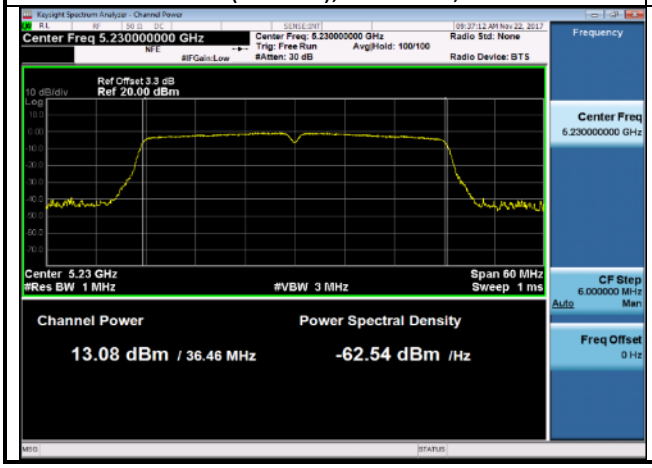
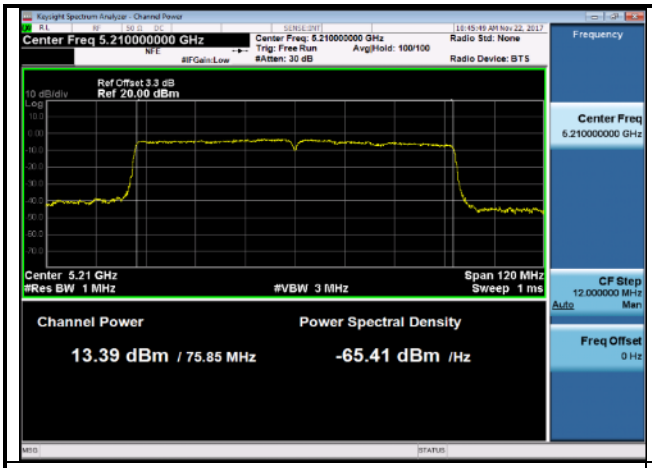
U-NII-1 Output Power： 802.11n(20MHz),5240MHz,Ant1	U-NII-1 Output Power： 802.11n(40MHz),5190MHz,Ant1
	
U-NII-1 Output Power： 802.11n(40MHz),5230MHz,Ant1	
	

ANT 0:

U-NII-1 Output Power： 802.11ac(80MHz),5210MHz,Ant1	U-NII-1 Output Power： 802.11n(20MHz),5180MHz,Ant1

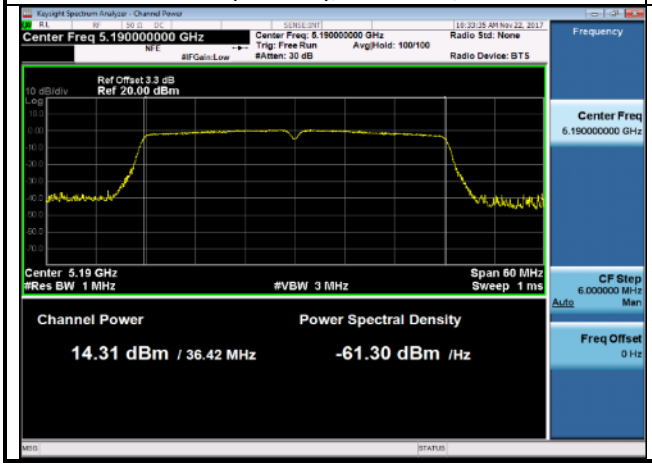


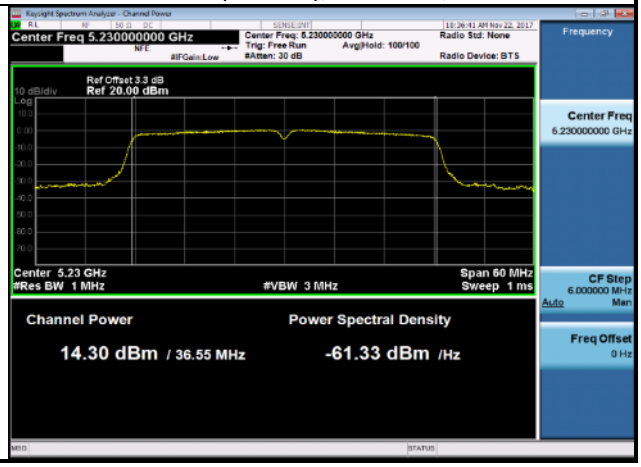
U-NII-1 Output Power：
802.11n(20MHz),5220MHz,Ant1

U-NII-1 Output Power：
802.11n(20MHz),5240MHz,Ant1

U-NII-1 Output Power：
802.11n(40MHz),5190MHz,Ant1

U-NII-1 Output Power：
802.11n(40MHz),5230MHz,Ant1





5. Power spectral density

5.1 Test Data

ANT 1:

U-NII-1 AVGSA Power Spectral Density						
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11n(20MHz)	5180	Ant1	97.31	0.64	-	-
802.11n(20MHz)	5220	Ant1	97.31	0.44	-	-
802.11n(20MHz)	5240	Ant1	97.31	0.51	-	-
802.11n(40MHz)	5190	Ant1	95.01	-0.02	-	-
802.11n(40MHz)	5230	Ant1	94.74	-0.15	-	-
802.11ac(80MHz)	5210	Ant1	84.18	-3.75	-	-
802.11a(20MHz)	5180	Ant1	97.48	4.17	11	Pass
802.11a(20MHz)	5220	Ant1	97.48	3.83	11	Pass
802.11a(20MHz)	5240	Ant1	97.48	4.04	11	Pass

ANT 0:

U-NII-1 AVGSA Power Spectral Density						
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11n(20MHz)	5180	Ant0	97.38	1.02	-	-
802.11n(20MHz)	5220	Ant0	97.38	1.17	-	-
802.11n(20MHz)	5240	Ant0	97.38	0.89	-	-
802.11n(40MHz)	5190	Ant0	94.88	1.19	-	-
802.11n(40MHz)	5230	Ant0	94.88	1.16	-	-
802.11ac(80MHz)	5210	Ant0	84.18	-2.72	-	-

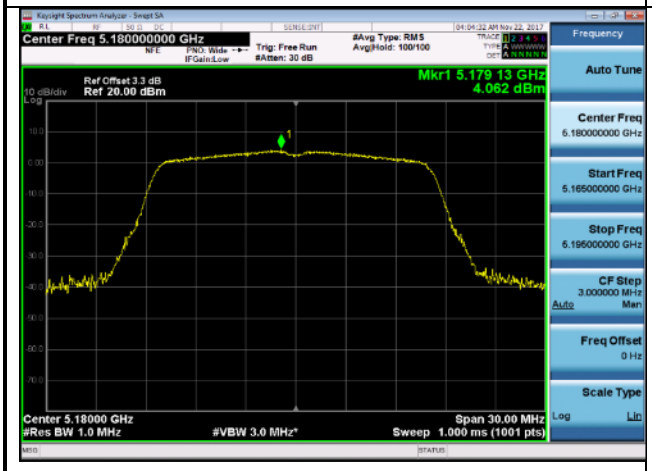
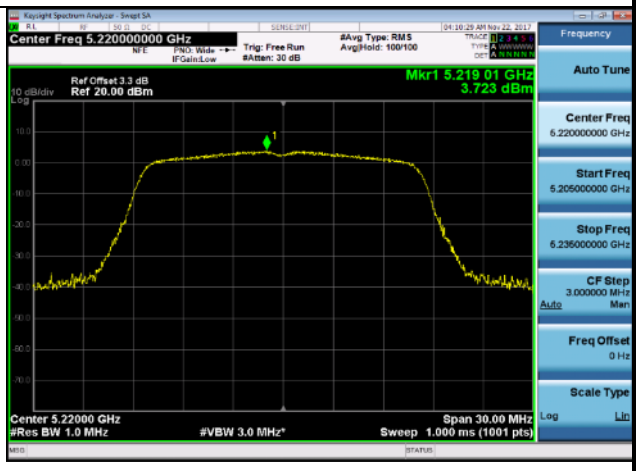
MIMO mode:

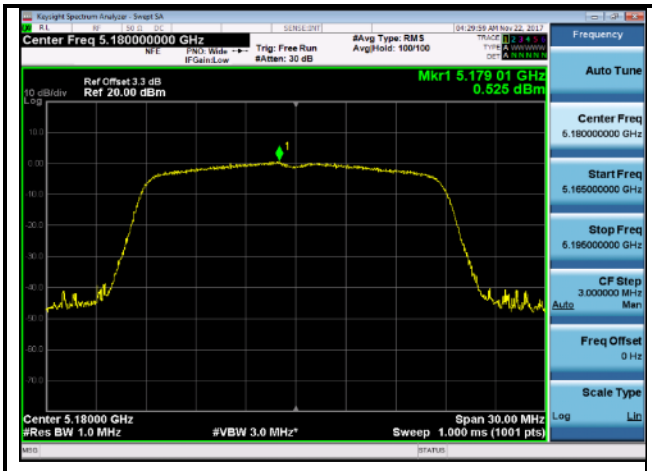
U-NII-1 AVGSA Power Spectral Density					
Mode	Test Frequency (MHz)	Ant	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11n(20MHz)	5180	0+1	3.84	11	Pass
802.11n(20MHz)	5220	0+1	3.83	11	Pass

802.11n(20MHz)	5240	0+1	3.71	11	Pass
802.11n(40MHz)	5190	0+1	3.64	11	Pass
802.11n(40MHz)	5230	0+1	3.56	11	Pass
802.11ac(80MHz)	5210	0+1	-0.19	11	Pass

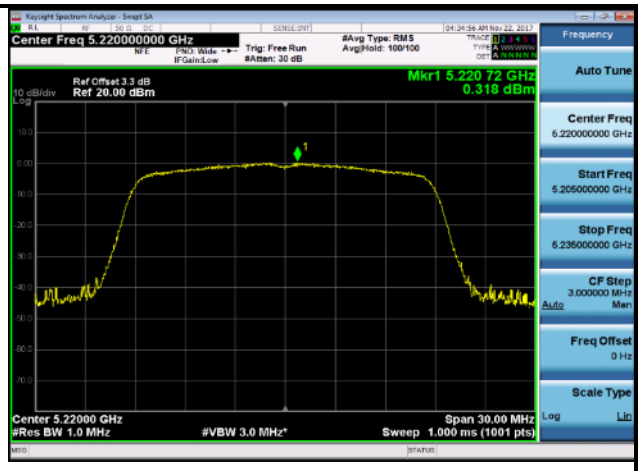
5.2 Test Plots

ANT 1:

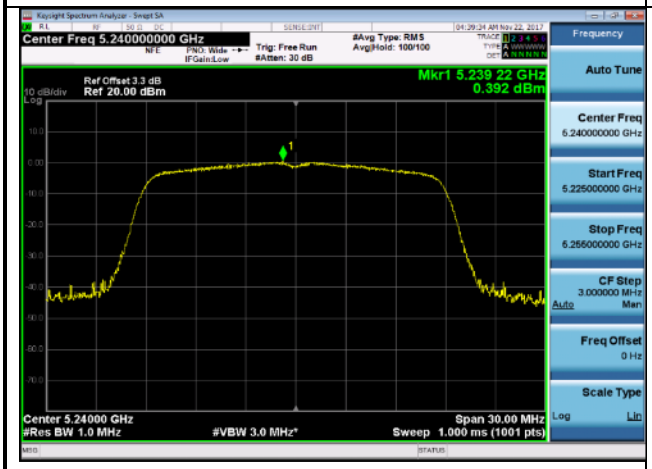
U-NII-1 Power spectral density： 802.11a(20MHz),5180MHz,Ant1	U-NII-1 Power spectral density： 802.11a(20MHz),5220MHz,Ant1
	
U-NII-1 Power spectral density： 802.11a(20MHz),5240MHz,Ant1	U-NII-1 Power spectral density： 802.11ac(80MHz),5210MHz,Ant1
	
U-NII-1 Power spectral density： 802.11n(20MHz),5180MHz,Ant1	U-NII-1 Power spectral density： 802.11n(20MHz),5220MHz,Ant1

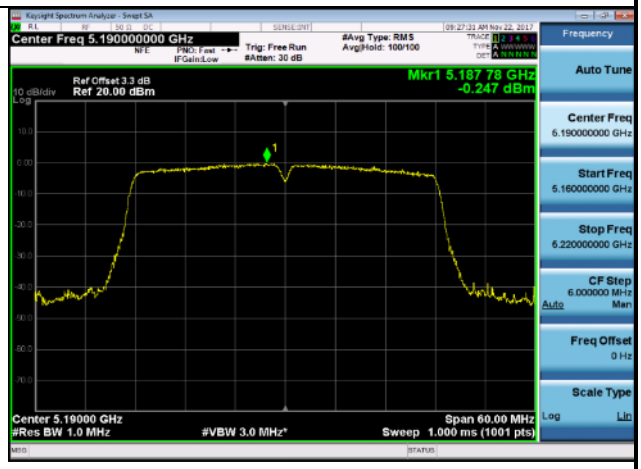


U-NII-1 Power spectral density：
802.11n(20MHz),5240MHz,Ant1

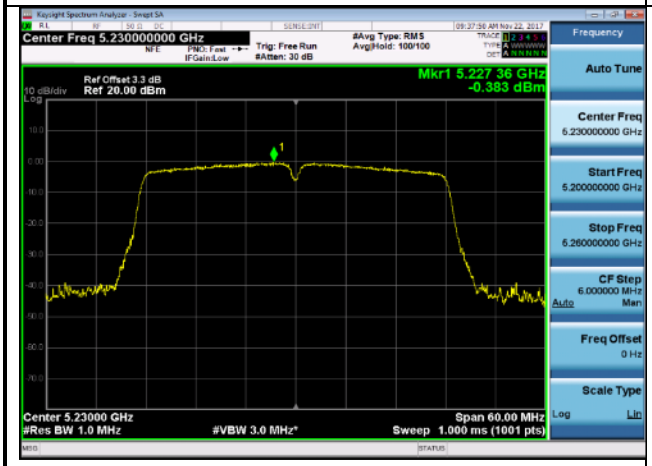


U-NII-1 Power spectral density：
802.11n(40MHz),5190MHz,Ant1

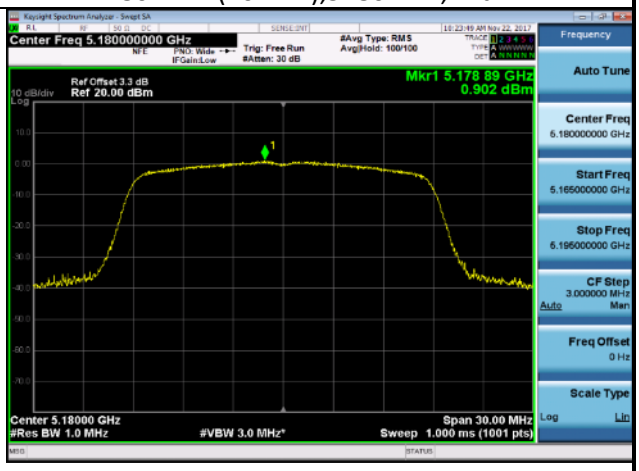
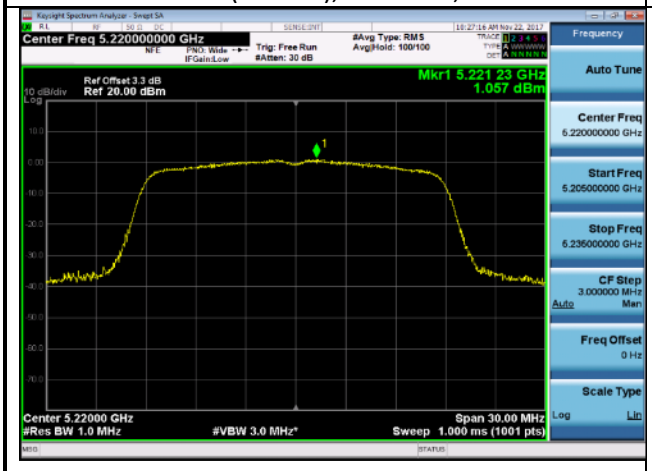


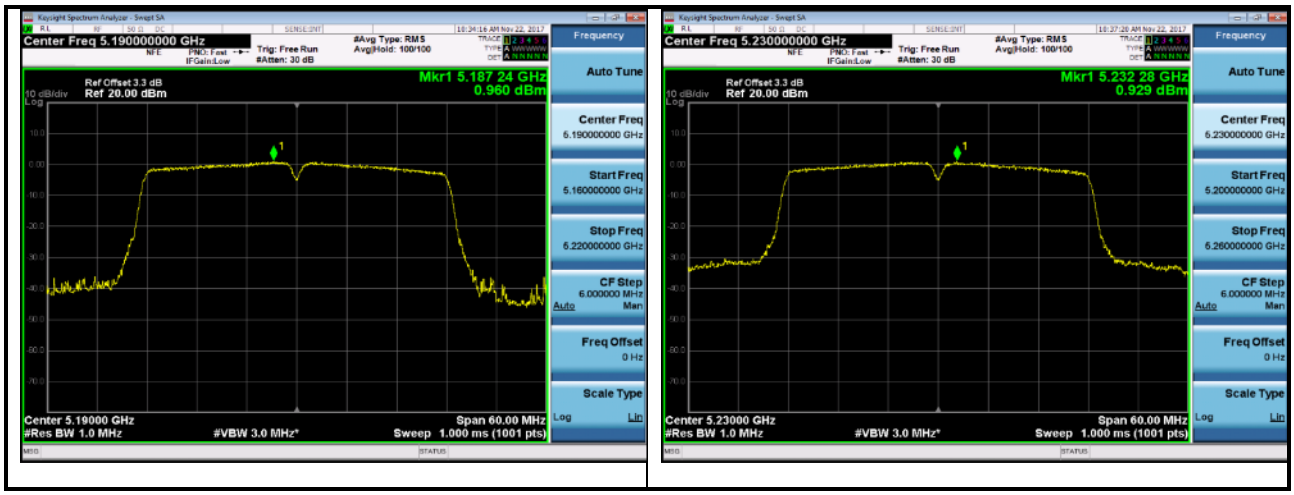


U-NII-1 Power spectral density：
802.11n(40MHz),5230MHz,Ant1



ANT 0:

U-NII-1 Power spectral density： 802.11ac(80MHz),5210MHz,Ant1	U-NII-1 Power spectral density： 802.11n(20MHz),5180MHz,Ant1
	
U-NII-1 Power spectral density： 802.11n(20MHz),5220MHz,Ant1	U-NII-1 Power spectral density： 802.11n(20MHz),5240MHz,Ant1
	
U-NII-1 Power spectral density： 802.11n(40MHz),5190MHz,Ant1	U-NII-1 Power spectral density： 802.11n(40MHz),5230MHz,Ant1


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.190000000 GHz
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
Ref Offset 3.3 dB
10 dB/div
Ref 20.00 dBm
Mkr1 5.187 24 GHz
0.960 dBm
Center 5.19000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Span 60.00 MHz
Sweep 1.000 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.190000000 GHz
Start Freq
5.160000000 GHz
Stop Freq
5.220000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin
Keysight Spectrum Analyzer - Swept SA
Center Freq 5.230000000 GHz
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
Ref Offset 3.3 dB
10 dB/div
Ref 20.00 dBm
Mkr1 5.232 28 GHz
0.929 dBm
Center 5.23000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Span 60.00 MHz
Sweep 1.000 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.230000000 GHz
Start Freq
5.200000000 GHz
Stop Freq
5.260000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

U-NII-2A:

6. Duty Cycle

6.1 Test Data

ANT 1:

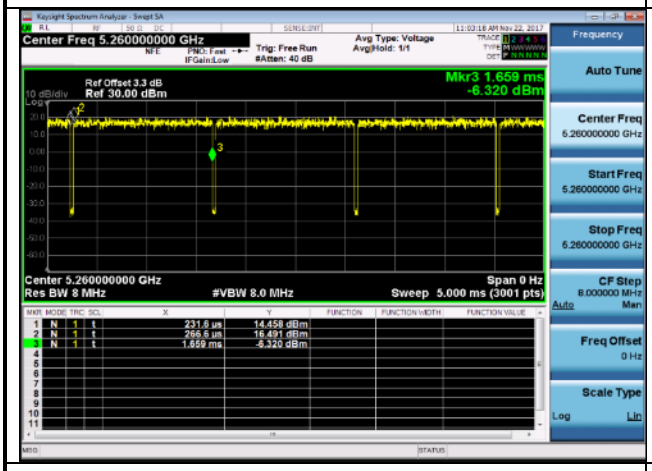
U-NII-2a Duty Cycle			
Mode	Test Frequency(MHz)	Duty Cycle(%)	Result
802.11n(20MHz)	5260	97.38	-
802.11n(20MHz)	5300	97.38	-
802.11n(20MHz)	5320	97.38	-
802.11n(40MHz)	5270	94.88	-
802.11n(40MHz)	5310	94.88	-
802.11ac(80MHz)	5290	84.18	-
802.11a(20MHz)	5260	97.55	-
802.11a(20MHz)	5300	97.55	-
802.11a(20MHz)	5320	97.55	-

ANT 0:

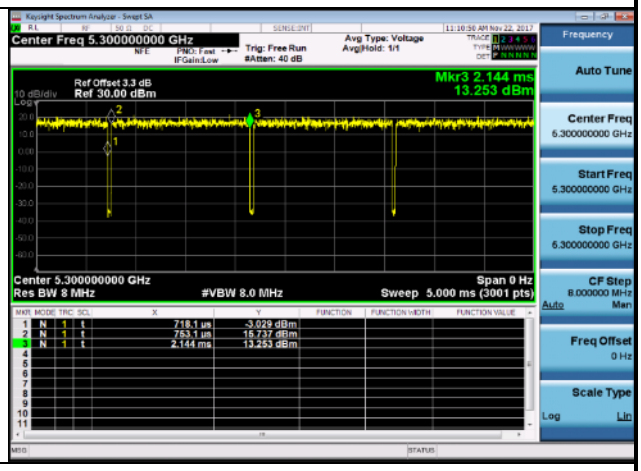
U-NII-2a Duty Cycle			
Mode	Test Frequency(MHz)	Duty Cycle(%)	Result
802.11n(20MHz)	5260	97.38	-
802.11n(20MHz)	5300	97.38	-
802.11n(20MHz)	5320	97.38	-
802.11n(40MHz)	5270	94.88	-
802.11n(40MHz)	5310	94.88	-
802.11ac(80MHz)	5290	84.18	-

6.2 Test Plots

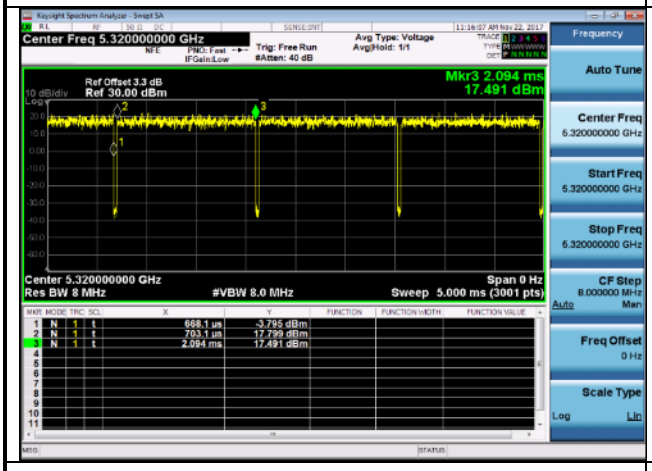
U-NII-2a Duty Cycle：802.11a(20MHz),5260MHz,



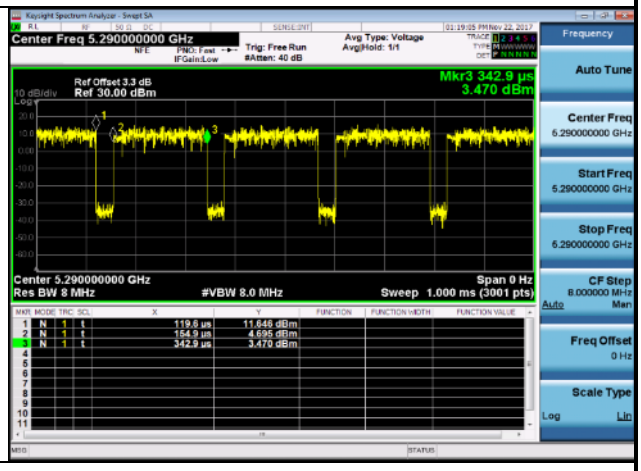
U-NII-2a Duty Cycle：802.11a(20MHz),5300MHz,



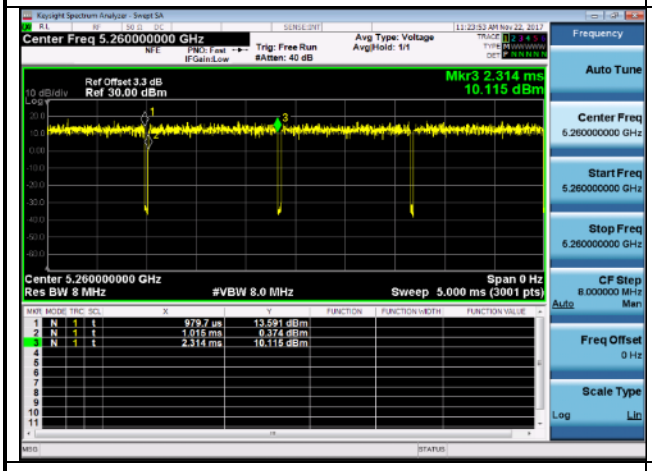
U-NII-2a Duty Cycle：802.11a(20MHz),5320MHz,



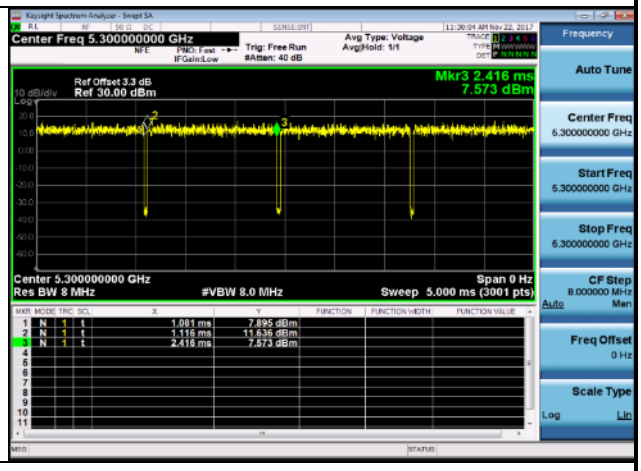
U-NII-2a Duty Cycle：802.11ac(80MHz),5290MHz,



U-NII-2a Duty Cycle：802.11n(20MHz),5260MHz,

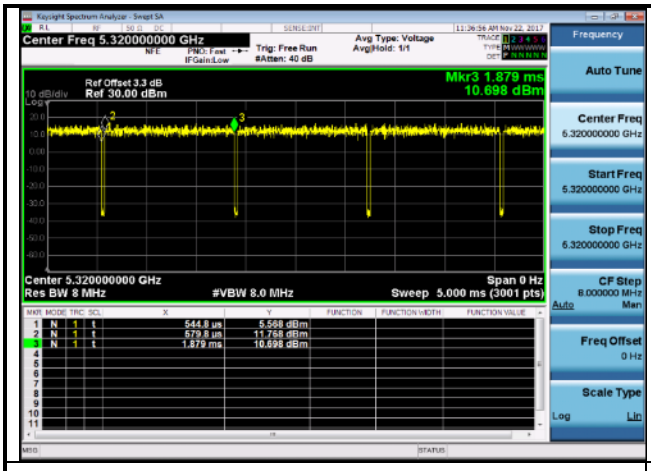


U-NII-2a Duty Cycle：802.11n(20MHz),5300MHz,

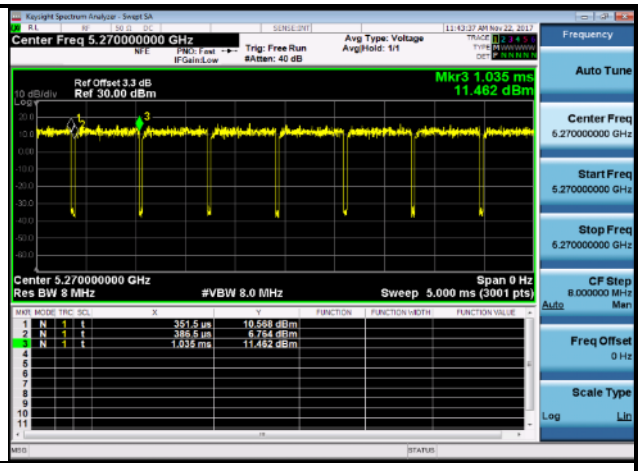


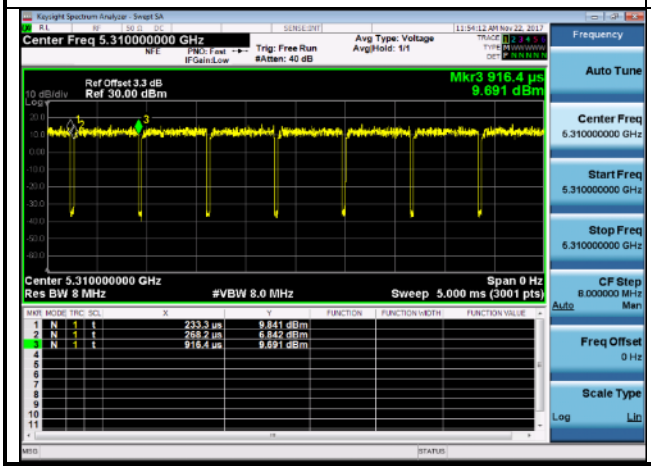
U-NII-2a Duty Cycle：802.11n(20MHz),5320MHz,

U-NII-2a Duty Cycle：802.11n(40MHz),5270MHz,



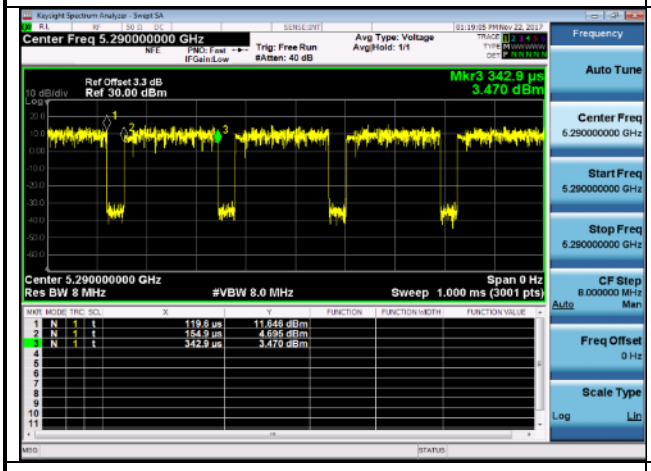
U-NII-2a Duty Cycle：802.11n(40MHz),5310MHz,



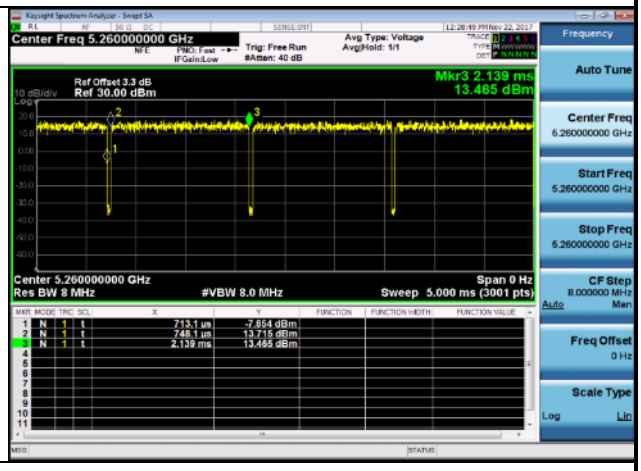


ANT 0:

U-NII-2a Duty Cycle：802.11ac(80MHz),5290MHz,

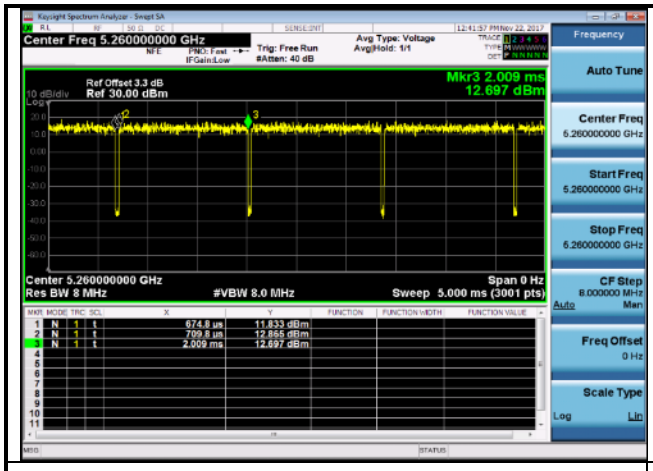


U-NII-2a Duty Cycle：802.11n(20MHz),5260MHz,

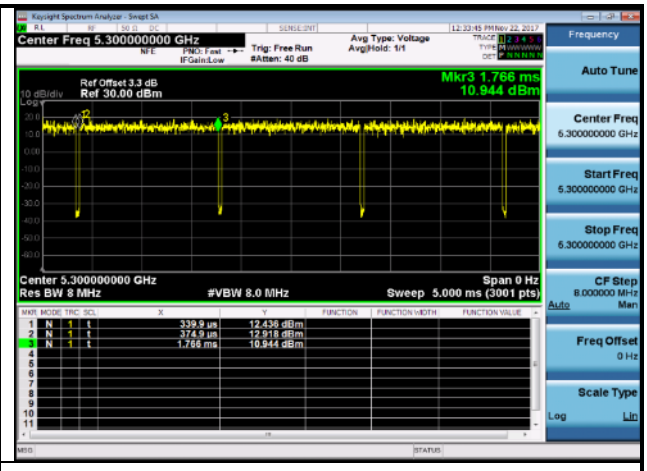


U-NII-2a Duty Cycle：802.11n(20MHz),5260MHz,

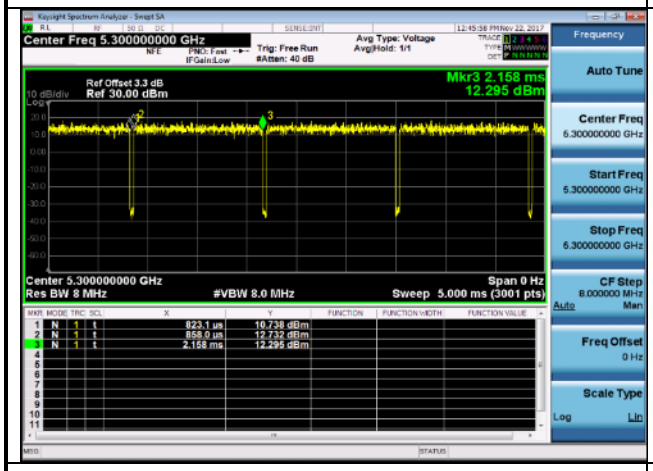
U-NII-2a Duty Cycle：802.11n(20MHz),5300MHz,



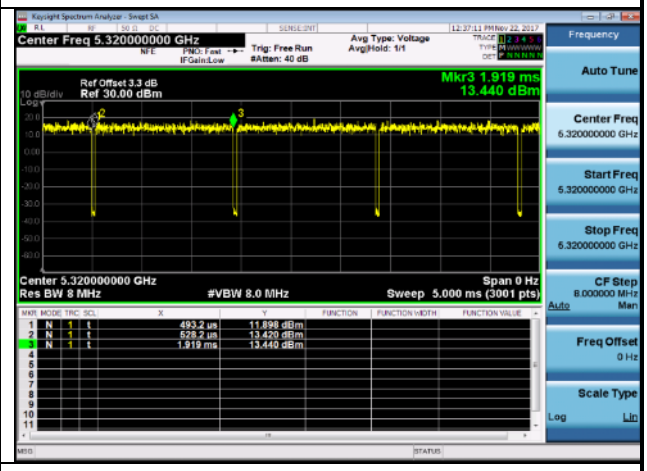
U-NII-2a Duty Cycle：802.11n(20MHz),5300MHz,



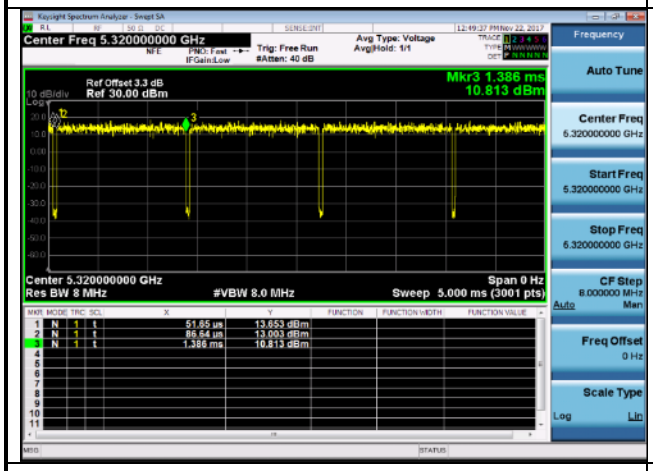
U-NII-2a Duty Cycle：802.11n(20MHz),5320MHz,



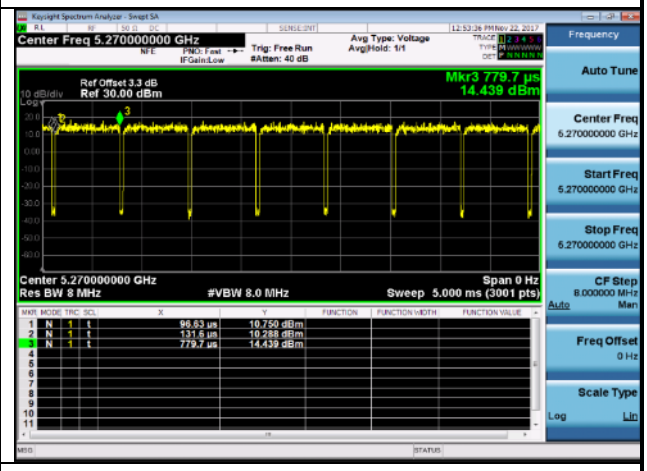
U-NII-2a Duty Cycle：802.11n(20MHz),5320MHz,

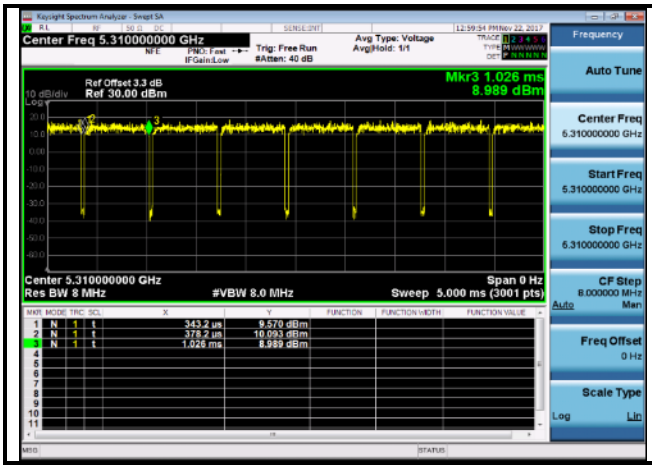


U-NII-2a Duty Cycle：802.11n(40MHz),5270MHz,



U-NII-2a Duty Cycle：802.11n(40MHz),5310MHz,




Center Freq 5.310000000 GHz
Trig: Free Run
#Atten: 40 dB
Avg Type: Voltage
Avg|Hold: 1/1
Ref Offset 3.3 dB
10 dB/div
Ref 30.00 dBm
Mkr3 1.026 ms
8.989 dBm
Center 5.310000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 5.000 ms (3001 pts)
1 N 1 t 343.2 µs 9.570 dBm
2 N 1 t 378.2 µs 10.093 dBm
3 N 1 t 1.026 ms 8.989 dBm
Frequency
Auto Tune
Center Freq
5.310000000 GHz
Start Freq
5.310000000 GHz
Stop Freq
5.310000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

7. 26 dB bandwidth

7.1 Test Data

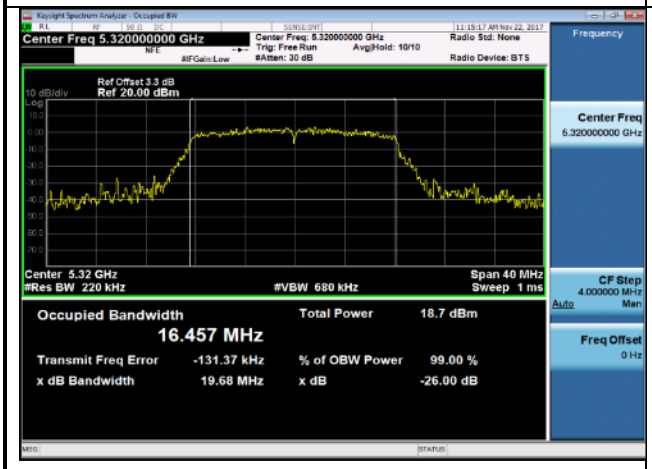
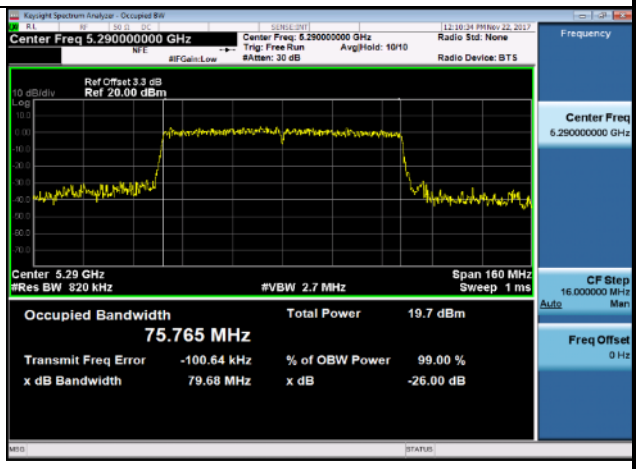
ANT 1:

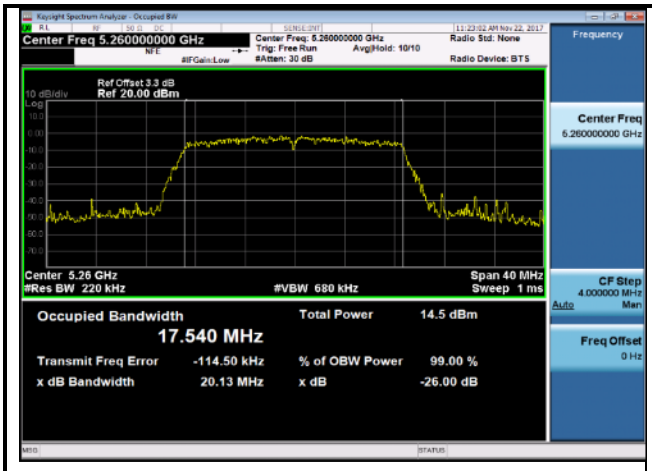
U-NII-2a Occupied 26 dB Bandwidth			
Mode	Test Frequency(MHz)	26 dB Bandwidth(MHz)	Result
802.11n(20MHz)	5260	20.13	-
802.11n(20MHz)	5300	20.08	-
802.11n(20MHz)	5320	19.97	-
802.11n(40MHz)	5270	40.34	-
802.11n(40MHz)	5310	40.38	-
802.11ac(80MHz)	5290	79.68	-
802.11a(20MHz)	5260	19.71	-
802.11a(20MHz)	5300	19.89	-
802.11a(20MHz)	5320	19.68	-

ANT 0:

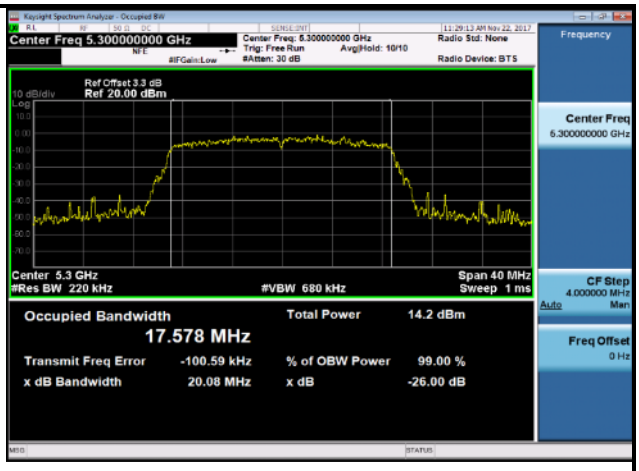
U-NII-2a Occupied 26 dB Bandwidth			
Mode	Test Frequency(MHz)	26 dB Bandwidth(MHz)	Result
802.11n(20MHz)	5260	20.02	-
802.11n(20MHz)	5300	19.95	-
802.11n(20MHz)	5320	20.04	-
802.11n(40MHz)	5270	40.16	-
802.11n(40MHz)	5310	40.01	-
802.11ac(80MHz)	5290	91.17	-

7.2 Test Plots

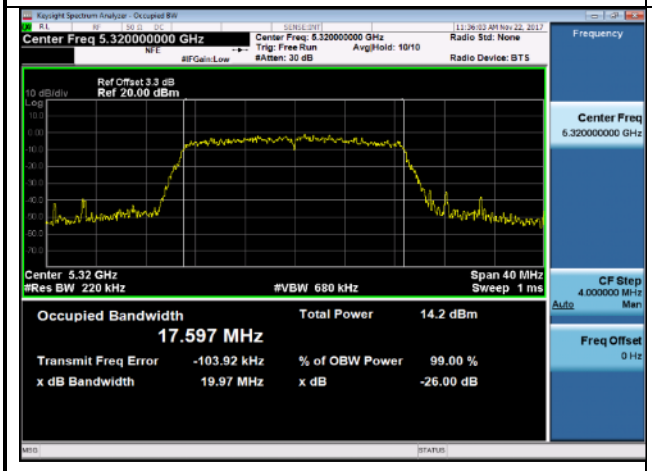
U-NII-2a 26dB Bandwidth： 802.11a(20MHz),5260MHz,	U-NII-2a 26dB Bandwidth： 802.11a(20MHz),5300MHz,
	
U-NII-2a 26dB Bandwidth： 802.11a(20MHz),5320MHz,	U-NII-2a 26dB Bandwidth： 802.11ac(80MHz),5290MHz,
	
U-NII-2a 26dB Bandwidth： 802.11n(20MHz),5260MHz,	U-NII-2a 26dB Bandwidth： 802.11n(20MHz),5300MHz,



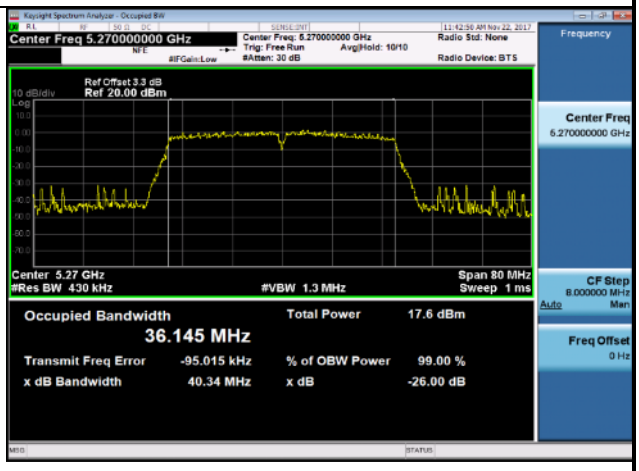
U-NII-2a 26dB Bandwidth：
802.11n(20MHz),5320MHz,

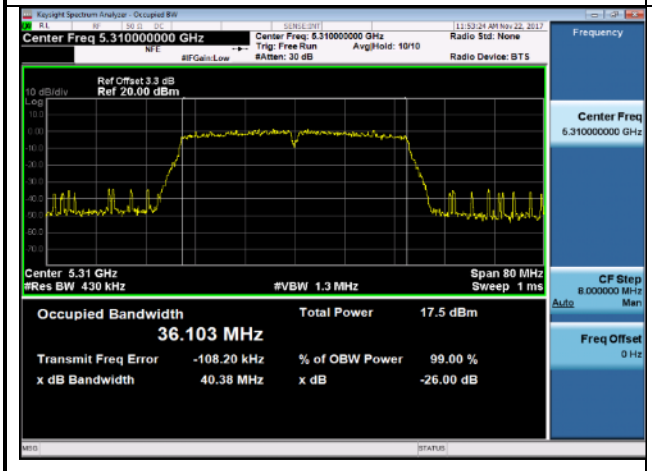


U-NII-2a 26dB Bandwidth：
802.11n(40MHz),5270MHz,

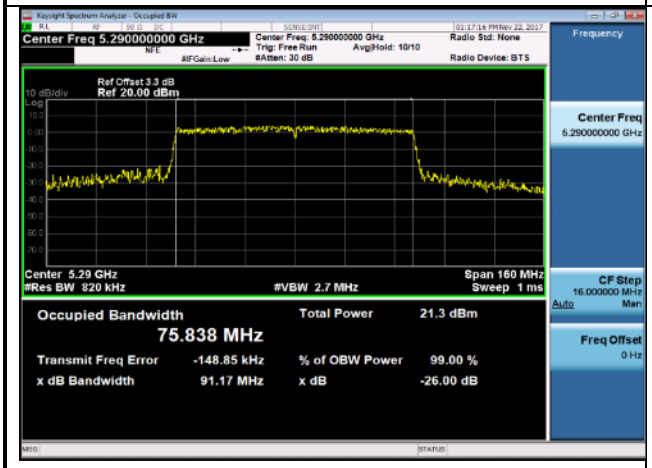
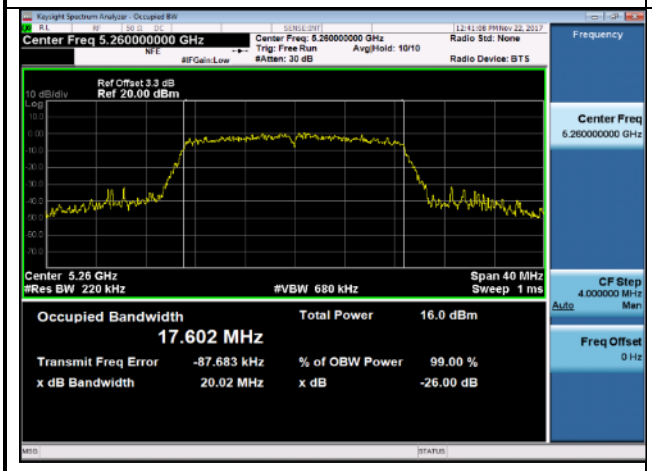


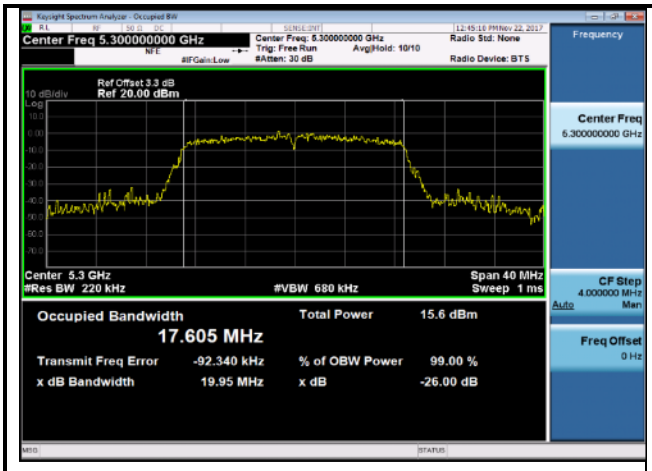
U-NII-2a 26dB Bandwidth：
802.11n(40MHz),5310MHz,



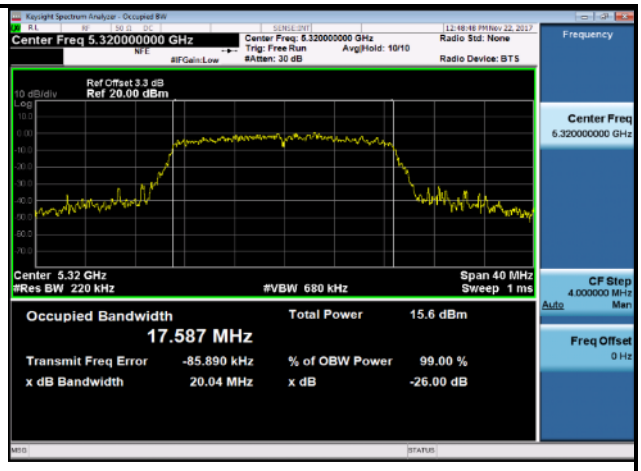


ANT 0:

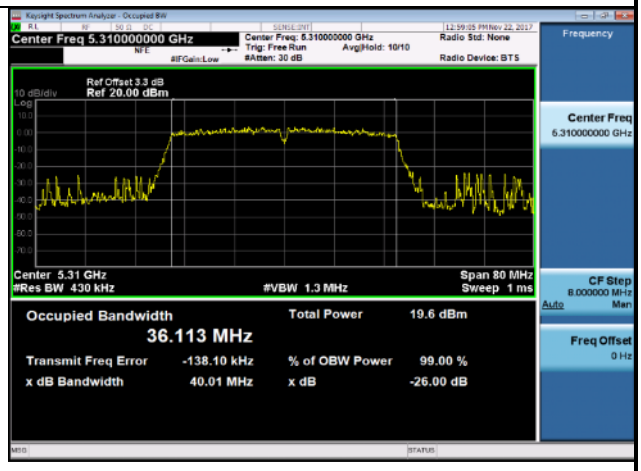
U-NII-2a 26dB Bandwidth： 802.11ac(80MHz),5290MHz,	U-NII-2a 26dB Bandwidth： 802.11n(20MHz),5260MHz,
	
U-NII-2a 26dB Bandwidth： 802.11n(20MHz),5260MHz,	U-NII-2a 26dB Bandwidth： 802.11n(20MHz),5300MHz,
	
U-NII-2a 26dB Bandwidth： 802.11n(20MHz),5300MHz,	U-NII-2a 26dB Bandwidth： 802.11n(20MHz),5320MHz,



U-NII-2a 26dB Bandwidth：
802.11n(40MHz),5270MHz,



U-NII-2a 26dB Bandwidth：
802.11n(40MHz),5310MHz,



8. 99% Occupied Bandwidth

8.1 Test Data

ANT 1:

U-NII-2a 99% Occupied Bandwidth			
Mode	Test Frequency(MHz)	99% Occupy Bandwidth(MHz)	Result
802.11n(20MHz)	5260	17.648	Pass
802.11n(20MHz)	5300	17.610	Pass
802.11n(20MHz)	5320	17.628	Pass
802.11n(40MHz)	5270	36.262	Pass
802.11n(40MHz)	5310	36.289	Pass
802.11ac(80MHz)	5290	75.848	Pass
802.11a(20MHz)	5260	16.634	Pass
802.11a(20MHz)	5300	16.575	Pass
802.11a(20MHz)	5320	16.546	Pass

ANT 0:

U-NII-2a 99% Occupied Bandwidth			
Mode	Test Frequency(MHz)	99% Occupy Bandwidth(MHz)	Result
802.11n(20MHz)	5260	17.667	Pass
802.11n(20MHz)	5300	17.653	Pass
802.11n(20MHz)	5320	17.619	Pass
802.11n(40MHz)	5270	36.378	Pass
802.11n(40MHz)	5310	36.400	Pass
802.11ac(80MHz)	5290	75.917	Pass

8.2 Test Plots

ANT 1:

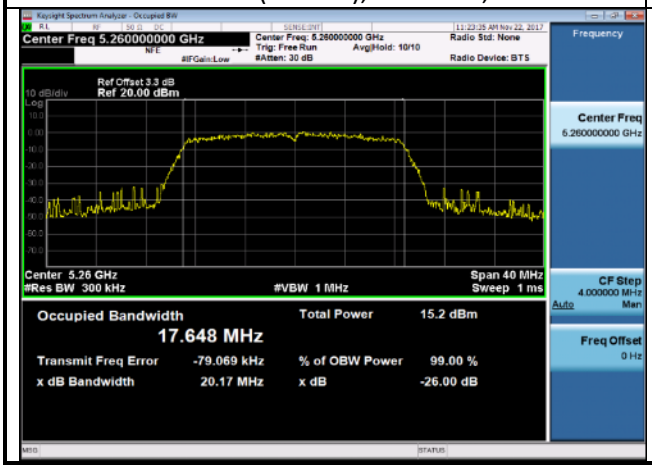
U-NII-2a 99% Bandwidth：
802.11a(20MHz),5260MHz,

U-NII-2a 99% Bandwidth：
802.11a(20MHz),5300MHz,

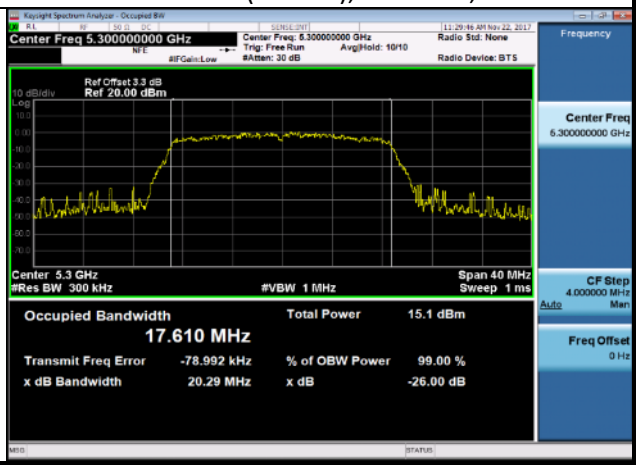
U-NII-2a 99% Bandwidth：
802.11a(20MHz),5320MHz,

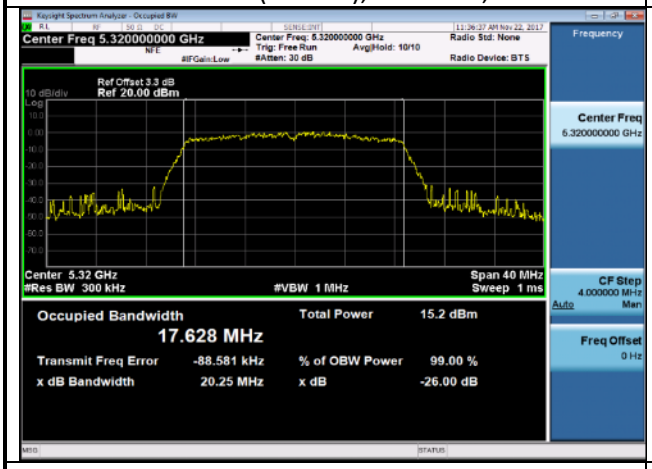
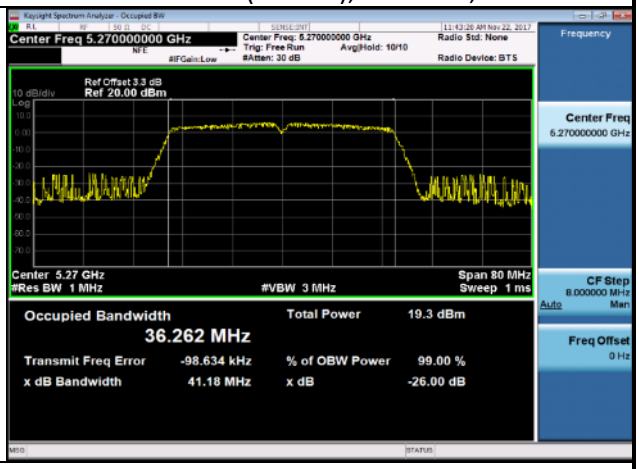
U-NII-2a 99% Bandwidth：
802.11ac(80MHz),5290MHz,

U-NII-2a 99% Bandwidth：
802.11n(20MHz),5260MHz,



U-NII-2a 99% Bandwidth：
802.11n(20MHz),5300MHz,



U-NII-2a 99% Bandwidth： 802.11n(20MHz),5320MHz,	U-NII-2a 99% Bandwidth： 802.11n(40MHz),5270MHz,
	
U-NII-2a 99% Bandwidth： 802.11n(40MHz),5310MHz,