





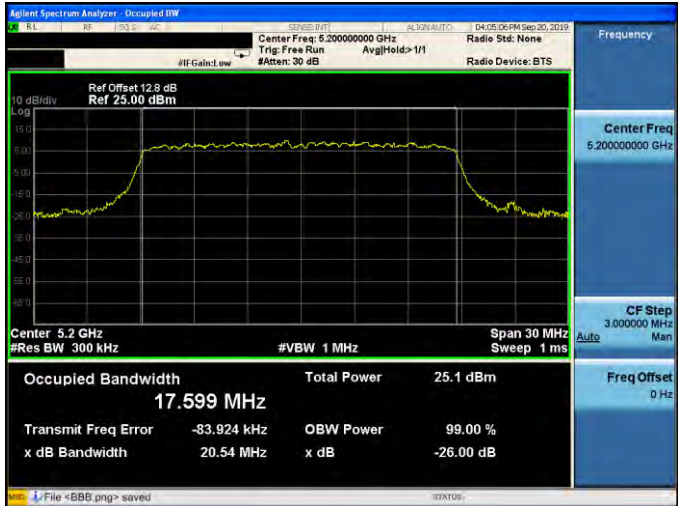



■ Test Graphs

Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5180 MHz	 <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>16.435 MHz</b></p> <p>Total Power 25.6 dBm</p> <p>Transmit Freq Error -82.508 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 19.90 MHz</p> <p>x dB -26.00 dB</p> <p>Frequency Center Freq 5.18000000 GHz</p> <p>CF Step 3.000000 MHz Auto</p> <p>Freq Offset 0 Hz</p> <p>File &lt;6B6.png&gt; saved</p>
5200 MHz	 <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>16.465 MHz</b></p> <p>Total Power 25.0 dBm</p> <p>Transmit Freq Error -88.304 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 19.84 MHz</p> <p>x dB -26.00 dB</p> <p>Frequency Center Freq 5.20000000 GHz</p> <p>CF Step 3.000000 MHz Auto</p> <p>Freq Offset 0 Hz</p> <p>File &lt;6B6.png&gt; saved</p>
5240 MHz	 <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>16.486 MHz</b></p> <p>Total Power 25.1 dBm</p> <p>Transmit Freq Error -85.879 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 20.96 MHz</p> <p>x dB -26.00 dB</p> <p>Frequency Center Freq 5.24000000 GHz</p> <p>CF Step 3.000000 MHz Auto</p> <p>Freq Offset 0 Hz</p> <p>File &lt;6B6.png&gt; saved</p>



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode\_ANT-0

5180 MHz	 <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>17.581 MHz</b></p> <p>Total Power 25.9 dBm</p> <p>Transmit Freq Error -83.644 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 20.30 MHz</p> <p>x dB -26.00 dB</p> <p>Frequency Center Freq 5.18000000 GHz</p> <p>CF Step 3.000000 MHz Auto</p> <p>Freq Offset 0 Hz</p> <p>File &lt;6B6.png&gt; saved</p>
5200 MHz	 <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>17.599 MHz</b></p> <p>Total Power 25.1 dBm</p> <p>Transmit Freq Error -83.924 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 20.54 MHz</p> <p>x dB -26.00 dB</p> <p>Frequency Center Freq 5.20000000 GHz</p> <p>CF Step 3.000000 MHz Auto</p> <p>Freq Offset 0 Hz</p> <p>File &lt;6B6.png&gt; saved</p>
5240 MHz	 <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>17.608 MHz</b></p> <p>Total Power 24.6 dBm</p> <p>Transmit Freq Error -95.415 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 20.31 MHz</p> <p>x dB -26.00 dB</p> <p>Frequency Center Freq 5.24000000 GHz</p> <p>CF Step 3.000000 MHz Auto</p> <p>Freq Offset 0 Hz</p> <p>File &lt;6B6.png&gt; saved</p>



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode\_ANT-0

5190 MHz



5230 MHz



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode\_ANT-0




5210 MHz





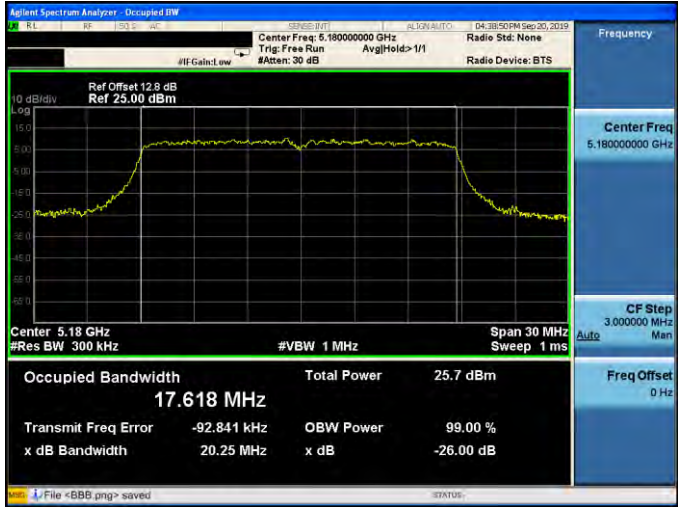




Mode 2: IEEE 802.11a Continuous TX mode\_ ANT-1

5180 MHz	 <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>16.482 MHz</b></p> <p>Total Power 25.8 dBm</p> <p>Transmit Freq Error -102.87 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 19.59 MHz</p> <p>x dB -26.00 dB</p> <p>Radio Device: BTS</p> <p>Center Freq 5.18000000 GHz</p> <p>CF Step 3.000000 MHz Auto</p> <p>Freq Offset 0 Hz</p> <p>File &lt;6B6.png&gt; saved</p>
5200 MHz	 <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>16.490 MHz</b></p> <p>Total Power 26.0 dBm</p> <p>Transmit Freq Error -106.32 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 19.34 MHz</p> <p>x dB -26.00 dB</p> <p>Radio Device: BTS</p> <p>Center Freq 5.20000000 GHz</p> <p>CF Step 3.000000 MHz Auto</p> <p>Freq Offset 0 Hz</p> <p>File &lt;6B6.png&gt; saved</p>
5240 MHz	 <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>16.494 MHz</b></p> <p>Total Power 25.8 dBm</p> <p>Transmit Freq Error -101.50 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 19.73 MHz</p> <p>x dB -26.00 dB</p> <p>Radio Device: BTS</p> <p>Center Freq 5.24000000 GHz</p> <p>CF Step 3.000000 MHz Auto</p> <p>Freq Offset 0 Hz</p> <p>File &lt;6B6.png&gt; saved</p>



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode\_ANT-1

5180 MHz	 <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>17.618 MHz</b></p> <p>Total Power 25.7 dBm</p> <p>Transmit Freq Error -92.841 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 20.25 MHz</p> <p>x dB -26.00 dB</p> <p>Radio Device: BTS</p> <p>Center Freq 5.18000000 GHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p> <p>File &lt;5B6.png&gt; saved</p>
5200 MHz	 <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>17.624 MHz</b></p> <p>Total Power 26.0 dBm</p> <p>Transmit Freq Error -93.580 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 20.39 MHz</p> <p>x dB -26.00 dB</p> <p>Radio Device: BTS</p> <p>Center Freq 5.20000000 GHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p> <p>File &lt;5B6.png&gt; saved</p>
5240 MHz	 <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>17.621 MHz</b></p> <p>Total Power 25.6 dBm</p> <p>Transmit Freq Error -90.997 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 20.33 MHz</p> <p>x dB -26.00 dB</p> <p>Radio Device: BTS</p> <p>Center Freq 5.24000000 GHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p> <p>File &lt;5B6.png&gt; saved</p>



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode\_ANT-1

5190 MHz



5230 MHz



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode\_ANT-1

5210 MHz



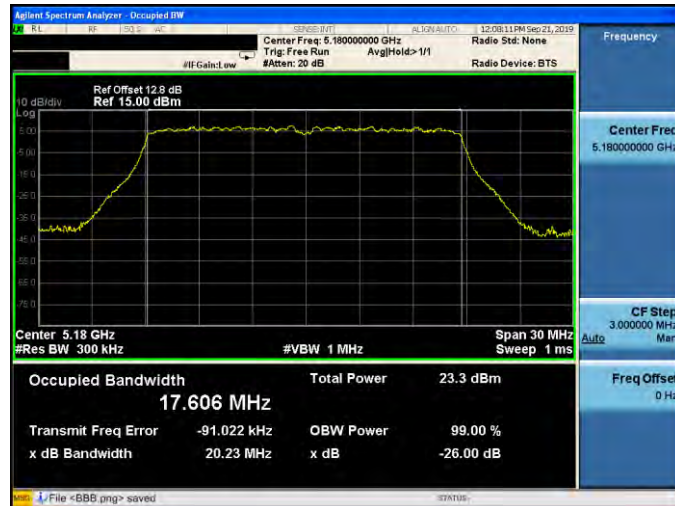




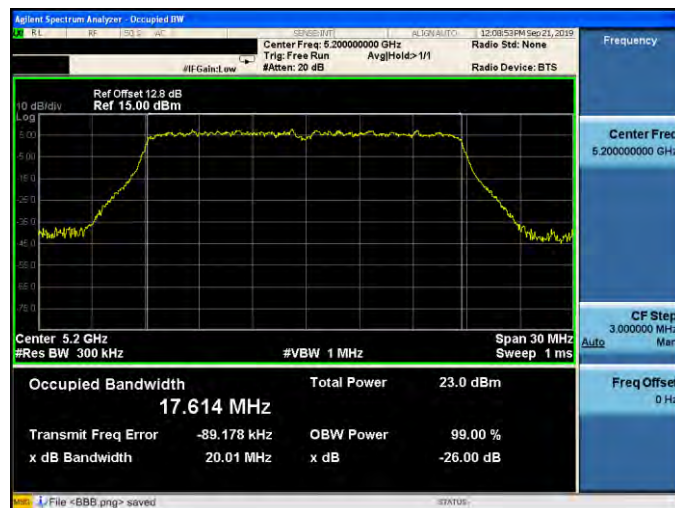
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Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode\_ ANT-0

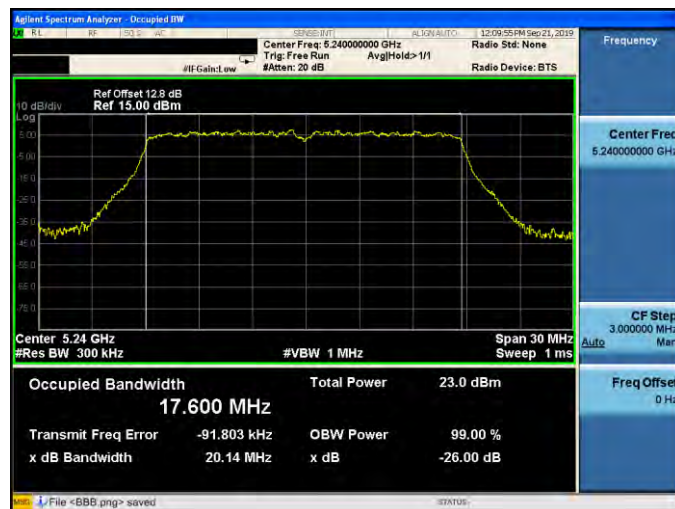
5180 MHz



5200 MHz



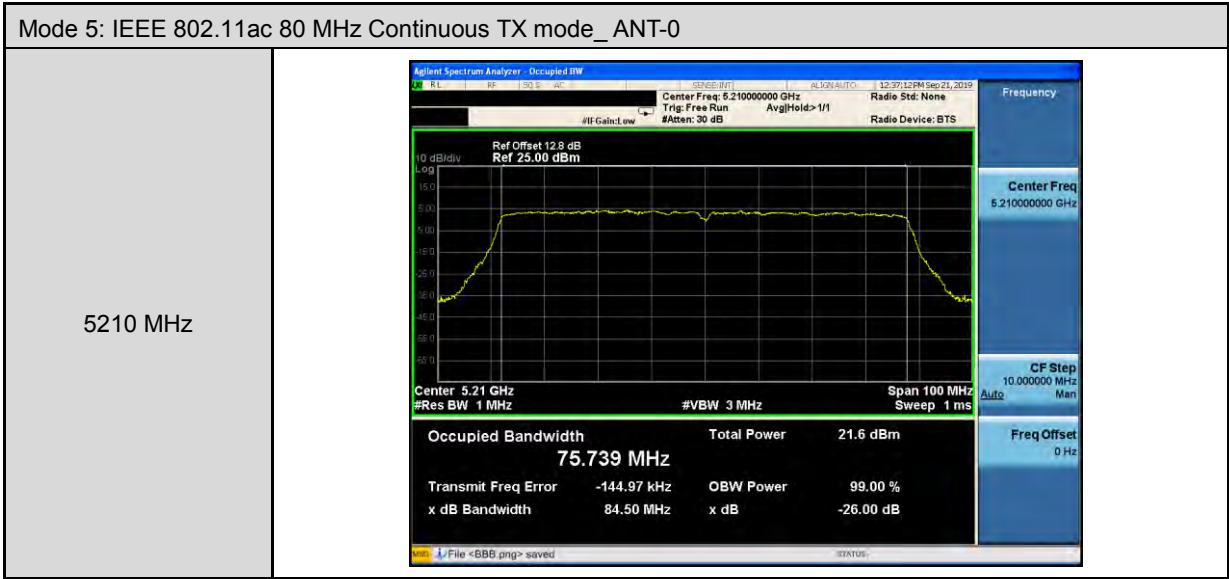
5240 MHz

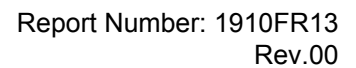






Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-0	
5190 MHz	
5230 MHz	



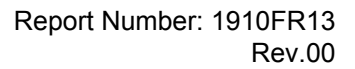


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Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-1	
5190 MHz	
5230 MHz	







#### 6 dB RF Bandwidth Measurement

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode		
Frequency (MHz)	ANT-0	ANT-1	Limit (kHz)
5745	16390	16400	$\geq 500$
5785	16390	16400	$\geq 500$
5825	16380	16370	$\geq 500$

Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode		
Frequency (MHz)	ANT-0	ANT-1	Limit (kHz)
5745	17600	17650	$\geq 500$
5785	17600	17620	$\geq 500$
5825	17610	17620	$\geq 500$

Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode		
Frequency (MHz)	ANT-0	ANT-1	Limit (kHz)
5755	35310	35150	$\geq 500$
5795	35190	35140	$\geq 500$

Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode		
Frequency (MHz)	ANT-0	ANT-1	Limit (kHz)
5775	75510	75460	$\geq 500$



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Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode		
Frequency (MHz)	ANT-0	ANT-1	Limit (kHz)
5745	17610	17630	≥ 500
5785	17630	17620	≥ 500
5825	17620	17620	≥ 500

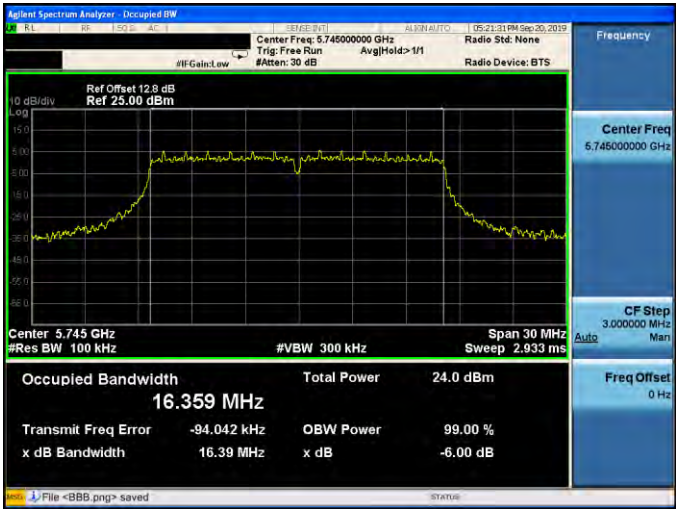


Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode		
Frequency (MHz)	ANT-0	ANT-1	Limit (kHz)
5755	35350	35320	≥ 500
5795	35370	35370	≥ 500

Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode		
Frequency (MHz)	ANT-0	ANT-1	Limit (kHz)
5775	75860	75840	≥ 500








■ Test Graphs



Mode 2: IEEE 802.11a Continuous TX mode_ANT-0	
5745 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.74500000 GHz Trig: Free Run #IF Gain: Low #Atten: 30 dB Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 16.359 MHz Total Power 24.0 dBm Transmit Freq Error -94.042 kHz OBW Power 99.00 % x dB Bandwidth 16.39 MHz x dB -6.00 dB</p> <p>File &lt;BBB.png&gt; saved</p>
5785 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.78500000 GHz Trig: Free Run #IF Gain: Low #Atten: 30 dB Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 16.368 MHz Total Power 23.8 dBm Transmit Freq Error -93.667 kHz OBW Power 99.00 % x dB Bandwidth 16.39 MHz x dB -6.00 dB</p> <p>File &lt;BBB.png&gt; saved</p>
5825 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.82500000 GHz Trig: Free Run #IF Gain: Low #Atten: 30 dB Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 16.375 MHz Total Power 23.9 dBm Transmit Freq Error -102.16 kHz OBW Power 99.00 % x dB Bandwidth 16.38 MHz x dB -6.00 dB</p> <p>File &lt;BBB.png&gt; saved</p>



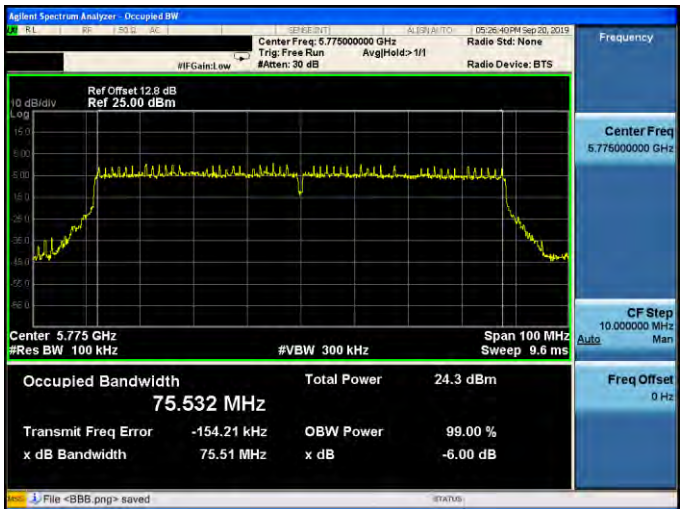
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0	
5745 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.74500000 GHz Trig: Free Run #IF Gain: Low #Atten: 30 dB Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.585 MHz Total Power 23.4 dBm Transmit Freq Error -90.214 kHz OBW Power 99.00 % x dB Bandwidth 17.60 MHz x dB -6.00 dB</p> <p>File &lt;BBB.png&gt; saved</p>
5785 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.78500000 GHz Trig: Free Run #IF Gain: Low #Atten: 30 dB Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.586 MHz Total Power 23.5 dBm Transmit Freq Error -92.204 kHz OBW Power 99.00 % x dB Bandwidth 17.60 MHz x dB -6.00 dB</p> <p>File &lt;BBB.png&gt; saved</p>
5825 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.82500000 GHz Trig: Free Run #IF Gain: Low #Atten: 30 dB Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.579 MHz Total Power 24.1 dBm Transmit Freq Error -93.491 kHz OBW Power 99.00 % x dB Bandwidth 17.61 MHz x dB -6.00 dB</p> <p>File &lt;BBB.png&gt; saved</p>



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode\_ANT-0

5755 MHz	
5795 MHz	

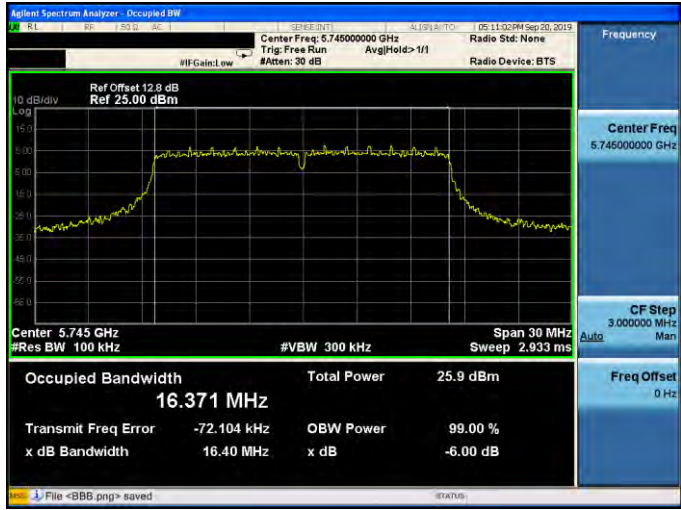
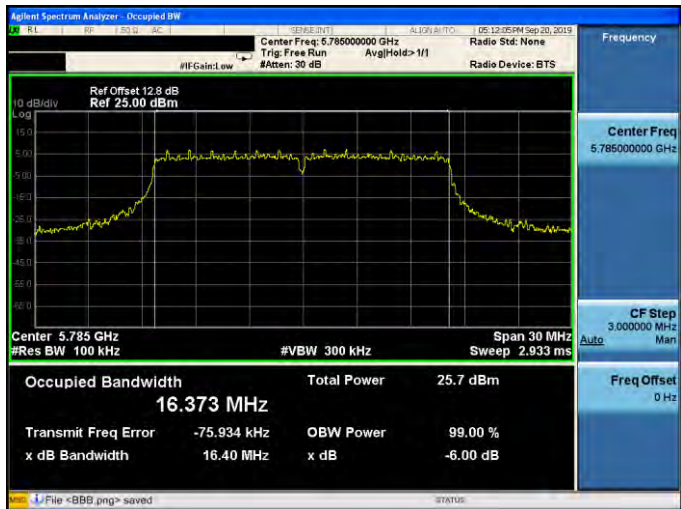
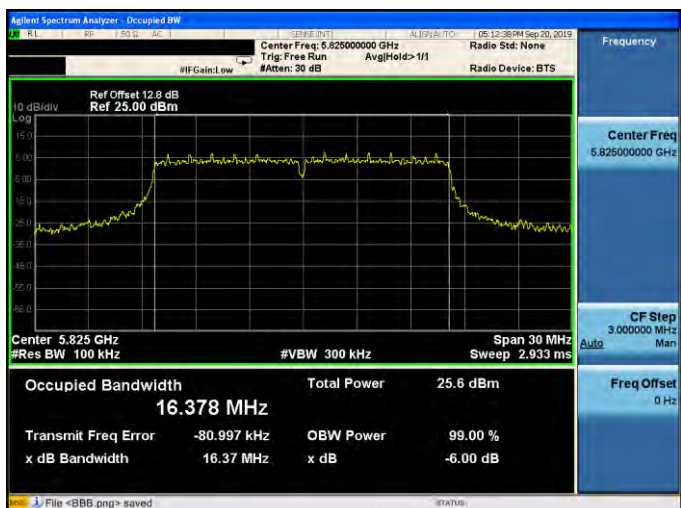
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode\_ANT-0

5775 MHz	
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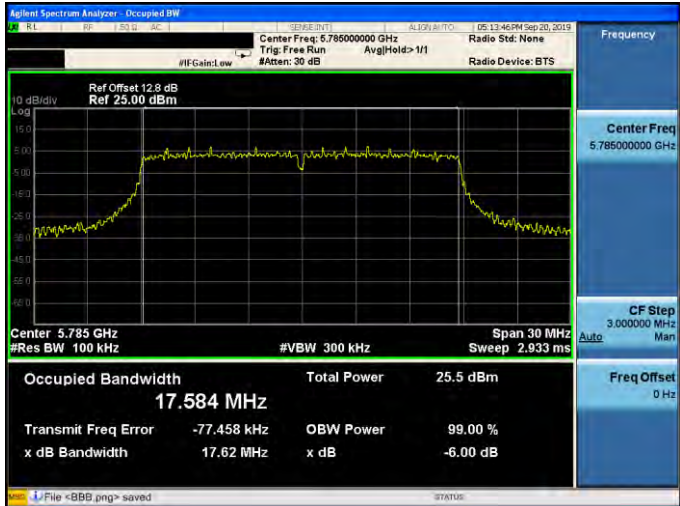
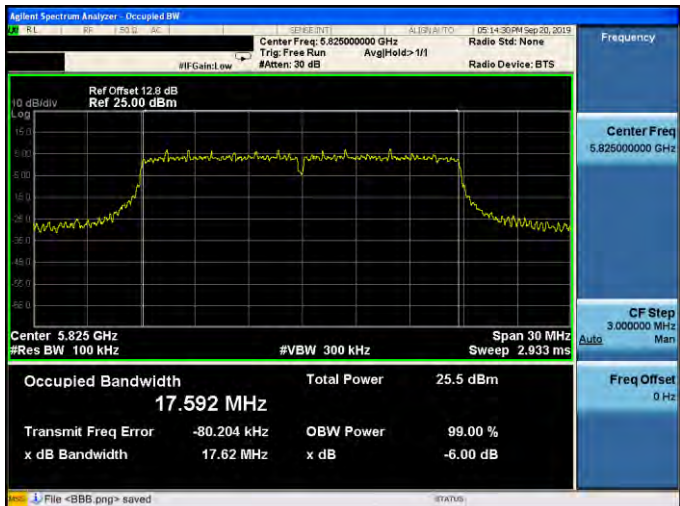


Mode 2: IEEE 802.11a Continuous TX mode\_ANT-1

5745 MHz	
5785 MHz	
5825 MHz	



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode\_ANT-1

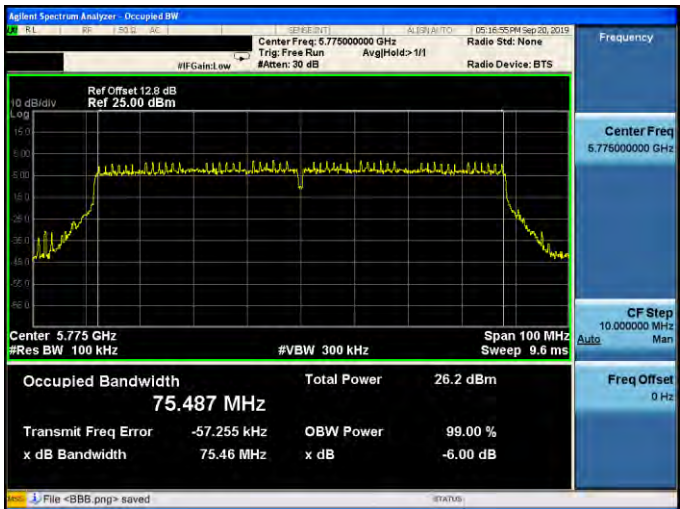
5745 MHz	
5785 MHz	
5825 MHz	



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode\_ANT-1

5755 MHz	
5795 MHz	

Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode\_ANT-1

5775 MHz	
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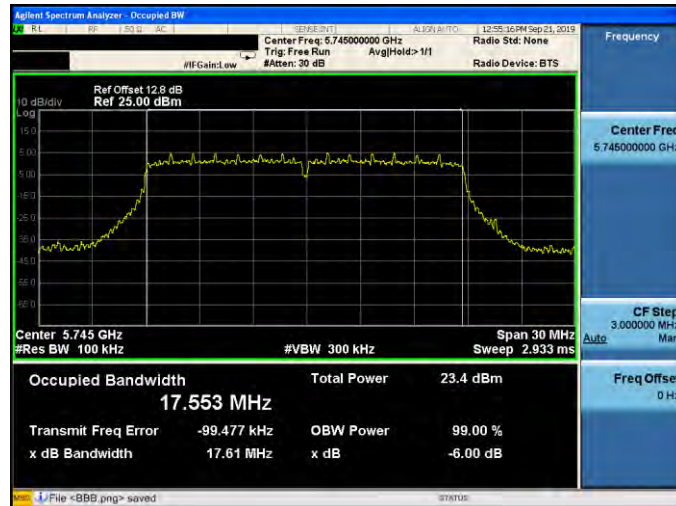




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Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode\_ANT-0

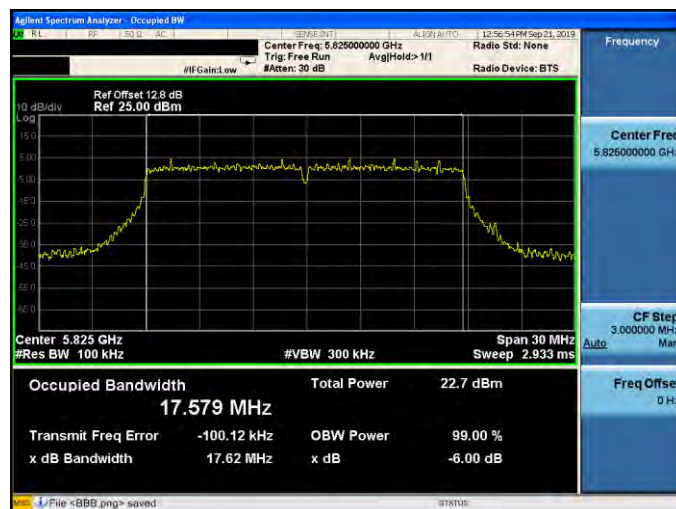
5745 MHz





5785 MHz

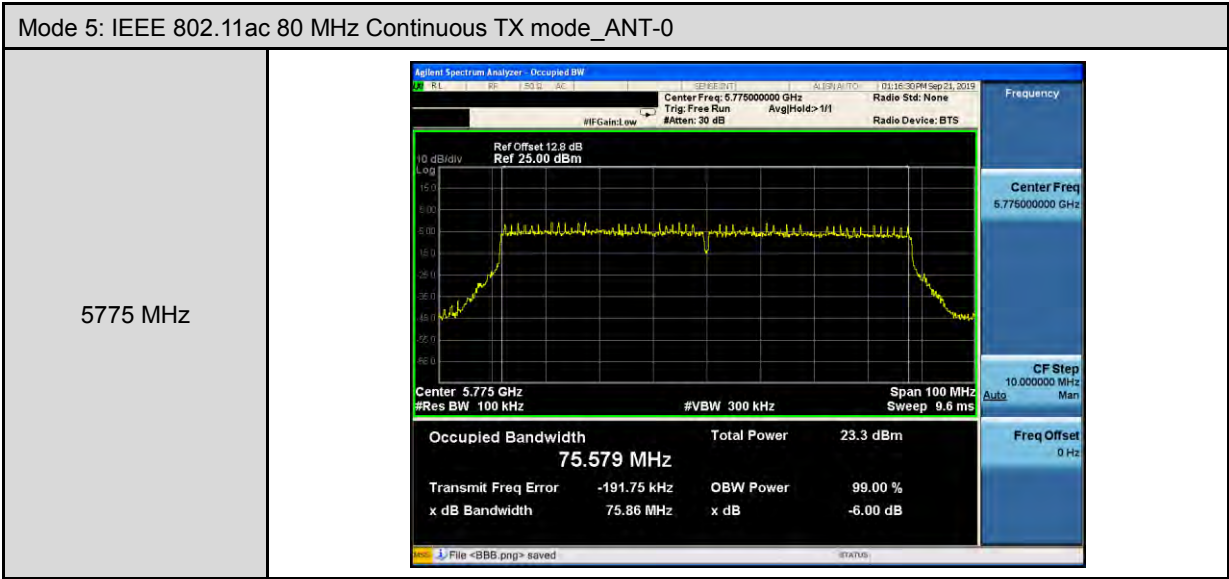


5825 MHz



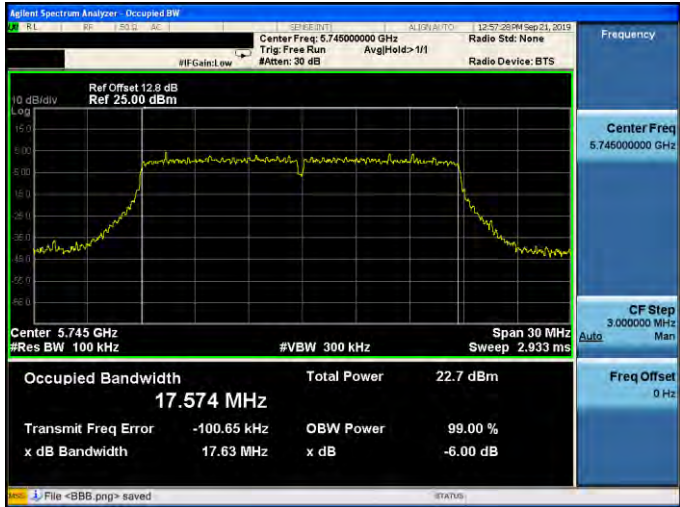
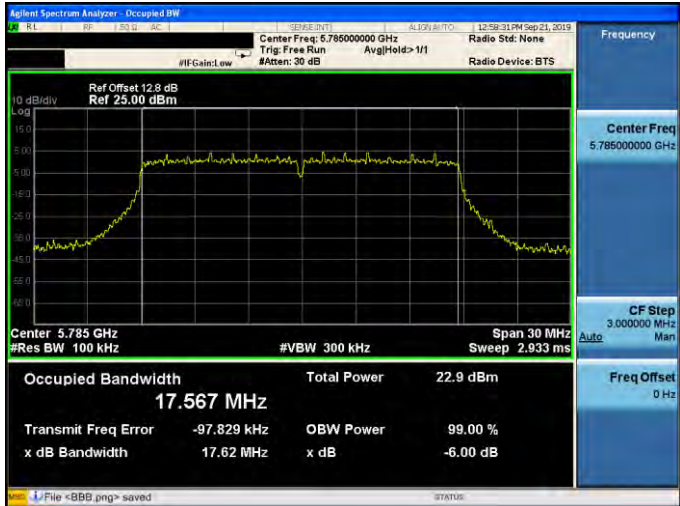
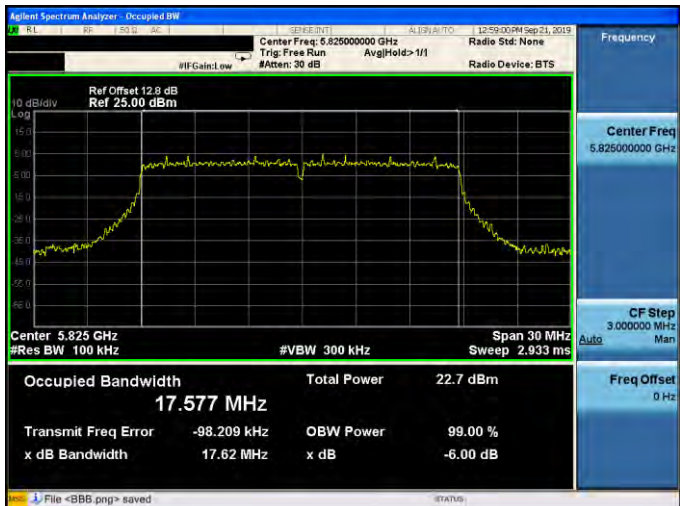


Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-0	
5755 MHz	
5795 MHz	







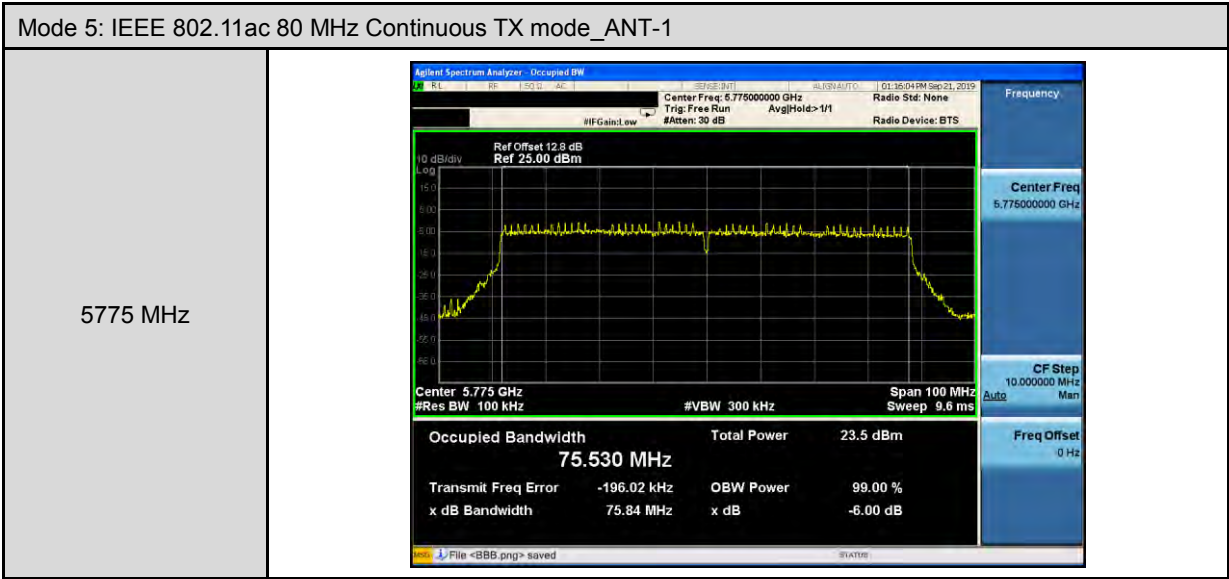
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode\_ANT-1

5745 MHz	
5785 MHz	
5825 MHz	





Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-1	
5755 MHz	
5795 MHz	





### Maximum Power Spectral Density Measurement

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	8.030	0.123	8.153	≤ 15.28
5200	7.446	0.123	7.569	
5240	7.843	0.123	7.966	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	7.479	0.123	7.602	≤ 15.28
5200	7.480	0.123	7.603	
5240	7.224	0.123	7.347	
Frequency (MHz)	ANT-0+1			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5180	10.896			≤ 15.28
5200	10.596			
5240	10.678			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-1.512	0.123	5.601	≤ 28.52
5785	-1.722	0.123	5.391	
5825	-1.769	0.123	5.344	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-1.835	0.123	5.278	≤ 28.52
5785	-2.057	0.123	5.056	
5825	-1.780	0.123	5.333	
Frequency (MHz)	ANT-0+1			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5745	8.452			≤ 28.52
5785	8.237			
5825	8.348			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)



Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	7.779	0.038	7.817	≤ 15.28
5200	7.359	0.038	7.397	
5240	7.753	0.038	7.791	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	7.823	0.038	7.861	≤ 15.28
5200	7.638	0.038	7.676	
5240	7.858	0.038	7.896	
Frequency (MHz)	ANT-0+1			Limit (dBm/MHz)
	Calculated (dBm/MHz)			
5180	10.850			≤ 15.28
5200	10.550			
5240	10.855			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.



Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-1.962	0.038	5.066	≤ 28.52
5785	-2.051	0.038	4.977	
5825	-2.194	0.038	4.834	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-1.815	0.038	5.213	≤ 28.52
5785	-1.865	0.038	5.163	
5825	-1.741	0.038	5.287	
Frequency (MHz)	ANT-0+1			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5745	8.151			≤ 28.52
5785	8.081			
5825	8.077			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)



Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	5.523	0.105	5.628	≤ 15.28
5230	5.567	0.105	5.672	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	5.689	0.105	5.794	≤ 15.28
5230	5.517	0.105	5.622	
Frequency (MHz)	ANT-0+1			Limit (dBm/MHz)
	Calculated (dBm/MHz)			
5190	8.722			≤ 15.28
5230	8.657			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-5.083	0.105	2.011	≤ 28.52
5795	-4.728	0.105	2.366	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-4.769	0.105	2.325	≤ 28.52
5795	-4.930	0.105	2.164	
Frequency (MHz)	ANT-0+1			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5755	5.181			≤ 28.52
5795	5.277			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)



Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-0.284	0.237	-0.047	≤ 15.28
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-0.422	0.237	-0.185	≤ 15.28
Frequency (MHz)	ANT-0+1			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5210	2.895			≤ 15.28

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.



Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-8.635	0.237	-1.409	$\leq 28.52$
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-8.900	0.237	-1.674	$\leq 28.52$
Frequency (MHz)	ANT-0+1			
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)
5775	1.471			$\leq 28.52$

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)

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Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	4.649	0.038	4.687	≤ 15.28
5200	4.668	0.038	4.706	
5240	4.578	0.038	4.616	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	4.691	0.038	4.729	≤ 15.28
5200	4.679	0.038	4.717	
5240	4.678	0.038	4.716	
Frequency (MHz)	ANT-0+1			Limit (dBm/MHz)
	Calculated (dBm/MHz)			
5180	7.719			≤ 15.28
5200	7.722			
5240	7.677			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-4.685	0.038	2.343	≤ 28.52
5785	-4.984	0.038	2.044	
5825	-4.589	0.038	2.439	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-4.220	0.038	2.808	≤ 28.52
5785	-4.956	0.038	2.072	
5825	-4.238	0.038	2.790	
Frequency (MHz)	ANT-0+1			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5745	5.592			≤ 28.52
5785	5.069			
5825	5.629			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)

Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	2.024	0.105	2.129	≤ 15.28
5230	2.127	0.105	2.232	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	1.974	0.105	2.079	≤ 15.28
5230	1.966	0.105	2.071	
Frequency (MHz)	ANT-0+1			Limit (dBm/MHz)
	Calculated (dBm/MHz)			
5190	5.114			≤ 15.28
5230	5.162			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.



Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-7.231	0.105	-0.137	≤ 28.52
5795	-7.102	0.105	-0.008	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-7.649	0.105	-0.555	≤ 28.52
5795	-7.318	0.105	-0.224	
Frequency (MHz)	ANT-0+1			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5755	2.670			≤ 28.52
5795	2.896			

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)



Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-3.937	0.237	-3.700	≤ 15.28
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-3.951	0.237	-3.714	≤ 15.28
Frequency (MHz)	ANT-0+1			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5210	-0.697			≤ 15.28

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.





Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-11.356	0.237	-4.130	≤ 28.52
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-11.666	0.237	-4.440	≤ 28.52
Frequency (MHz)	ANT-0+1			
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)
5775	-1.271			≤ 28.52

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10\*Log(500 k/100 k)

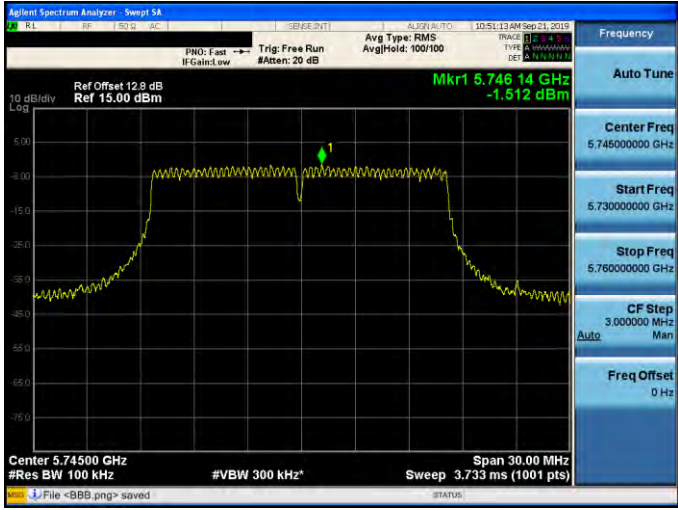
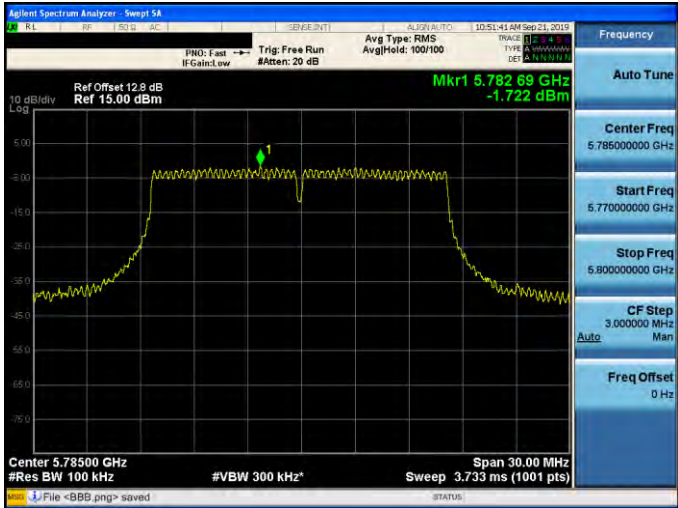
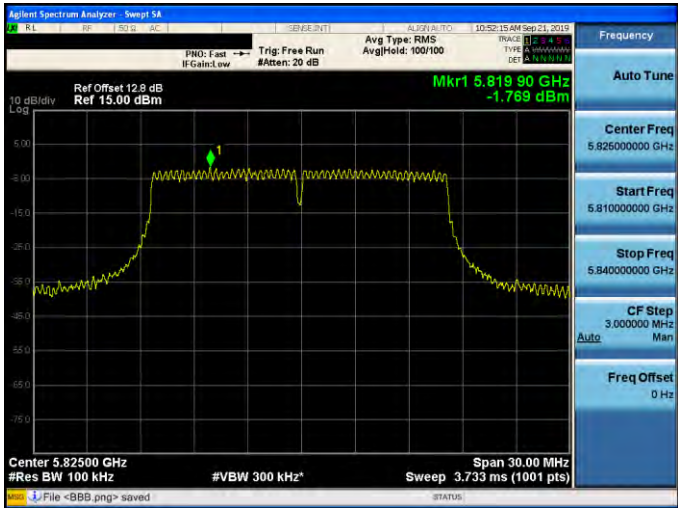


■ Test Graphs

Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5180 MHz	 <p>Agilent Spectrum Analyzer: Sweep 1A</p> <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Mkr1 5.174 87 GHz 8.030 dBm</p> <p>Center 5.18000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Span 30.00 MHz Sweep 1.000 ms (1001 pts)</p> <p>File &lt;BBB.png&gt; saved</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 5.18000000 GHz</p> <p>Start Freq 5.16500000 GHz</p> <p>Stop Freq 5.19500000 GHz</p> <p>CF Step 3.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
5200 MHz	 <p>Agilent Spectrum Analyzer: Sweep 1A</p> <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Mkr1 5.201 14 GHz 7.446 dBm</p> <p>Center 5.20000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Span 30.00 MHz Sweep 1.000 ms (1001 pts)</p> <p>File &lt;BBB.png&gt; saved</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 5.20000000 GHz</p> <p>Start Freq 5.18500000 GHz</p> <p>Stop Freq 5.21500000 GHz</p> <p>CF Step 3.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
5240 MHz	 <p>Agilent Spectrum Analyzer: Sweep 1A</p> <p>Ref Offset 12.8 dB Ref 25.00 dBm</p> <p>Mkr1 5.245 07 GHz 7.843 dBm</p> <p>Center 5.24000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Span 30.00 MHz Sweep 1.000 ms (1001 pts)</p> <p>File &lt;BBB.png&gt; saved</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 5.24000000 GHz</p> <p>Start Freq 5.22500000 GHz</p> <p>Stop Freq 5.25500000 GHz</p> <p>CF Step 3.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>



Mode 2: IEEE 802.11a Continuous TX mode\_ ANT-0

5745 MHz	
5785 MHz	
5825 MHz	

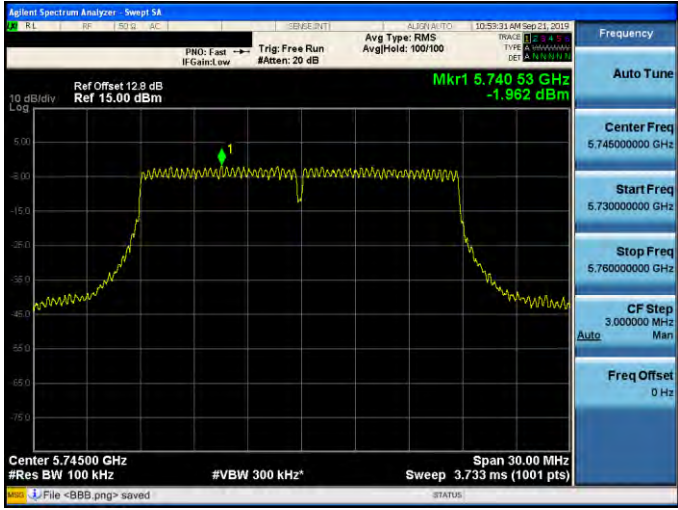
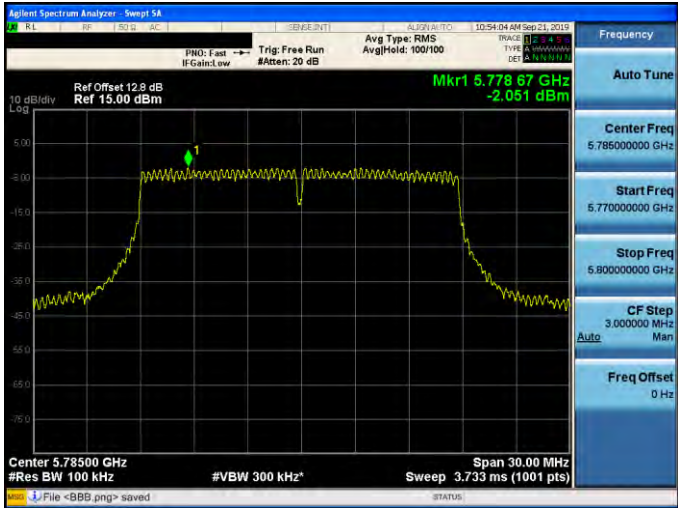
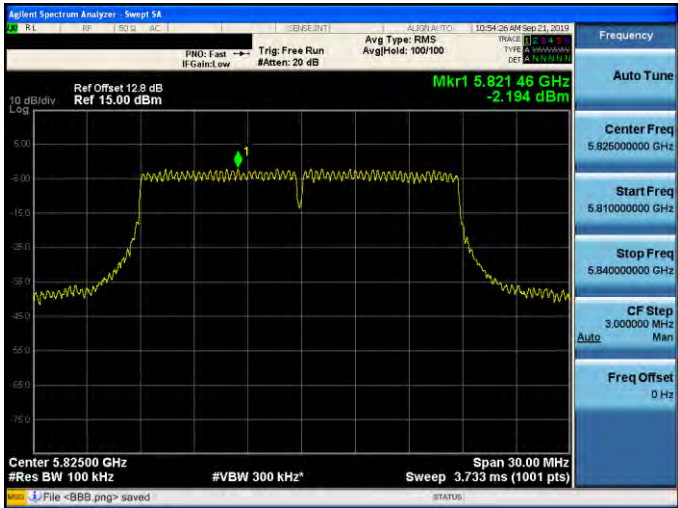




Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode _ ANT-0	
5180 MHz	
5200 MHz	
5240 MHz	



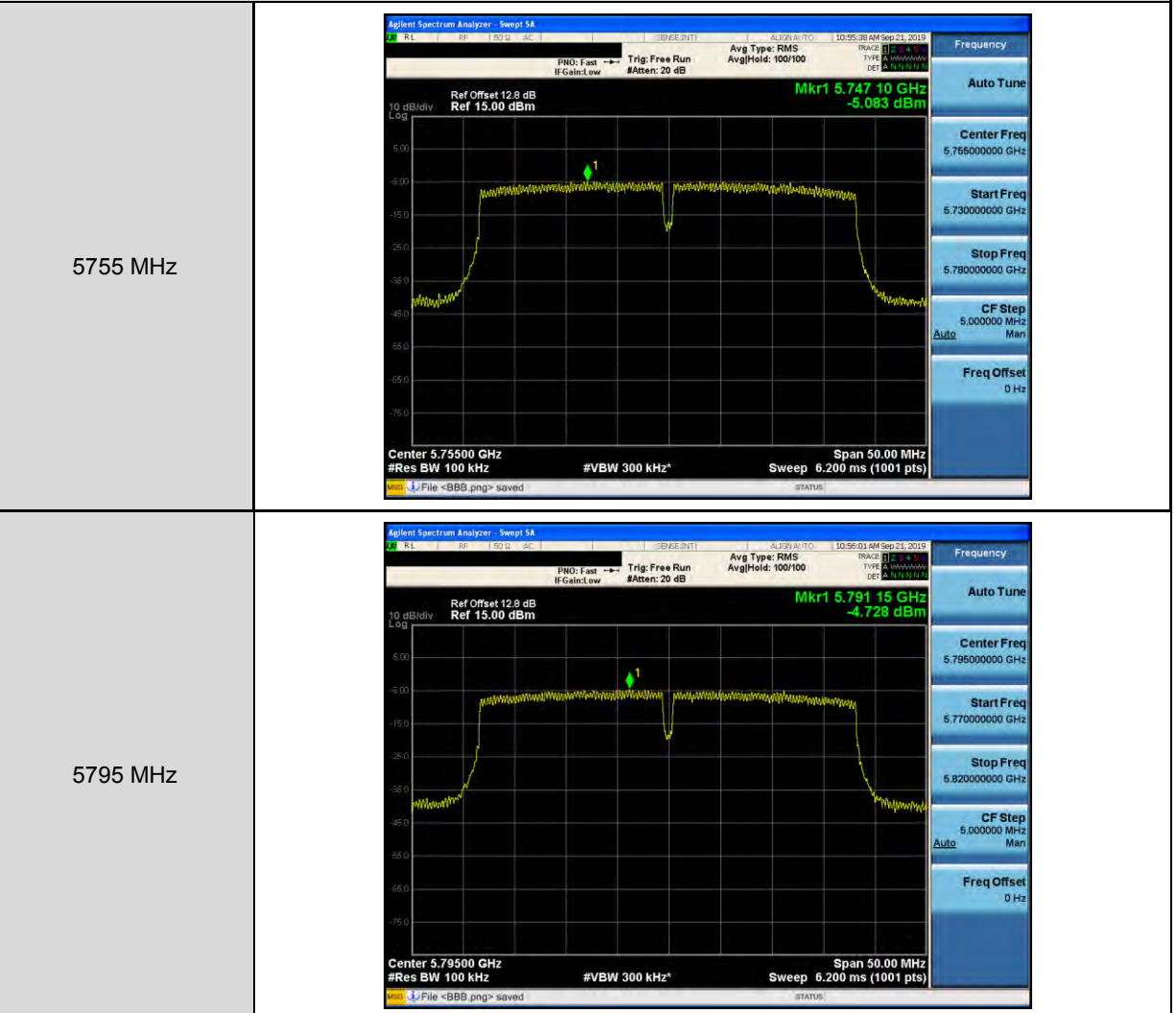
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode \_ ANT-0

5745 MHz	
5785 MHz	
5825 MHz	





Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode\_ANT-0







Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode \_ ANT-0

5210 MHz





Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode \_ ANT-0

5775 MHz



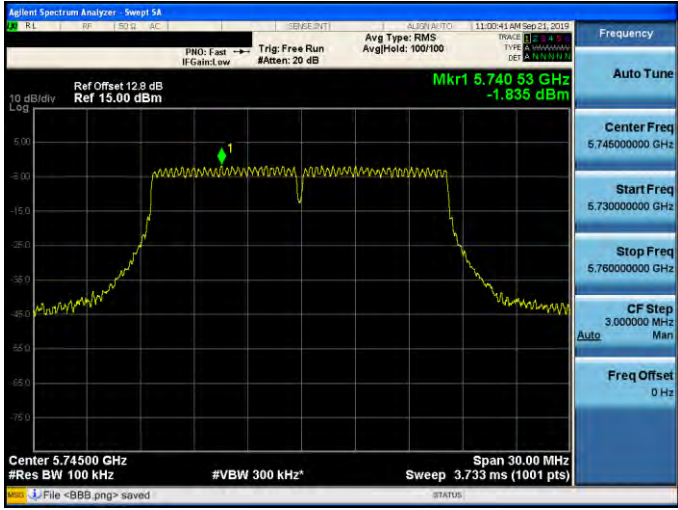
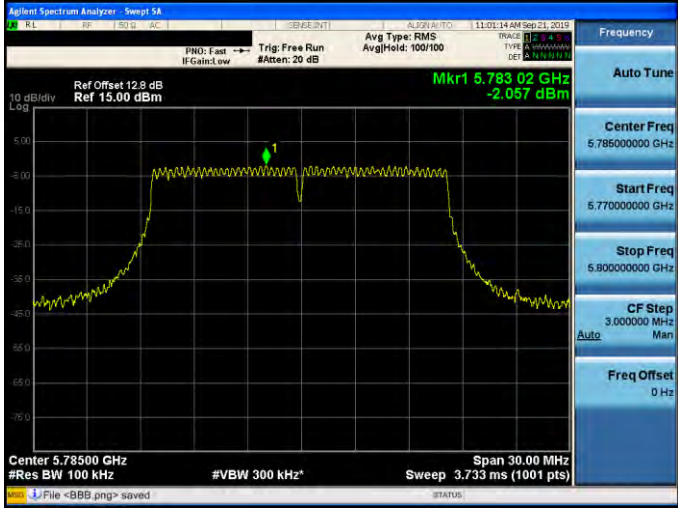
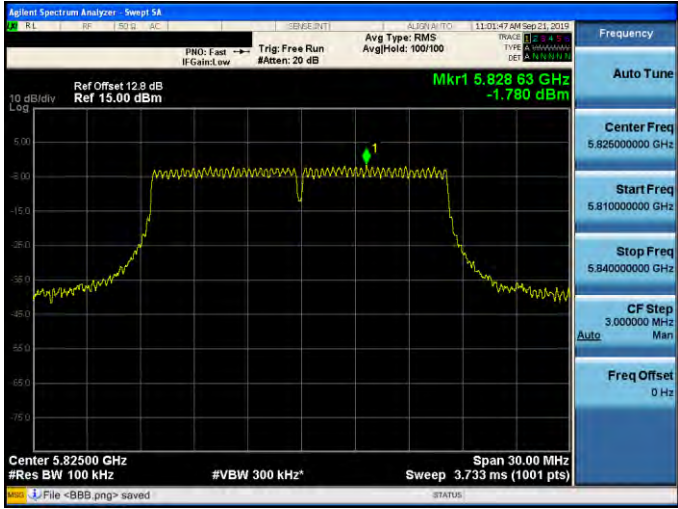




Mode 2: IEEE 802.11a Continuous TX mode_ ANT-1	
5180 MHz	
5200 MHz	
5240 MHz	



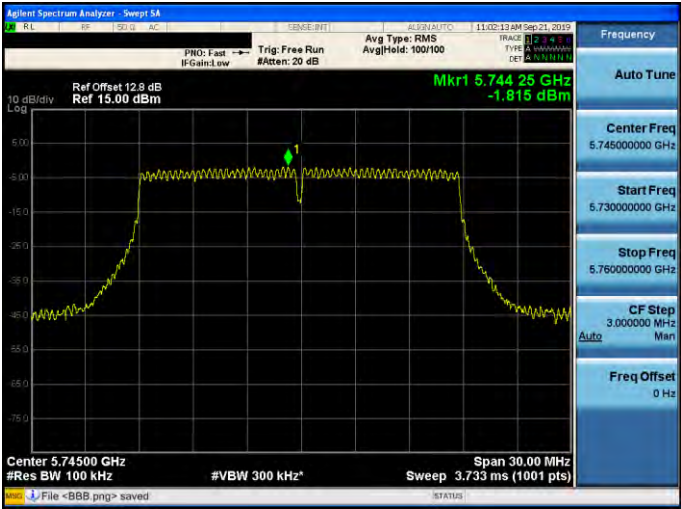
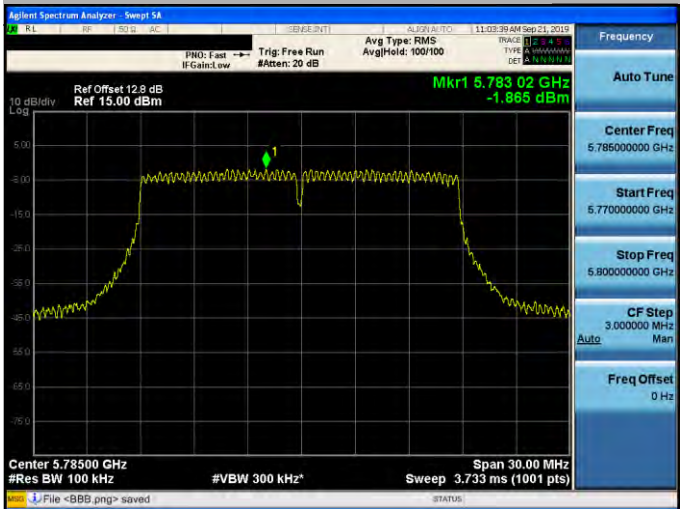
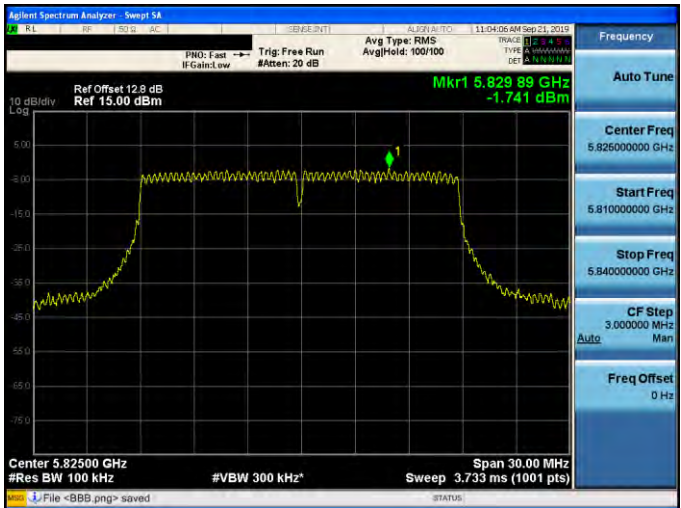
Mode 2: IEEE 802.11a Continuous TX mode\_ ANT-1

5745 MHz	
5785 MHz	
5825 MHz	

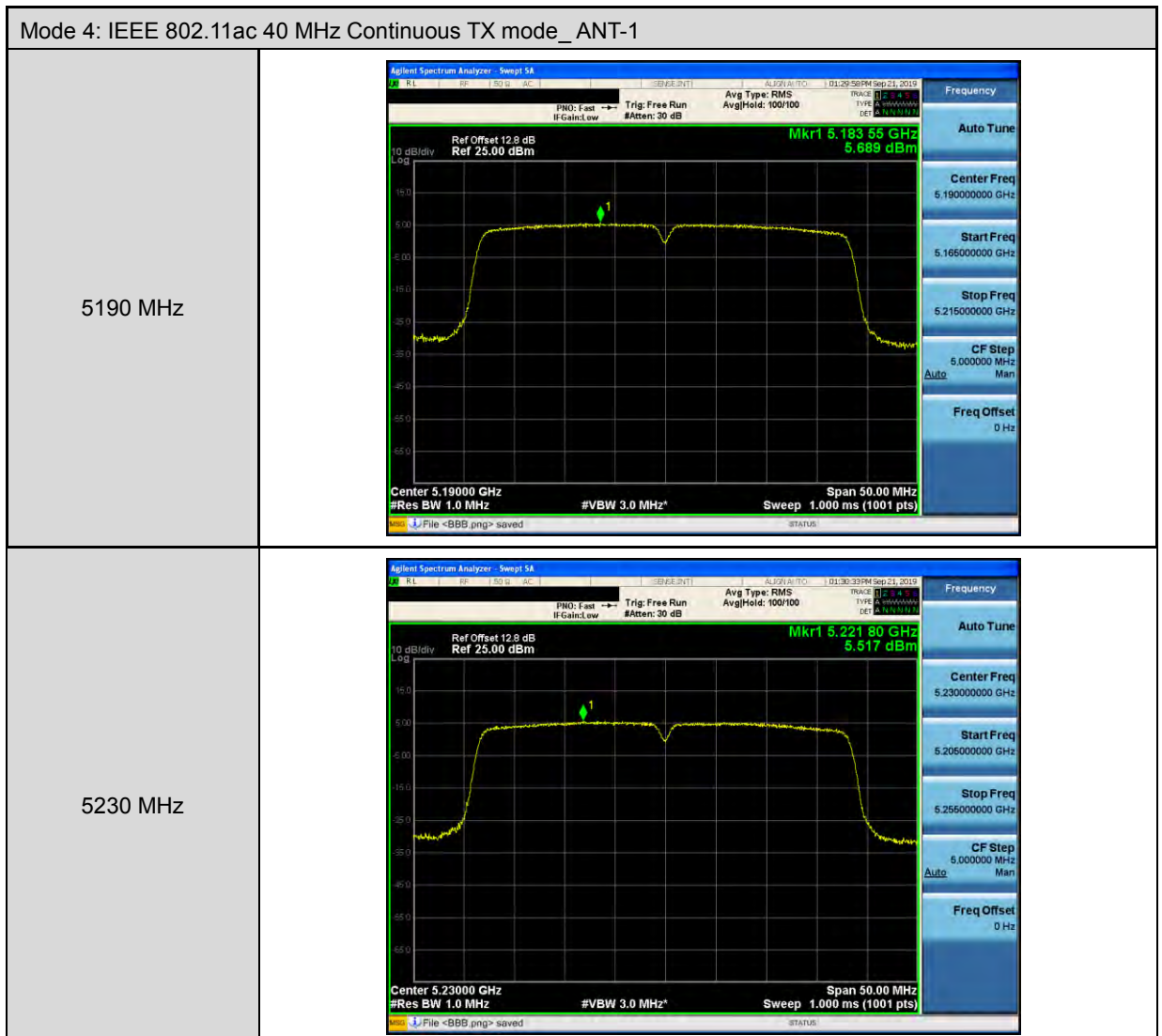


Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode _ ANT-1	
5180 MHz	
5200 MHz	
5240 MHz	

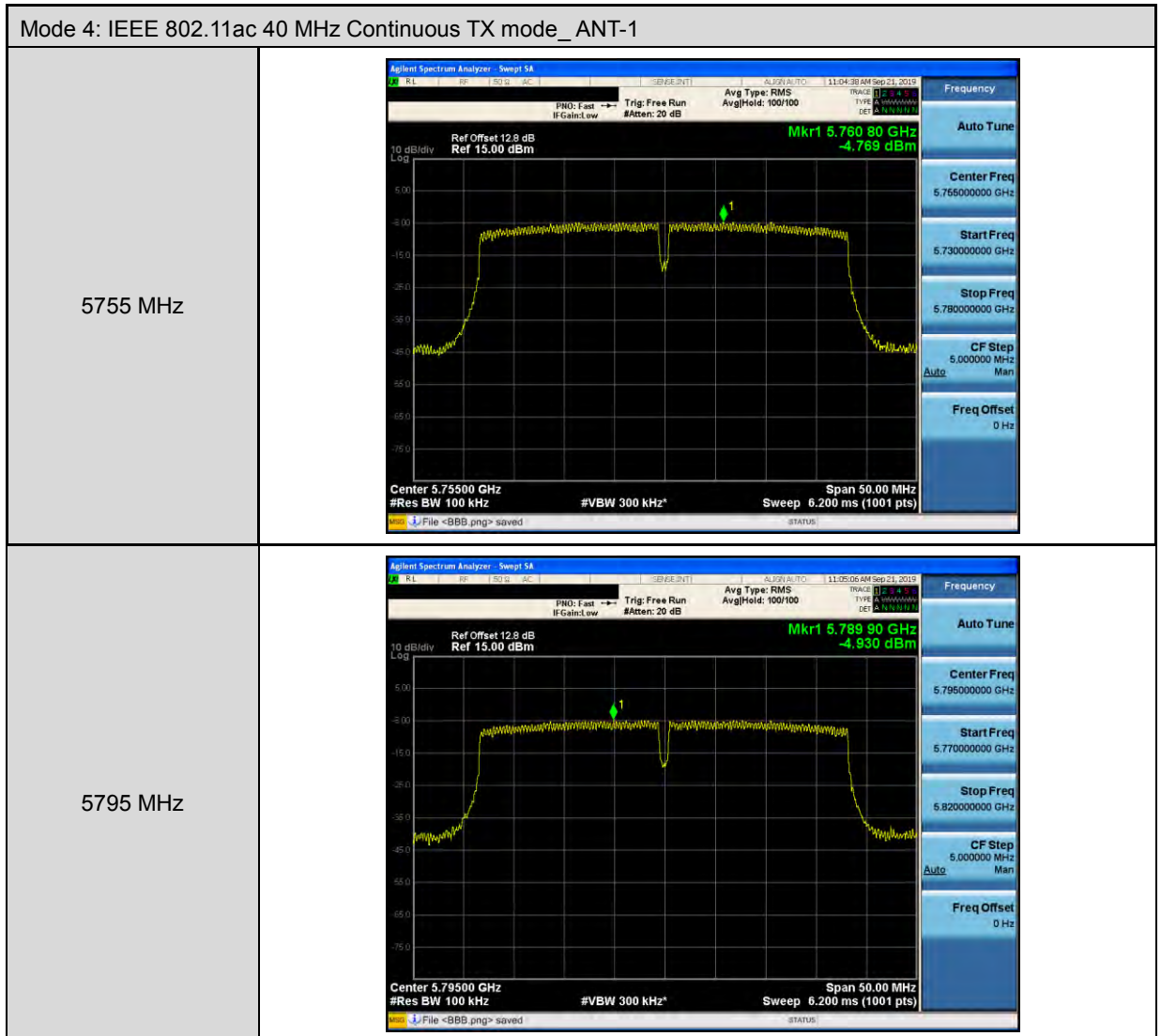


Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode _ ANT-1	
5745 MHz	
5785 MHz	
5825 MHz	











Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode \_ ANT-1

5210 MHz



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode \_ ANT-1

5775 MHz





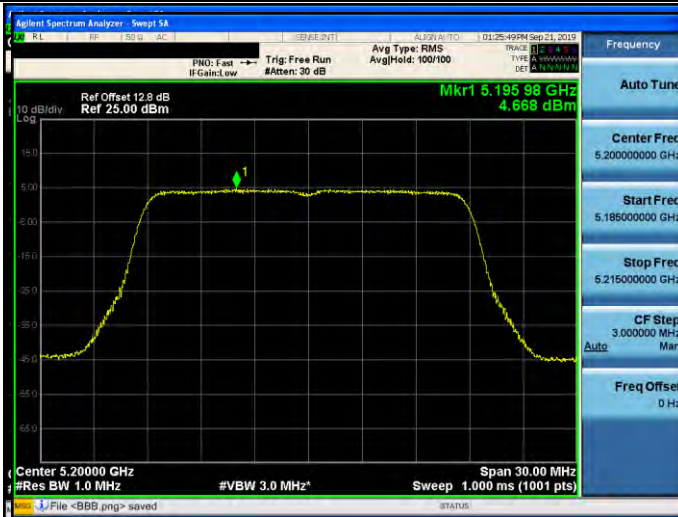
Beamforming on

Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode \_ ANT-0

5180 MHz



5200 MHz


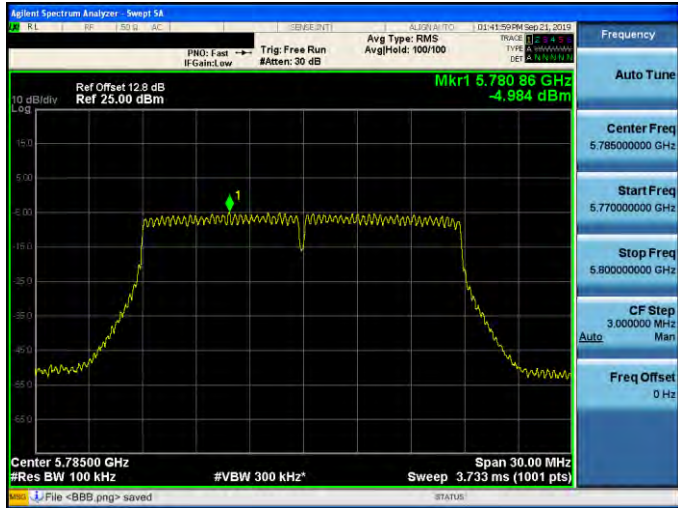
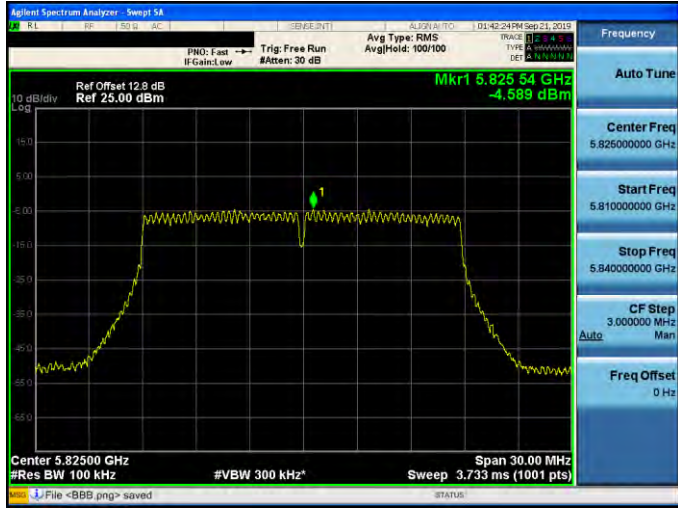


5240 MHz



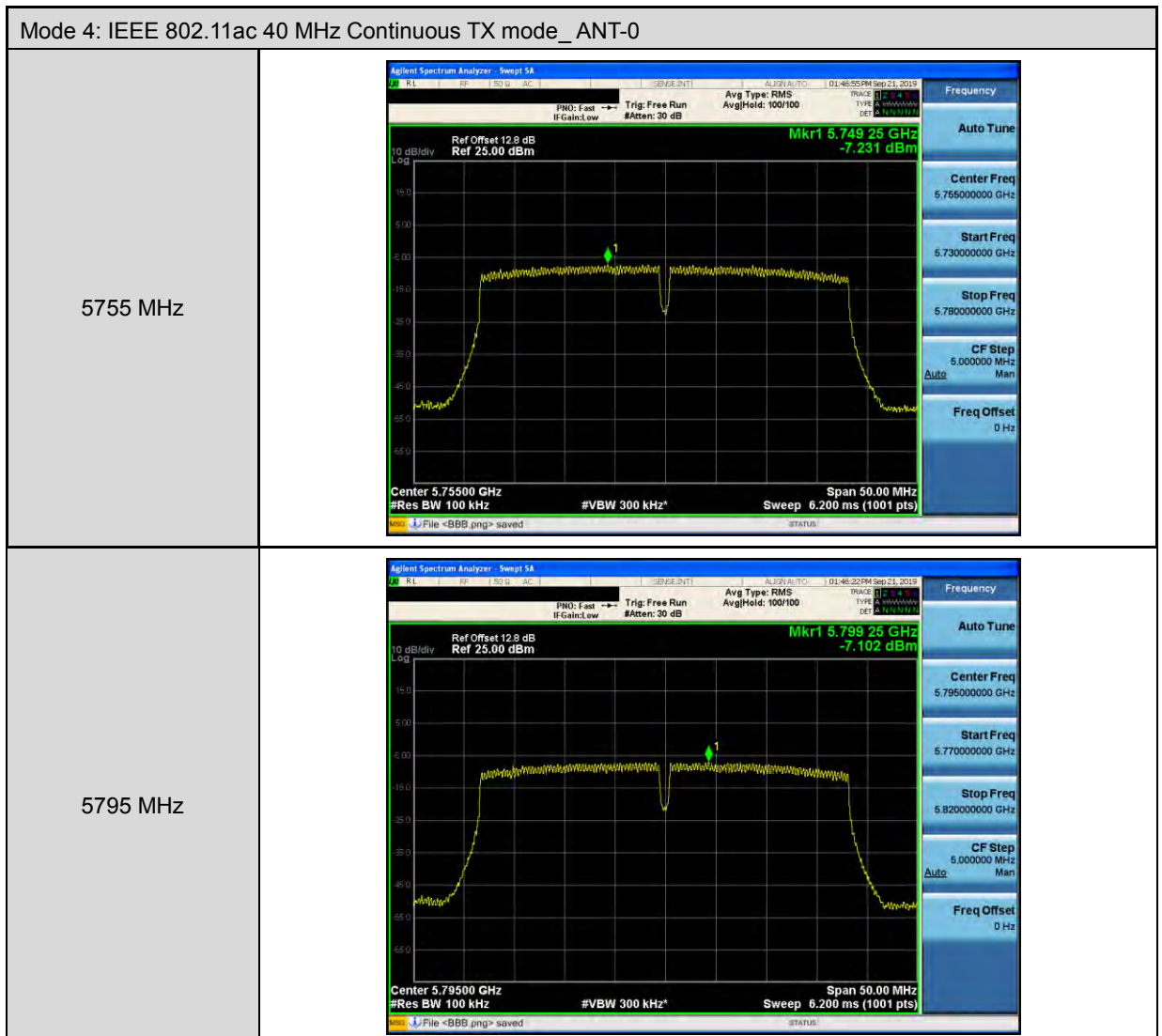


Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode \_ ANT-0

5745 MHz	 <p>Agilent Spectrum Analyzer: Sweep 1A PNO: Fast Trig: Free Run Avg Type: RMS IF Gain: Low #Atten: 30 dB AvgHold: 100/100 Ref Offset 12.8 dB Ref 25.00 dBm Mkr1 5.746 14 GHz -4.685 dBm Center 5.74500 GHz #Res BW 100 kHz #VBW 300 kHz* Span 30.00 MHz Sweep 3.733 ms (1001 pts) File &lt;BBB.png&gt; saved</p> <table><tr><th>Frequency</th></tr><tr><td>Auto Tune</td></tr><tr><td>Center Freq 5.745000000 GHz</td></tr><tr><td>Start Freq 5.730000000 GHz</td></tr><tr><td>Stop Freq 5.760000000 GHz</td></tr><tr><td>CF Step 3.000000 MHz</td></tr><tr><td>Auto Man</td></tr><tr><td>Freq Offset 0 Hz</td></tr></table>	Frequency	Auto Tune	Center Freq 5.745000000 GHz	Start Freq 5.730000000 GHz	Stop Freq 5.760000000 GHz	CF Step 3.000000 MHz	Auto Man	Freq Offset 0 Hz
Frequency									
Auto Tune									
Center Freq 5.745000000 GHz									
Start Freq 5.730000000 GHz									
Stop Freq 5.760000000 GHz									
CF Step 3.000000 MHz									
Auto Man									
Freq Offset 0 Hz									
5785 MHz	 <p>Agilent Spectrum Analyzer: Sweep 1A PNO: Fast Trig: Free Run Avg Type: RMS IF Gain: Low #Atten: 30 dB AvgHold: 100/100 Ref Offset 12.8 dB Ref 25.00 dBm Mkr1 5.780 86 GHz -4.984 dBm Center 5.78500 GHz #Res BW 100 kHz #VBW 300 kHz* Span 30.00 MHz Sweep 3.733 ms (1001 pts) File &lt;BBB.png&gt; saved</p> <table><tr><th>Frequency</th></tr><tr><td>Auto Tune</td></tr><tr><td>Center Freq 5.785000000 GHz</td></tr><tr><td>Start Freq 5.770000000 GHz</td></tr><tr><td>Stop Freq 5.800000000 GHz</td></tr><tr><td>CF Step 3.000000 MHz</td></tr><tr><td>Auto Man</td></tr><tr><td>Freq Offset 0 Hz</td></tr></table>	Frequency	Auto Tune	Center Freq 5.785000000 GHz	Start Freq 5.770000000 GHz	Stop Freq 5.800000000 GHz	CF Step 3.000000 MHz	Auto Man	Freq Offset 0 Hz
Frequency									
Auto Tune									
Center Freq 5.785000000 GHz									
Start Freq 5.770000000 GHz									
Stop Freq 5.800000000 GHz									
CF Step 3.000000 MHz									
Auto Man									
Freq Offset 0 Hz									
5825 MHz	 <p>Agilent Spectrum Analyzer: Sweep 1A PNO: Fast Trig: Free Run Avg Type: RMS IF Gain: Low #Atten: 30 dB AvgHold: 100/100 Ref Offset 12.8 dB Ref 25.00 dBm Mkr1 5.825 54 GHz -4.589 dBm Center 5.82500 GHz #Res BW 100 kHz #VBW 300 kHz* Span 30.00 MHz Sweep 3.733 ms (1001 pts) File &lt;BBB.png&gt; saved</p> <table><tr><th>Frequency</th></tr><tr><td>Auto Tune</td></tr><tr><td>Center Freq 5.825000000 GHz</td></tr><tr><td>Start Freq 5.810000000 GHz</td></tr><tr><td>Stop Freq 5.840000000 GHz</td></tr><tr><td>CF Step 3.000000 MHz</td></tr><tr><td>Auto Man</td></tr><tr><td>Freq Offset 0 Hz</td></tr></table>	Frequency	Auto Tune	Center Freq 5.825000000 GHz	Start Freq 5.810000000 GHz	Stop Freq 5.840000000 GHz	CF Step 3.000000 MHz	Auto Man	Freq Offset 0 Hz
Frequency									
Auto Tune									
Center Freq 5.825000000 GHz									
Start Freq 5.810000000 GHz									
Stop Freq 5.840000000 GHz									
CF Step 3.000000 MHz									
Auto Man									
Freq Offset 0 Hz									











Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode \_ANT-0

5210 MHz



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode \_ANT-0

5775 MHz








Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode \_ ANT-1

5180 MHz	
5200 MHz	
5240 MHz	



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode \_ ANT-1

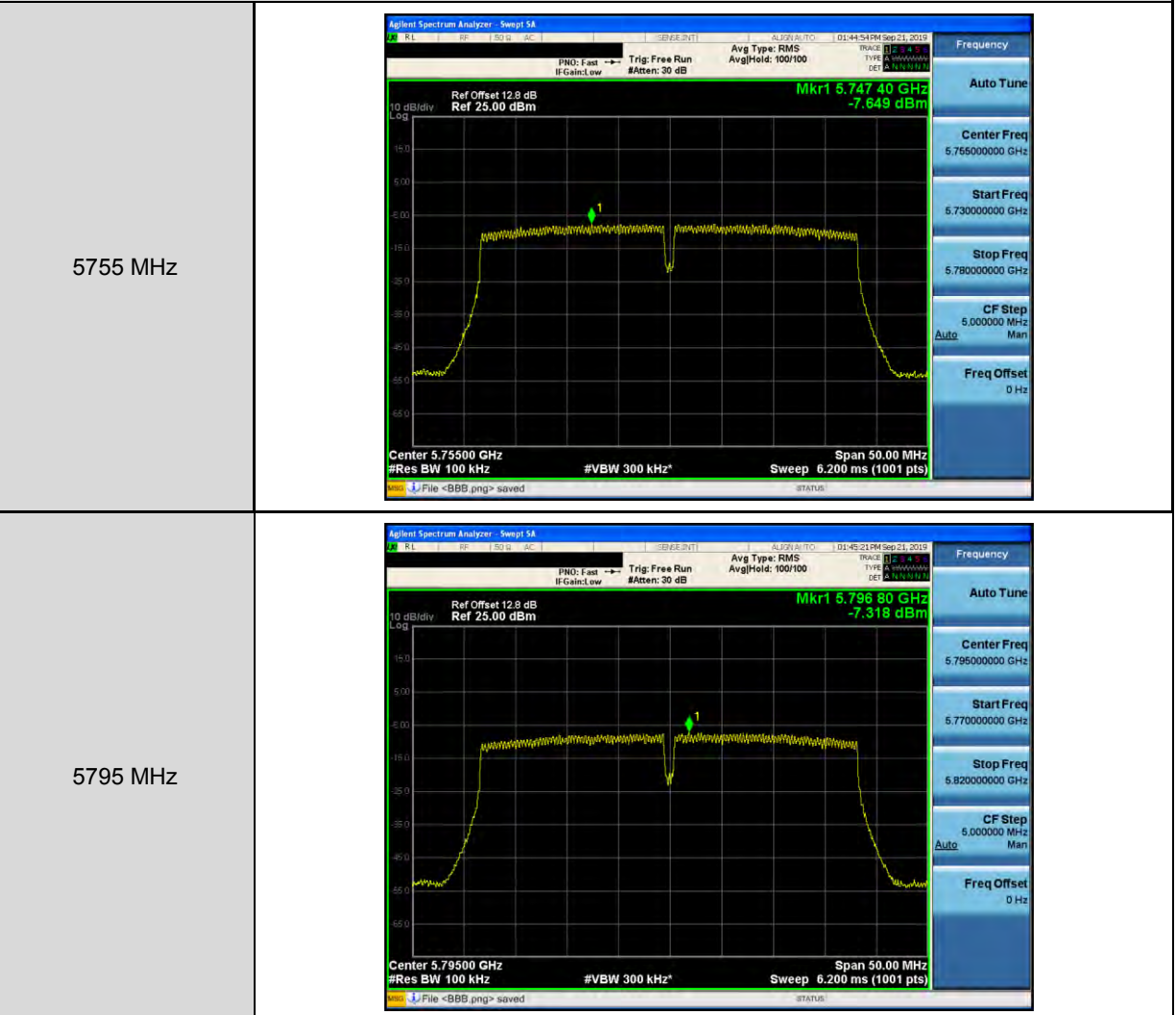
5745 MHz	
5785 MHz	
5825 MHz	







Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode\_ ANT-1





Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode \_ ANT-1

5210 MHz



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode \_ ANT-1

5775 MHz



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