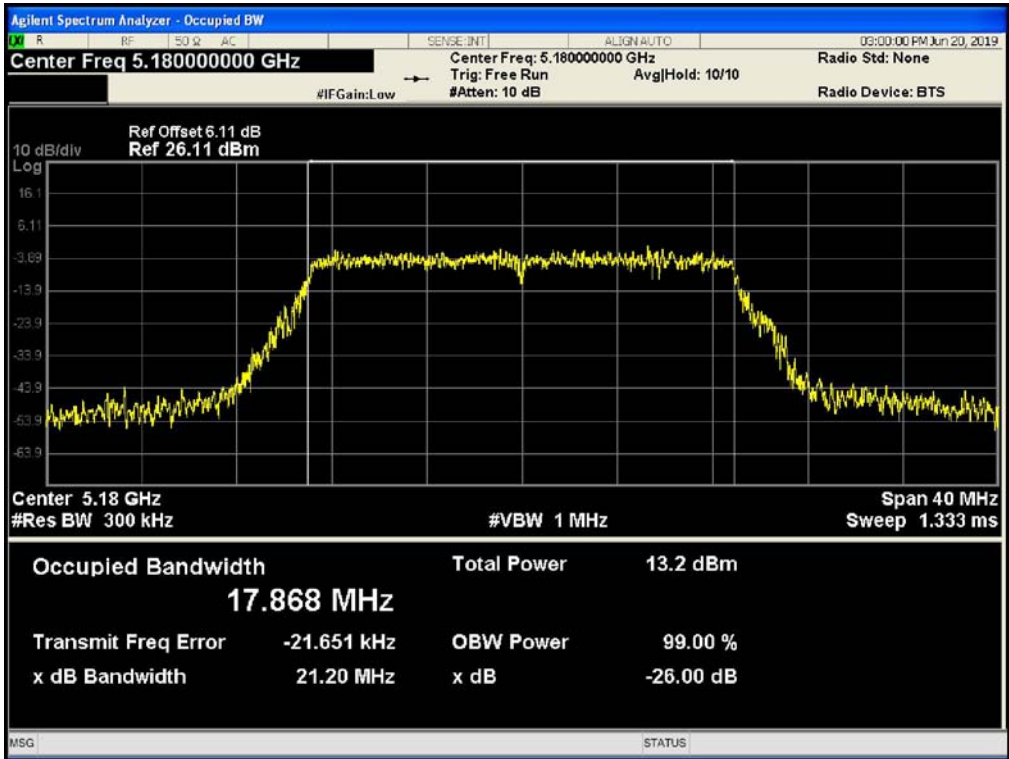
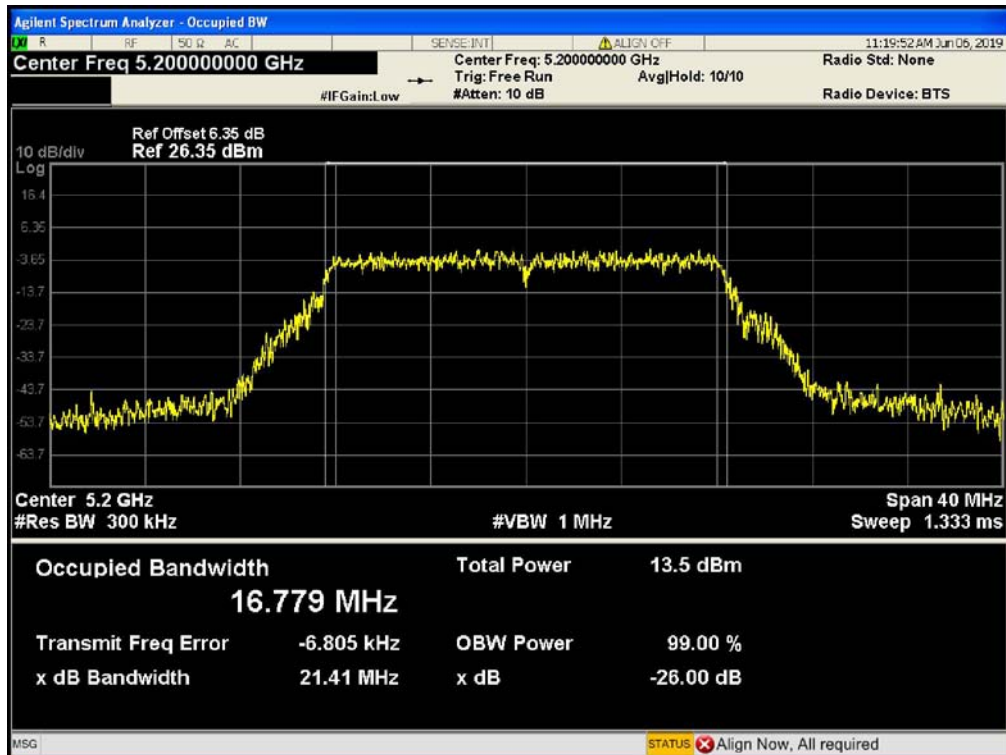


Attachment D-- Bandwidth Test Data

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11a Mode (U-NII-1)		
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	21.20	17.868
40	5200	21.41	16.779
48	5240	21.10	16.762
802.11a Mode			
5180 MHz			
 The screenshot shows an Agilent Spectrum Analyzer interface. The title bar reads 'Agilent Spectrum Analyzer - Occupied BW'. The main display area shows a signal spectrum with a yellow trace. The center frequency is 5.18 GHz. The occupied bandwidth is 17.868 MHz. The total power is 13.2 dBm. The transmit frequency error is -21.651 kHz. The x dB bandwidth is 21.20 MHz. The OBW power is 99.00 %. The x dB is -26.00 dB. The interface also shows various settings like 'Center Freq: 5.18000000 GHz', 'Ref Offset: 5.11 dB', 'Ref: 26.11 dBm', 'Span: 40 MHz', 'Sweep: 1.333 ms', and 'Radio Device: BTS'.			

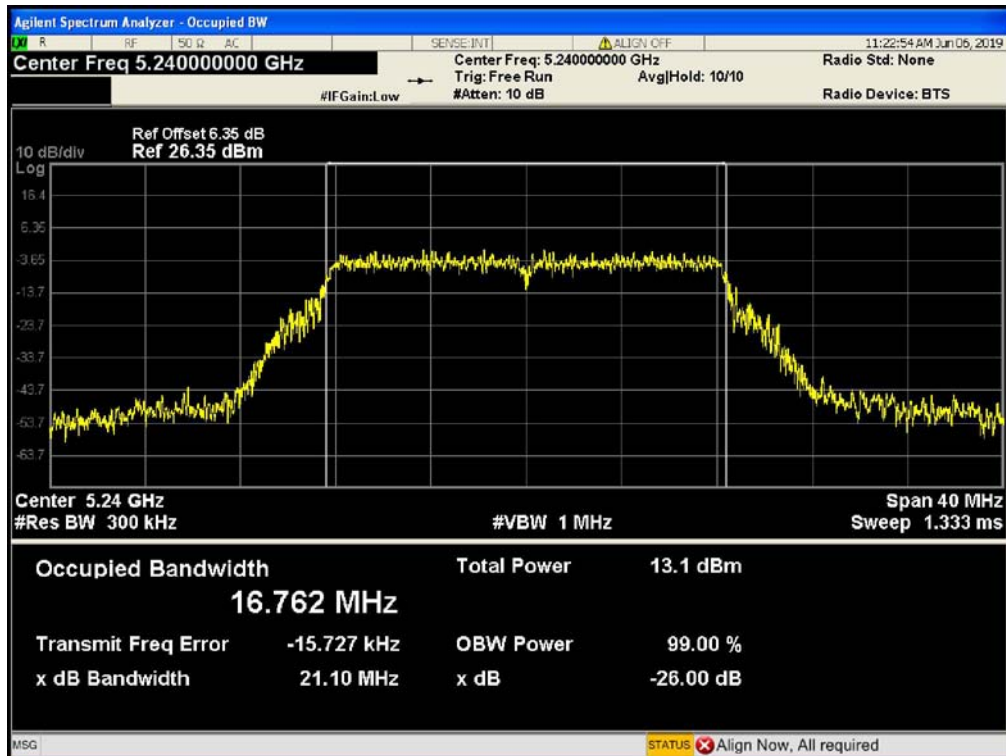
802.11a Mode

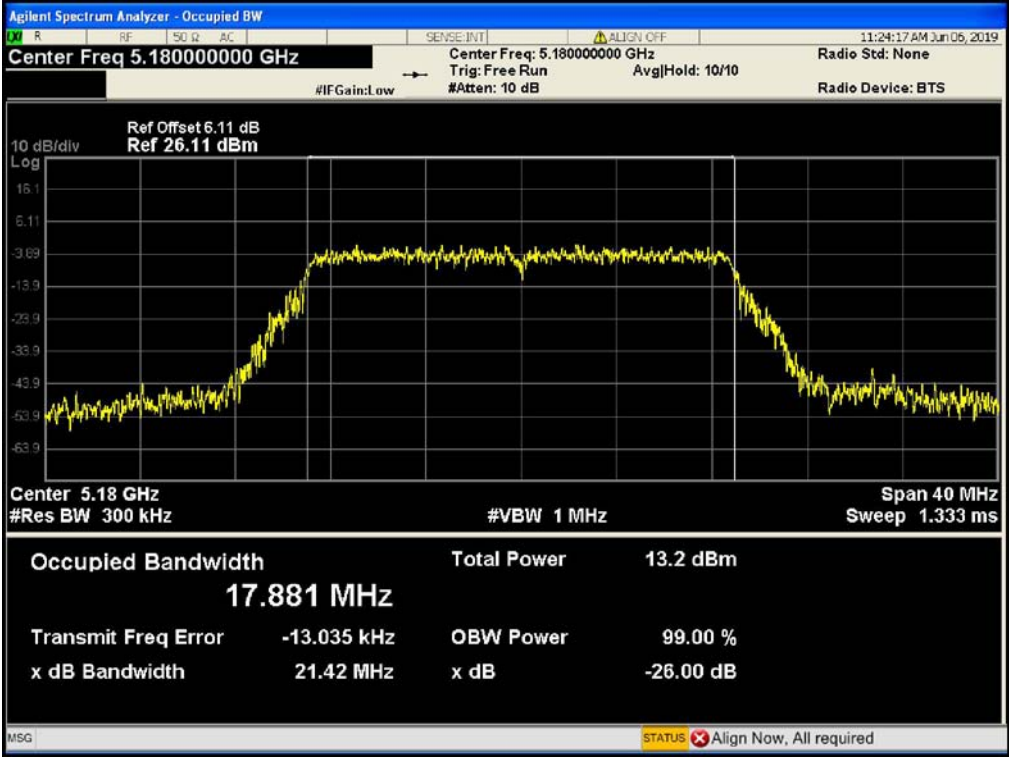
5200 MHz



802.11a Mode

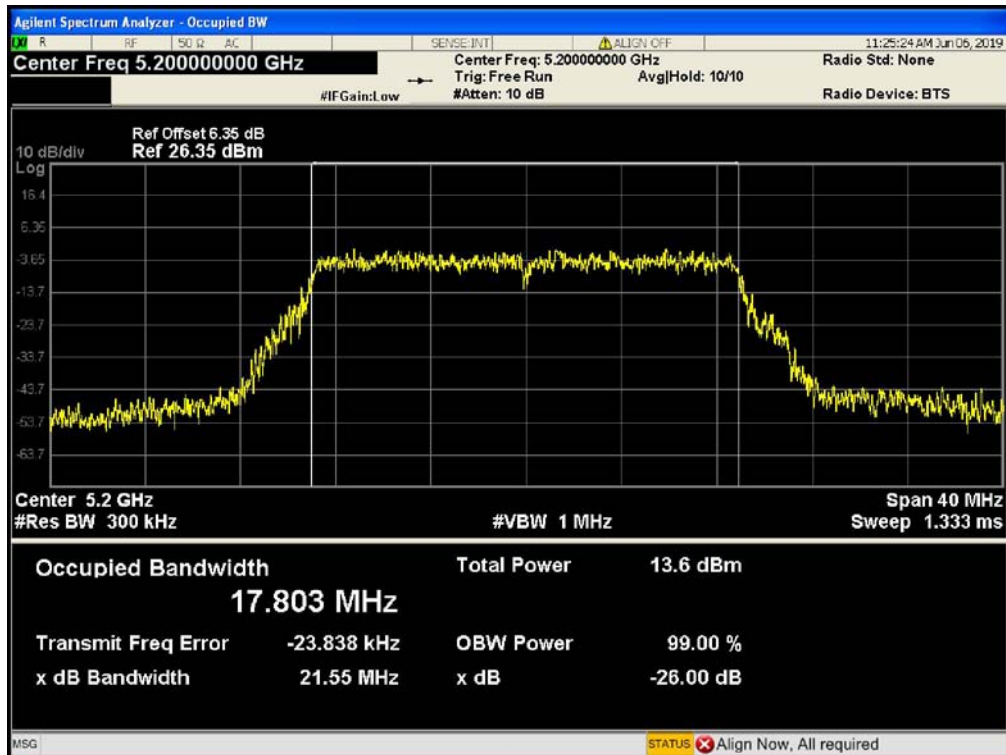
5240 MHz



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11n(HT20) Mode (U-NII-1)		
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	21.42	17.881
40	5200	21.55	17.803
48	5240	21.15	17.873
802.11n(HT20) Mode			
5180 MHz			
 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.18000000 GHz Ref Offset 6.11 dB Ref 26.11 dBm 10 dB/div Log Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.333 ms Occupied Bandwidth 17.881 MHz Total Power 13.2 dBm Transmit Freq Error -13.035 kHz OBW Power 99.00 % x dB Bandwidth 21.42 MHz x dB -26.00 dB STATUS ✖ Align Now, All required			

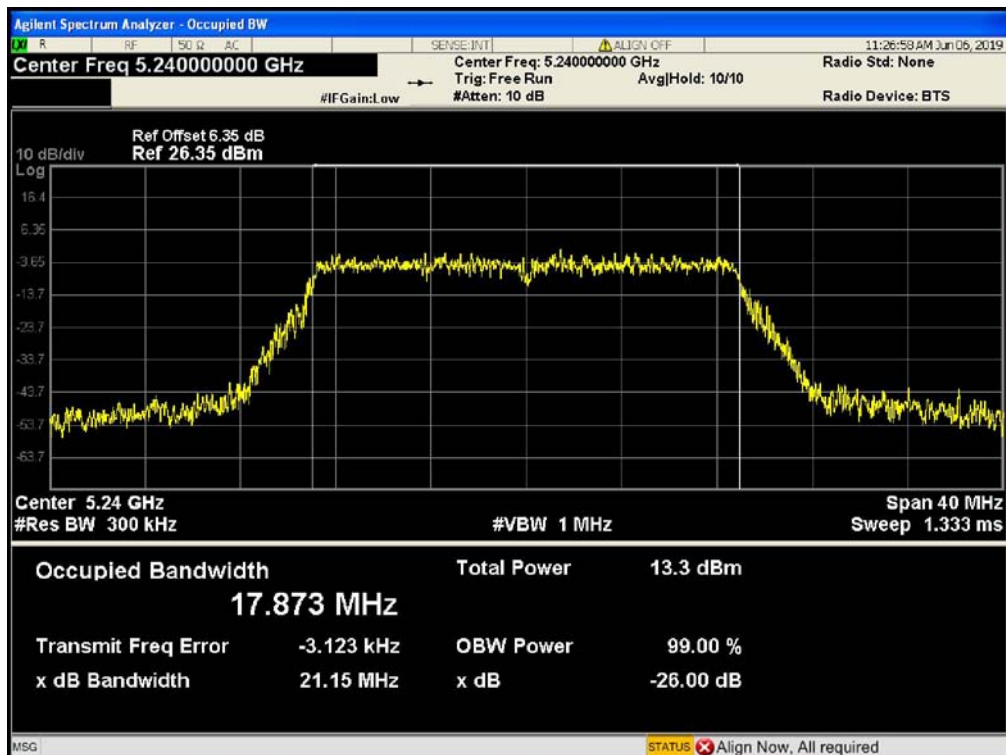
802.11n(HT20) Mode

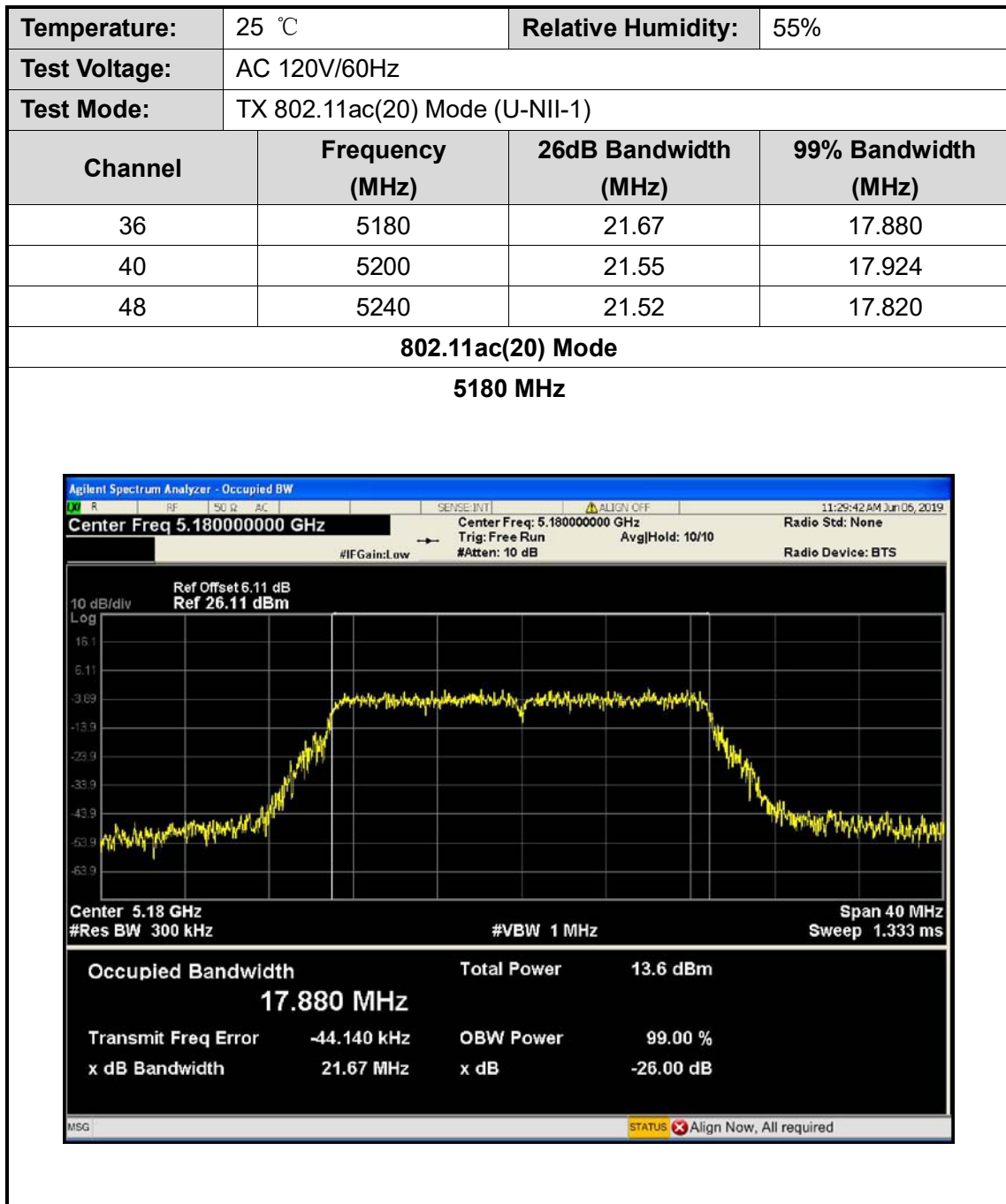
5200 MHz



802.11n(HT20) Mode

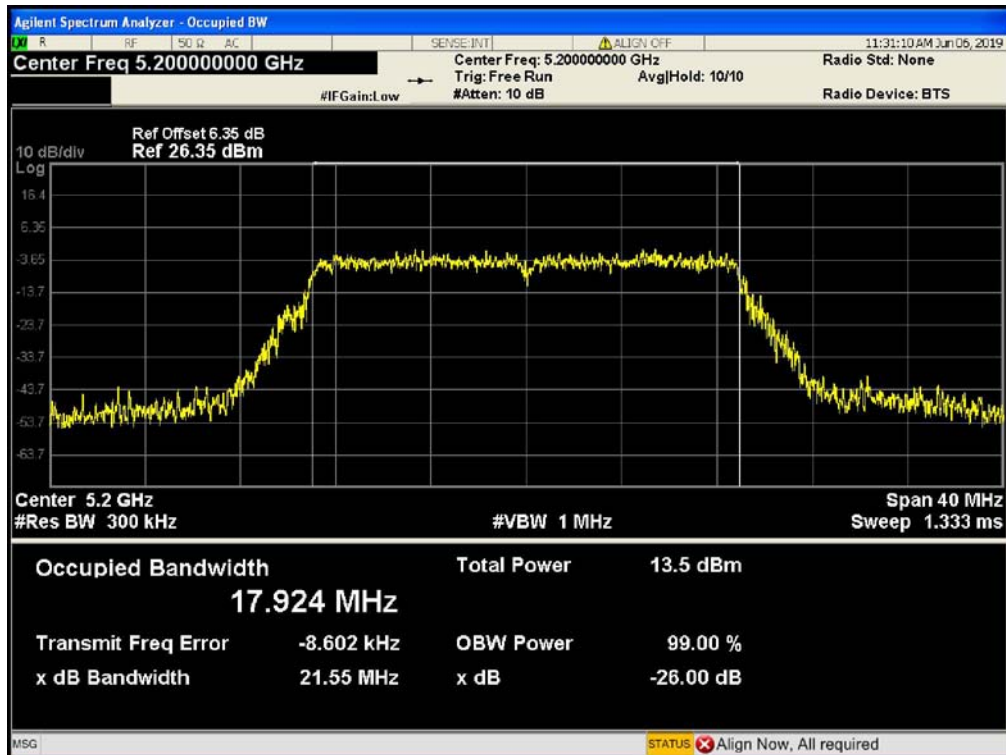
5240 MHz





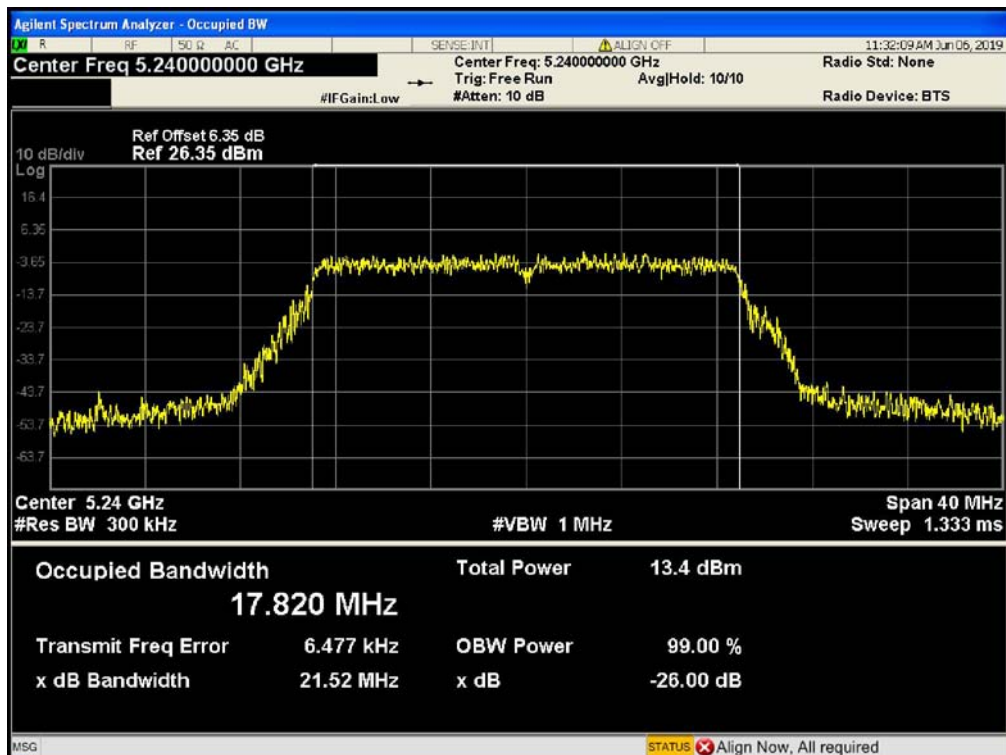
802.11ac(20) Mode

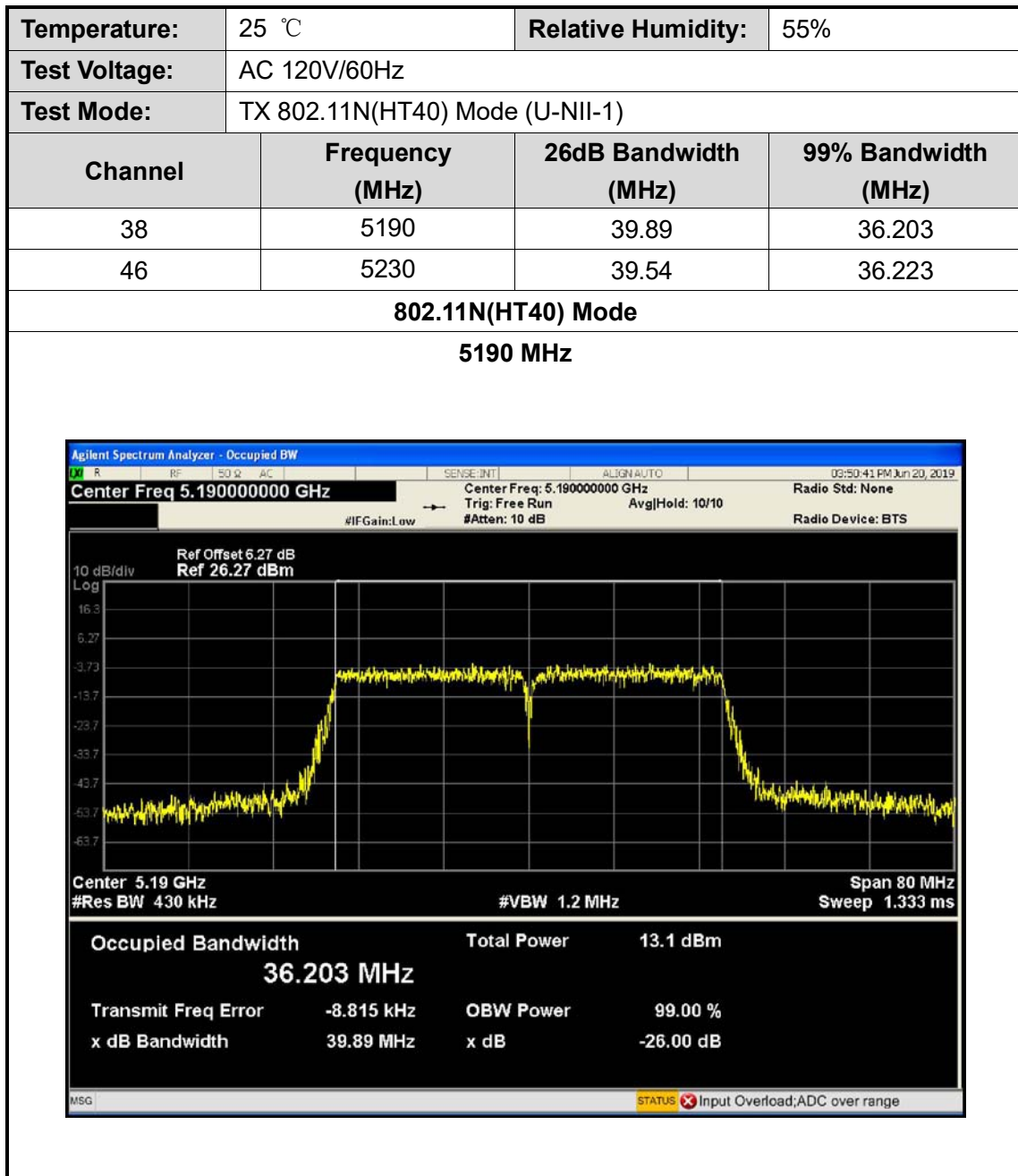
5200 MHz

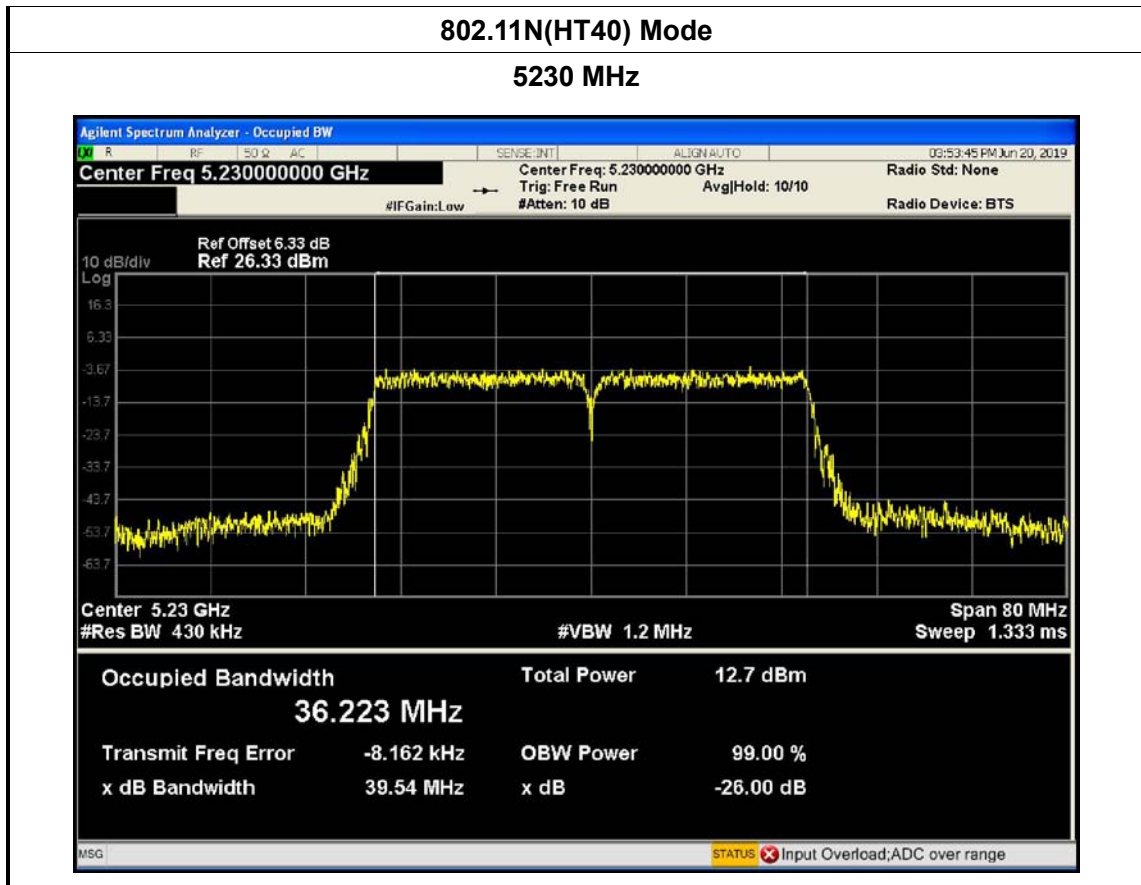


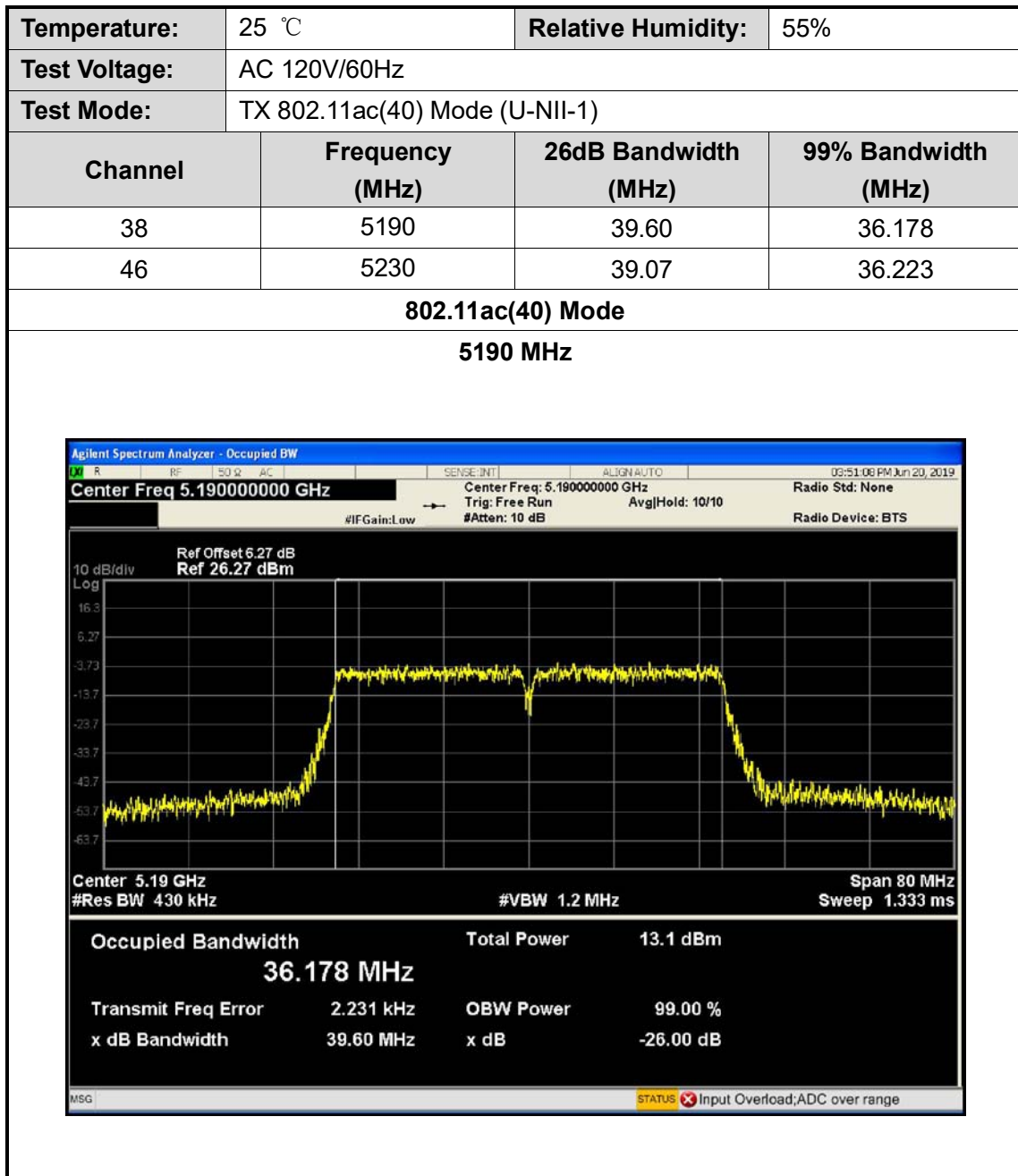
802.11ac(20) Mode

5240 MHz



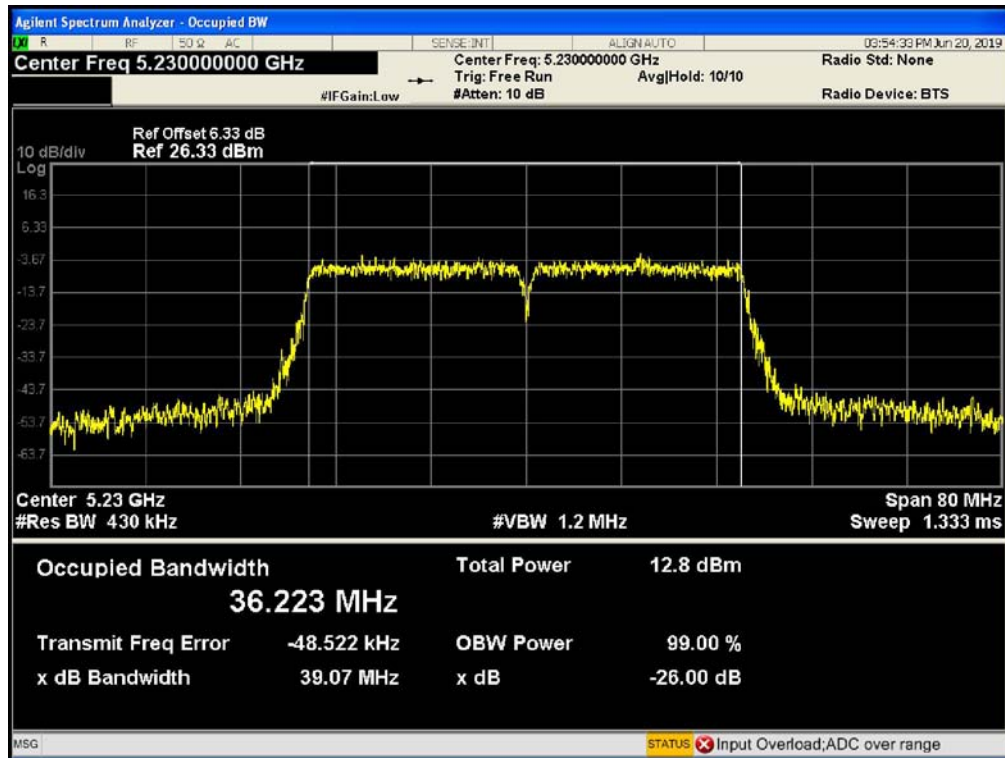


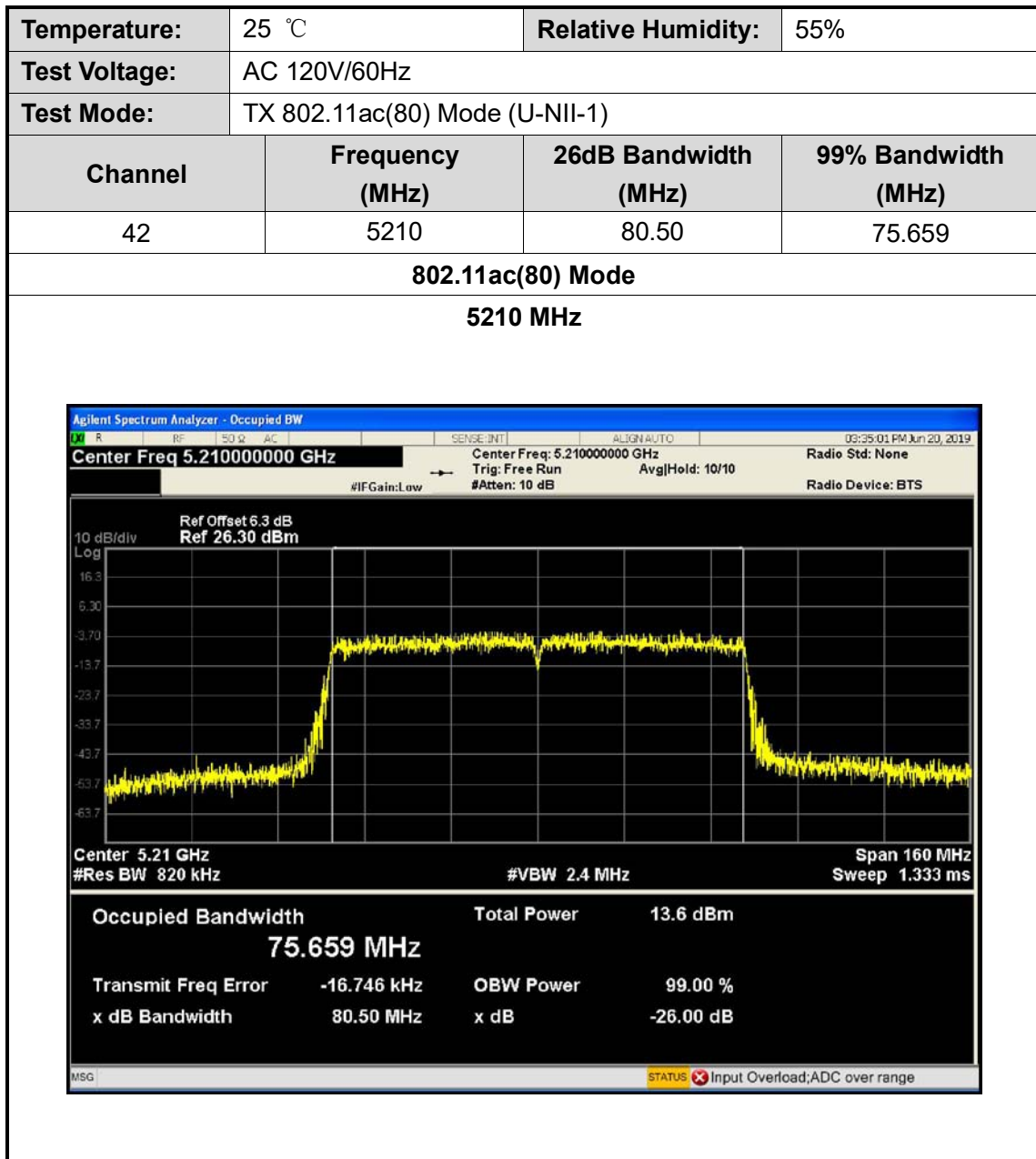


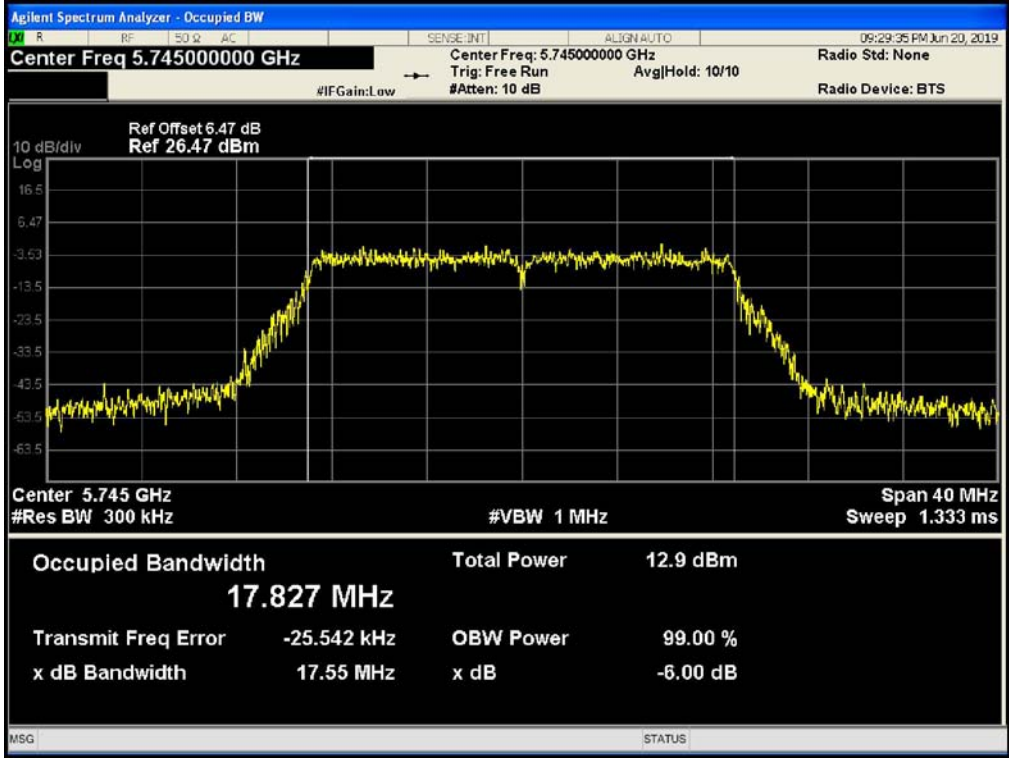


802.11ac(40) Mode

5230 MHz

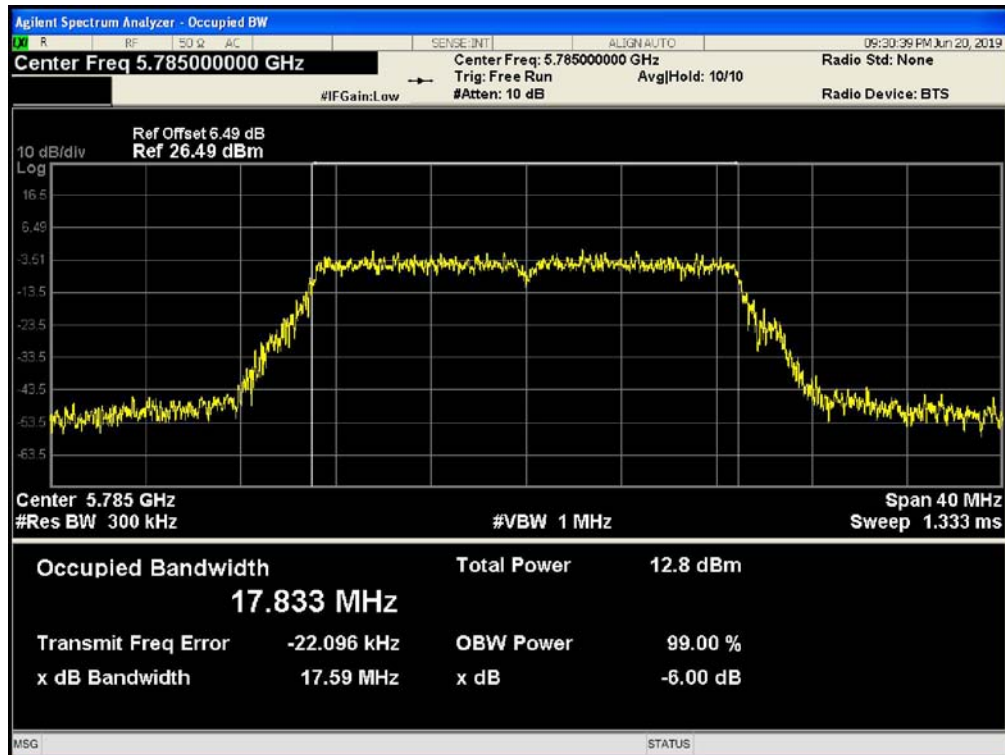




Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11a Mode (U-NII-3)		
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	17.55	17.827
157	5785	17.59	17.833
165	5825	17.64	17.835
Limit(MHz):		>0.5MHz	/
802.11a Mode			
5745 MHz			
 The screenshot shows an Agilent Spectrum Analyzer in Occupied BW mode. The center frequency is 5.745000000 GHz. The signal is a rectangular pulse with a flat top at approximately -13.5 dBm. The occupied bandwidth is 17.827 MHz, and the total power is 12.9 dBm. The transmit frequency error is -25.542 kHz, and the x dB bandwidth is 17.55 MHz. The OBW power is 99.00 %, and the x dB value is -6.00 dB. The span is 40 MHz, and the sweep is 1.333 ms. The resolution bandwidth is 300 kHz, and the video bandwidth is 1 MHz. The reference offset is 6.47 dB, and the reference level is 26.47 dBm. The radio device is identified as BTS.			

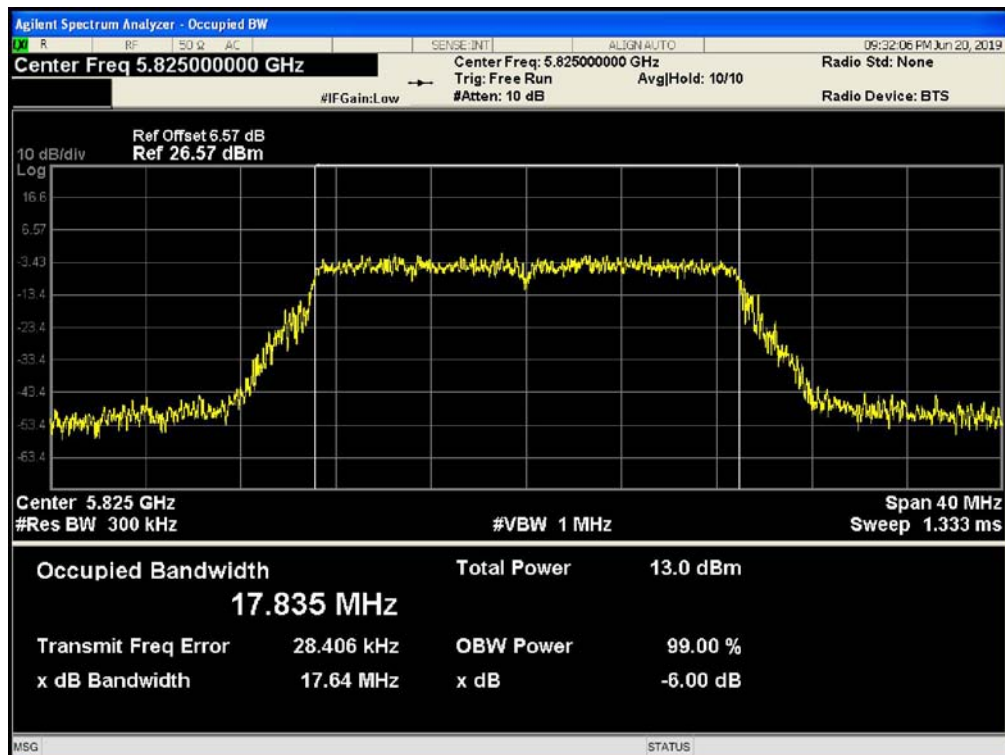
802.11a Mode

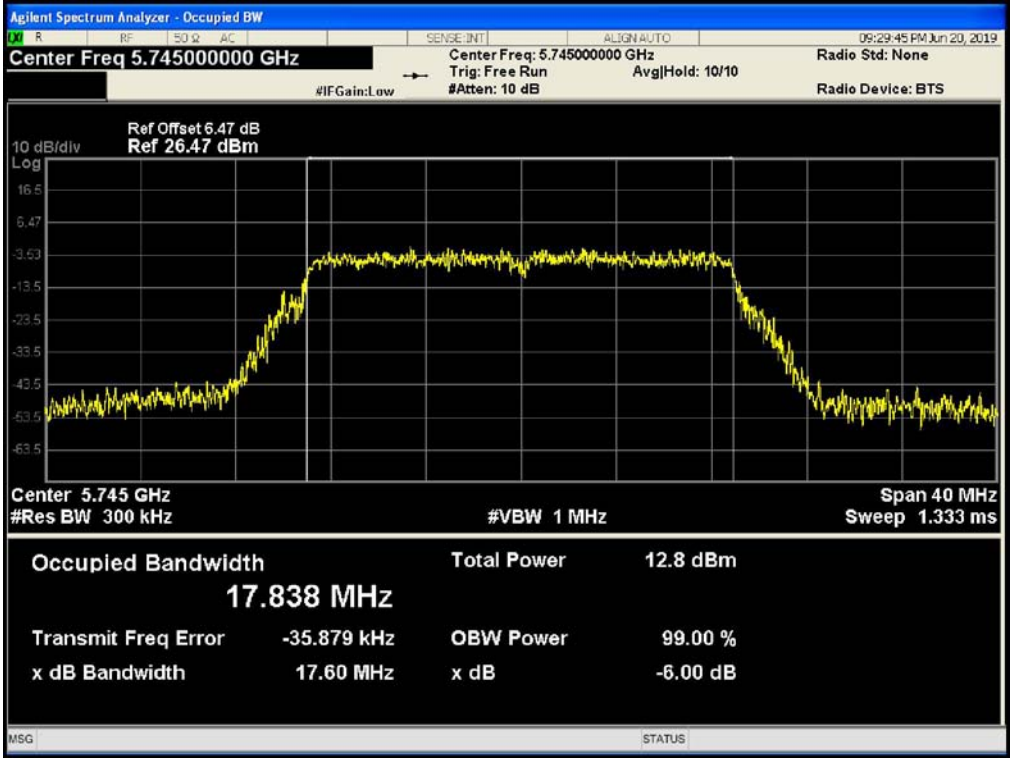
5785 MHz



802.11a Mode

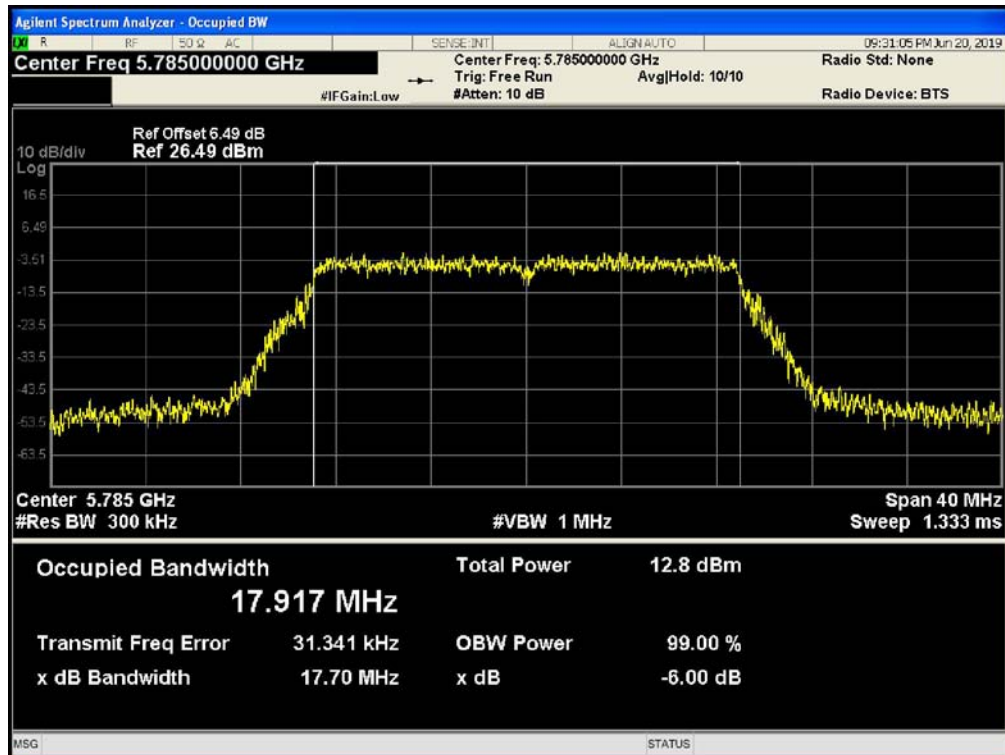
5825 MHz



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11n(20) Mode (U-NII-3)		
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	17.60	17.838
157	5785	17.70	17.917
165	5825	17.53	17.884
Limit(MHz):		>0.5MHz	/
802.11n(HT20) Mode			
5745 MHz			
 The screenshot shows an Agilent Spectrum Analyzer in Occupied BW mode. The center frequency is 5.745000000 GHz. The signal is a 20 MHz channel, showing a flat top with some noise. The occupied bandwidth is 17.838 MHz, and the total power is 12.8 dBm. The transmit frequency error is -35.879 kHz. The 6 dB bandwidth is 17.60 MHz, and the 99% bandwidth is 17.884 MHz. The reference offset is 6.47 dB, and the reference power is 26.47 dBm. The span is 40 MHz, and the sweep time is 1.333 ms. The resolution bandwidth is 300 kHz, and the video bandwidth is 1 MHz. The radio device is identified as BTS.			

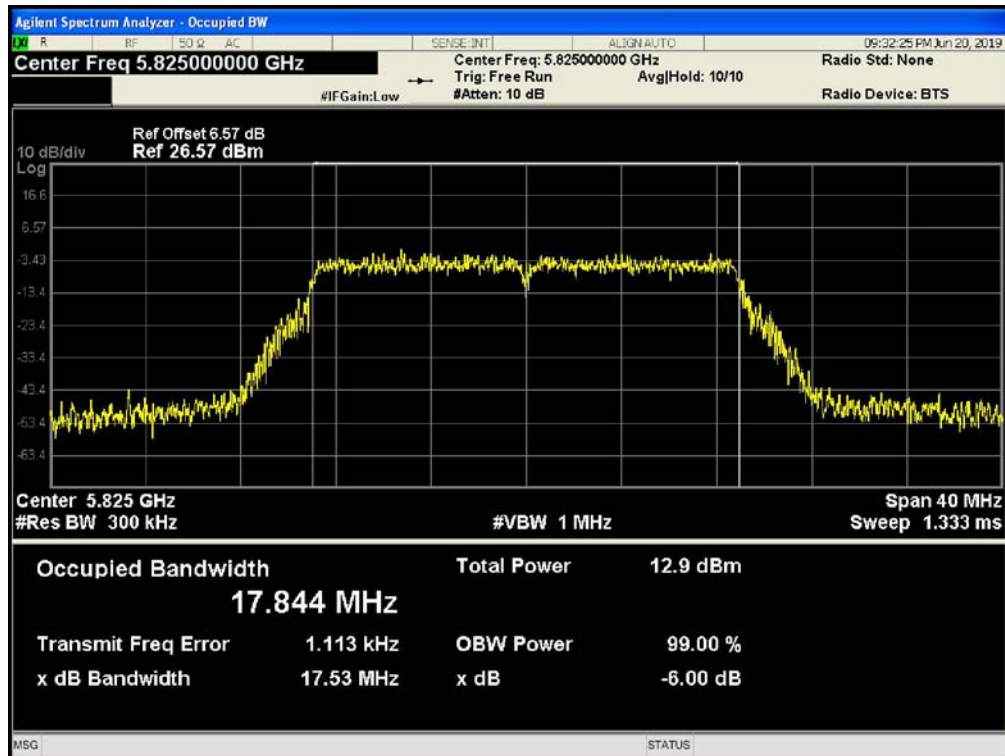
802.11n(HT20) Mode

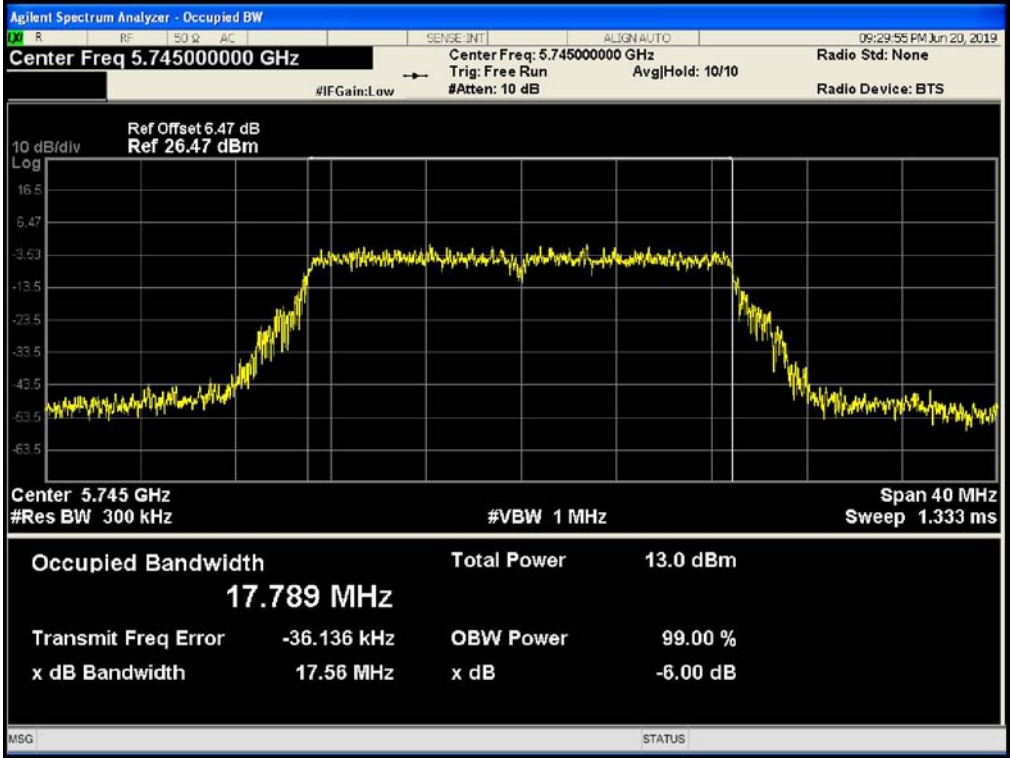
5785 MHz



802.11n(HT20) Mode

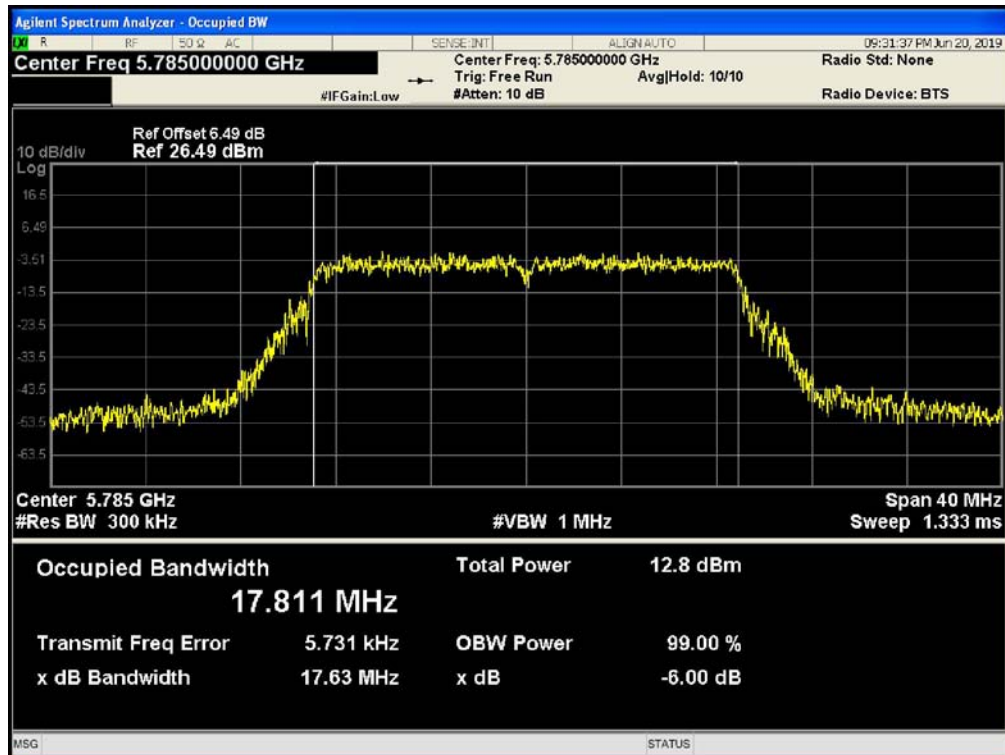
5825 MHz



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(20) Mode (U-NII-3)		
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	17.56	17.789
157	5785	17.63	17.811
165	5825	17.58	17.779
Limit(MHz):		>0.5MHz	/
802.11ac(20) Mode			
5745 MHz			
 The screenshot shows an Agilent Spectrum Analyzer in Occupied BW mode. The center frequency is 5.745 GHz. The span is 40 MHz. The resolution bandwidth (Res BW) is 300 kHz. The video bandwidth (VBW) is 1 MHz. The sweep time is 1.333 ms. The signal is a 17.789 MHz wideband signal with a total power of 13.0 dBm. The transmit frequency error is -36.136 kHz. The x dB bandwidth is 17.56 MHz. The x dB power is -6.00 dB. The radio device is identified as BTS.			

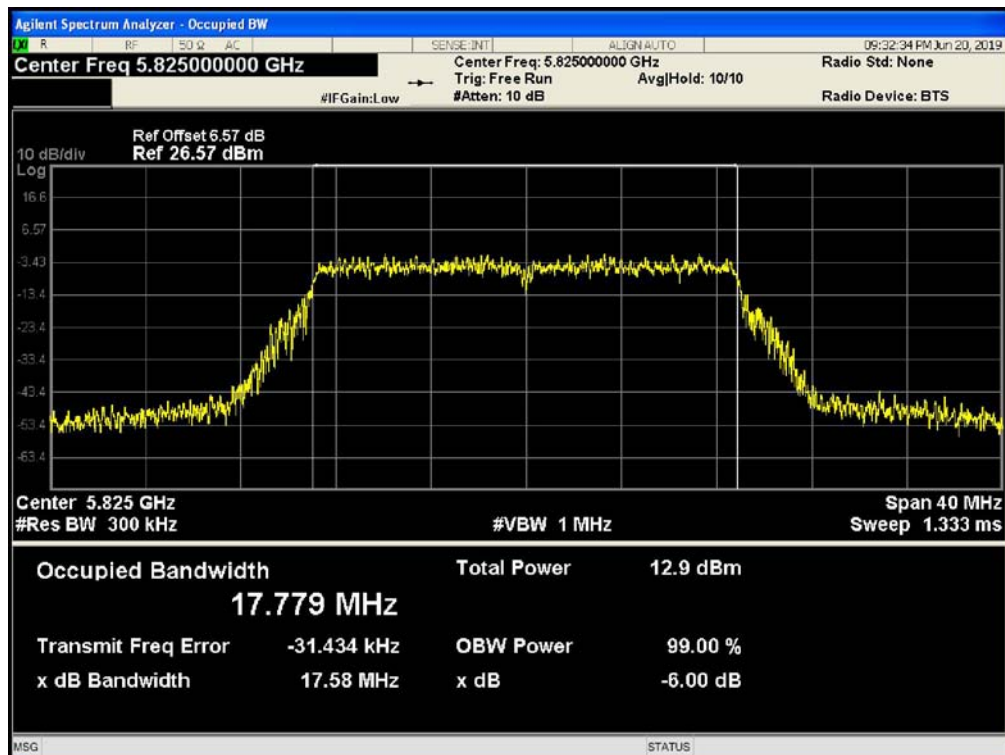
802.11ac(20) Mode

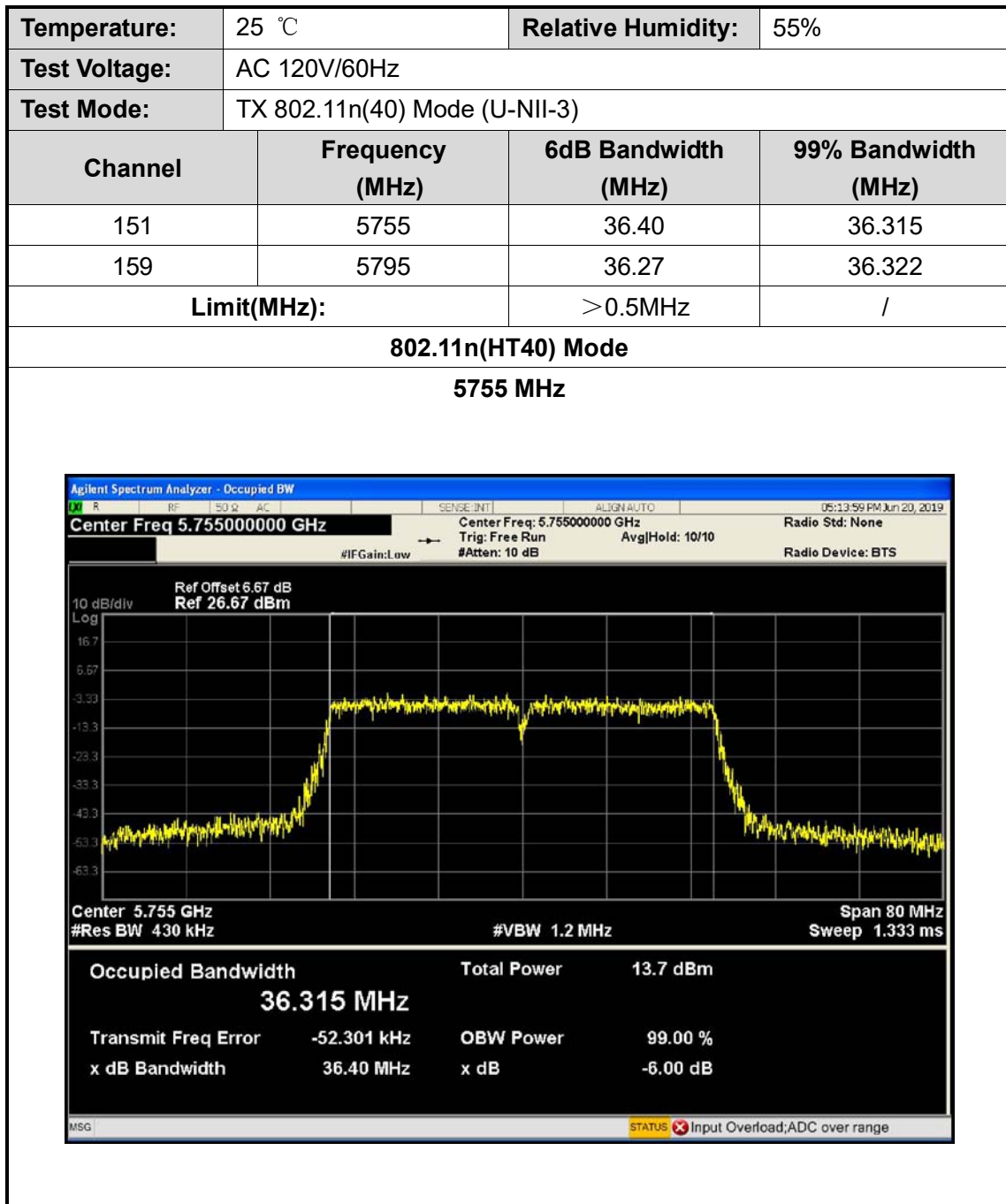
5785 MHz

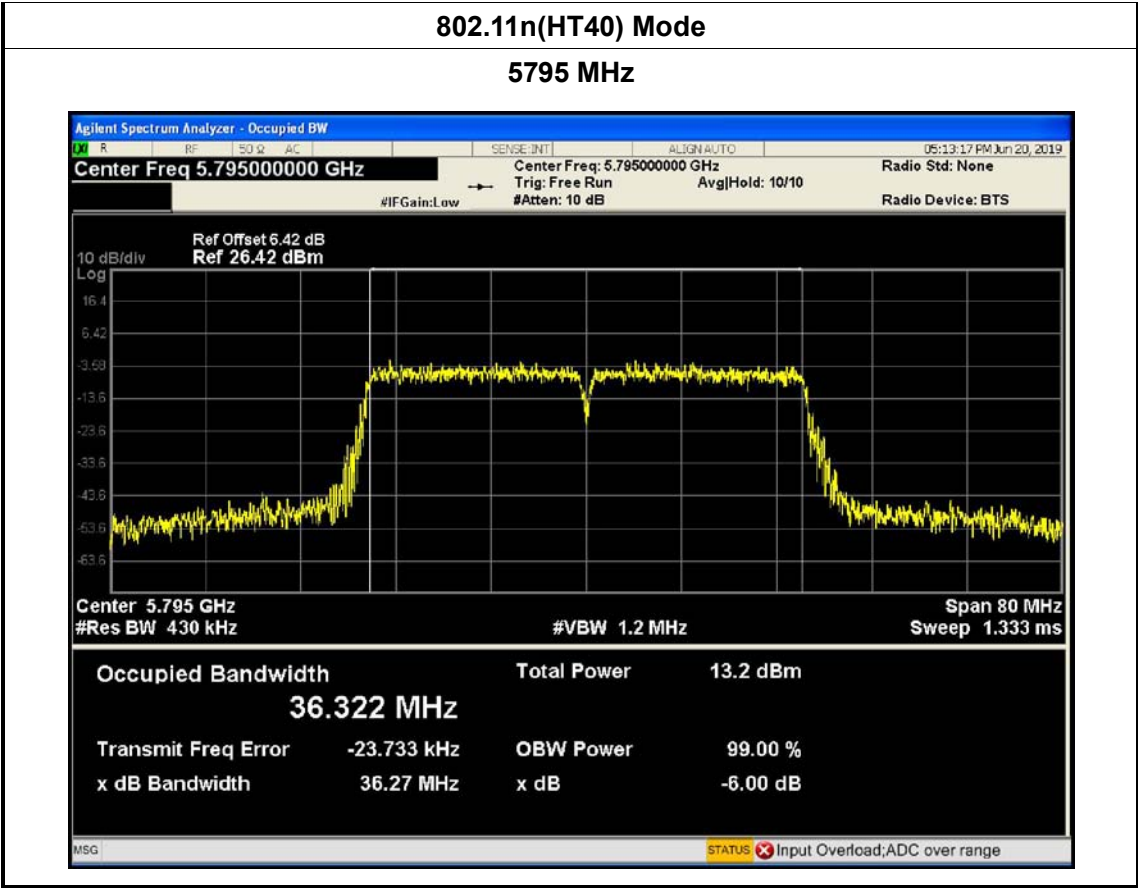


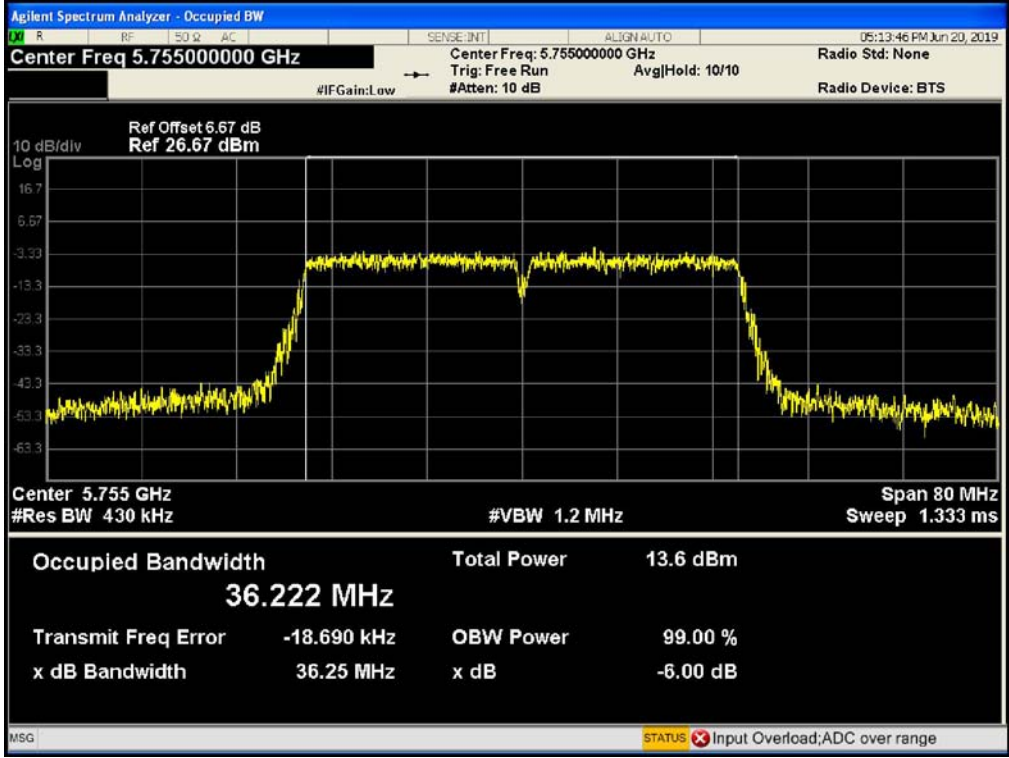
802.11ac(20) Mode

5825 MHz







Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(40) Mode (U-NII-3)		
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
151	5755	36.25	36.222
159	5795	36.33	36.210
Limit(MHz):		>0.5MHz	/
802.11ac(40) Mode			
5755 MHz			
 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.755000000 GHz Center Freq: 5.755000000 GHz Trig: Free Run #Gain: Low #Atten: 10 dB Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 6.67 dB Ref 26.67 dBm 10 dB/div Log Center 5.755 GHz #Res BW 430 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1.333 ms Occupied Bandwidth 36.222 MHz Total Power 13.6 dBm Transmit Freq Error -18.690 kHz OBW Power 99.00 % x dB Bandwidth 36.25 MHz x dB -6.00 dB STATUS Input Overload; ADC over range			

