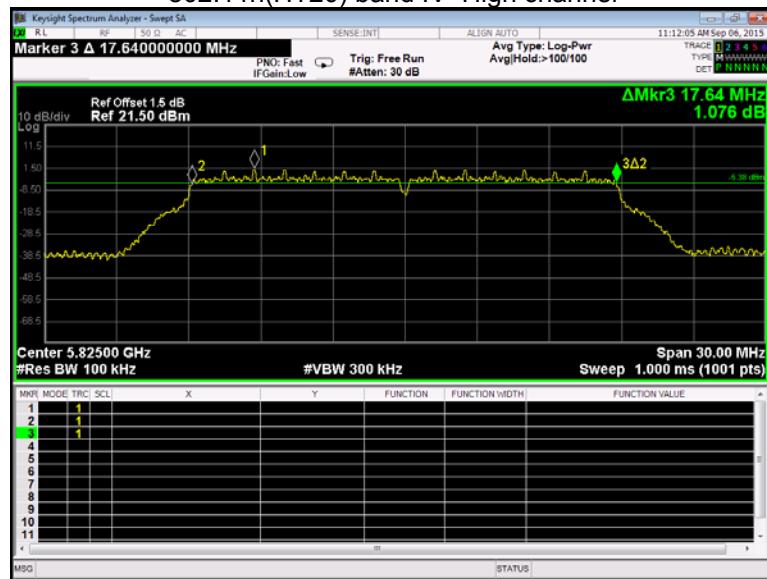


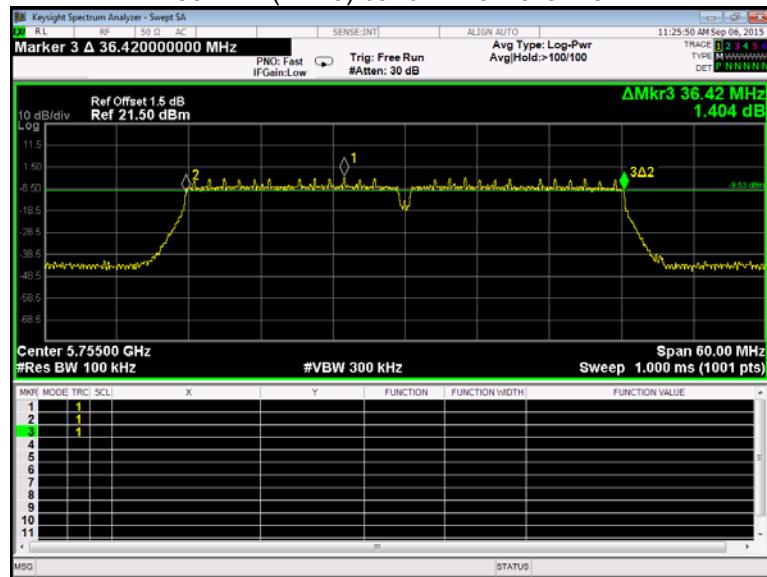
## 802.11n(HT20) band IV Middle channel



## 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



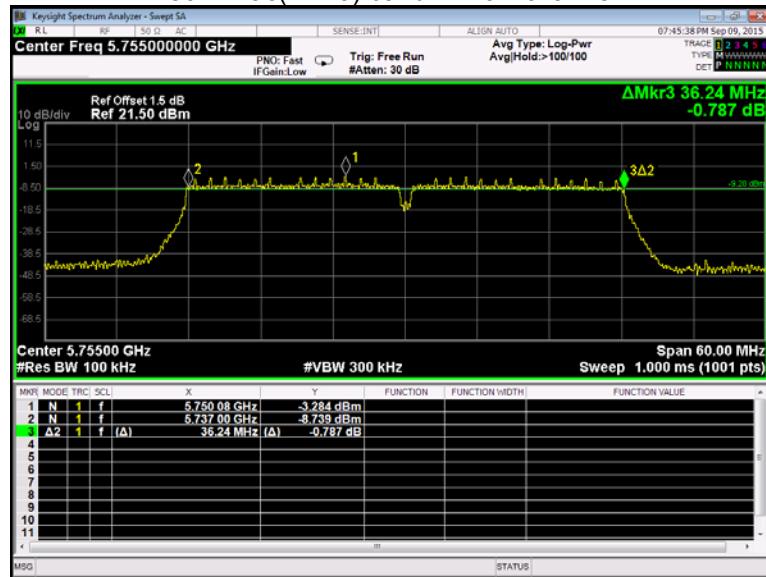
## 802.11ac(HT20) band IV Middle channel



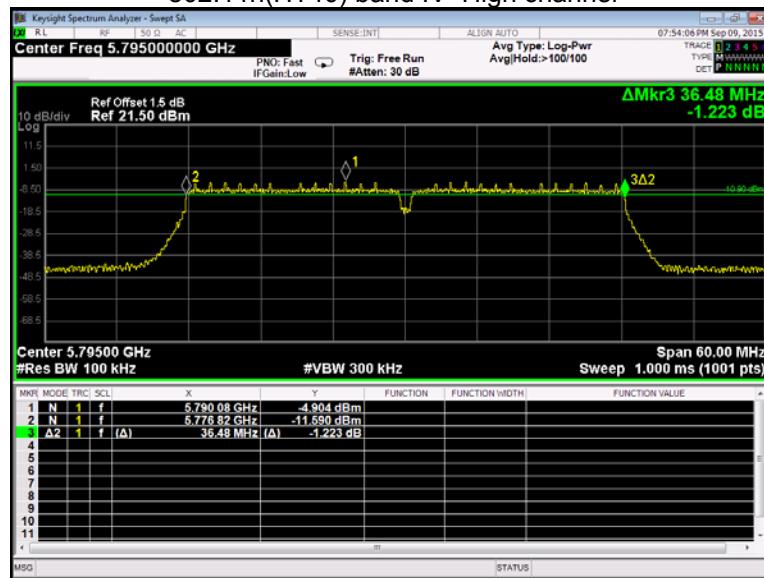
## 802.11ac(HT20) band IV High channel



## 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) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	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

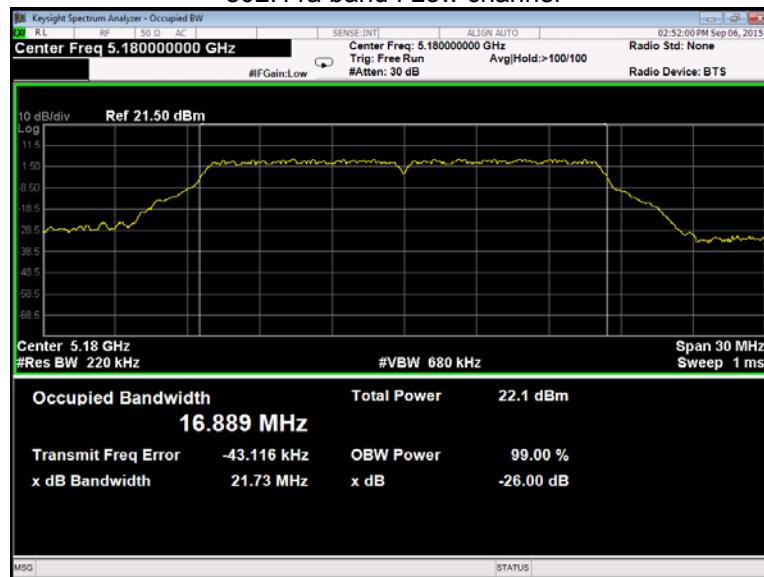
## 11.2 Test Result:

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
ANT0 Band I	802.11a	21.73	21.67	21.78	16.89	16.88	16.91
	802.11n(HT20)	21.98	21.88	21.92	18.04	17.99	17.95
	802.11n(HT40)	40.56	/	40.36	36.42	/	36.37
	802.11ac(HT20)	21.85	21.93	21.92	17.95	17.96	17.97
	802.11ac(HT40)	40.30	/	40.31	36.37	/	37.38
	802.11ac(HT80)	81.90	/	/	75.77	/	/
ANT0 Band IV	802.11a	21.53	21.54	21.63	16.87	16.91	16.91
	802.11n(HT20)	21.92	21.98	21.93	17.98	18.03	18.02
	802.11n(HT40)	40.28	/	40.12	36.37	/	36.41
	802.11ac(HT20)	21.81	21.84	21.83	17.96	17.98	18.00
	802.11ac(HT40)	40.37	/	40.29	36.37	/	36.37
	802.11ac(HT80)	81.88	/	/	75.80	/	/
ANT1 Band I	802.11a	21.57	21.60	21.55	16.86	16.85	16.85
	802.11n(HT20)	21.71	21.76	22.01	17.96	17.98	17.95
	802.11n(HT40)	40.08	/	40.16	36.30	/	36.34
	802.11ac(HT20)	21.90	21.82	21.87	17.96	17.96	17.97
	802.11ac(HT40)	40.14	/	40.11	36.35	/	36.34
	802.11ac(HT80)	81.89	/	/	75.80	/	/
ANT1 Band IV	802.11a	21.67	21.61	21.73	16.86	16.88	16.84
	802.11n(HT20)	21.87	21.99	21.96	18.02	17.99	18.00
	802.11n(HT40)	40.02	/	40.26	36.30	/	36.33
	802.11ac(HT20)	21.86	21.85	21.87	17.96	18.00	18.01
	802.11ac(HT40)	40.18	/	43.34	36.34	/	36.41
	802.11ac(HT80)	81.92	/	/	75.85	/	/

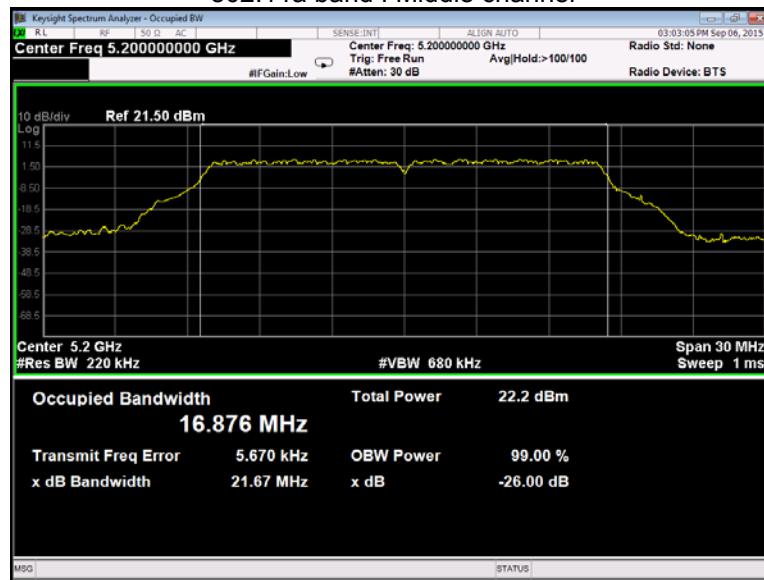
Test result plots shown as follows:

### ANT0

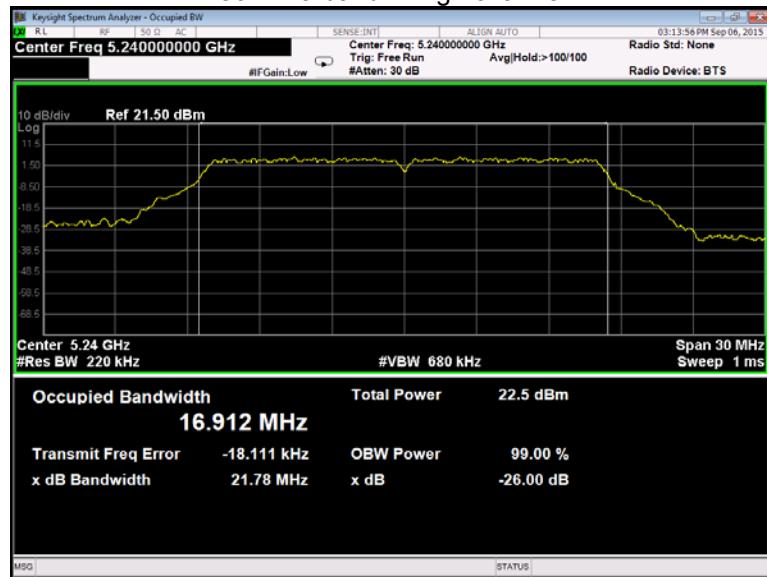
#### 802.11a band I Low channel



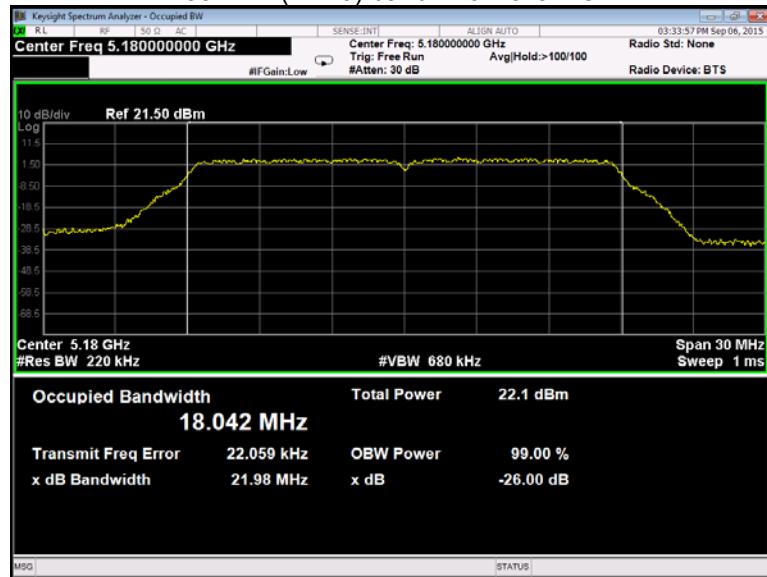
#### 802.11a band I Middle channel



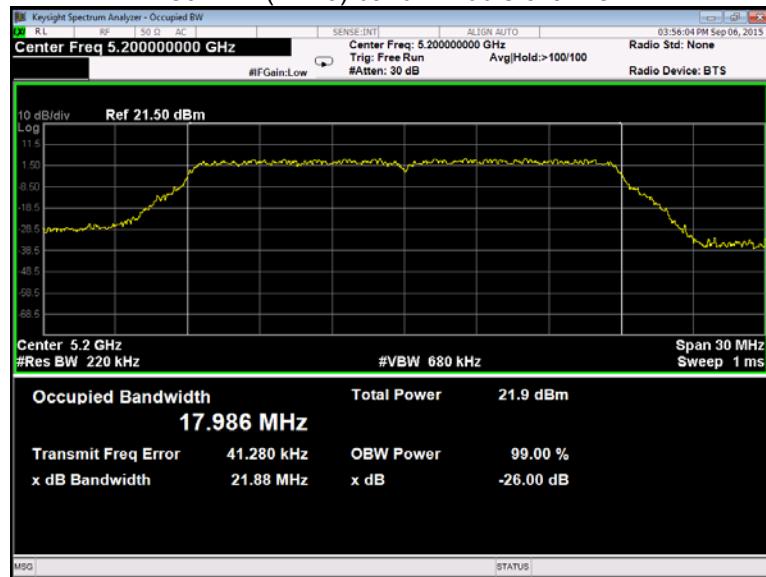
## 802.11a band I High channel



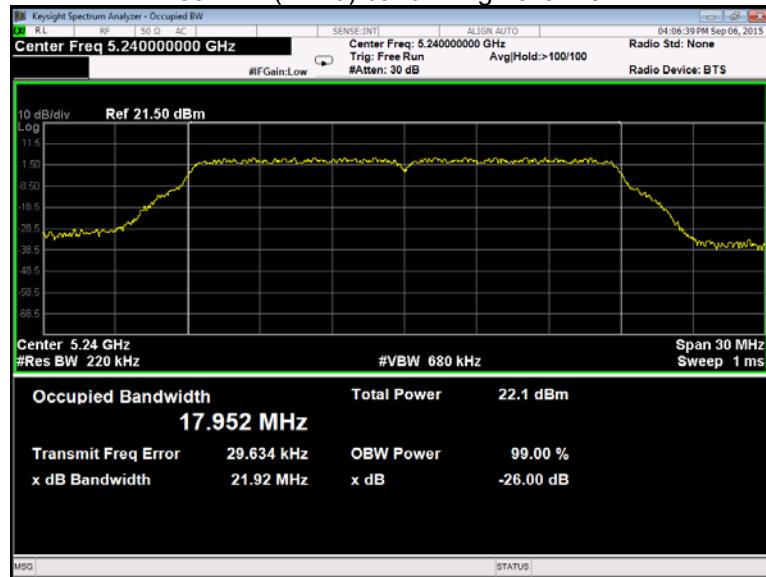
## 802.11n(HT20) band I Low channel

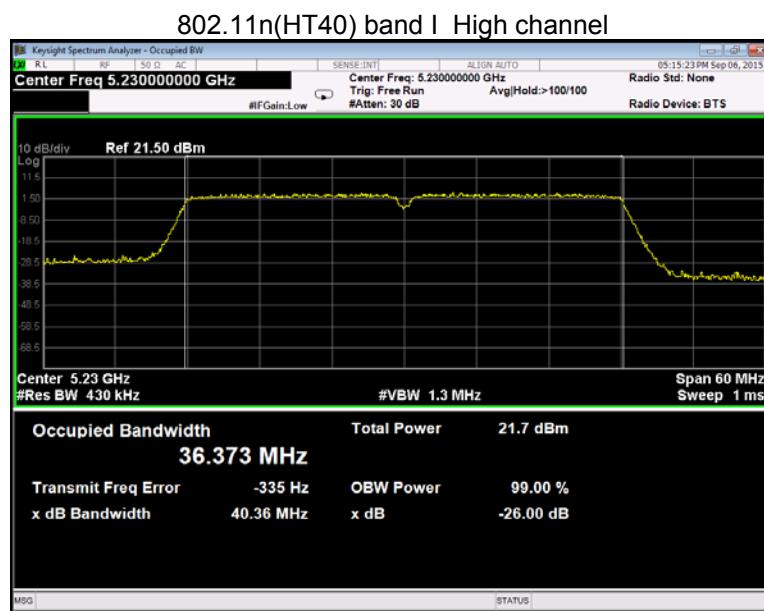
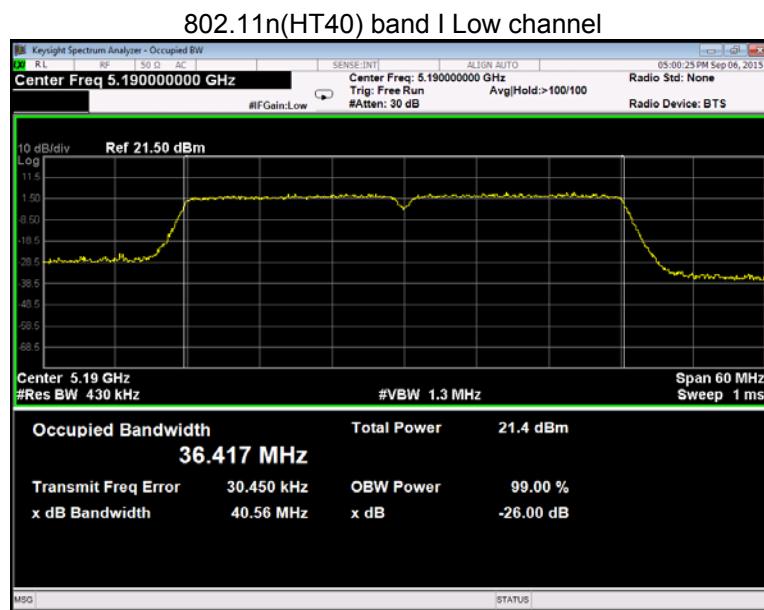


## 802.11n(HT20) band I Middle channel

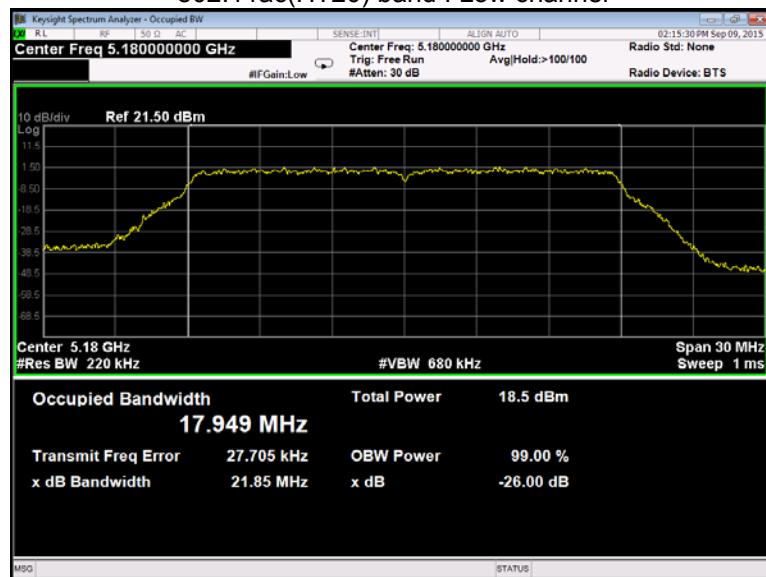


## 802.11n(HT20) band I High channel

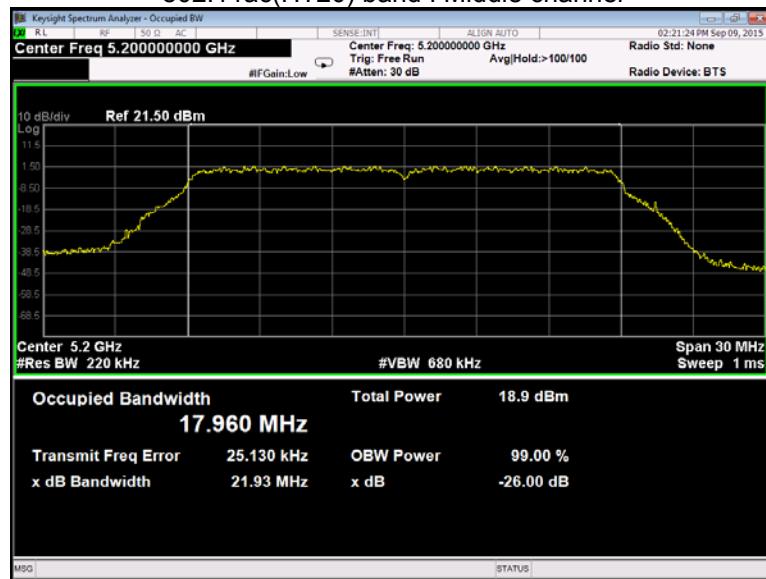




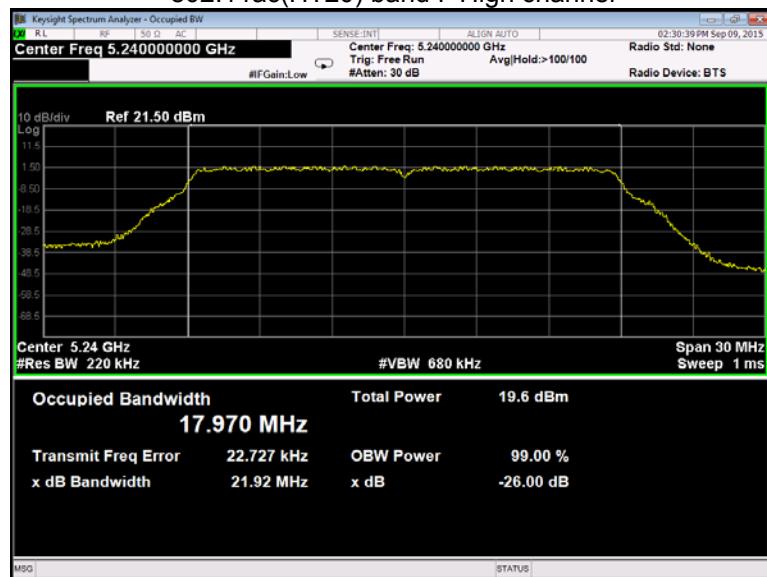
## 802.11ac(HT20) band I Low channel



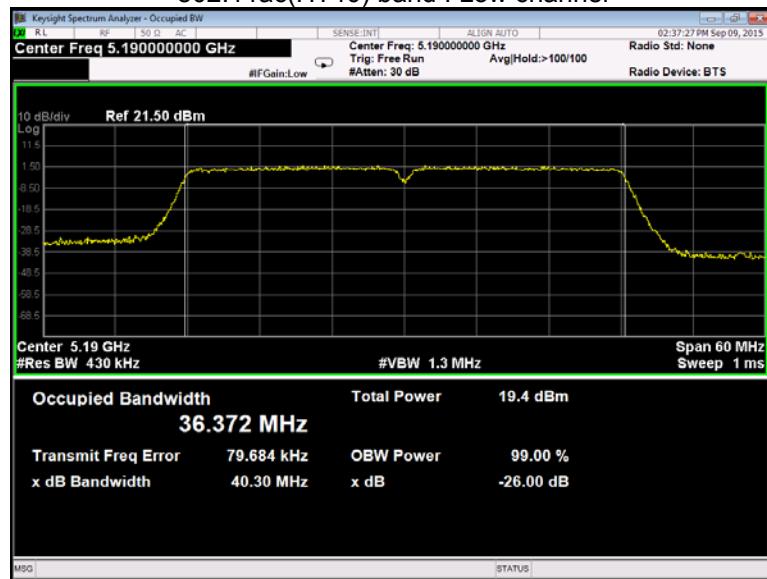
## 802.11ac(HT20) band I Middle channel



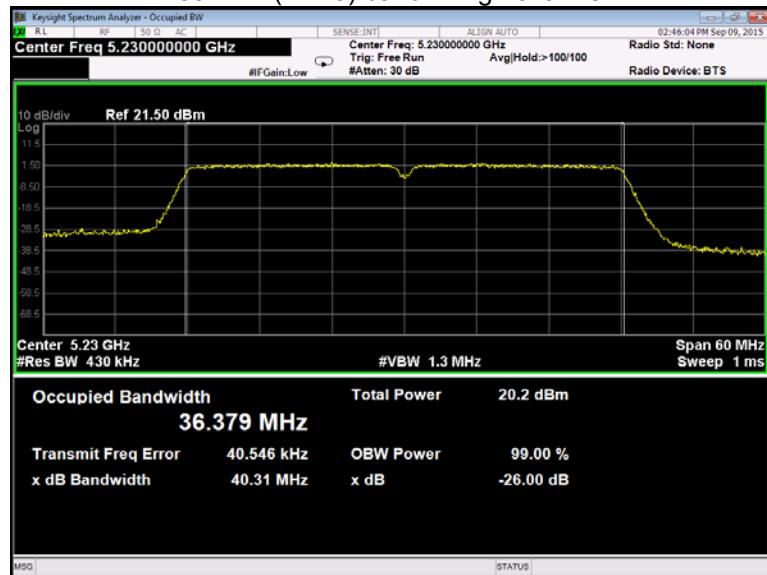
## 802.11ac(HT20) band I High channel



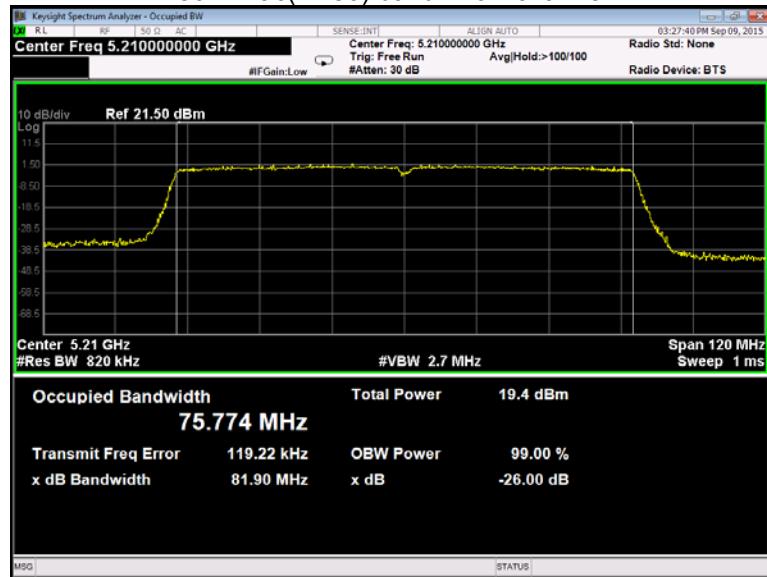
## 802.11ac(HT40) band I Low channel



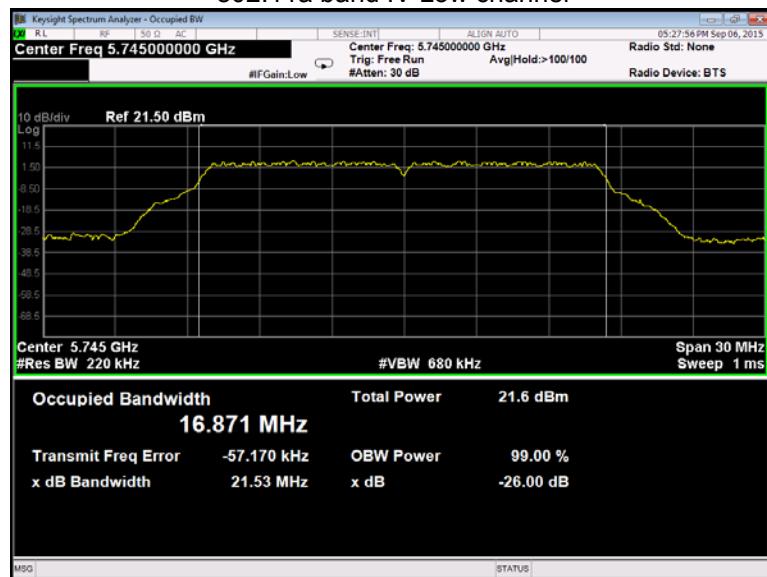
## 802.11n(HT40) band I High channel



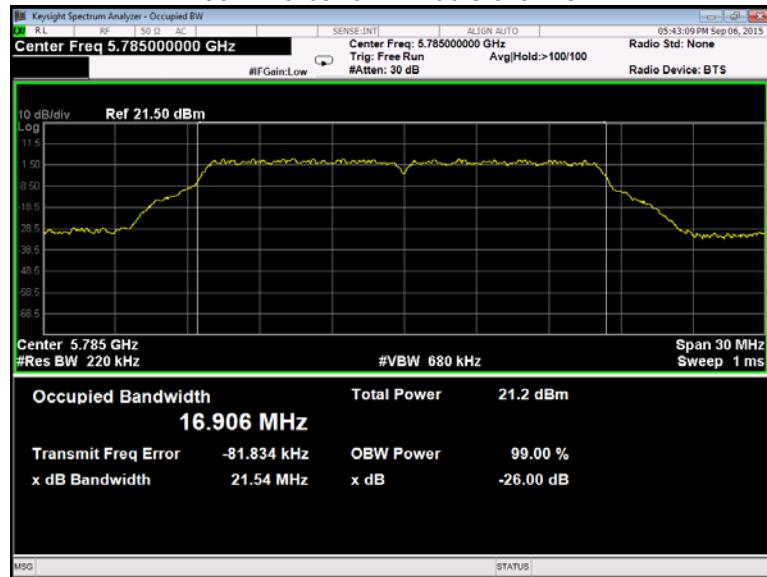
## 802.11ac(HT80) band I Low channel



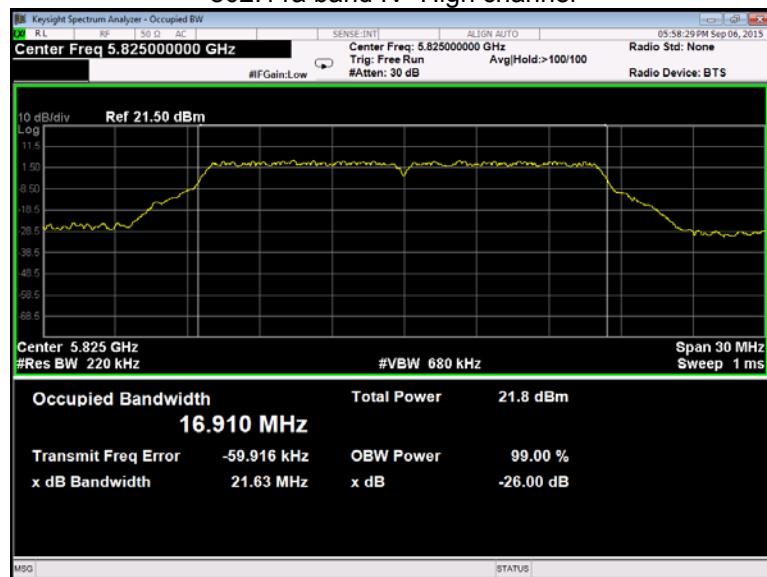
## 802.11a band IV Low channel



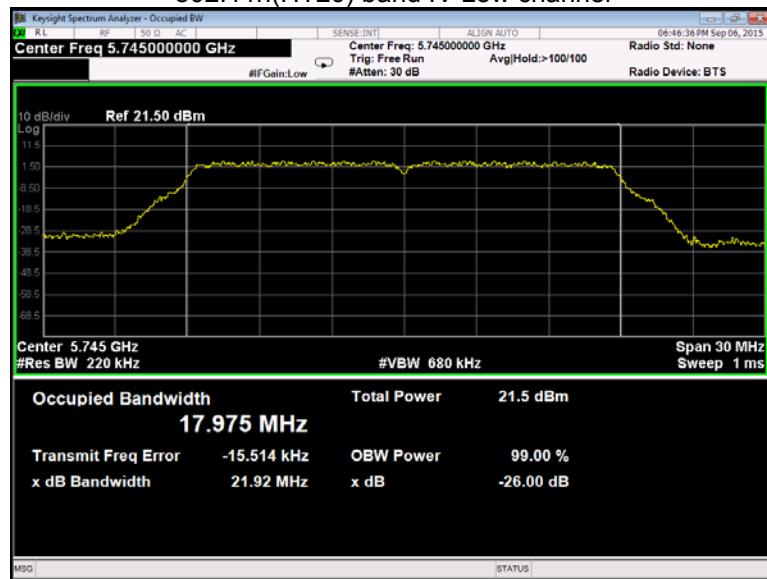
## 802.11a band IV Middle channel



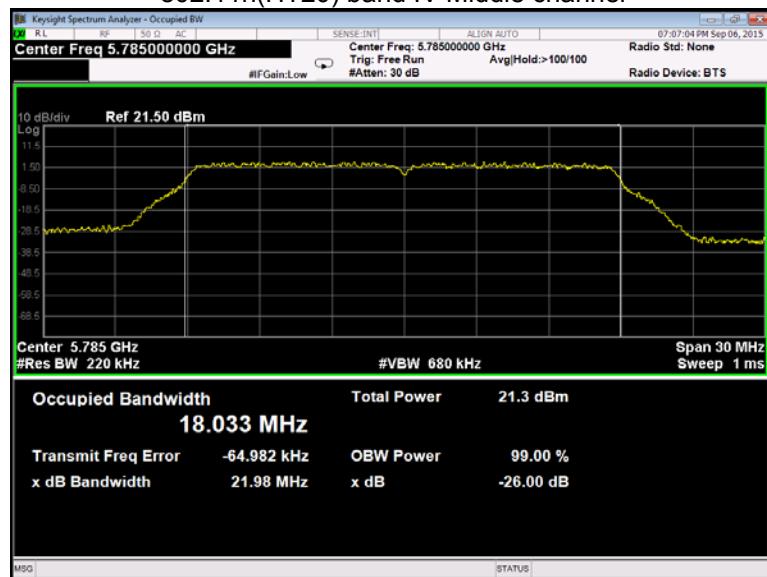
## 802.11a band IV High channel



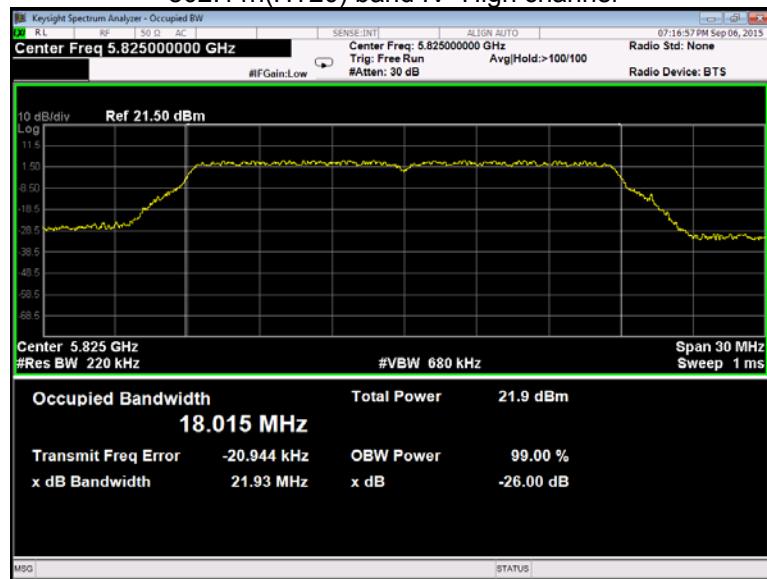
## 802.11n(HT20) band IV Low channel



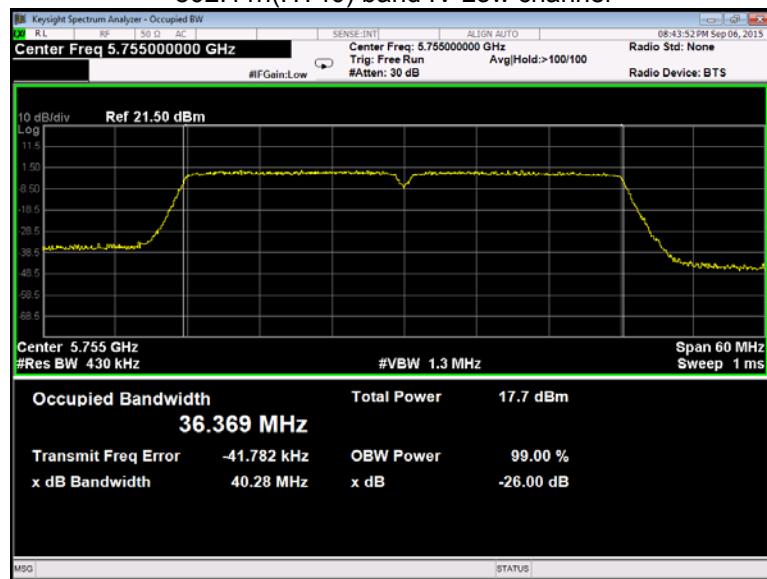
## 802.11n(HT20) band IV Middle channel



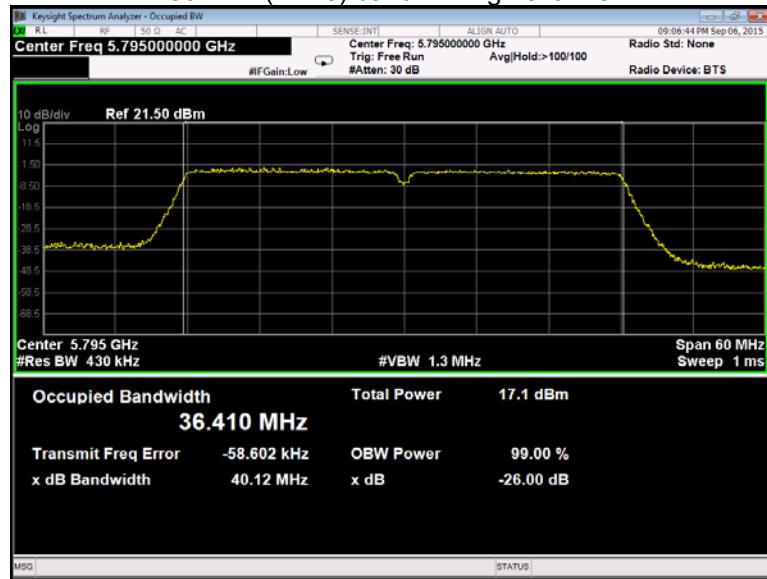
## 802.11n(HT20) band IV High channel



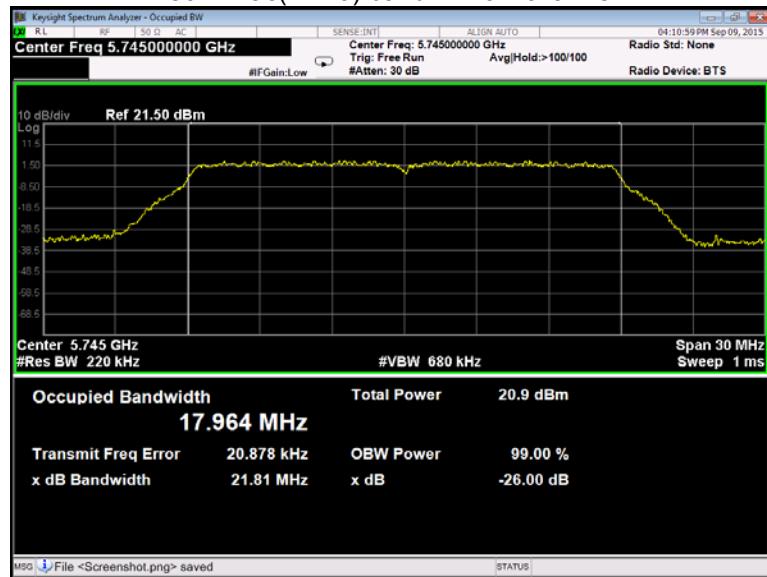
## 802.11n(HT40) band IV Low channel



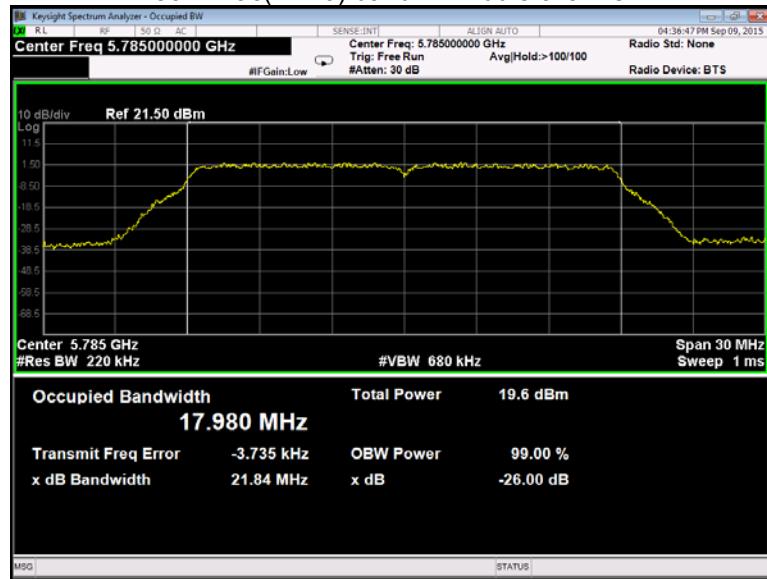
## 802.11n(HT40) band IV High channel



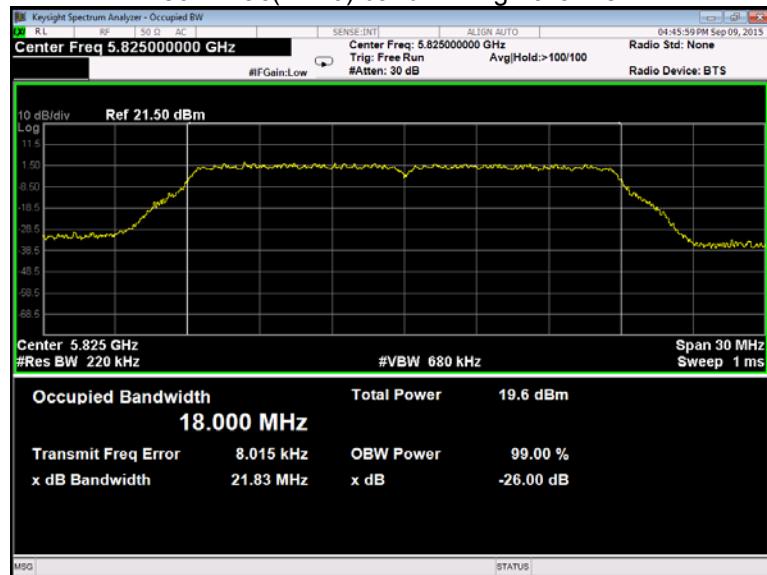
## 802.11ac(HT20) band IV Low channel



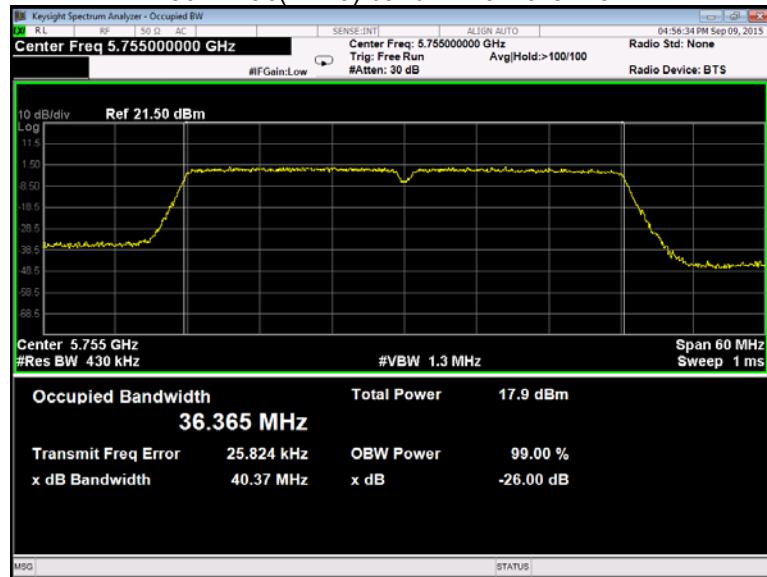
## 802.11ac(HT20) band IV Middle channel



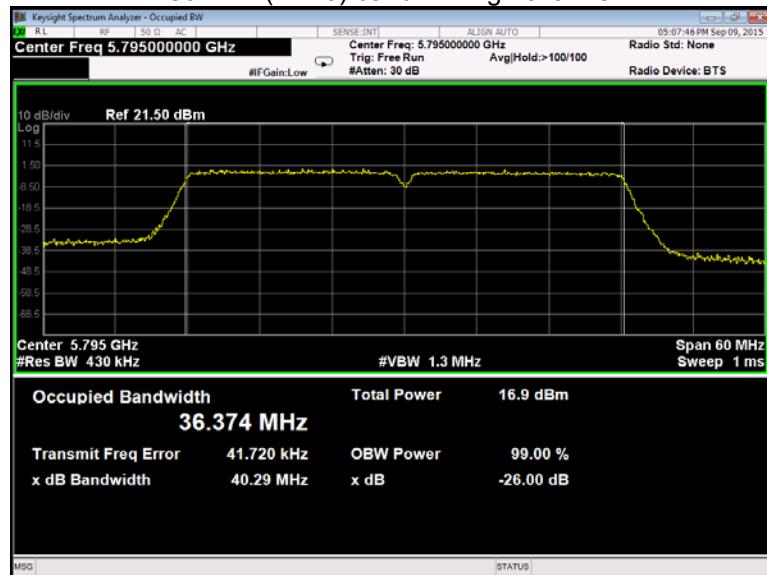
## 802.11ac(HT20) band IV High channel



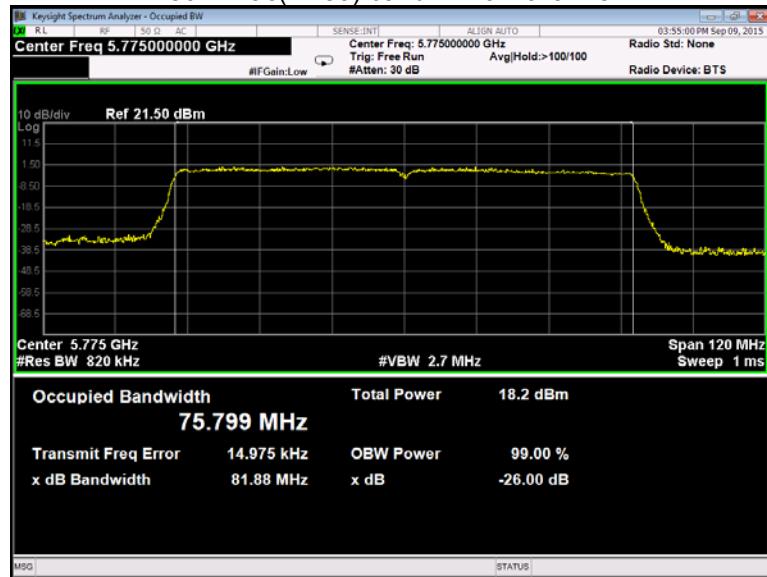
## 802.11ac(HT40) band IV Low channel



## 802.11n(HT40) band IV High channel

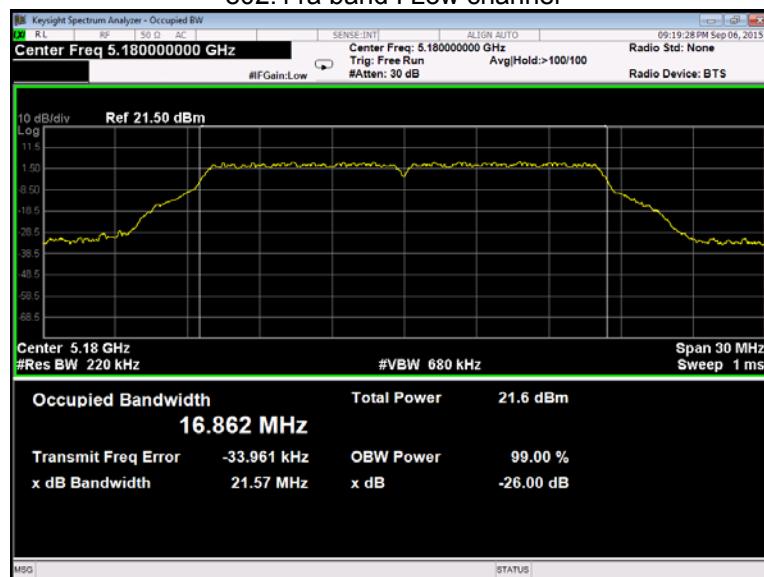


## 802.11ac(HT80) band IV Low channel

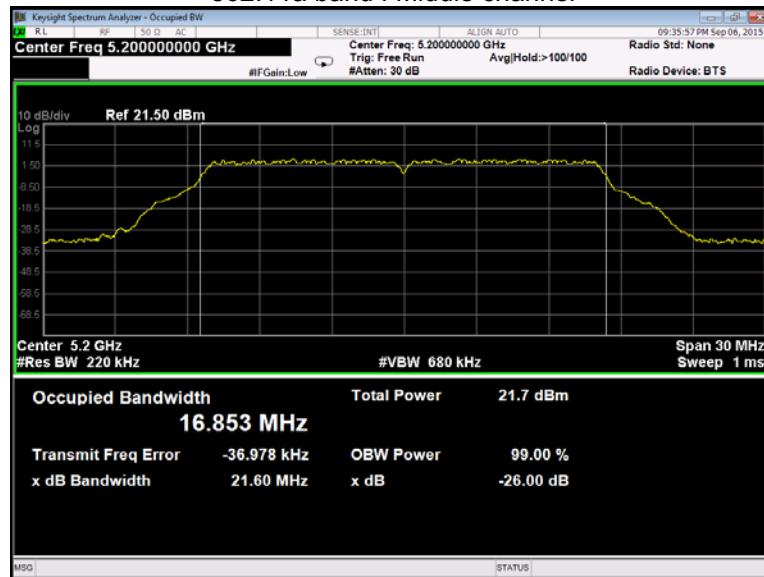


**ANT1**

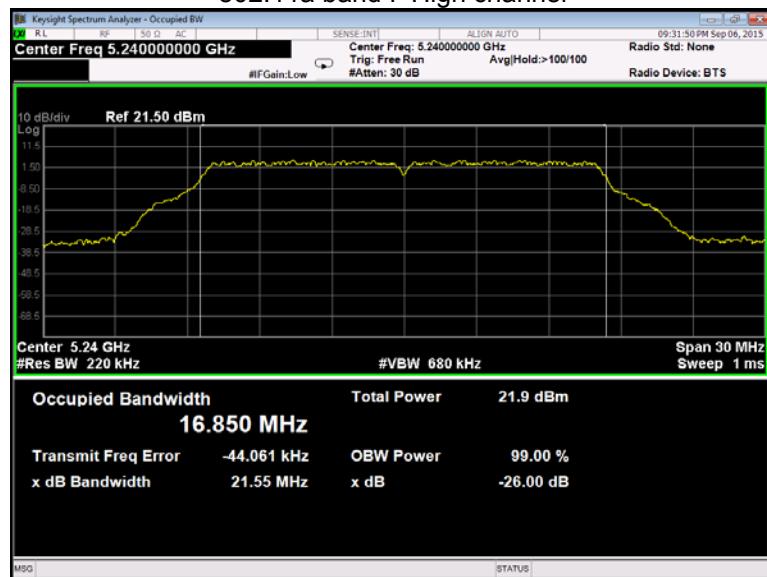
## 802.11a band I Low channel



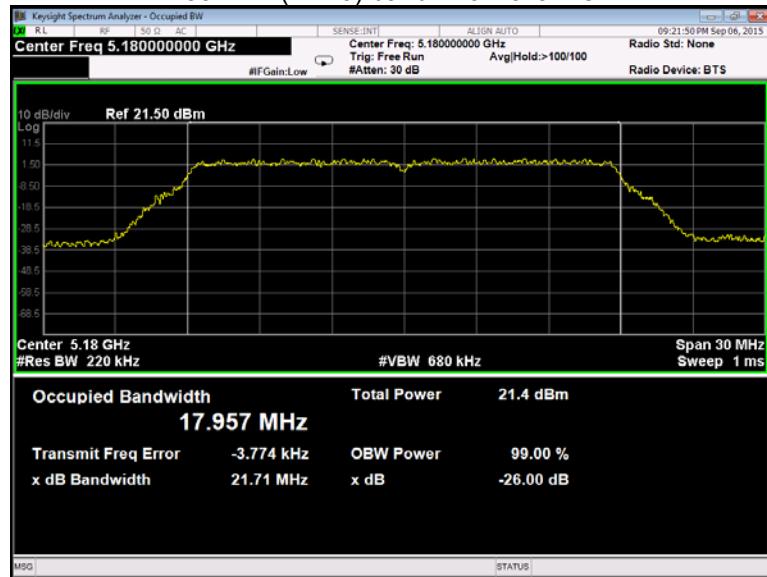
## 802.11a band I Middle channel



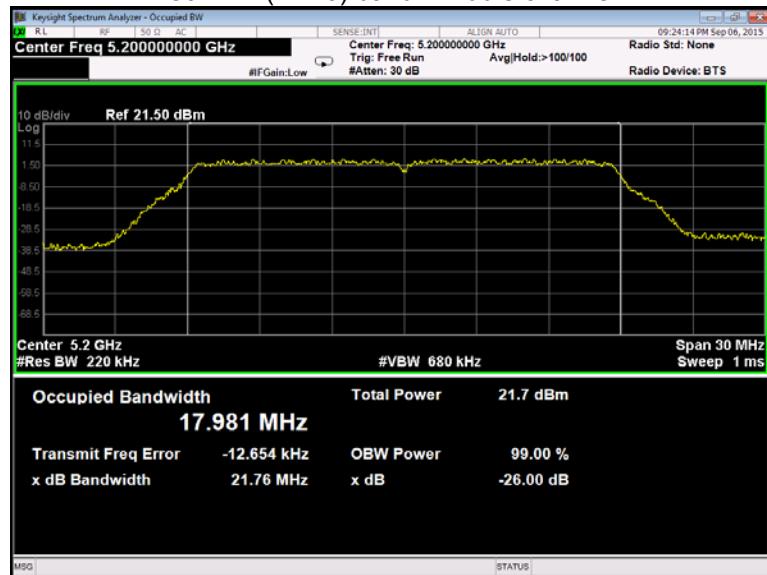
## 802.11a band I High channel



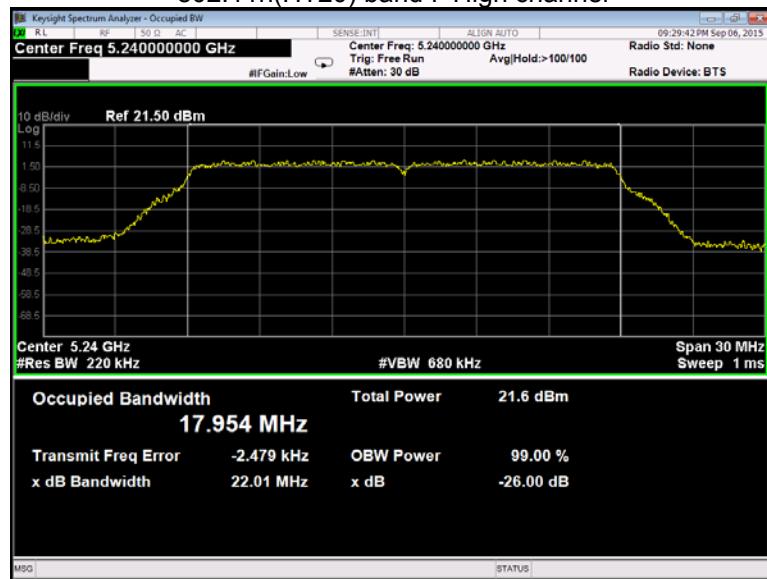
## 802.11n(HT20) band I Low channel

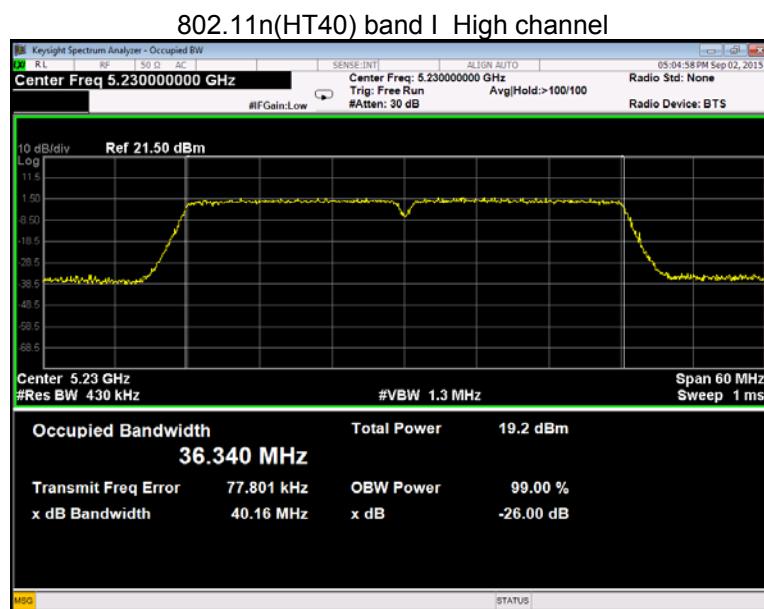
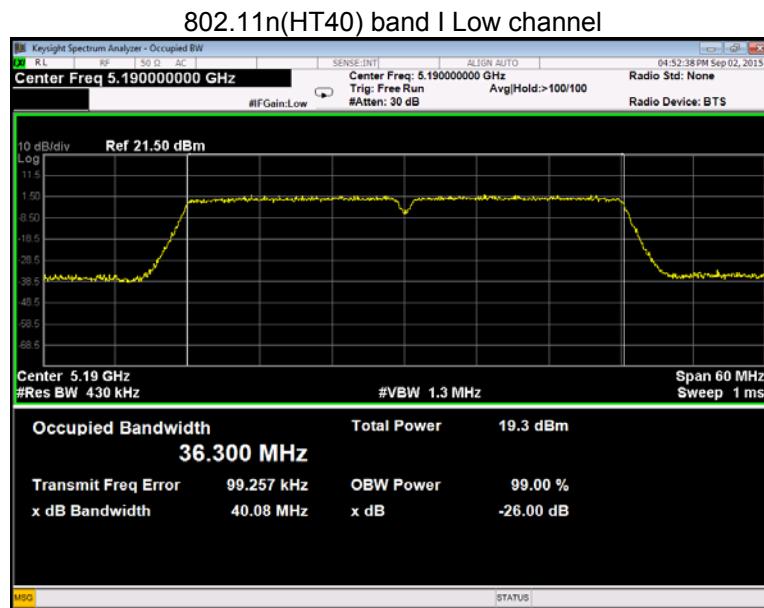


## 802.11n(HT20) band I Middle channel

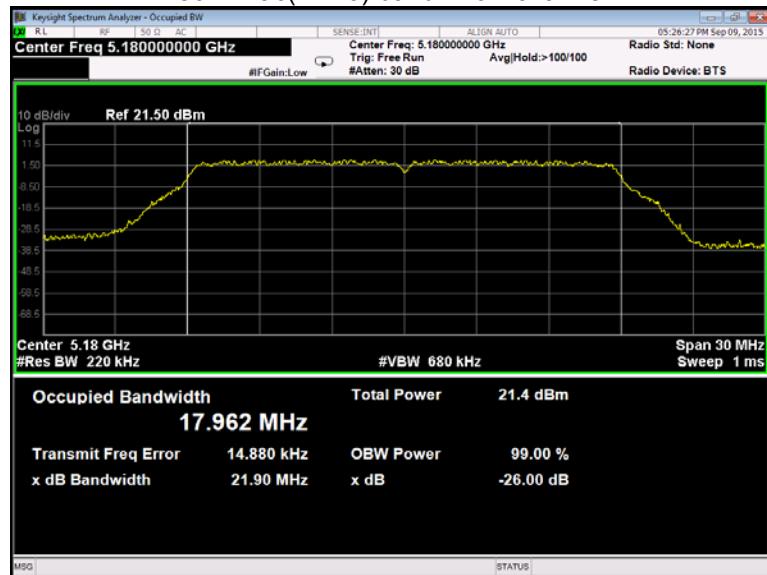


## 802.11n(HT20) band I High channel

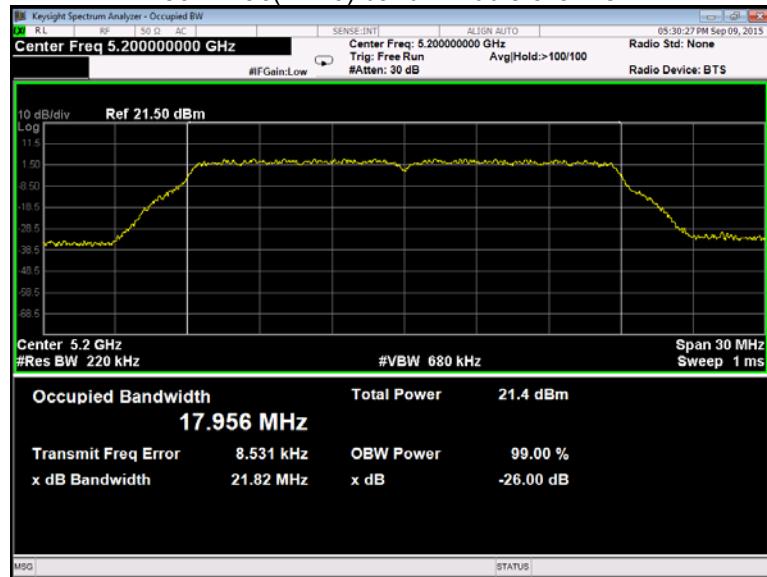




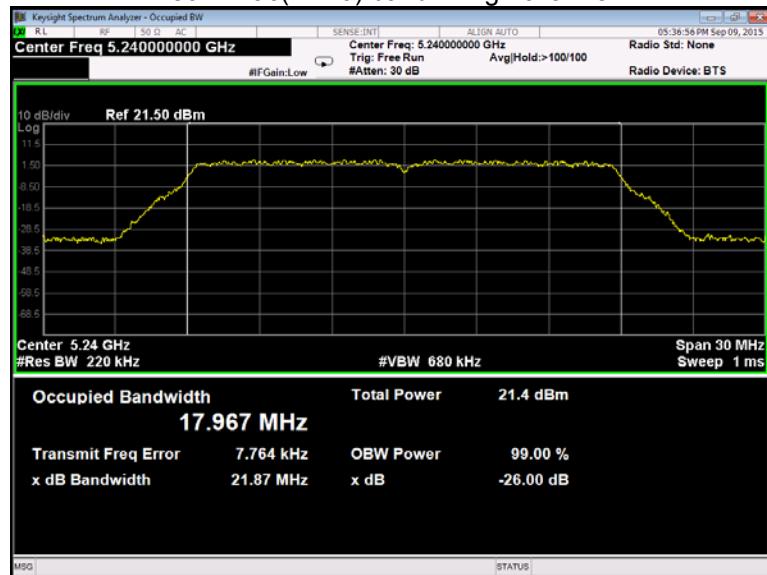
## 802.11ac(HT20) band I Low channel



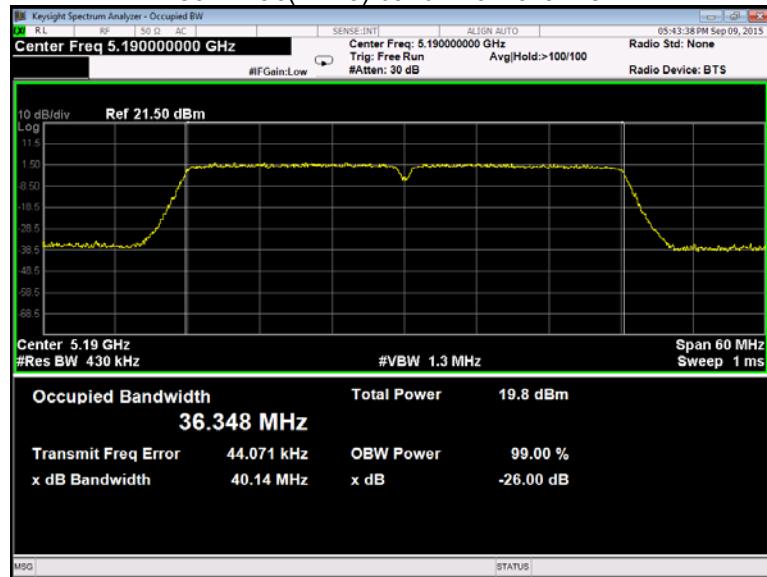
## 802.11ac(HT20) band I Middle channel



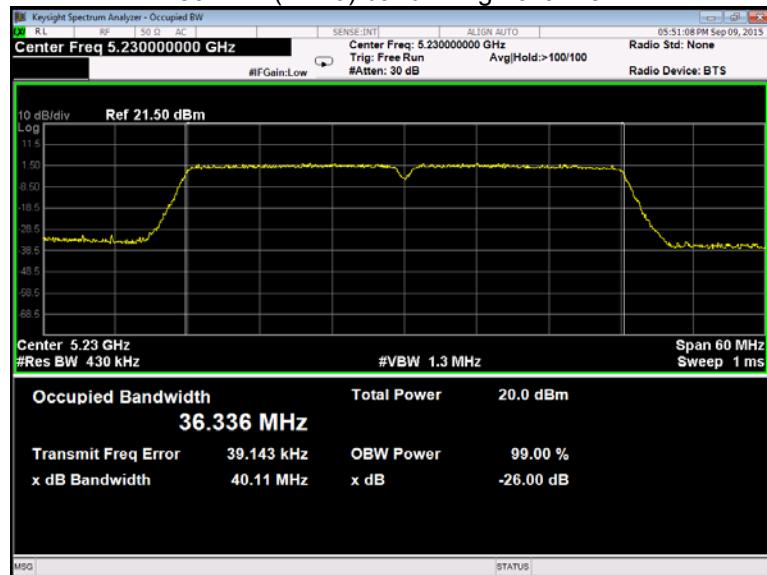
## 802.11ac(HT20) band I High channel



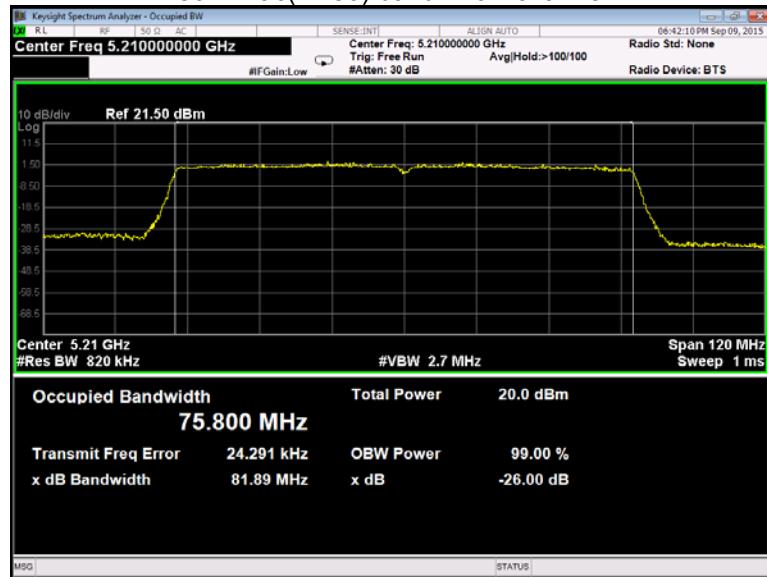
## 802.11ac(HT40) band I Low channel



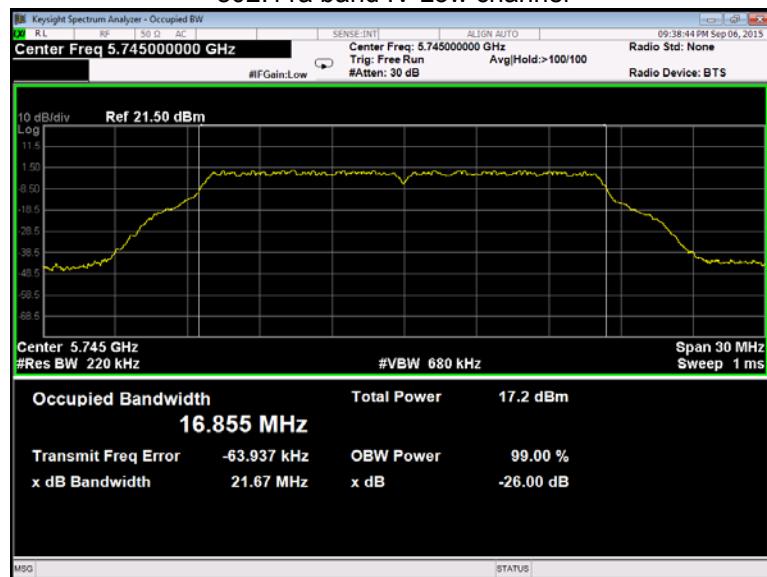
## 802.11n(HT40) band I High channel



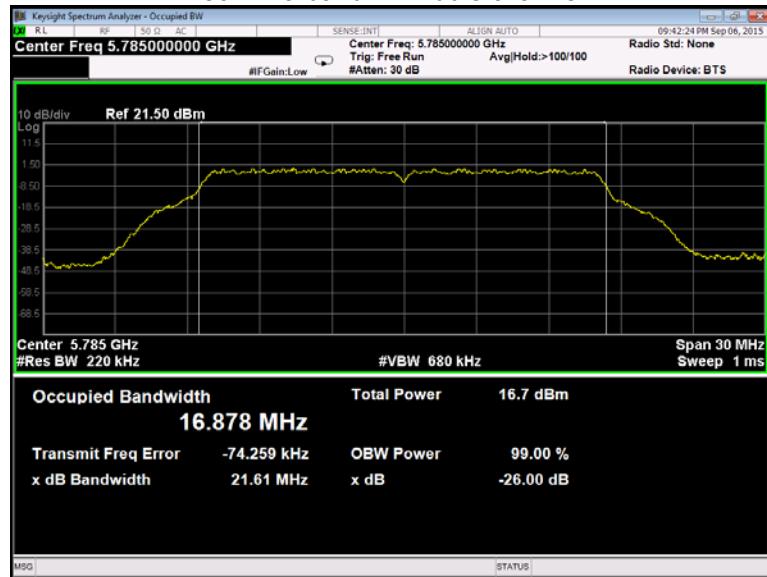
## 802.11ac(HT80) band I Low channel



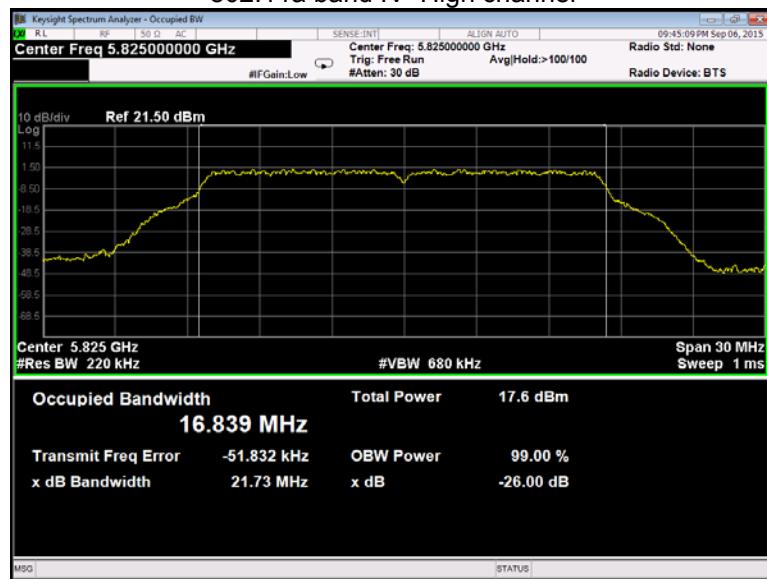
## 802.11a band IV Low channel



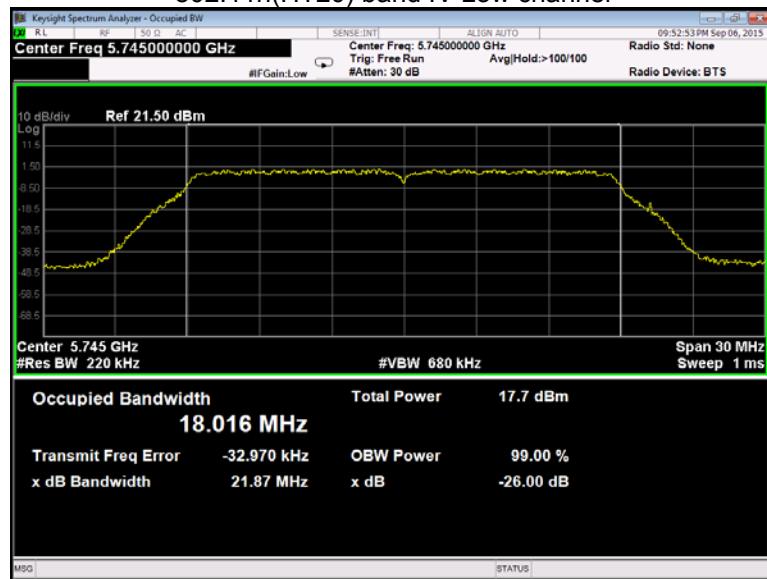
## 802.11a band IV Middle channel



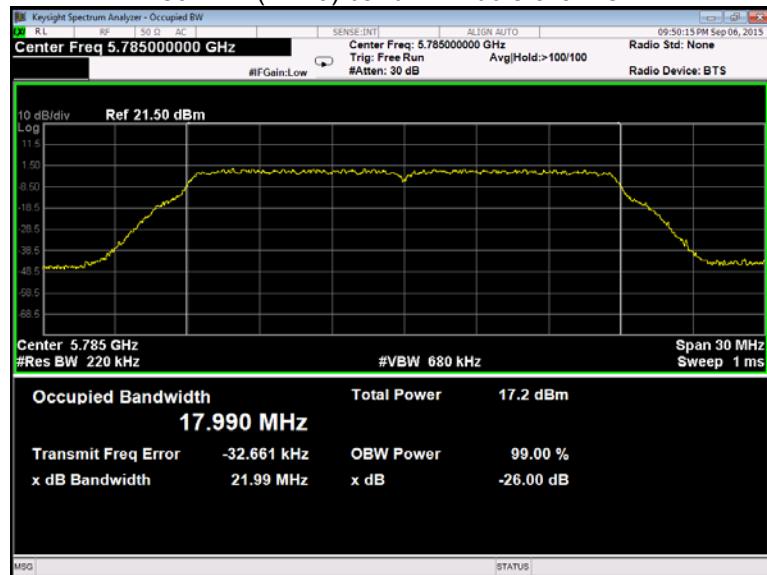
## 802.11a band IV High channel



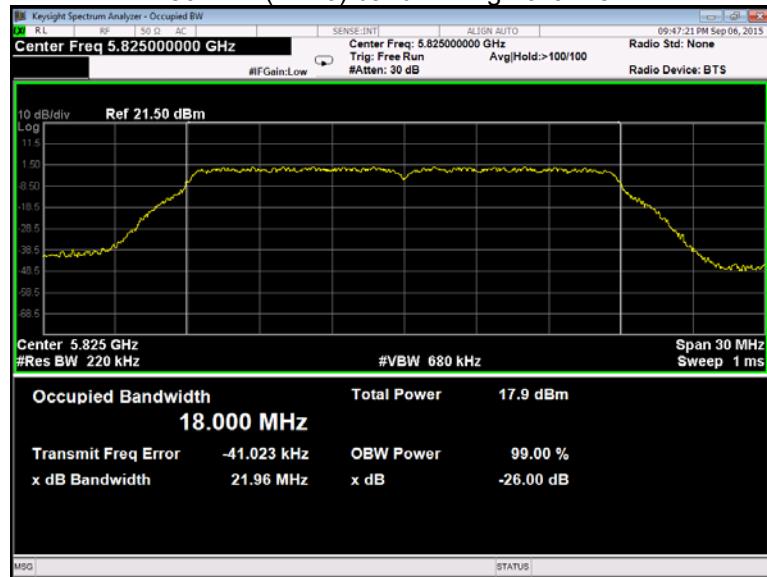
## 802.11n(HT20) band IV Low channel



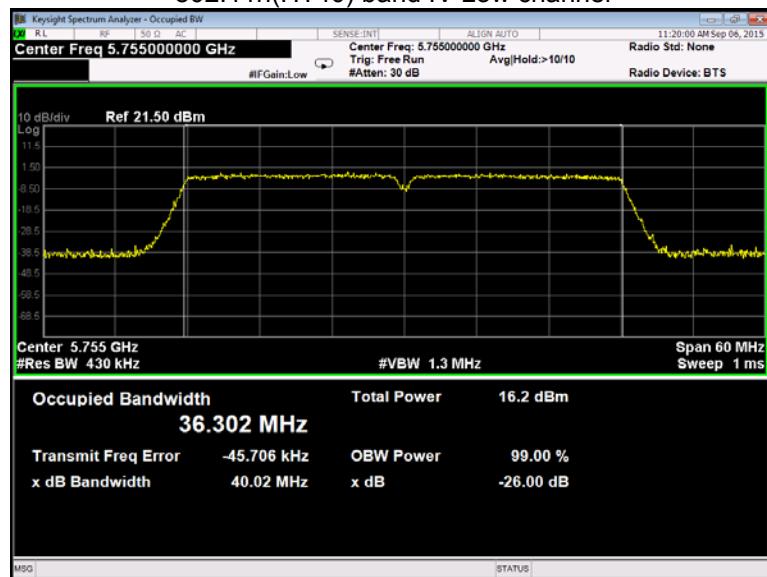
## 802.11n(HT20) band IV Middle channel



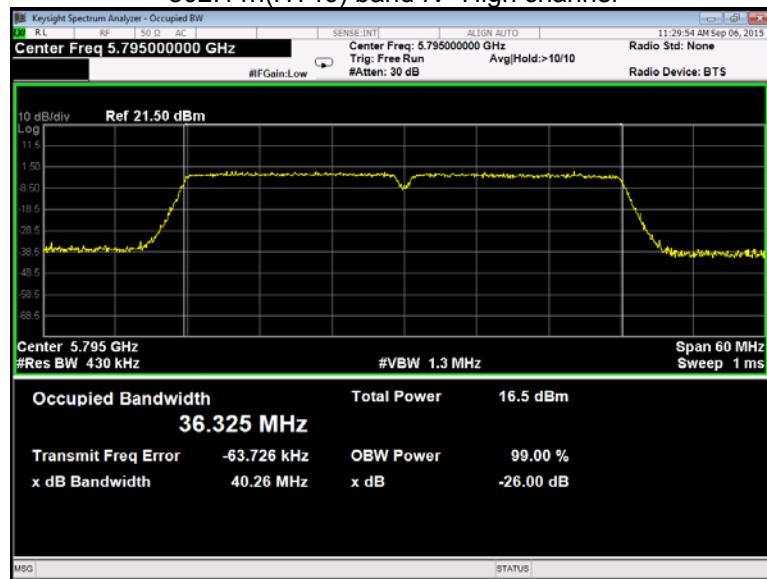
## 802.11n(HT20) band IV High channel



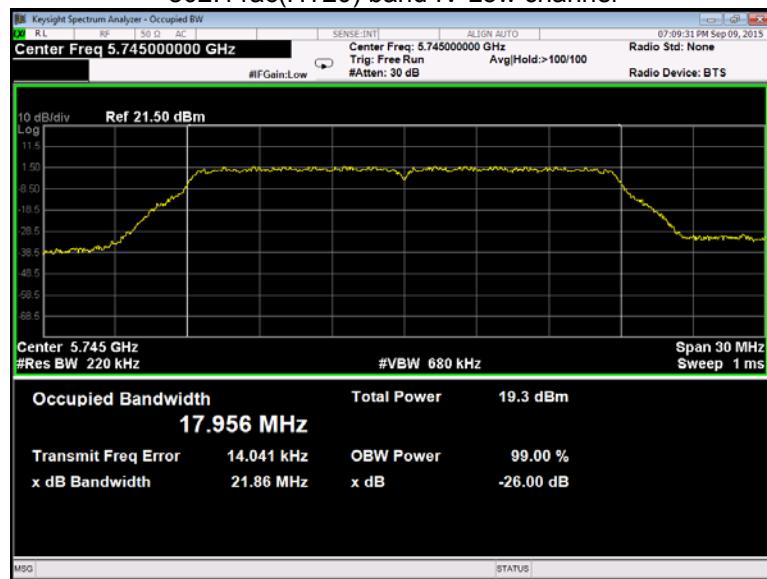
## 802.11n(HT40) band IV Low channel



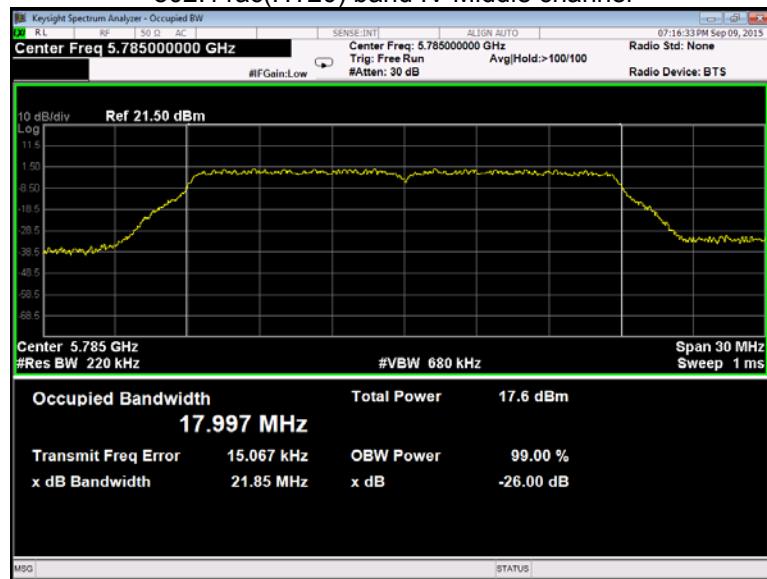
## 802.11n(HT40) band IV High channel



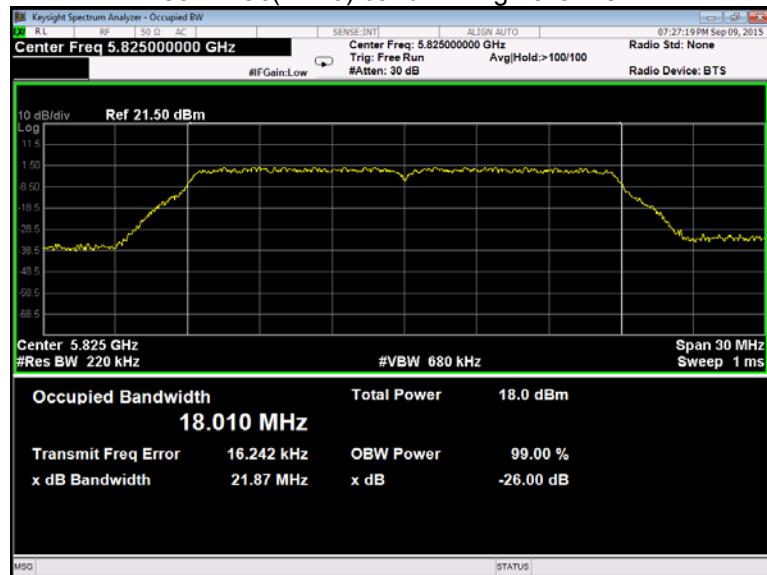
## 802.11ac(HT20) band IV Low channel



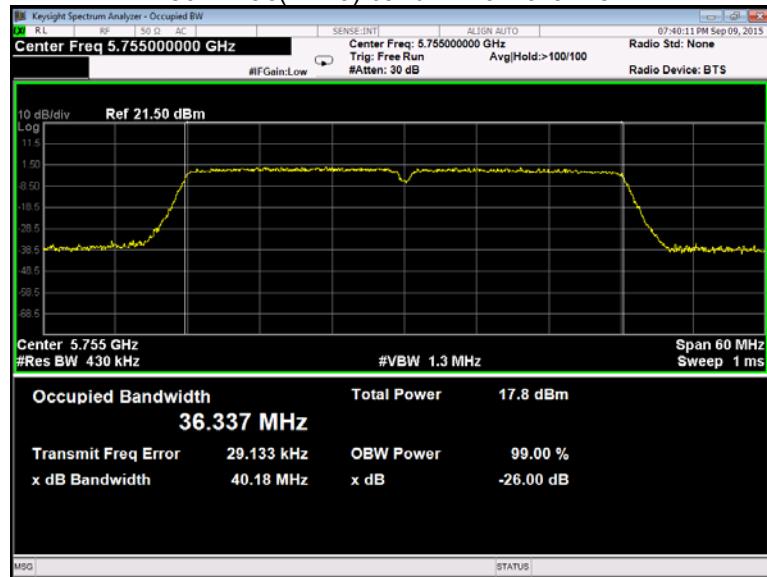
## 802.11ac(HT20) band IV Middle channel



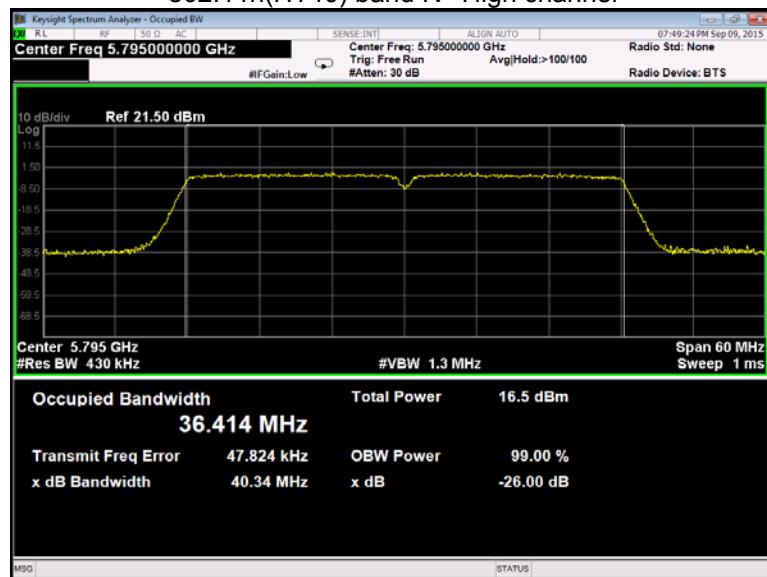
## 802.11ac(HT20) band IV High channel



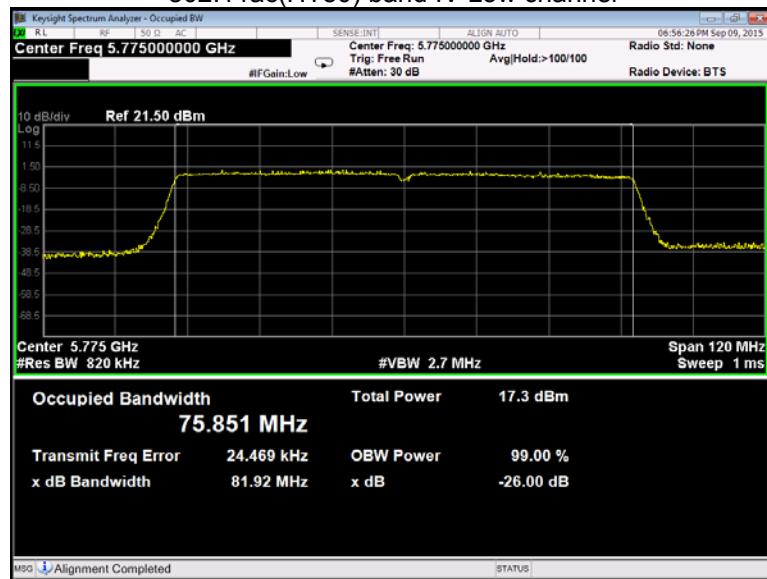
## 802.11ac(HT40) band IV Low channel



## 802.11n(HT40) band IV High channel



## 802.11ac(HT80) band IV Low channel



## 12 Conducted Output Power

Test Requirement:	FCC CFR47 Part 15 Section 15.407(a) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v01 Section E
Test Limit:	30dBm
Test Result:	PASS Conducted output power= measurement power+10log(1/x)
Remark:	X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power

### 12.1 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 = 1 MHz. VBW = 3 MHz. Sweep = auto; Detector Function = Peak, Set the span to fully encompass the DTS bandwidth.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

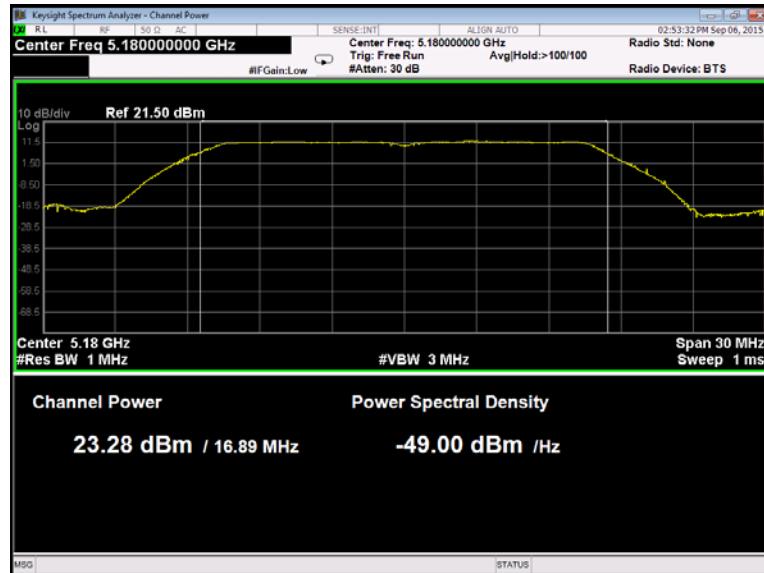
## 12.2 Test Result :

Band	Operation mode	CH	Conducted Output Power (dBm)		
			ANT0	ANT1	Total
Band I	802.11a	Low	23.28	22.60	/
		Middle	23.29	22.28	/
		High	23.58	22.75	/
	802.11n(HT20)	Low	22.84	22.53	25.70
		Middle	23.11	22.37	25.77
		High	23.09	22.57	25.85
	802.11n(HT40)	Low	22.01	18.75	23.69
		Middle	/	/	/
		High	22.25	18.45	23.76
	802.11ac(HT20)	Low	19.74	22.18	24.14
		Middle	20.08	22.33	24.36
		High	20.55	22.19	24.46
Band IV	802.11ac(HT40)	Low	20.15	20.47	23.32
		Middle	/	/	/
		High	20.61	20.81	23.72
	802.11ac(HT80)	Low	20.00	20.13	23.08
		Middle	/	/	/
		High	/	/	/
	802.11a	Low	22.64	18.37	24.02
		Middle	22.29	17.84	23.62
		High	22.64	18.62	24.09
	802.11n(HT20)	Low	22.53	18.63	24.01
		Middle	22.14	17.90	23.53
		High	22.63	18.75	24.12
	802.11n(HT40)	Low	18.52	15.58	20.30
		Middle	/	/	/
		High	18.14	15.38	19.99
Band IV	802.11ac(HT20)	Low	21.63	20.18	23.98
		Middle	20.51	18.84	22.77
		High	20.62	19.01	22.90
	802.11ac(HT40)	Low	18.76	18.76	21.77
		Middle	/	/	/
		High	17.84	17.27	20.57
	802.11ac(HT80)	Low	18.90	18.01	21.49
		Middle	/	/	/
		High	/	/	/

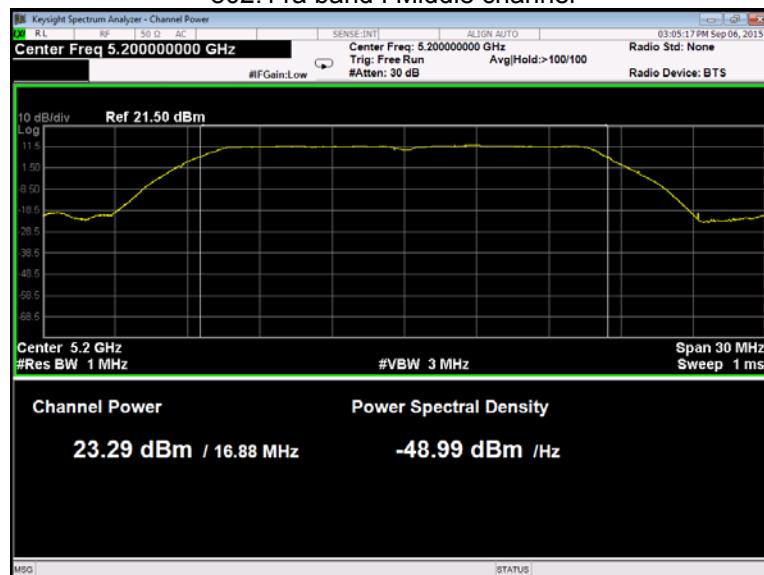
Test result plots shown as follows:

### ANT0

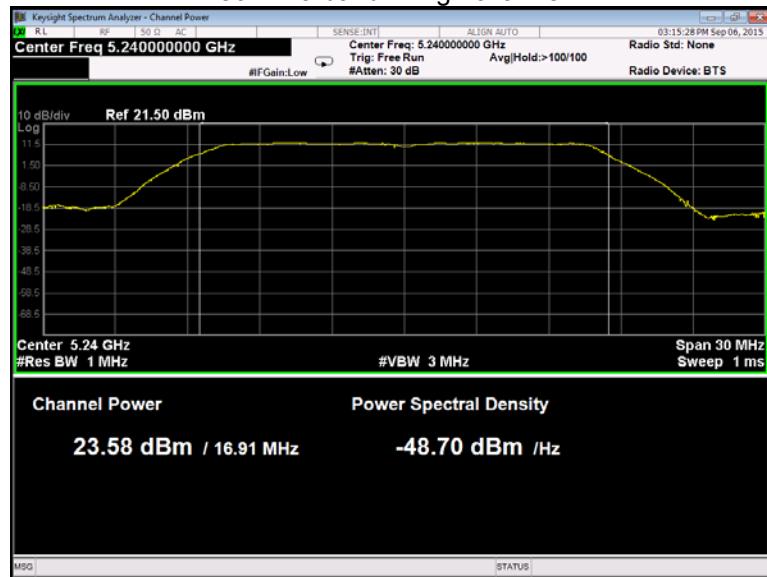
#### 802.11a band I Low channel



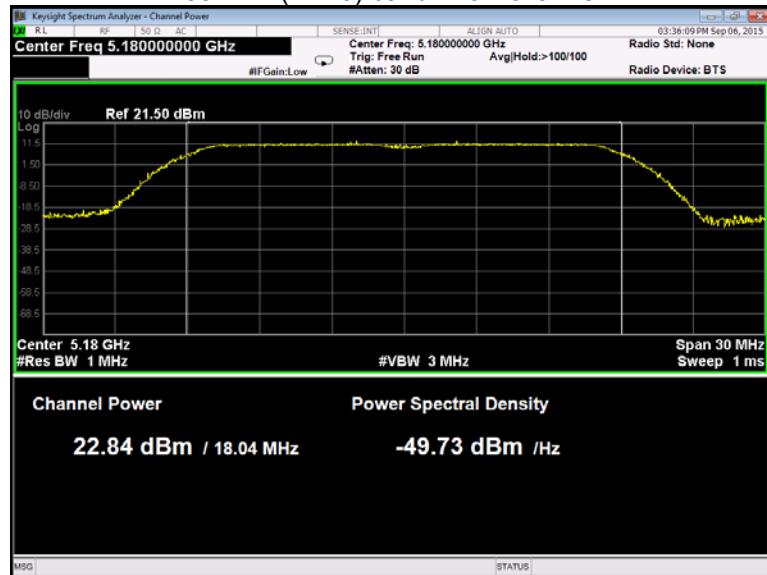
#### 802.11a band I Middle channel

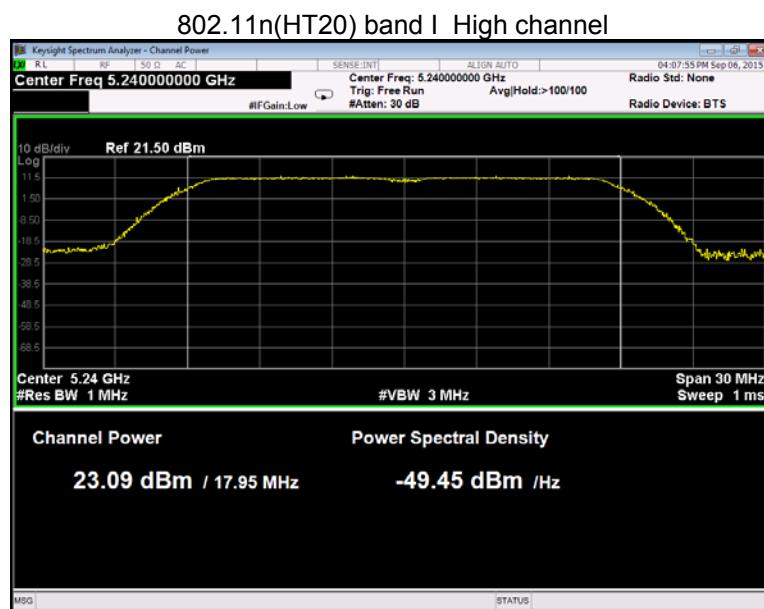
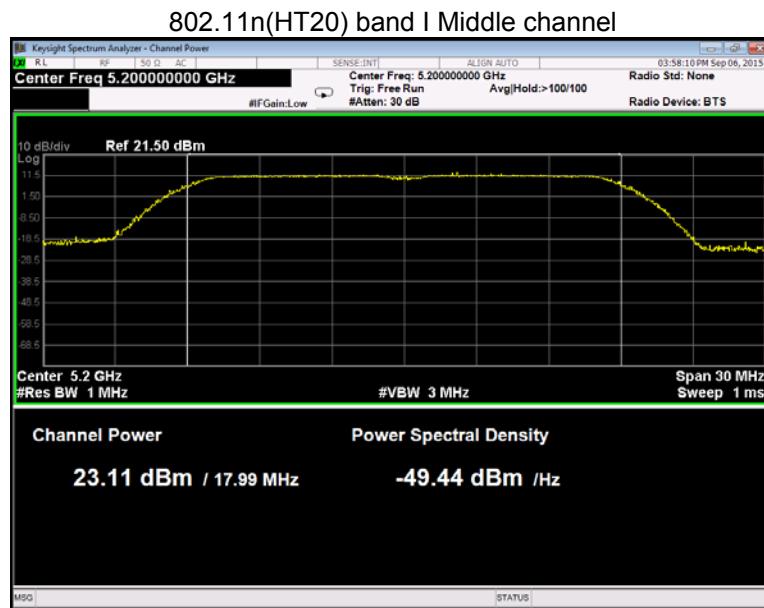


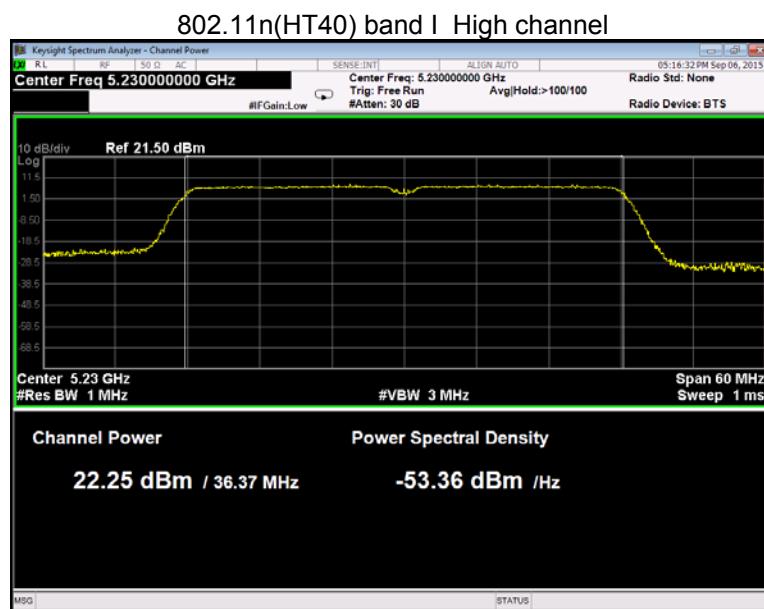
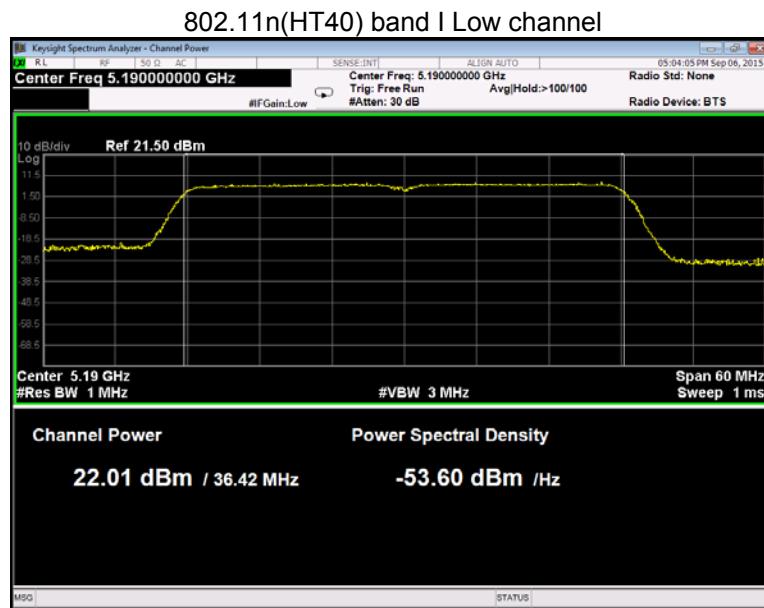
## 802.11a band I High channel



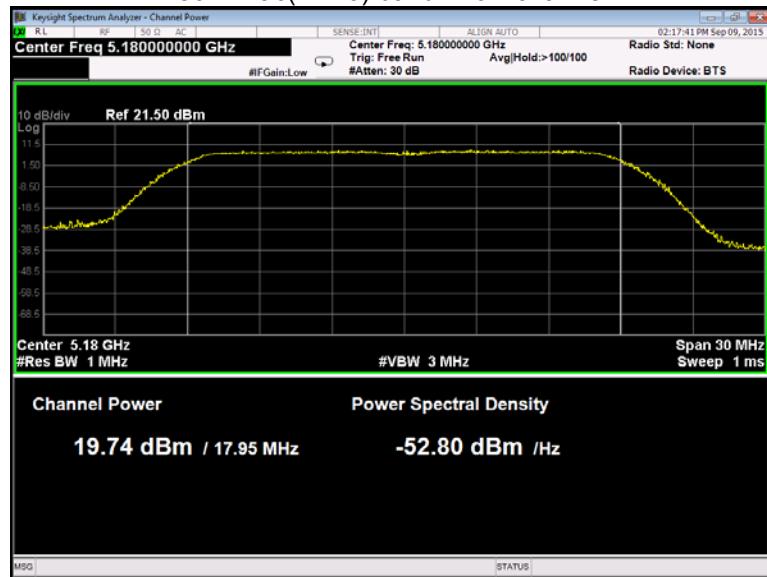
## 802.11n(HT20) band I Low channel



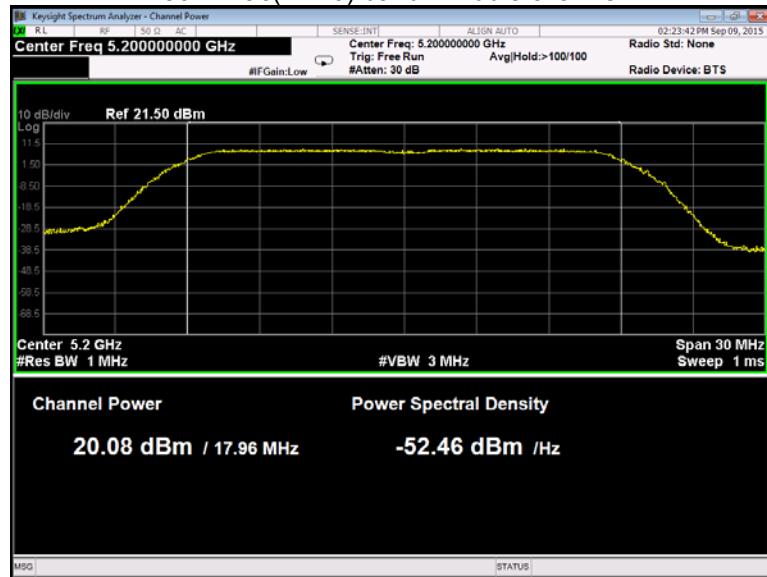




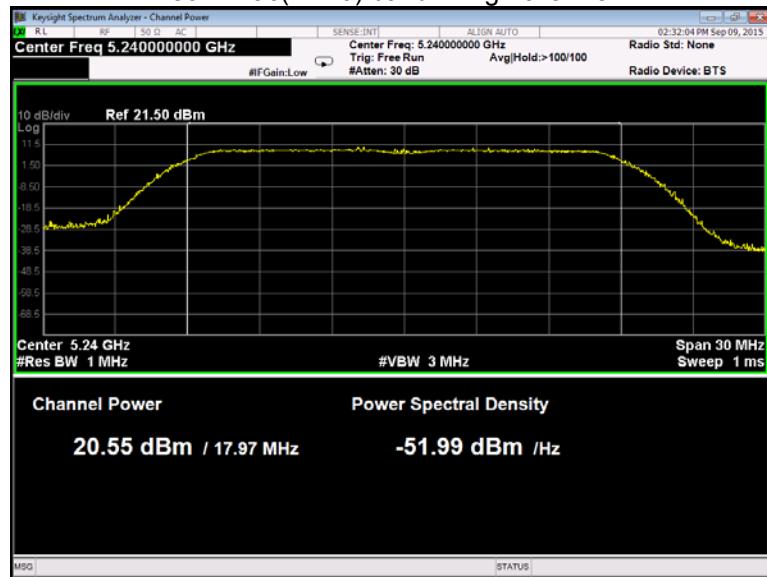
## 802.11ac(HT20) band I Low channel



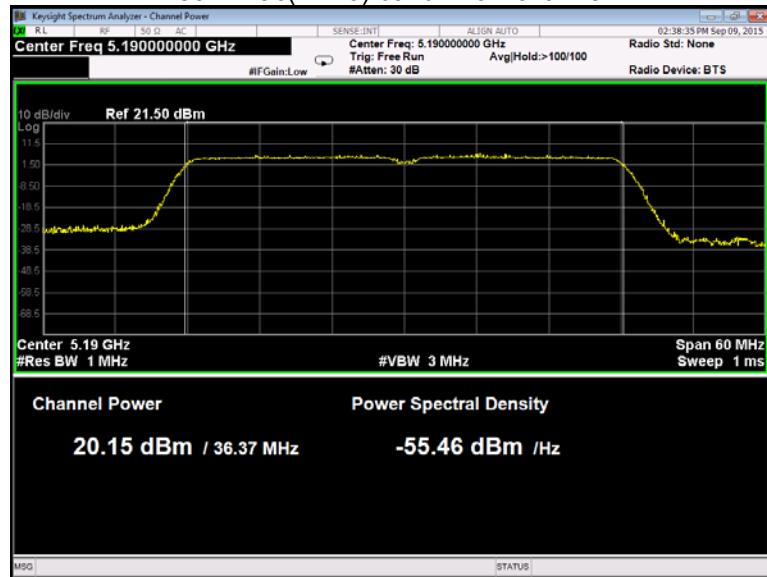
## 802.11ac(HT20) band I Middle channel



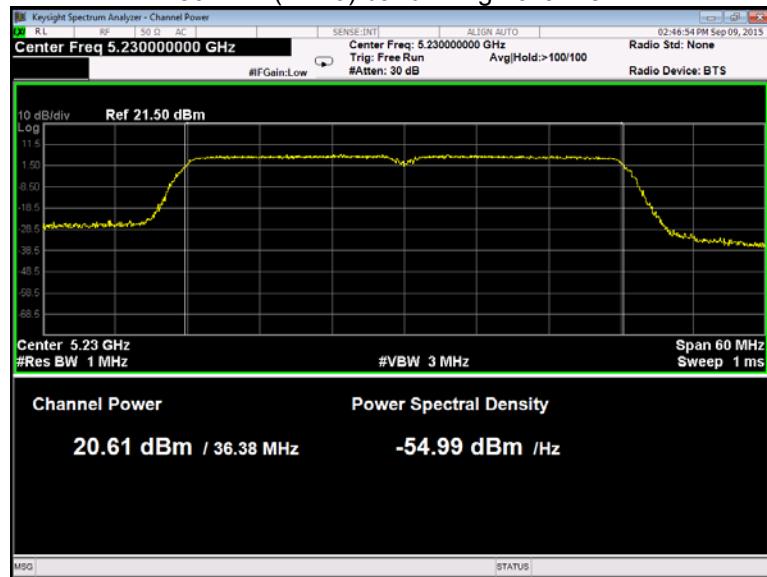
## 802.11ac(HT20) band I High channel



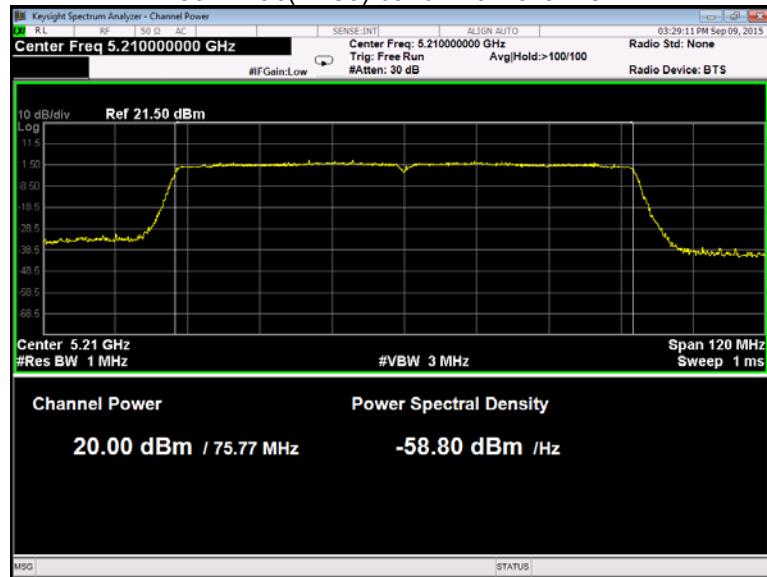
## 802.11ac(HT40) band I Low channel



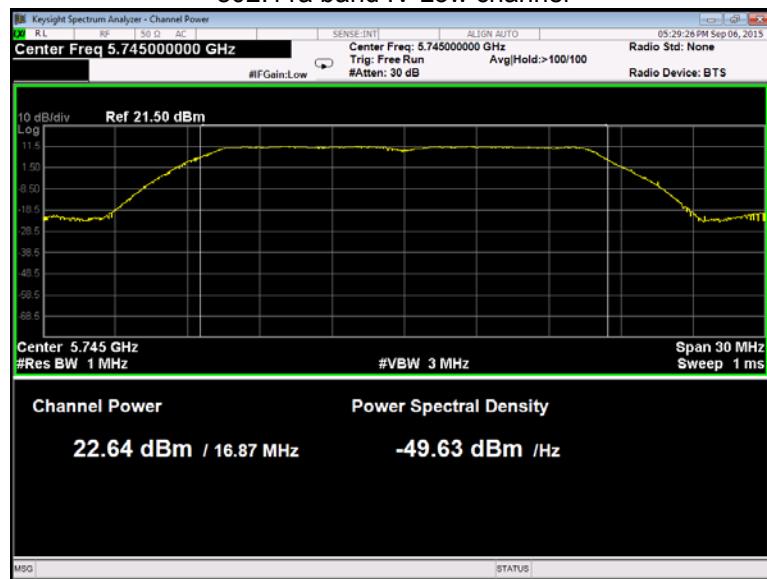
## 802.11n(HT40) band I High channel



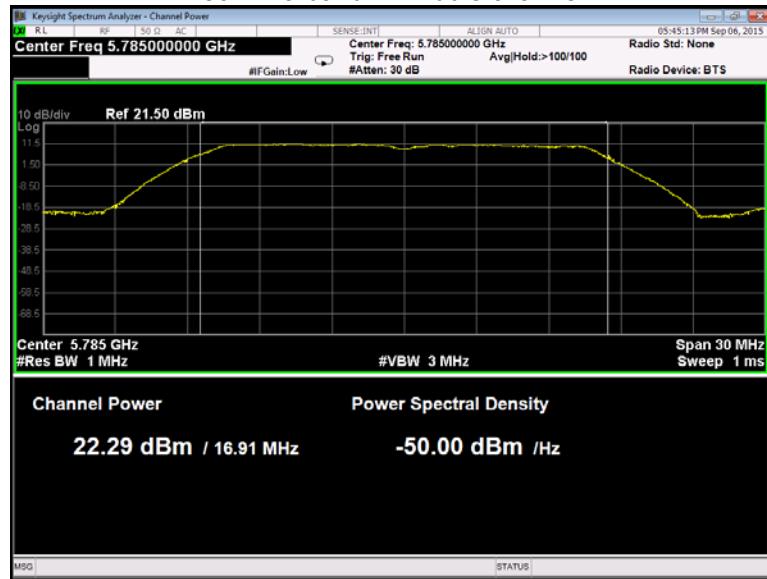
## 802.11ac(HT80) band I Low channel



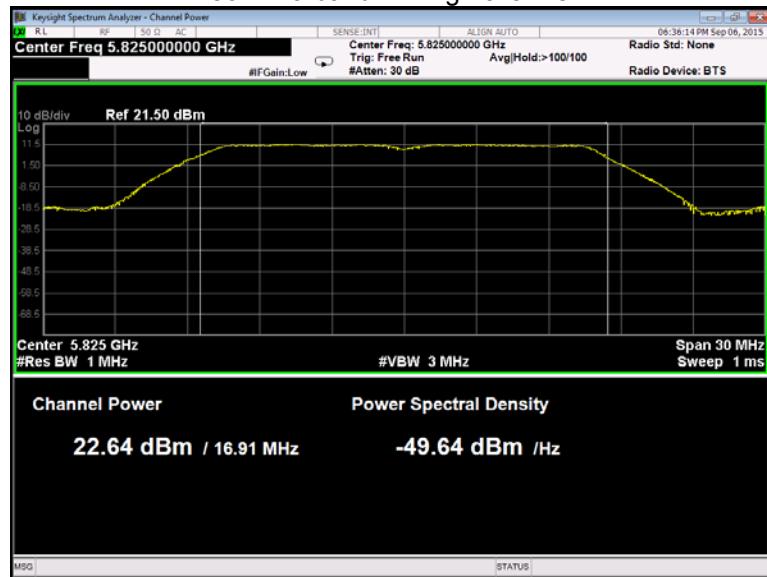
## 802.11a band IV Low channel



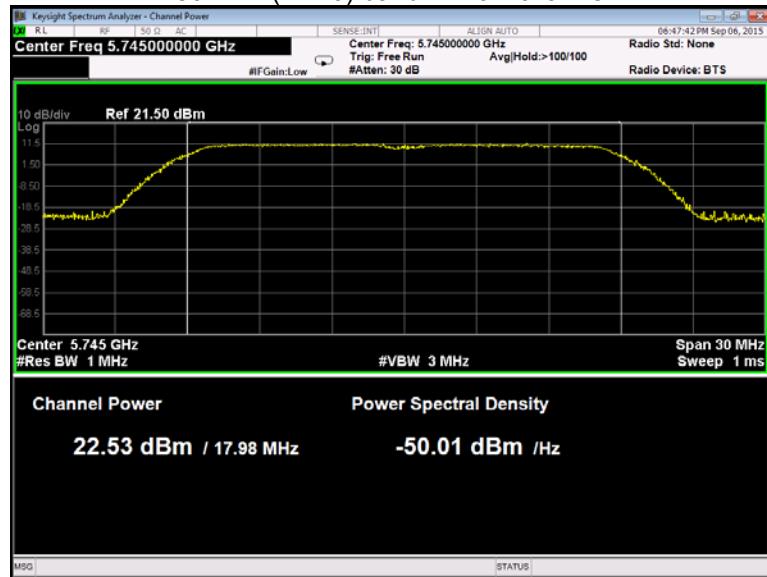
## 802.11a band IV Middle channel



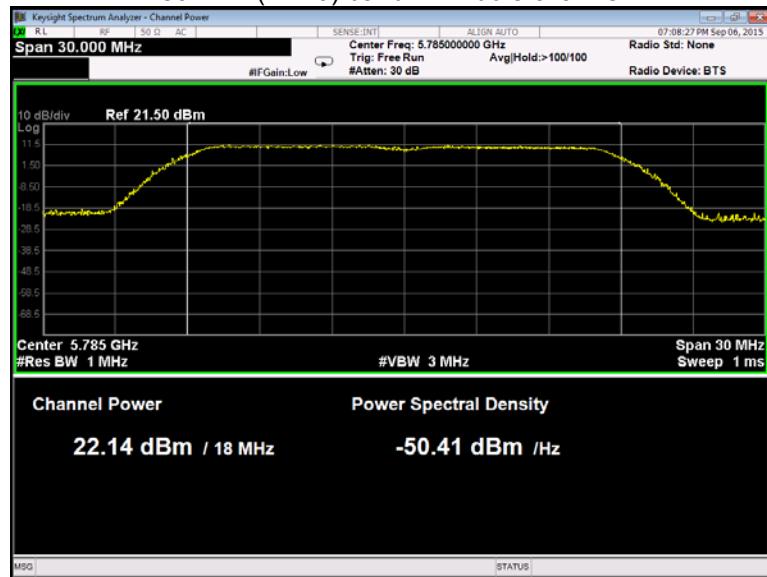
## 802.11a band IV High channel



## 802.11n(HT20) band IV Low channel



## 802.11n(HT20) band IV Middle channel



## 802.11n(HT20) band IV High channel

