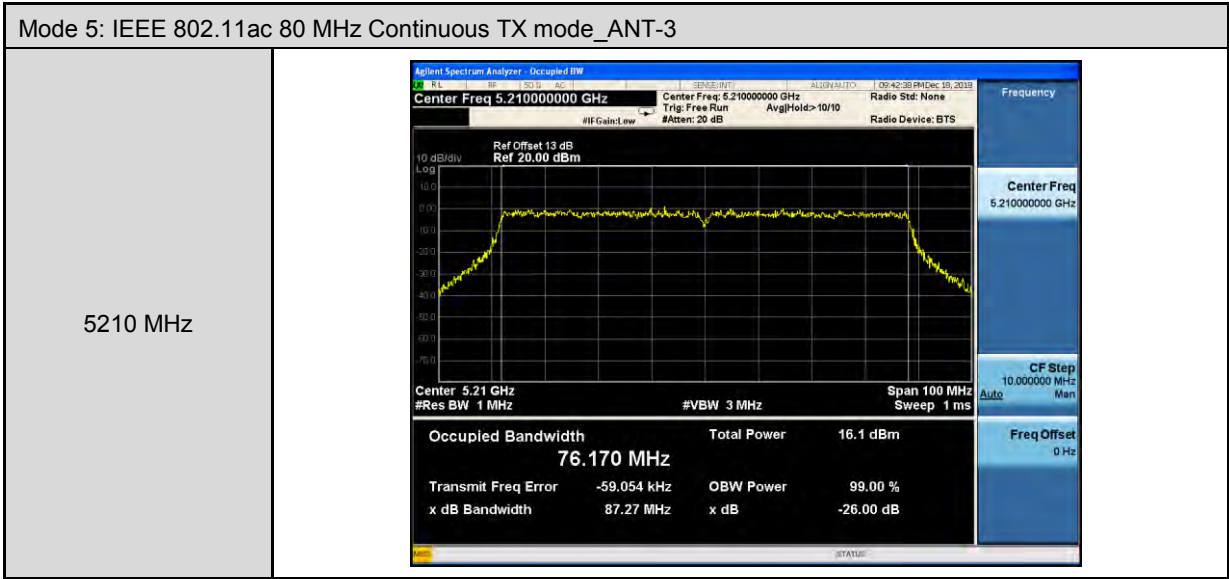




Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-3

5190 MHz	 Center Freq 5.190000000 GHz Center Freq 5.190000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 13 dB Ref 20.00 dBm Center 5.19 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms Occupied Bandwidth 36.783 MHz Total Power 17.9 dBm Transmit Freq Error -51.998 kHz OBW Power 99.00 % x dB Bandwidth 44.13 MHz x dB -26.00 dB Frequency Center Freq 5.190000000 GHz CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz
5230 MHz	 Center Freq 5.230000000 GHz Center Freq 5.230000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 13 dB Ref 20.00 dBm Center 5.23 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms Occupied Bandwidth 36.910 MHz Total Power 19.5 dBm Transmit Freq Error -110.01 kHz OBW Power 99.00 % x dB Bandwidth 44.51 MHz x dB -26.00 dB Frequency Center Freq 5.230000000 GHz CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz



5.5. 6 dB RF Bandwidth Measurement

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5745	16380	16320	16350	16330	≥ 500
5785	16330	16320	16330	16340	≥ 500
5825	16350	16350	16360	16370	≥ 500

Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5745	17730	17720	17660	17760	≥ 500
5785	17730	17690	17720	17750	≥ 500
5825	17770	17750	17730	17740	≥ 500

Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5755	36450	36490	36500	36490	≥ 500
5795	36500	36450	36500	36410	≥ 500

Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5775	76510	76480	76560	76470	≥ 500



Beamforming on

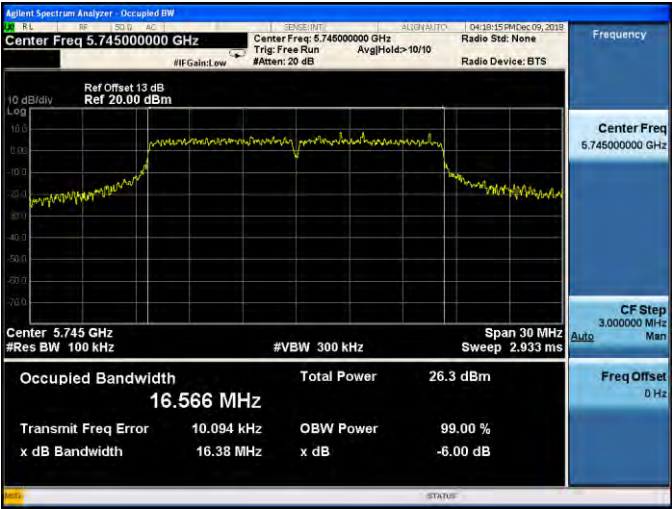
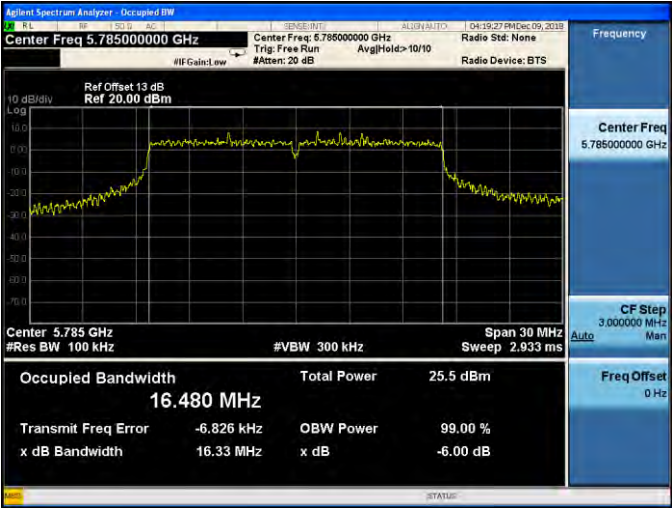
Test Mode	Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5745	17740	17700	17670	17730	≥ 500
5785	17780	17750	17740	17740	≥ 500
5825	17720	17710	17730	17740	≥ 500

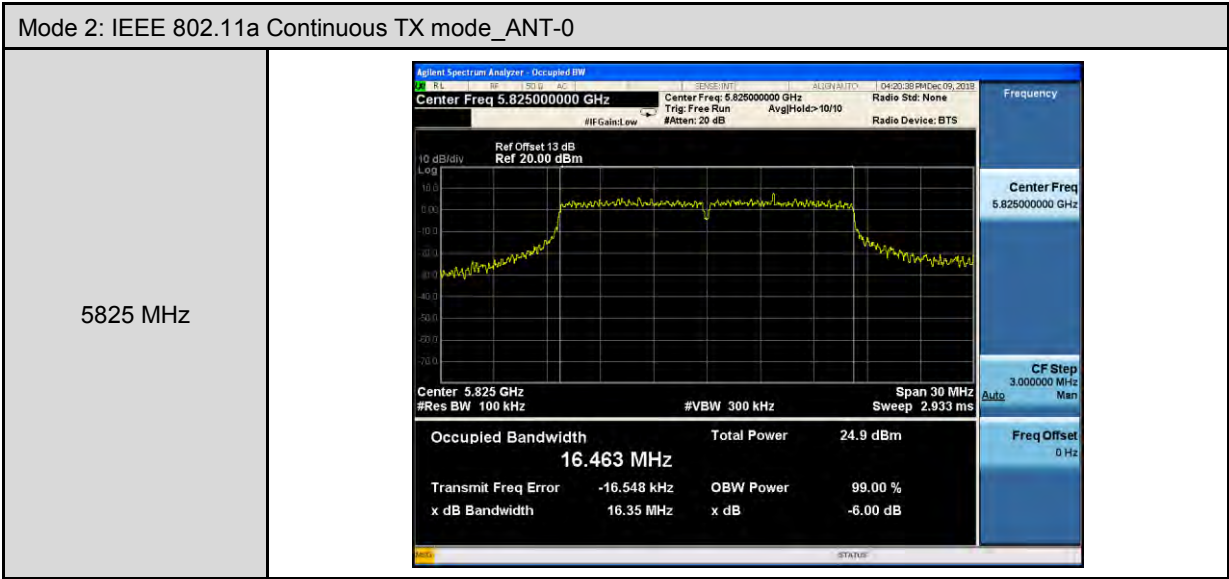
Test Mode	Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5755	36410	36480	36480	36490	≥ 500
5795	36510	36500	36480	36480	≥ 500

Test Mode	Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode				
Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	Limit (kHz)
5775	76460	76540	76510	76510	≥ 500



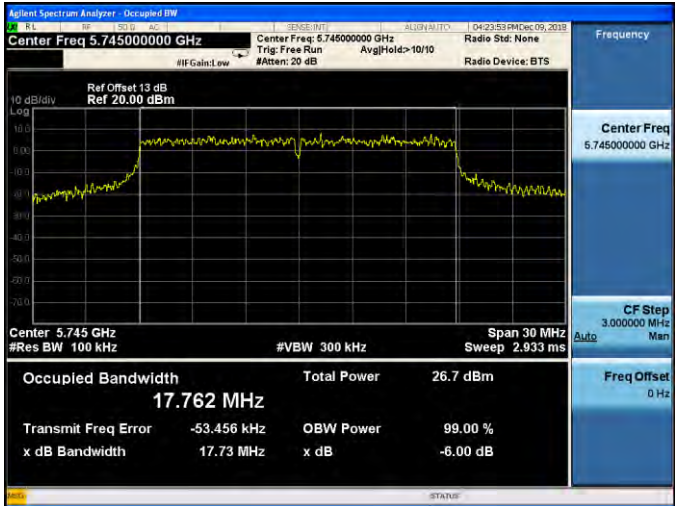
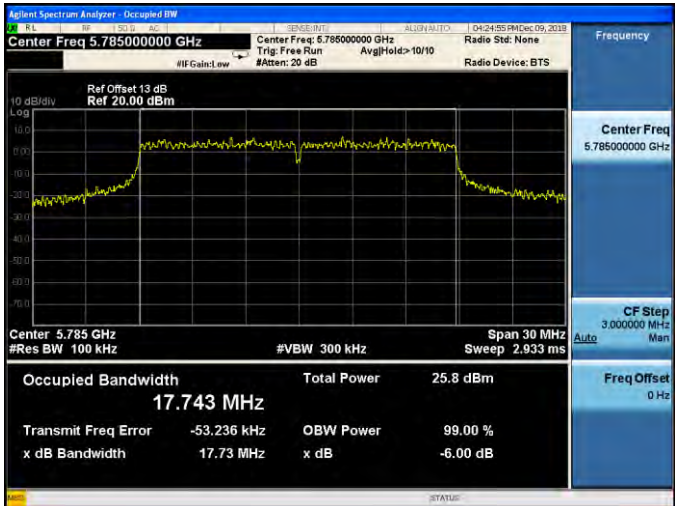
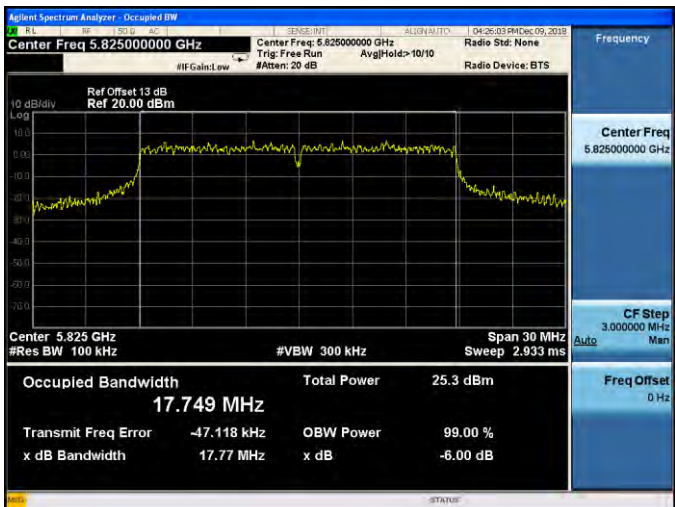
■ Test Graphs

Mode 2: IEEE 802.11a Continuous TX mode_ANT-0	
5745 MHz	
5785 MHz	

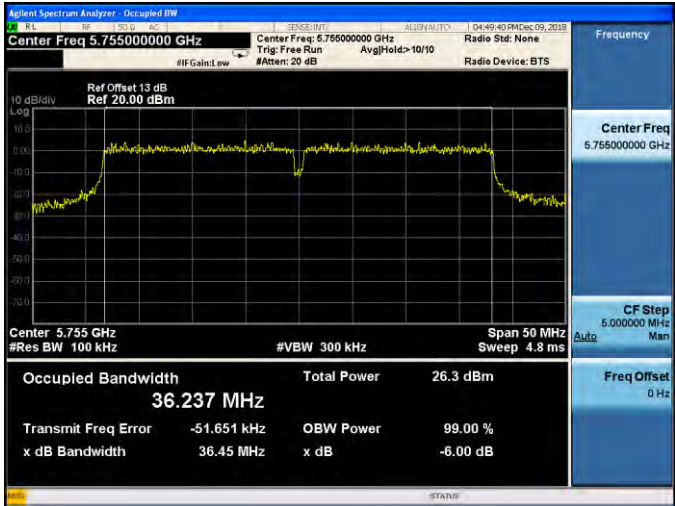
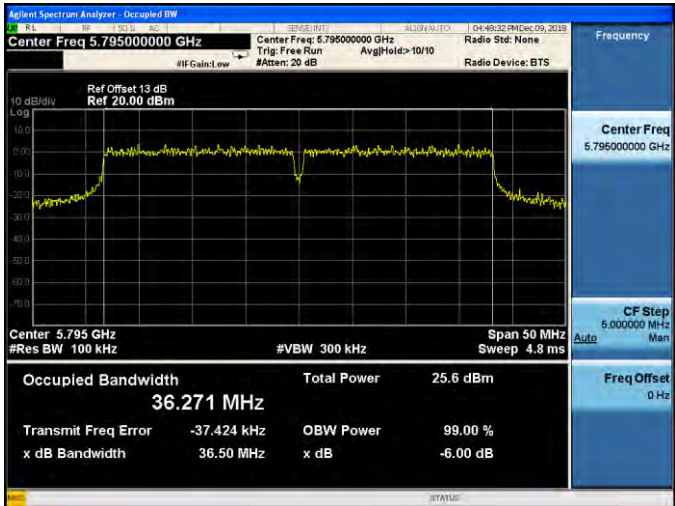


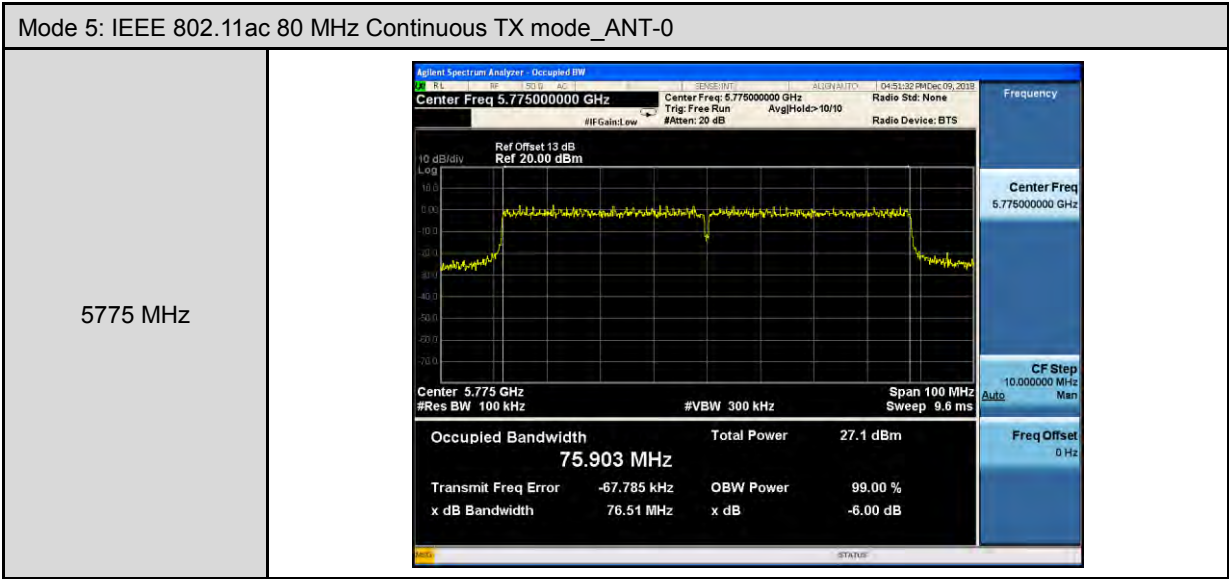


Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0

5745 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.745000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.745 GHz #Res BW 100 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.762 MHz Total Power 26.7 dBm Transmit Freq Error -53.456 kHz OBW Power 99.00 % x dB Bandwidth 17.73 MHz x dB -6.00 dB CF Step 3.000000 MHz Freq Offset 0 Hz
5785 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.785000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.785 GHz #Res BW 100 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.743 MHz Total Power 25.8 dBm Transmit Freq Error -53.236 kHz OBW Power 99.00 % x dB Bandwidth 17.73 MHz x dB -6.00 dB CF Step 3.000000 MHz Freq Offset 0 Hz
5825 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.825000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.825 GHz #Res BW 100 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.749 MHz Total Power 25.3 dBm Transmit Freq Error -47.118 kHz OBW Power 99.00 % x dB Bandwidth 17.77 MHz x dB -6.00 dB CF Step 3.000000 MHz Freq Offset 0 Hz

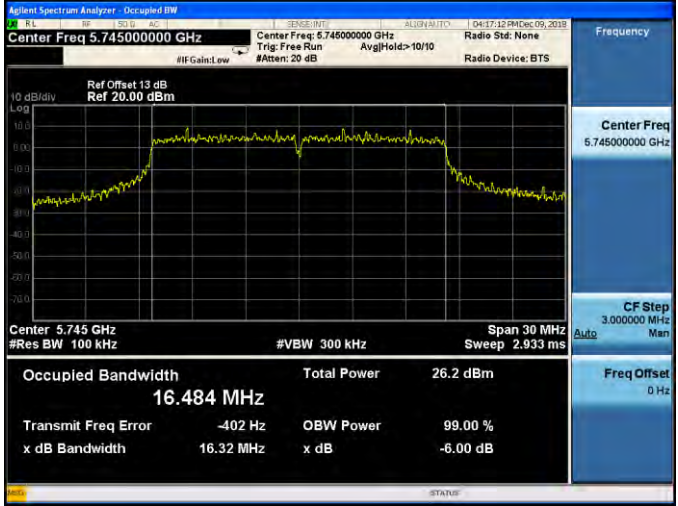
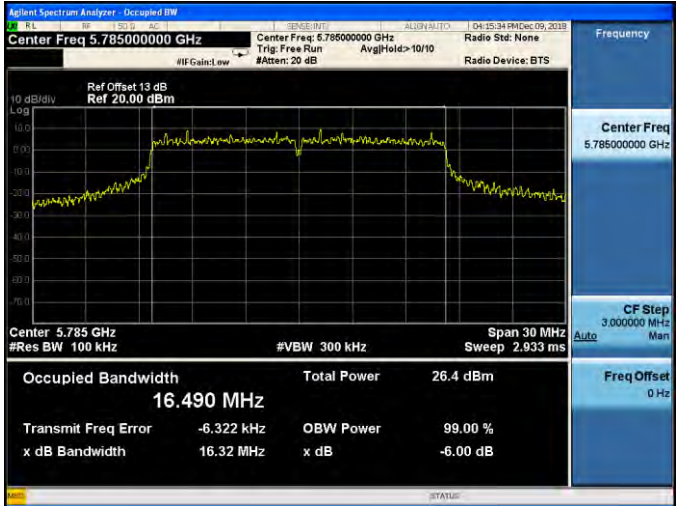


Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-0	
5755 MHz	
5795 MHz	



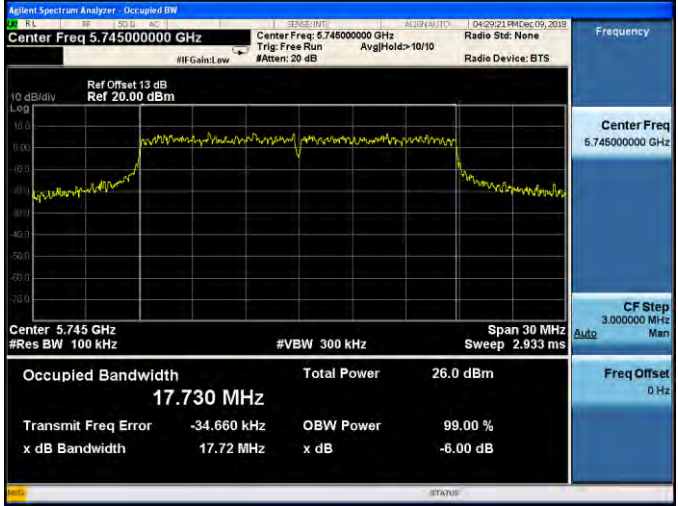
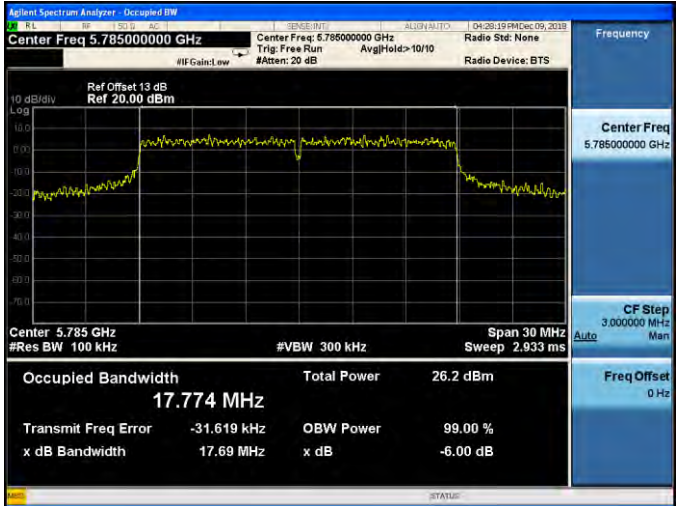
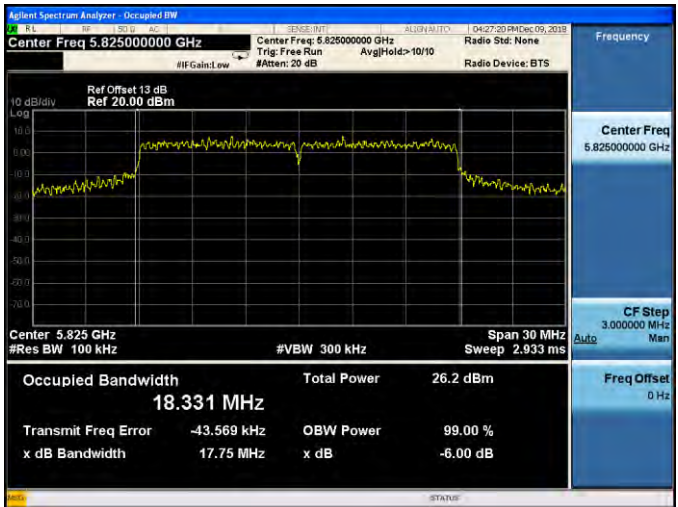


Mode 2: IEEE 802.11a Continuous TX mode_ANT-1

5745 MHz	
5785 MHz	
5825 MHz	



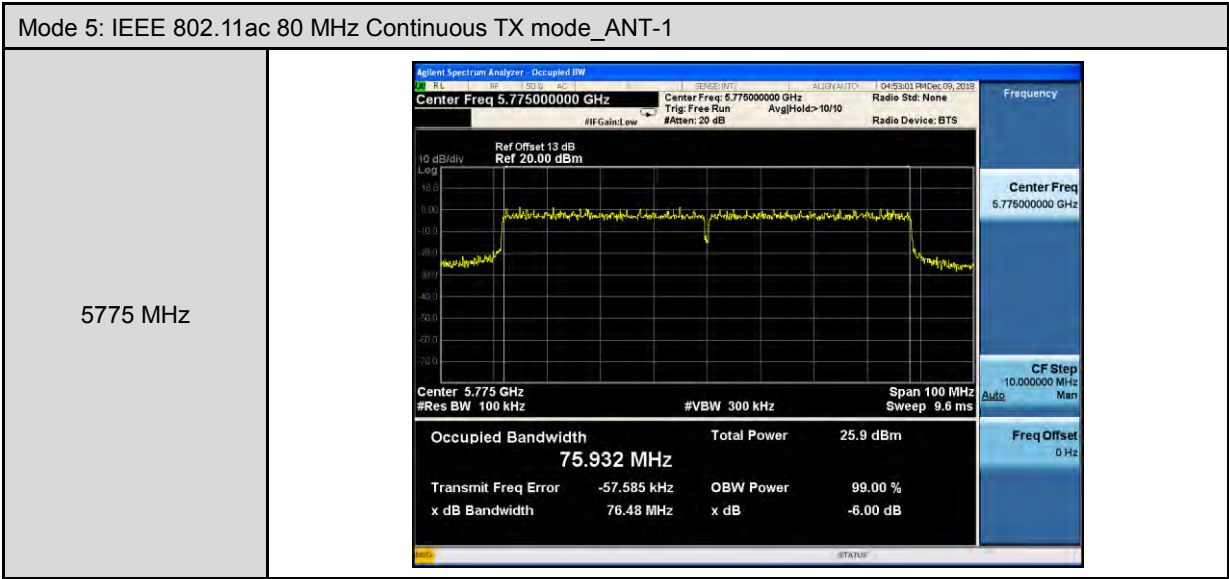
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-1

5745 MHz	
5785 MHz	
5825 MHz	



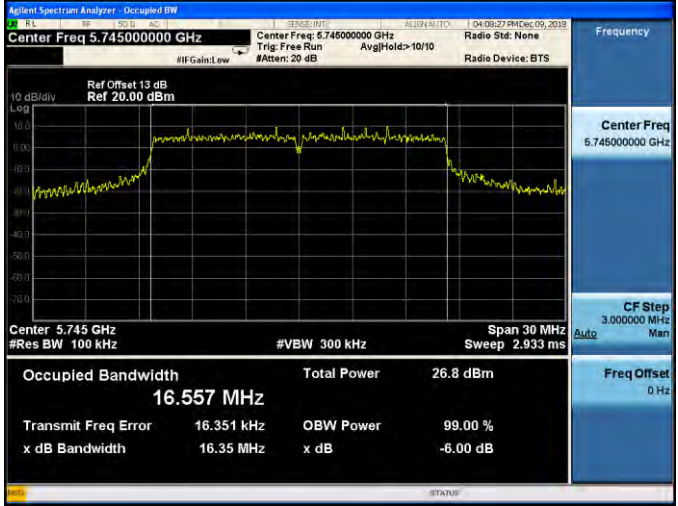
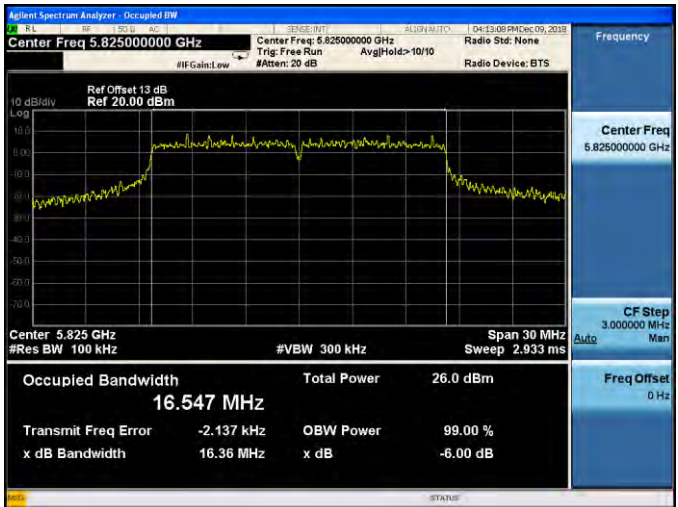
Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-1

5755 MHz	
5795 MHz	



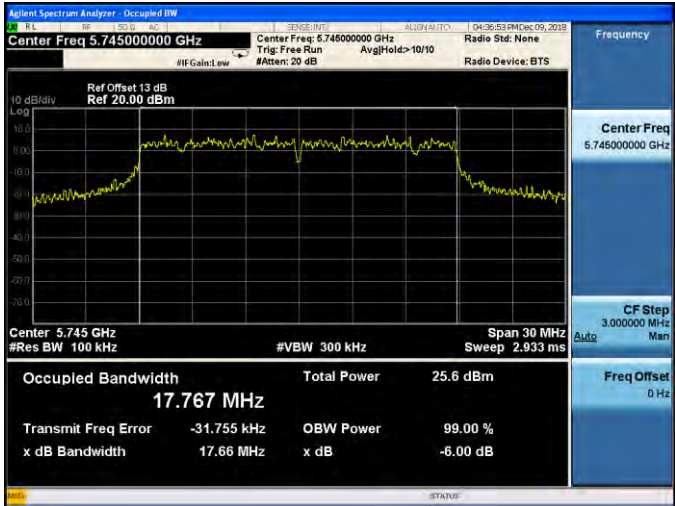
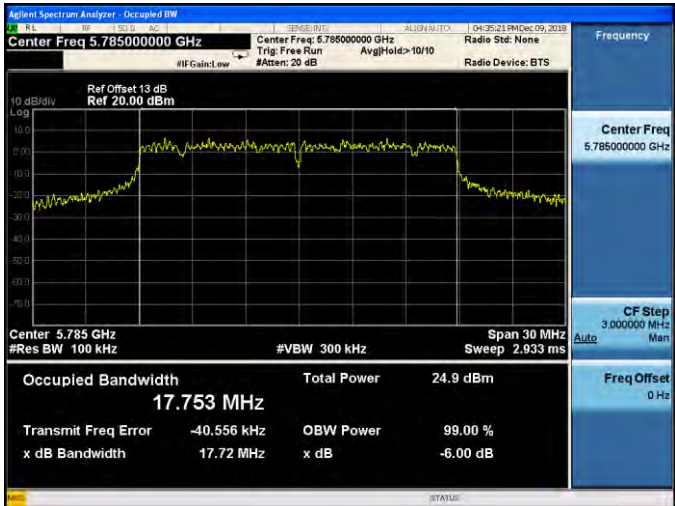
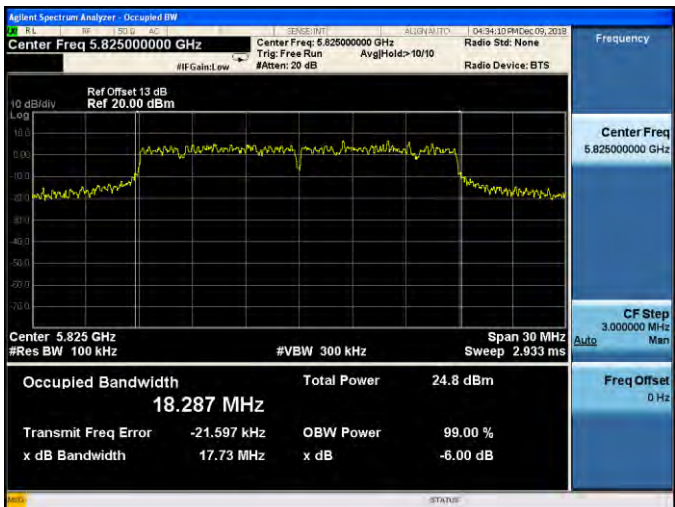


Mode 2: IEEE 802.11a Continuous TX mode_ANT-2

5745 MHz	
5785 MHz	
5825 MHz	

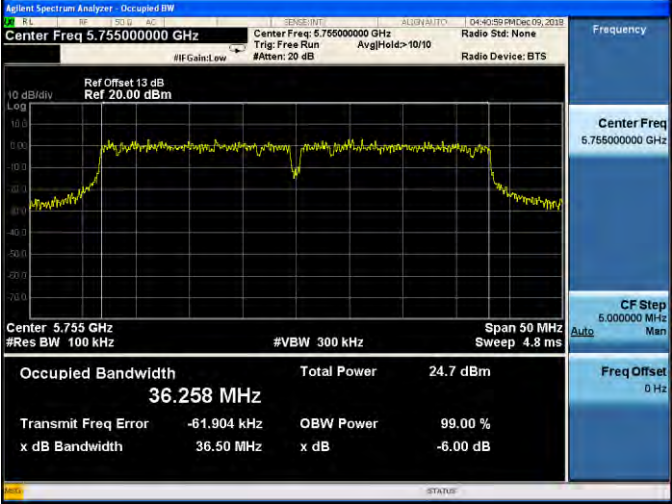


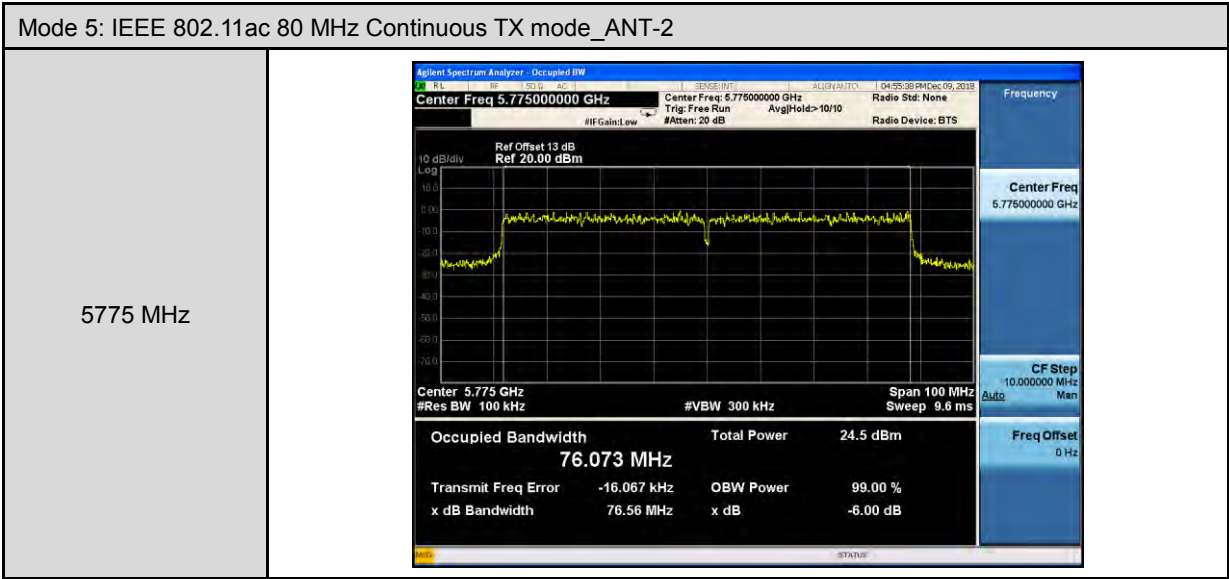
Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-2

5745 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.745000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.745 GHz #Res BW 100 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.767 MHz Total Power 25.6 dBm Transmit Freq Error -31.755 kHz OBW Power 99.00 % x dB Bandwidth 17.66 MHz x dB -6.00 dB Frequency Center Freq 5.745000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
5785 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.785000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.785 GHz #Res BW 100 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.753 MHz Total Power 24.9 dBm Transmit Freq Error -40.556 kHz OBW Power 99.00 % x dB Bandwidth 17.72 MHz x dB -6.00 dB Frequency Center Freq 5.785000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
5825 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.825000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.825 GHz #Res BW 100 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 18.287 MHz Total Power 24.8 dBm Transmit Freq Error -21.597 kHz OBW Power 99.00 % x dB Bandwidth 17.73 MHz x dB -6.00 dB Frequency Center Freq 5.825000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz



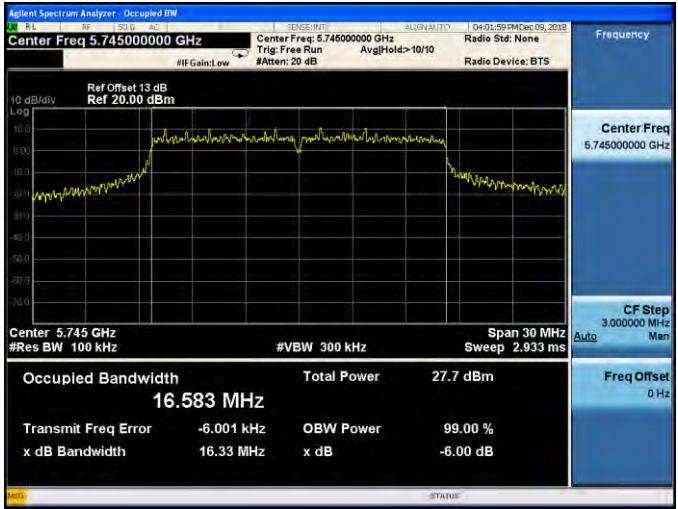
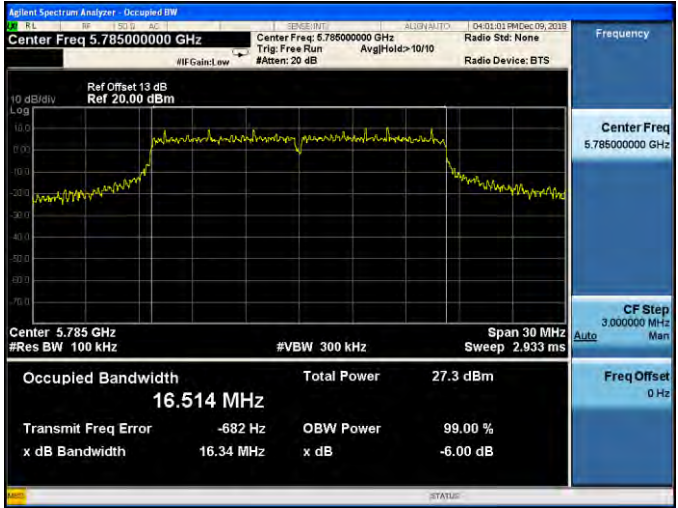
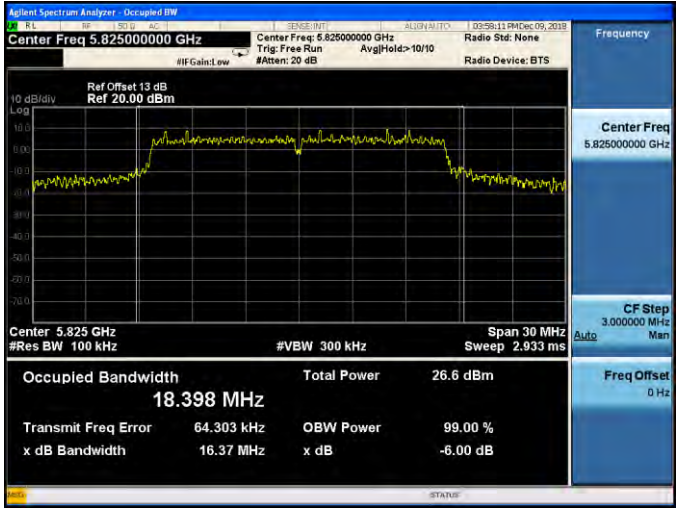
Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-2

5755 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.755000000 GHz Center Freq: 5.755000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 13 dB Ref 20.00 dBm Center 5.755 GHz #Res BW 100 kHz #VBW 300 kHz Span 50 MHz Sweep 4.8 ms Occupied Bandwidth 36.258 MHz Total Power 24.7 dBm Transmit Freq Error -61.904 kHz OBW Power 99.00 % x dB Bandwidth 36.50 MHz x dB -6.00 dB Center Freq 5.755000000 GHz CF Step 5.000000 MHz Freq Offset 0 Hz
5795 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.795000000 GHz Center Freq: 5.795000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 13 dB Ref 20.00 dBm Center 5.795 GHz #Res BW 100 kHz #VBW 300 kHz Span 50 MHz Sweep 4.8 ms Occupied Bandwidth 36.256 MHz Total Power 24.0 dBm Transmit Freq Error -57.362 kHz OBW Power 99.00 % x dB Bandwidth 36.50 MHz x dB -6.00 dB Center Freq 5.795000000 GHz CF Step 5.000000 MHz Freq Offset 0 Hz



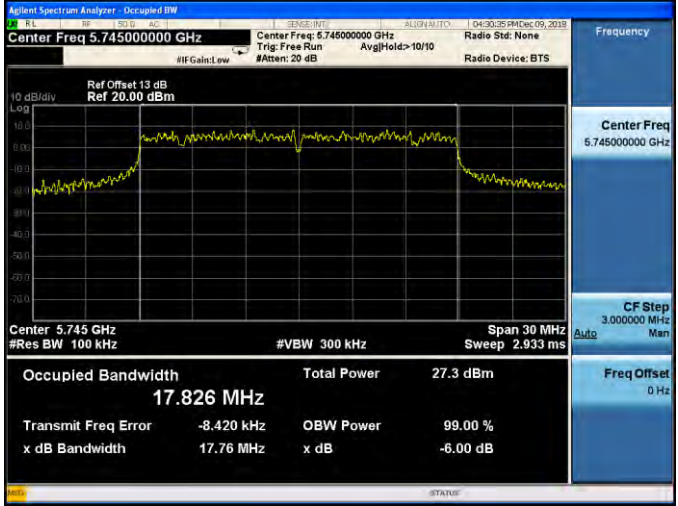
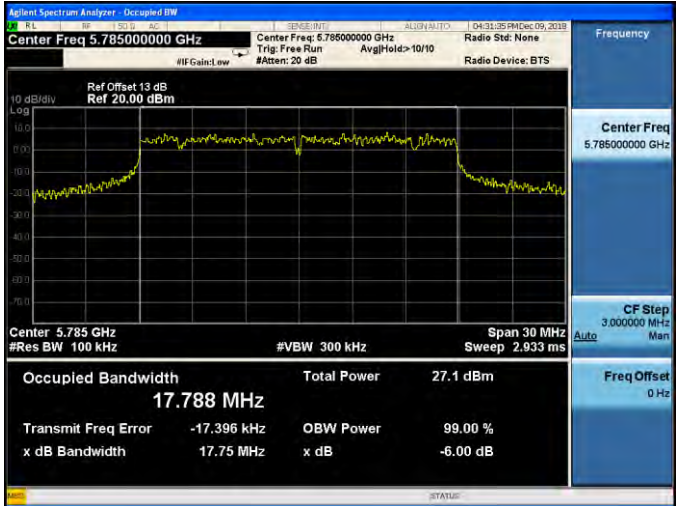
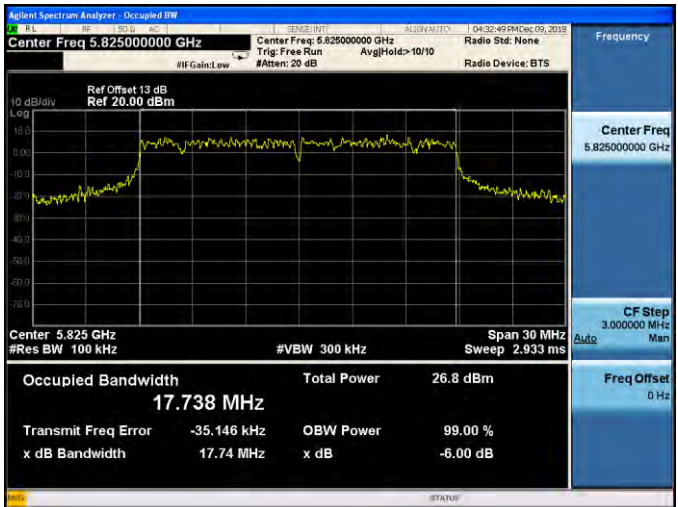


Mode 2: IEEE 802.11a Continuous TX mode_ANT-3

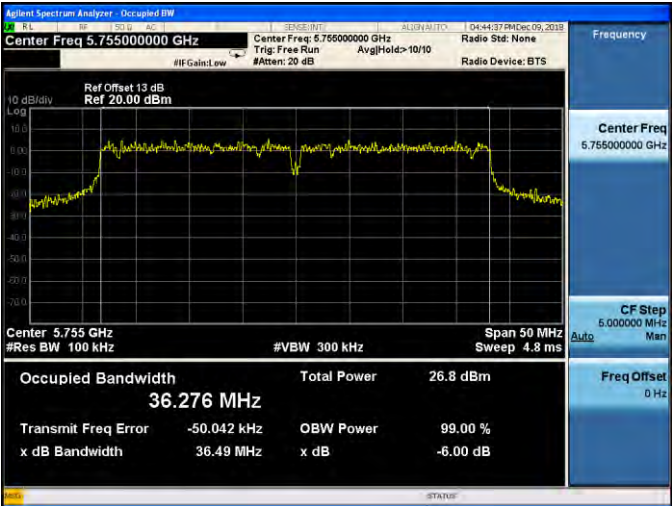
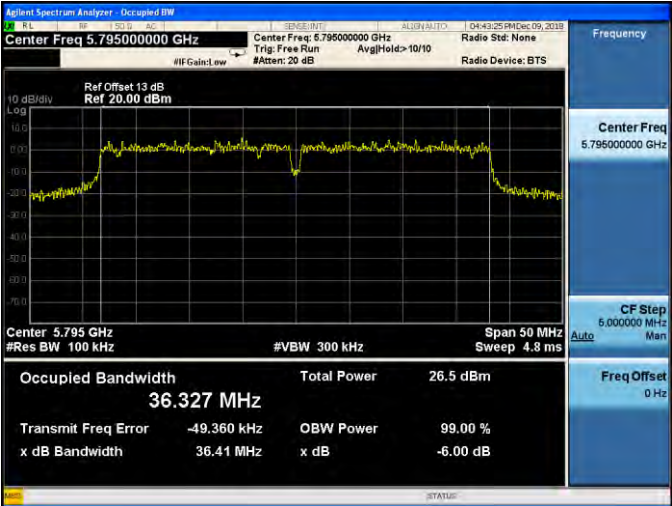
5745 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.745000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.745 GHz #Res BW 100 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 16.583 MHz Total Power 27.7 dBm Transmit Freq Error -6.001 kHz OBW Power 99.00 % x dB Bandwidth 16.33 MHz x dB -6.00 dB Frequency Center Freq 5.745000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz
5785 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.785000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.785 GHz #Res BW 100 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 16.514 MHz Total Power 27.3 dBm Transmit Freq Error -682 Hz OBW Power 99.00 % x dB Bandwidth 16.34 MHz x dB -6.00 dB Frequency Center Freq 5.785000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz
5825 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.825000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.825 GHz #Res BW 100 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 18.398 MHz Total Power 26.6 dBm Transmit Freq Error 64.303 kHz OBW Power 99.00 % x dB Bandwidth 16.37 MHz x dB -6.00 dB Frequency Center Freq 5.825000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz

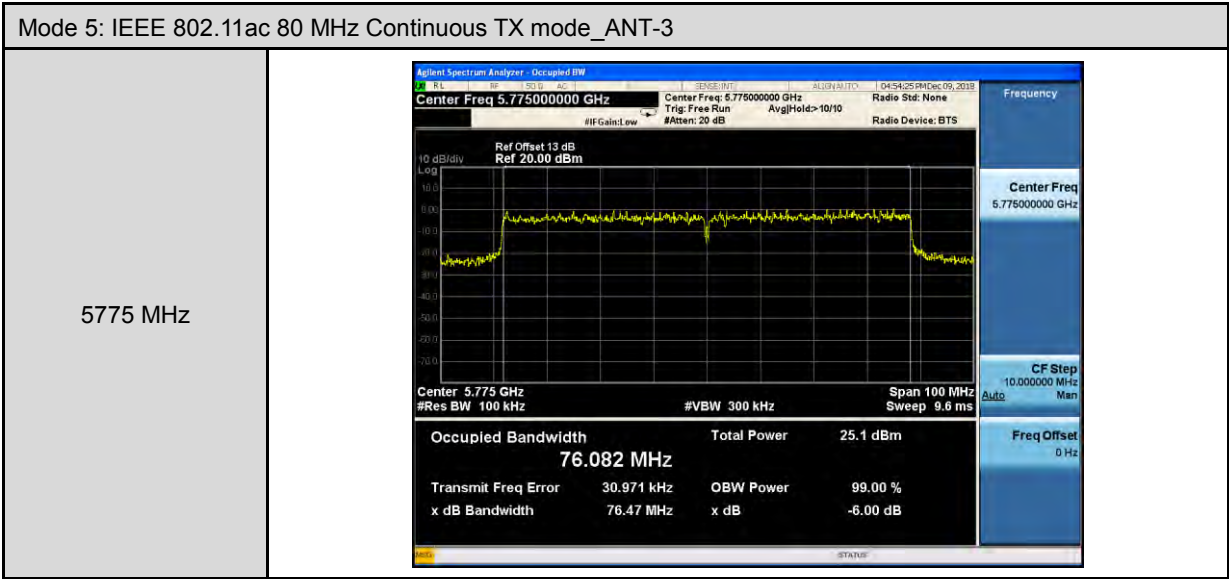


Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-3

5745 MHz	
5785 MHz	
5825 MHz	



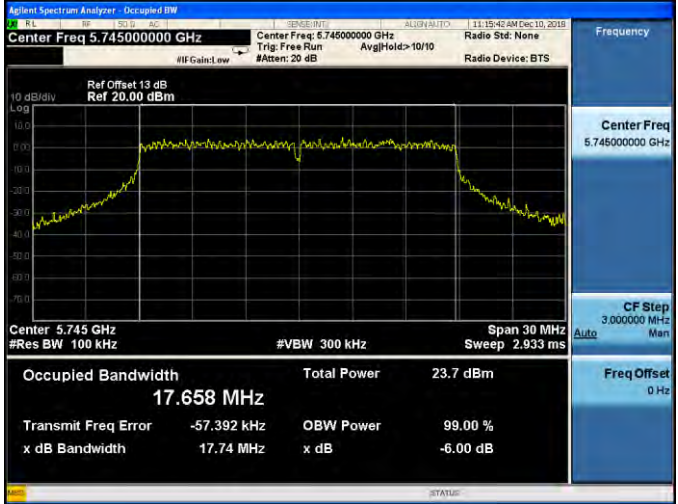
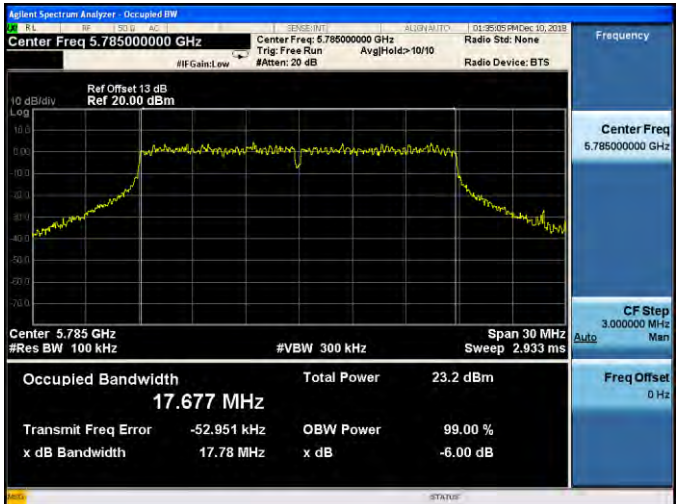
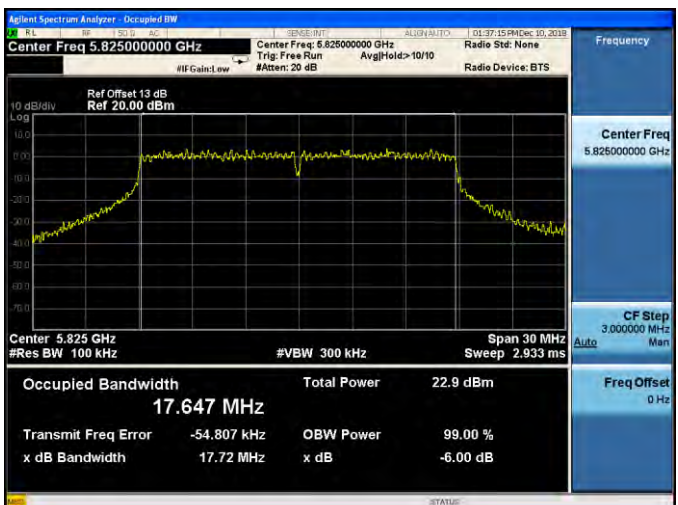
Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-3	
5755 MHz	
5795 MHz	



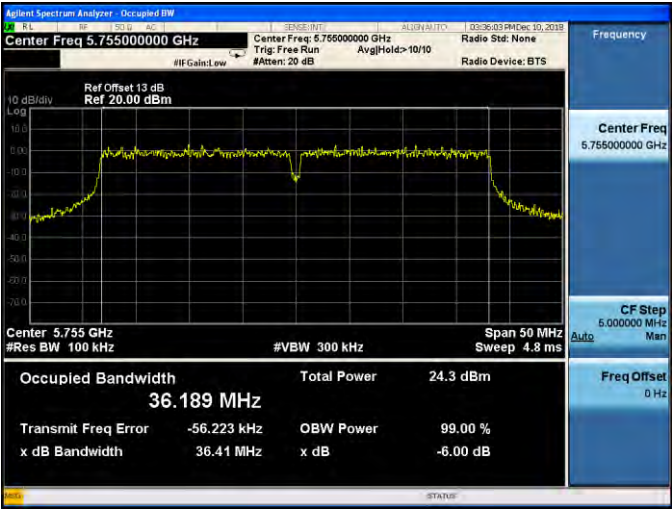
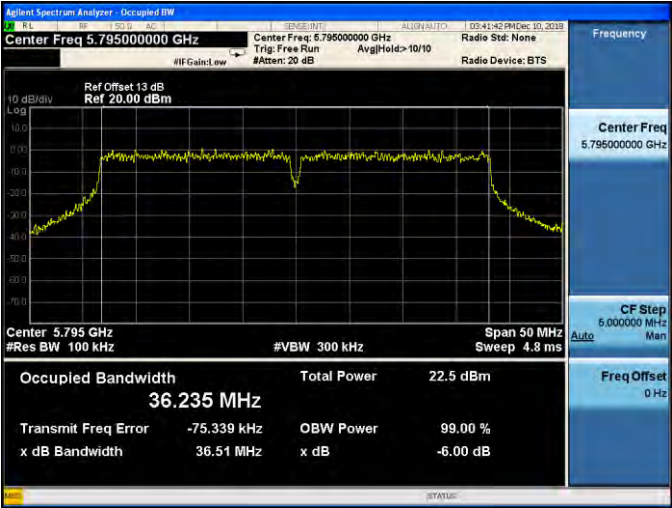


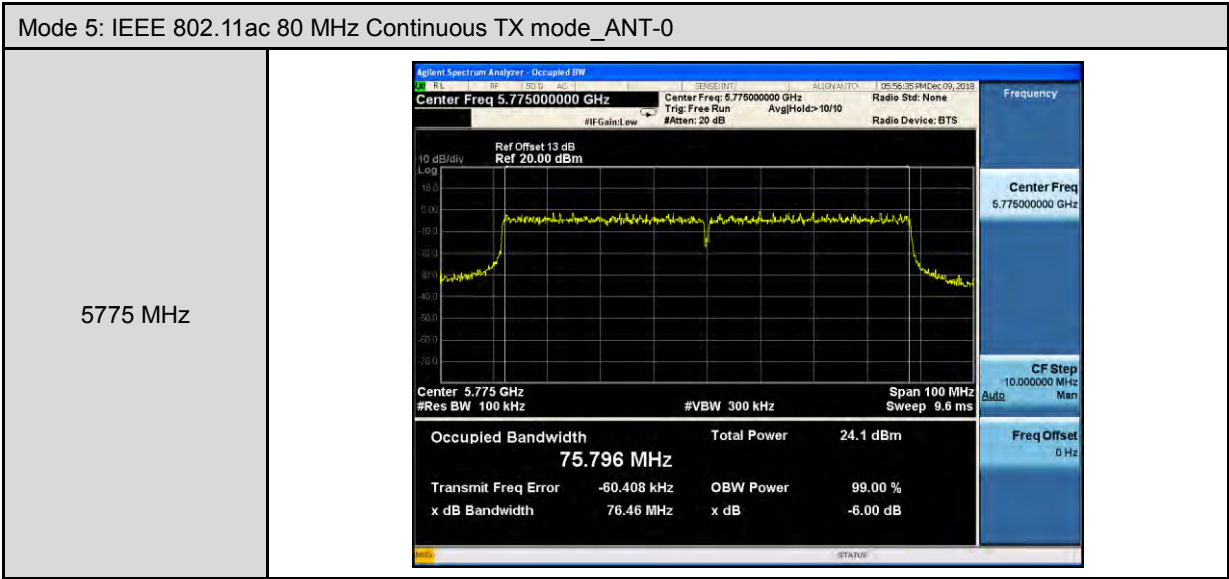
Beamforming on

Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0

5745 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.745000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.745 GHz #Res BW 100 kHz Occupied Bandwidth 17.658 MHz Total Power 23.7 dBm Transmit Freq Error -57.392 kHz OBW Power 99.00 % x dB Bandwidth 17.74 MHz x dB -6.00 dB Frequency Center Freq 5.745000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz
5785 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.785000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.785 GHz #Res BW 100 kHz Occupied Bandwidth 17.677 MHz Total Power 23.2 dBm Transmit Freq Error -52.951 kHz OBW Power 99.00 % x dB Bandwidth 17.78 MHz x dB -6.00 dB Frequency Center Freq 5.785000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz
5825 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.825000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.825 GHz #Res BW 100 kHz Occupied Bandwidth 17.647 MHz Total Power 22.9 dBm Transmit Freq Error -54.807 kHz OBW Power 99.00 % x dB Bandwidth 17.72 MHz x dB -6.00 dB Frequency Center Freq 5.825000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz

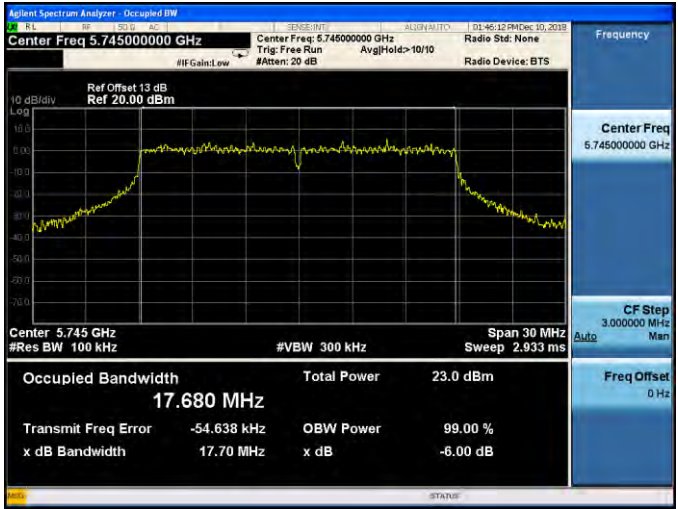
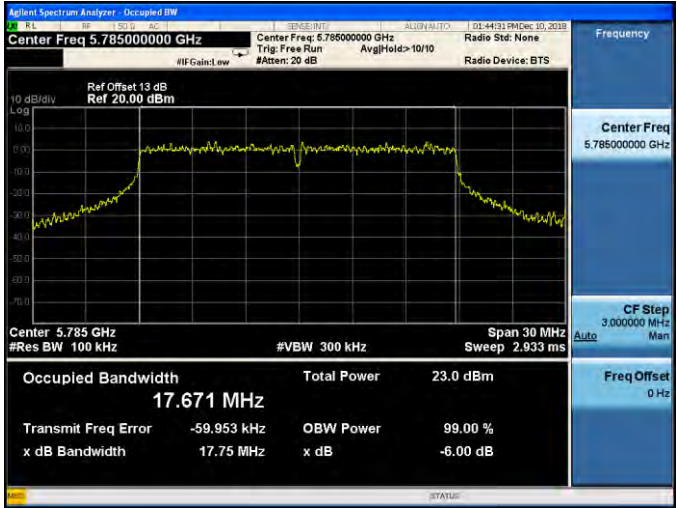
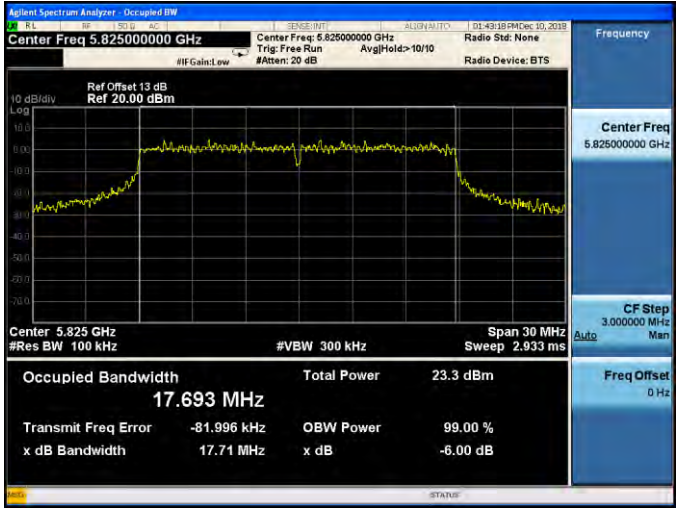


Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-0	
5755 MHz	
5795 MHz	

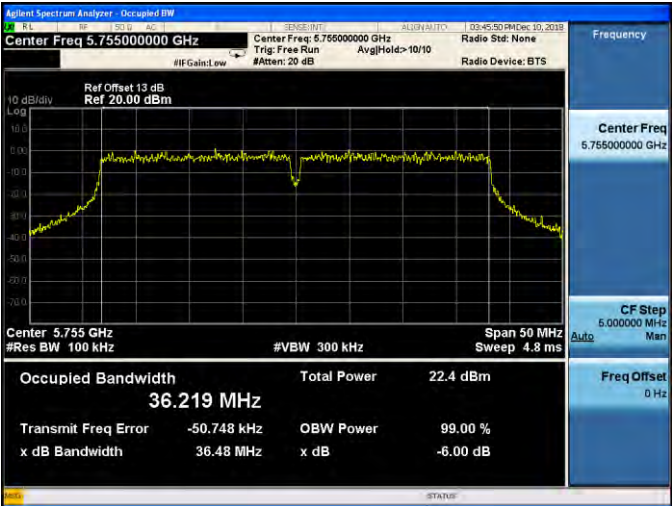
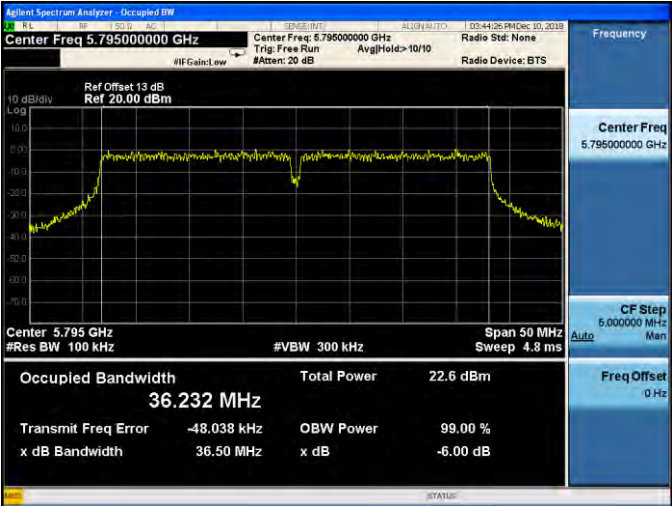


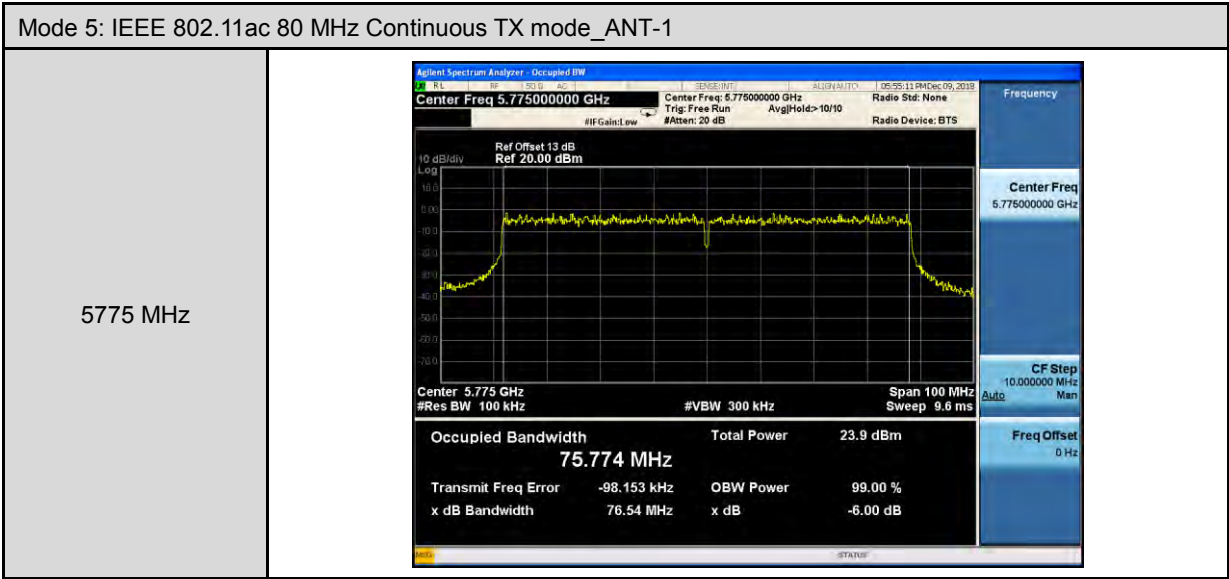


Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-1

5745 MHz	
5785 MHz	
5825 MHz	

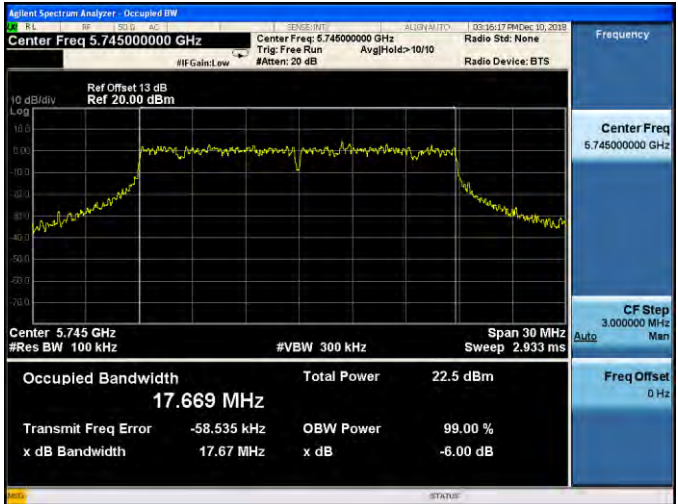
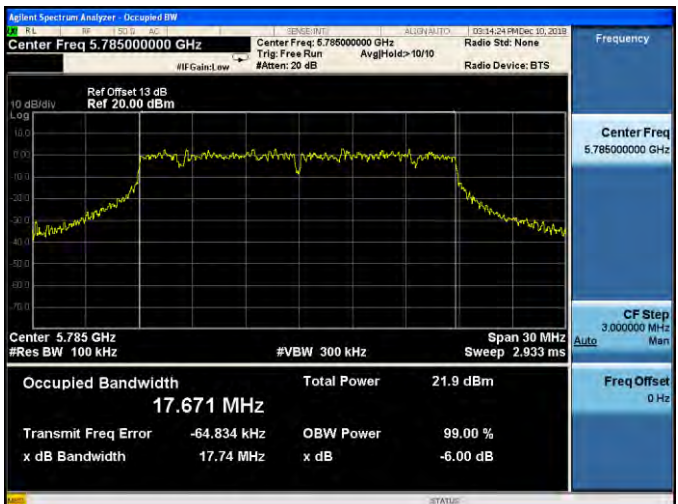
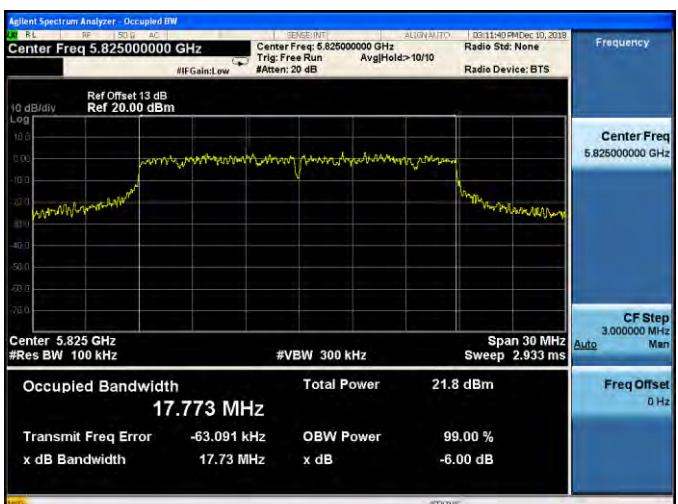


Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-1	
5755 MHz	
5795 MHz	

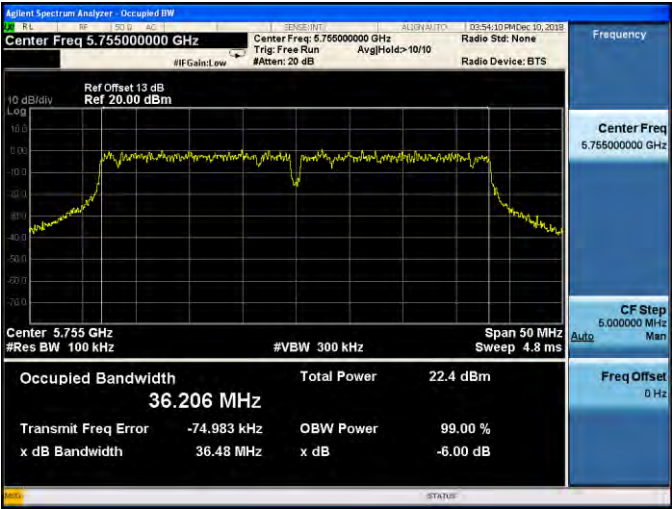
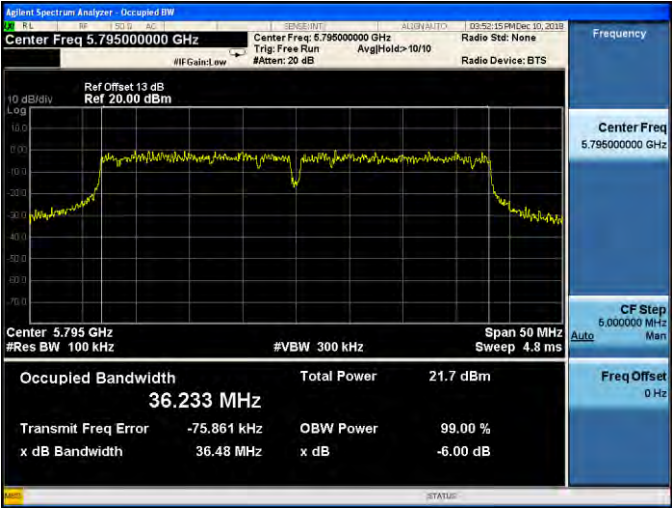


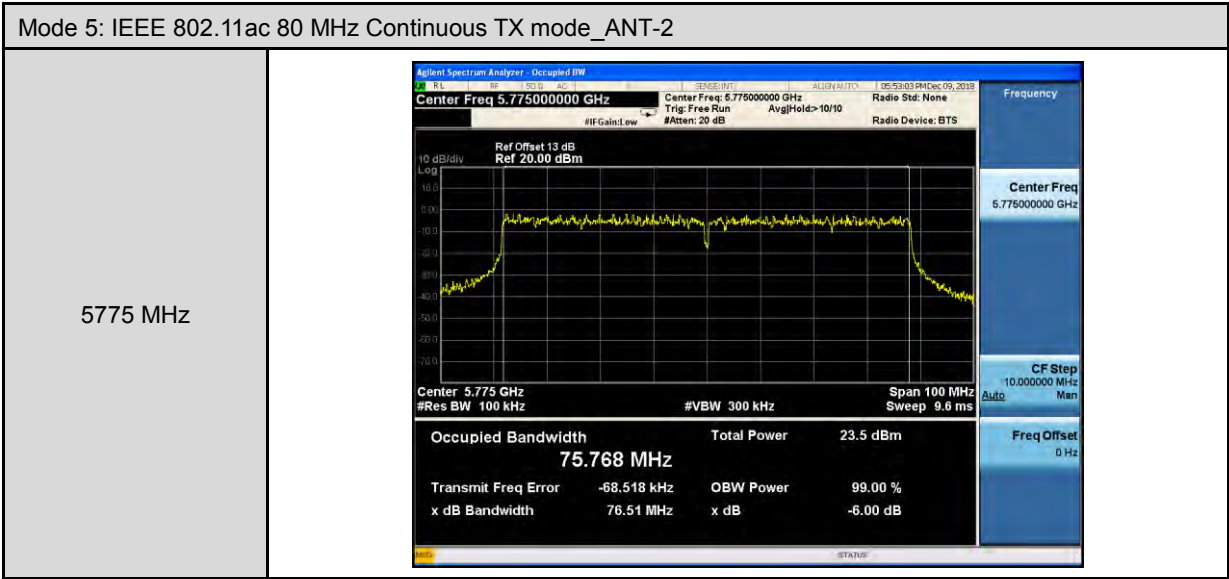


Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-2

5745 MHz	
5785 MHz	
5825 MHz	



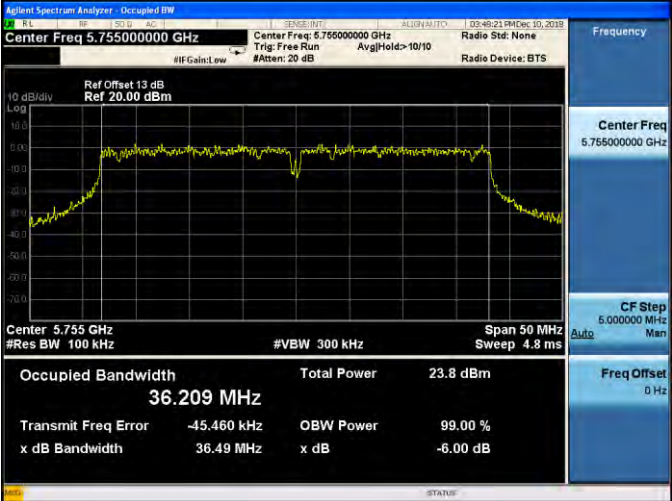
Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-2	
5755 MHz	
5795 MHz	

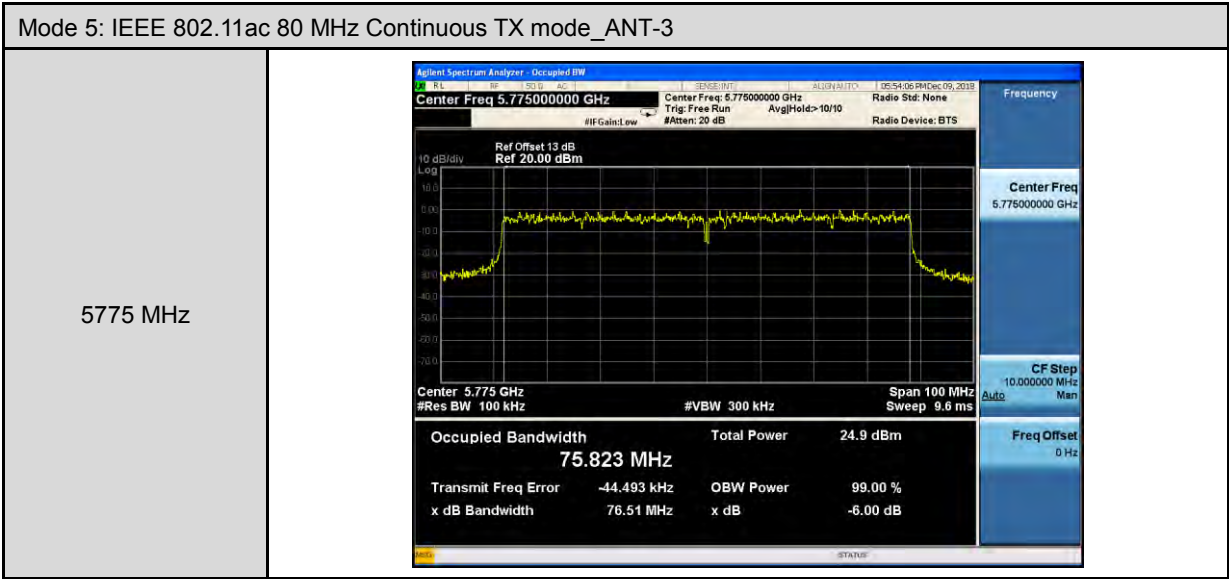


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Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-3

5755 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.755000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.755 GHz #Res BW 100 kHz Span 50 MHz Sweep 4.8 ms Occupied Bandwidth 36.209 MHz Total Power 23.8 dBm Transmit Freq Error -45.460 kHz OBW Power 99.00 % x dB Bandwidth 36.49 MHz x dB -6.00 dB Center Freq 5.755000000 GHz CF Step 5.000000 MHz Freq Offset 0 Hz
5795 MHz	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.795000000 GHz Ref Offset 13 dB Ref 20.00 dBm Center 5.795 GHz #Res BW 100 kHz Span 50 MHz Sweep 4.8 ms Occupied Bandwidth 36.209 MHz Total Power 23.4 dBm Transmit Freq Error -42.702 kHz OBW Power 99.00 % x dB Bandwidth 36.48 MHz x dB -6.00 dB Center Freq 5.795000000 GHz CF Step 5.000000 MHz Freq Offset 0 Hz



5.6. Maximum Power Spectral Density Measurement

Test Mode	Mode 2: IEEE 802.11a link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	5.944	0.084	6.028	≤ 12.51
5200	5.826	0.084	5.910	
5240	5.727	0.084	5.811	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	6.257	0.084	6.341	≤ 12.51
5200	6.181	0.084	6.265	
5240	6.503	0.084	6.587	
Frequency (MHz)	ANT-2			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	6.691	0.084	6.775	≤ 12.51
5200	6.811	0.084	6.895	
5240	6.446	0.084	6.530	
Frequency (MHz)	ANT-3			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	6.274	0.084	6.358	≤ 12.51
5200	6.141	0.084	6.225	
5240	5.639	0.084	5.723	
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5180	12.404			≤ 12.51
5200	12.359			
5240	12.201			

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 link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-0.60	0.084	6.47	≤ 24.53
5785	-1.15	0.084	5.92	
5825	-1.85	0.084	5.23	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-0.57	0.084	6.51	≤ 24.53
5785	-0.32	0.084	6.75	
5825	0.07	0.084	7.15	
Frequency (MHz)	ANT-2			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-0.14	0.084	6.93	≤ 24.53
5785	-0.72	0.084	6.36	
5825	-0.70	0.084	6.37	
Frequency (MHz)	ANT-3			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	0.84	0.084	7.91	≤ 24.53
5785	0.35	0.084	7.42	
5825	-0.42	0.084	6.66	
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)
5745	13.02			≤ 24.53
5785	12.67			
5825	12.43			

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 link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	5.993	0.026	6.019	≤ 17.00
5200	5.737	0.026	5.763	
5240	5.514	0.026	5.540	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	6.267	0.026	6.293	≤ 17.00
5200	6.349	0.026	6.375	
5240	6.425	0.026	6.451	
Frequency (MHz)	ANT-2			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	6.612	0.026	6.638	≤ 17.00
5200	6.302	0.026	6.328	
5240	6.551	0.026	6.577	
Frequency (MHz)	ANT-3			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	6.204	0.026	6.230	≤ 17.00
5200	5.962	0.026	5.988	
5240	5.569	0.026	5.595	
Frequency (MHz)	ANT-0+1+2+3			Limit (dBm/MHz)
	Calculated (dBm/MHz)			
5180	12.321			≤ 17.00
5200	12.141			
5240	12.087			

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 link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	0.49	0.026	7.51	≤ 30.00
5785	-0.95	0.026	6.07	
5825	-1.30	0.026	5.71	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-0.51	0.026	6.51	≤ 30.00
5785	-0.46	0.026	6.56	
5825	-0.54	0.026	6.47	
Frequency (MHz)	ANT-2			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-1.95	0.026	5.07	≤ 30.00
5785	-2.85	0.026	4.17	
5825	-2.94	0.026	4.07	
Frequency (MHz)	ANT-3			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-0.30	0.026	6.71	≤ 30.00
5785	-0.44	0.026	6.58	
5825	-0.89	0.026	6.12	
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)
5745	12.56			≤ 30.00
5785	11.97			
5825	11.71			

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 link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	2.512	0.070	2.582	≤ 17.00
5230	4.352	0.070	4.422	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	3.078	0.070	3.148	≤ 17.00
5230	5.123	0.070	5.193	
Frequency (MHz)	ANT-2			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	3.085	0.070	3.155	≤ 17.00
5230	4.846	0.070	4.916	
Frequency (MHz)	ANT-3			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	2.482	0.070	2.552	≤ 17.00
5230	4.234	0.070	4.304	
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5190	8.890			≤ 17.00
5230	10.745			

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 link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-3.72	0.070	3.34	≤ 30.00
5795	-4.26	0.070	2.80	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-4.23	0.070	2.83	≤ 30.00
5795	-4.37	0.070	2.69	
Frequency (MHz)	ANT-2			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-6.08	0.070	0.98	≤ 30.00
5795	-6.72	0.070	0.34	
Frequency (MHz)	ANT-3			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-4.47	0.070	2.59	≤ 30.00
5795	-4.34	0.070	2.72	
Frequency (MHz)	ANT-0+1+2+3			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5755	8.54			≤ 30.00
5795	8.27			

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 link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-2.991	0.182	-2.809	≤ 17.00
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-2.487	0.182	-2.305	≤ 17.00
Frequency (MHz)	ANT-2			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-2.255	0.182	-2.073	≤ 17.00
Frequency (MHz)	ANT-3			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-2.940	0.182	-2.758	≤ 17.00
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5210	3.545			≤ 17.00

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

Test Mode	Mode 5: IEEE 802.11ac 80 MHz link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-6.75	0.182	0.42	≤ 30.00
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-7.88	0.182	-0.71	≤ 30.00
Frequency (MHz)	ANT-2			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-10.42	0.182	-3.25	≤ 30.00
Frequency (MHz)	ANT-3			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-9.46	0.182	-2.29	≤ 30.00
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)
5775	4.79			≤ 30.00

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 link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	-0.554	0.026	-0.528	≤ 12.51
5200	-0.740	0.026	-0.714	
5240	-0.873	0.026	-0.847	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	-0.444	0.026	-0.418	≤ 12.51
5200	-0.268	0.026	-0.242	
5240	-0.479	0.026	-0.453	
Frequency (MHz)	ANT-2			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	-0.127	0.026	-0.101	≤ 12.51
5200	-0.346	0.026	-0.320	
5240	-0.541	0.026	-0.515	
Frequency (MHz)	ANT-3			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5180	-0.763	0.026	-0.737	≤ 12.51
5200	-0.876	0.026	-0.850	
5240	-0.830	0.026	-0.804	
Frequency (MHz)	ANT-0+1+2+3			Limit (dBm/MHz)
	Calculated (dBm/MHz)			
5180	5.581			≤ 12.51
5200	5.497			
5240	5.369			

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 link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-2.68	0.035	4.35	≤ 24.53
5785	-3.48	0.035	3.55	
5825	-4.00	0.035	3.03	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-3.77	0.035	3.26	≤ 24.53
5785	-3.43	0.035	3.59	
5825	-3.31	0.035	3.72	
Frequency (MHz)	ANT-2			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-4.27	0.035	2.75	≤ 24.53
5785	-4.80	0.035	2.22	
5825	-5.03	0.035	1.99	
Frequency (MHz)	ANT-3			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5745	-4.49	0.035	2.53	≤ 24.53
5785	-4.42	0.035	2.61	
5825	-4.49	0.035	2.54	
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)
5745	9.29			≤ 24.53
5785	9.04			
5825	8.88			

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 link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	-3.907	0.070	-3.837	≤ 12.51
5230	-2.452	0.070	-2.382	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	-3.637	0.070	-3.567	≤ 12.51
5230	-1.325	0.070	-1.255	
Frequency (MHz)	ANT-2			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	-3.671	0.070	-3.601	≤ 12.51
5230	-1.751	0.070	-1.681	
Frequency (MHz)	ANT-3			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	-4.419	0.070	-4.349	≤ 12.51
5230	-2.555	0.070	-2.485	
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5190	2.193			≤ 12.51
5230	4.100			

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 link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-5.63	0.070	1.43	≤ 24.53
5795	-7.61	0.070	-0.55	
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-7.67	0.070	-0.61	≤ 24.53
5795	-6.88	0.070	0.18	
Frequency (MHz)	ANT-2			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-8.37	0.070	-1.31	≤ 24.53
5795	-9.13	0.070	-2.07	
Frequency (MHz)	ANT-3			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5755	-7.27	0.070	-0.21	≤ 24.53
5795	-7.44	0.070	-0.38	
Frequency (MHz)	ANT-0+1+2+3			Limit (dBm/500 kHz)
	Calculated (dBm/500 kHz)			
5755	5.97			≤ 24.53
5795	5.39			

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 link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-9.532	0.182	-9.350	≤ 12.51
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-9.026	0.182	-8.844	≤ 12.51
Frequency (MHz)	ANT-2			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-8.649	0.182	-8.467	≤ 12.51
Frequency (MHz)	ANT-3			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-9.607	0.182	-9.425	≤ 12.51
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5210	-2.983			≤ 12.51

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 link mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-10.00	0.145	-2.86	≤ 24.53
Frequency (MHz)	ANT-1			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-10.01	0.145	-2.88	≤ 24.53
Frequency (MHz)	ANT-2			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-11.33	0.145	-4.20	≤ 24.53
Frequency (MHz)	ANT-3			
	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Limit (dBm/500 kHz)
5775	-9.49	0.145	-2.36	≤ 24.53
Frequency (MHz)	ANT-0+1+2+3			
	Calculated (dBm/500 kHz)			Limit (dBm/500 kHz)
5775	3.03			≤ 24.53

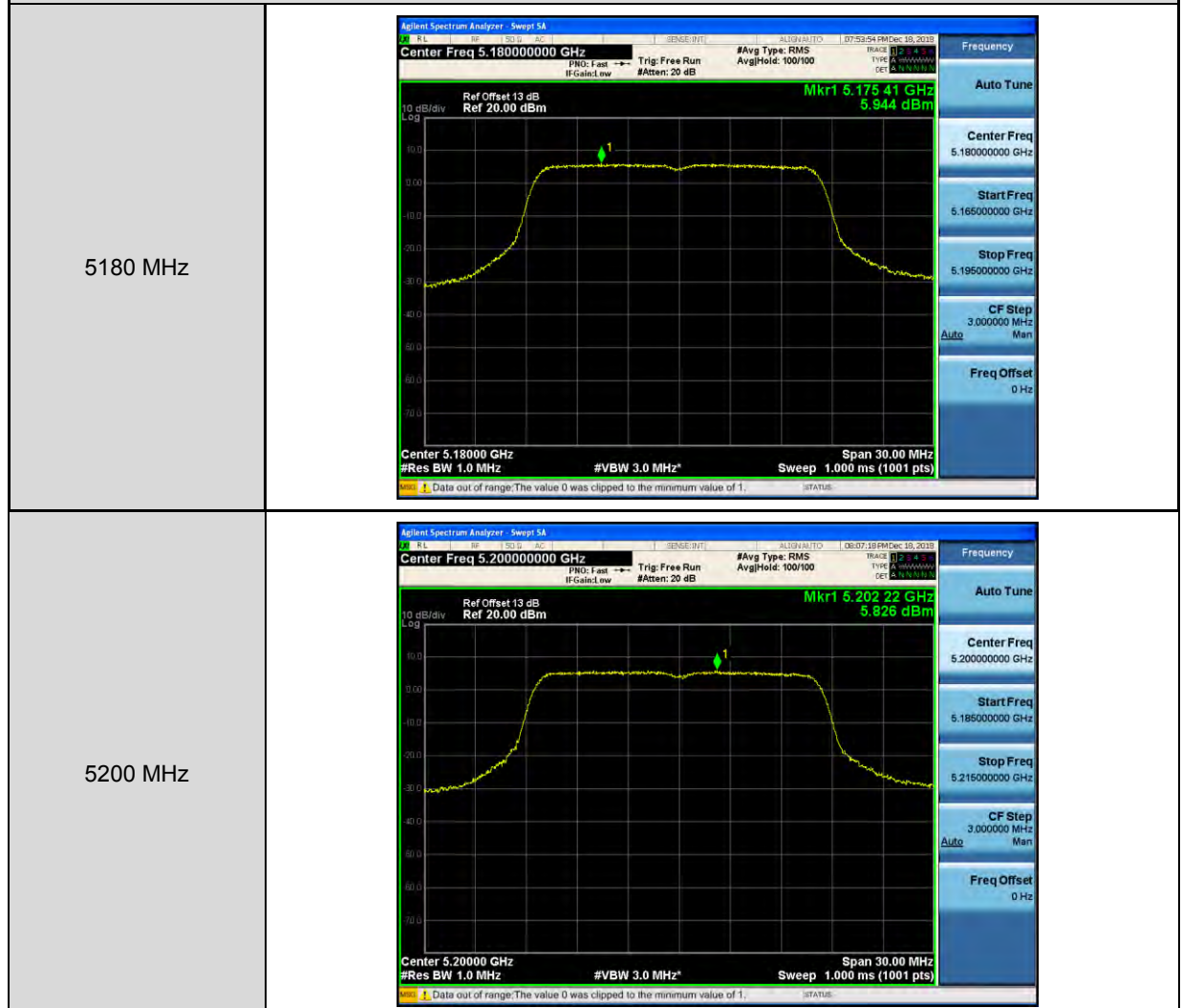
Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

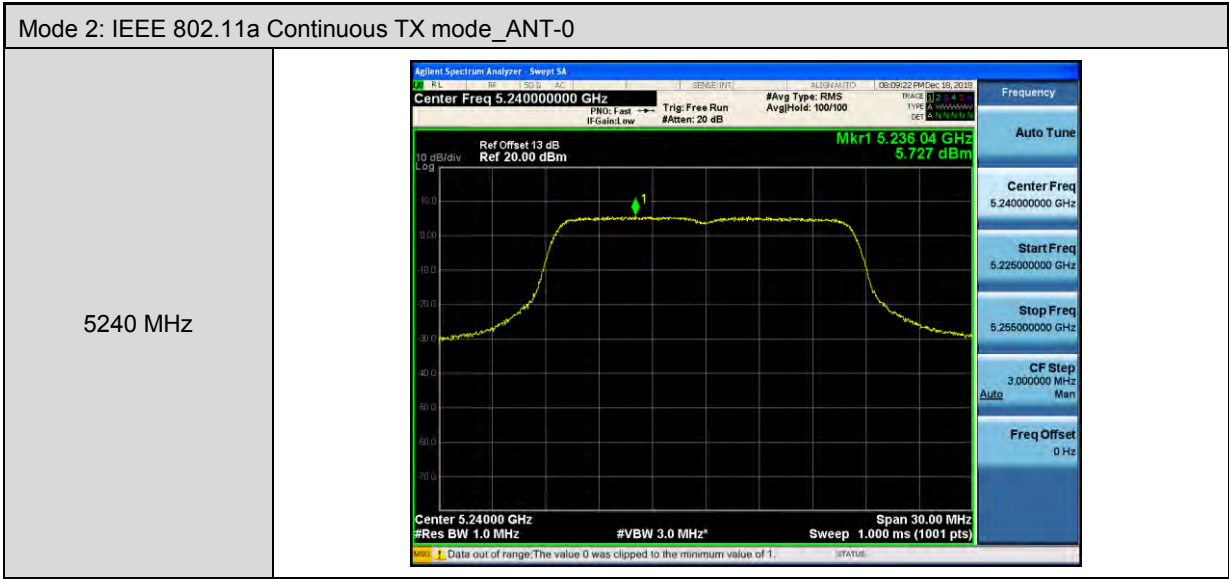
Conversion ratio = 10*Log(500 k/100 k)



■ Test Graphs

Mode 2: IEEE 802.11a Continuous TX mode _ANT-0







Mode 2: IEEE 802.11a Continuous TX mode _ANT-0

5745 MHz	
5785 MHz	
5825 MHz	

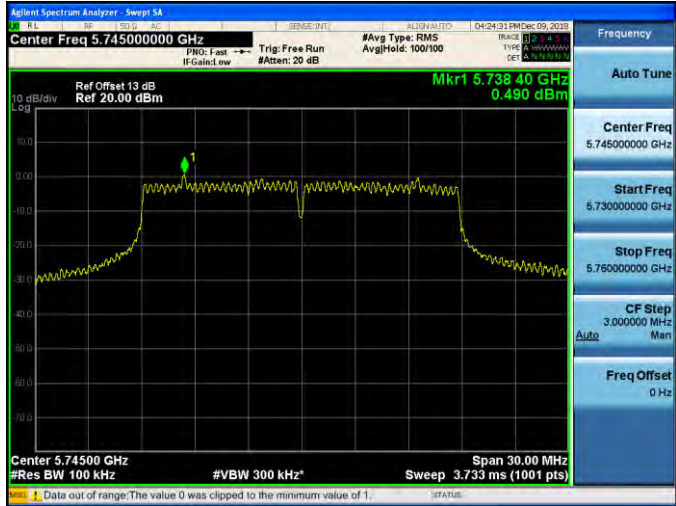
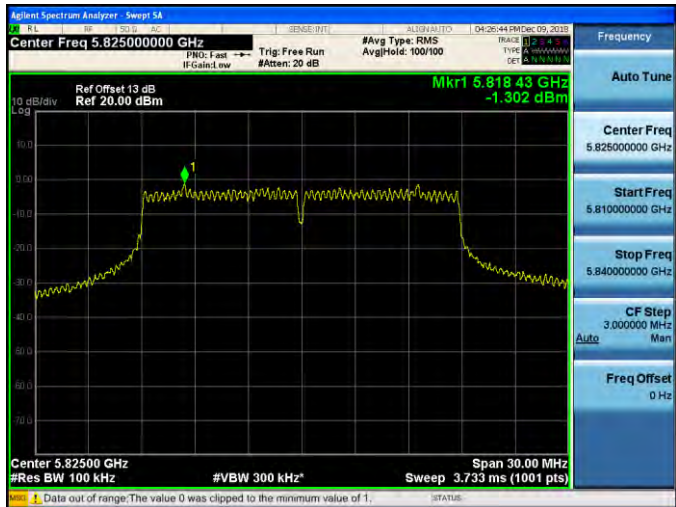


Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0

5180 MHz	
5200 MHz	
5240 MHz	



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0

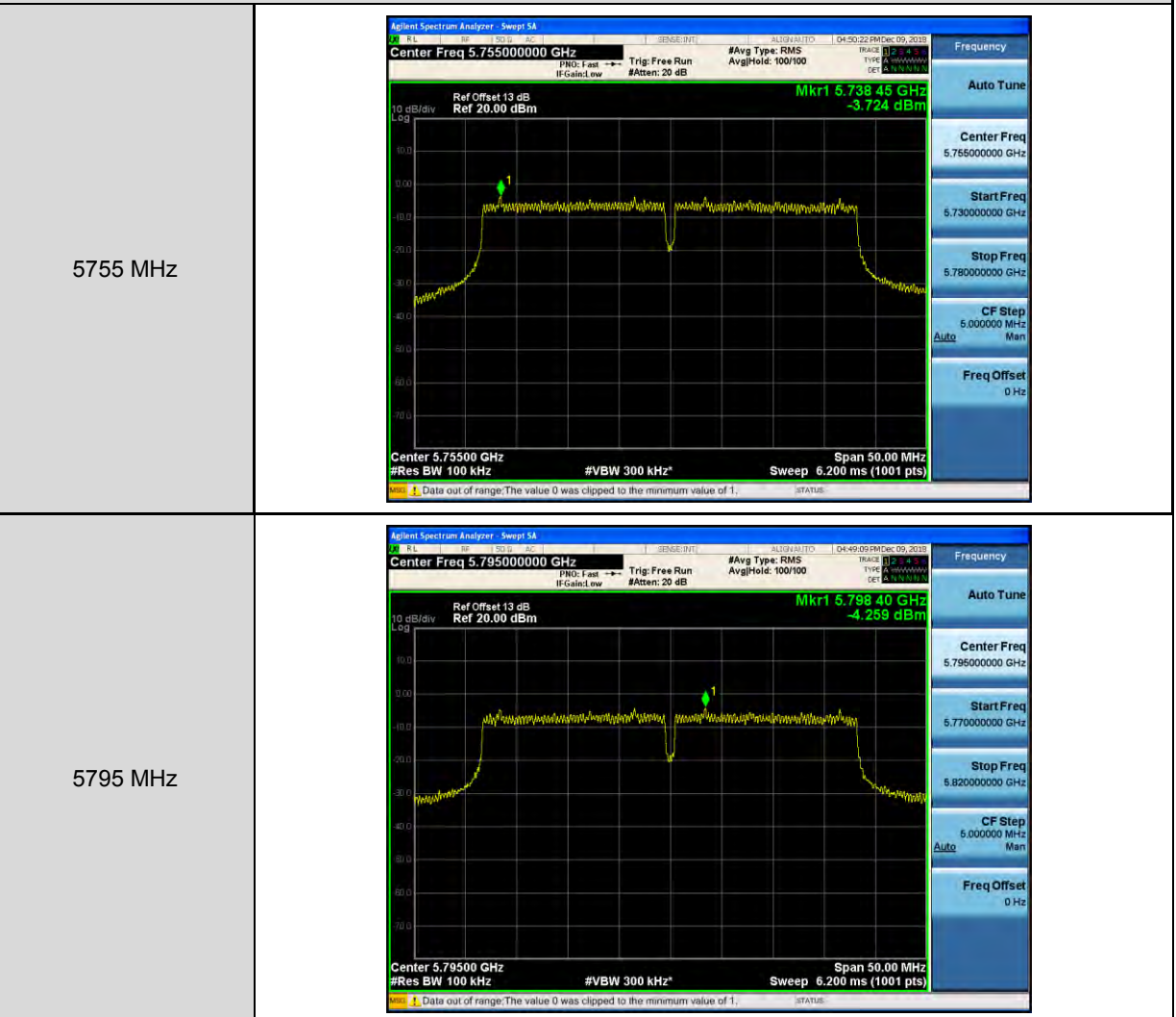
5745 MHz	
5785 MHz	
5825 MHz	



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



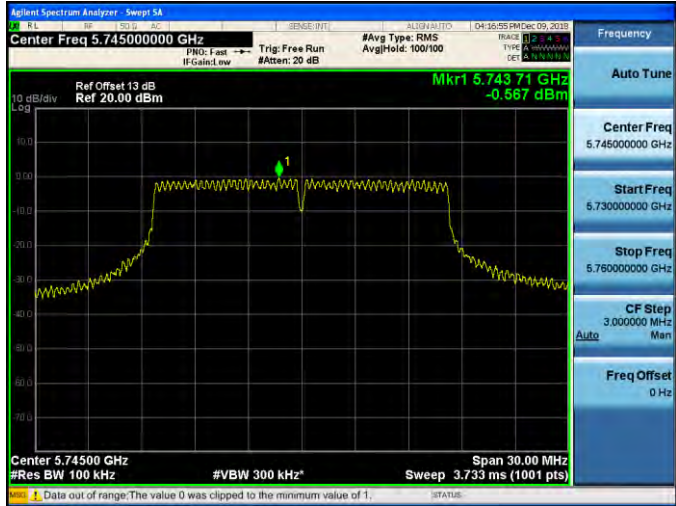
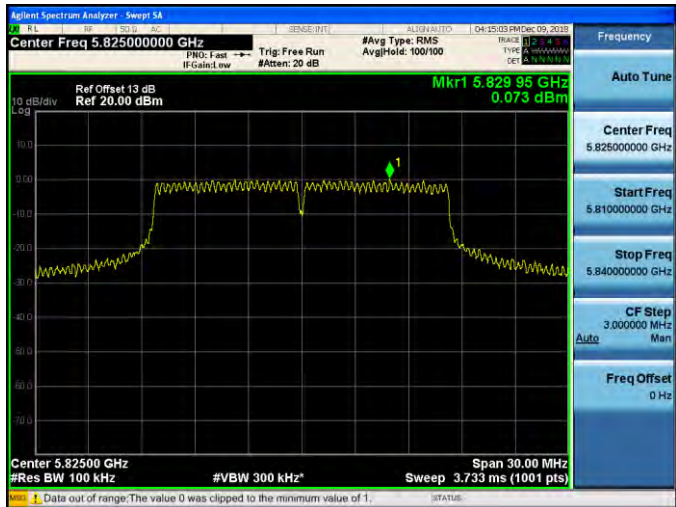


Mode 2: IEEE 802.11a Continuous TX mode _ANT-1

5180 MHz	
5200 MHz	
5240 MHz	



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

5745 MHz	
5785 MHz	
5825 MHz	

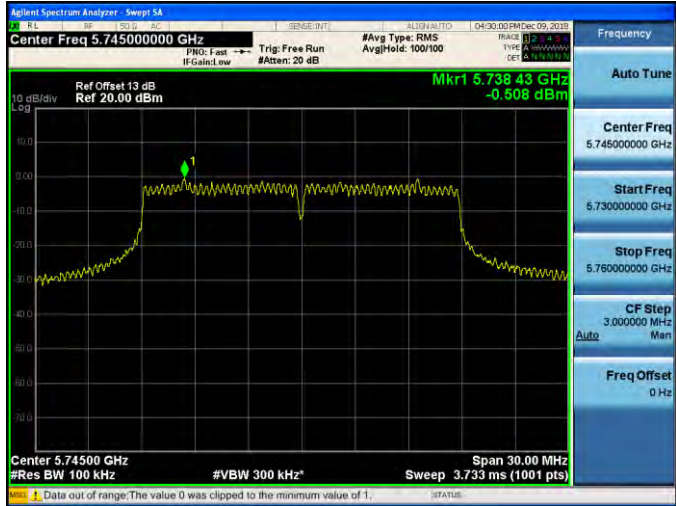
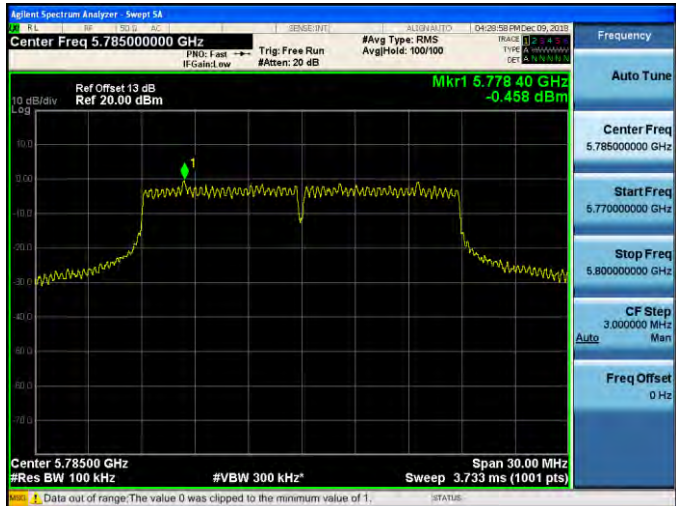


Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-1

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





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





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

5180 MHz	
5200 MHz	
5240 MHz	

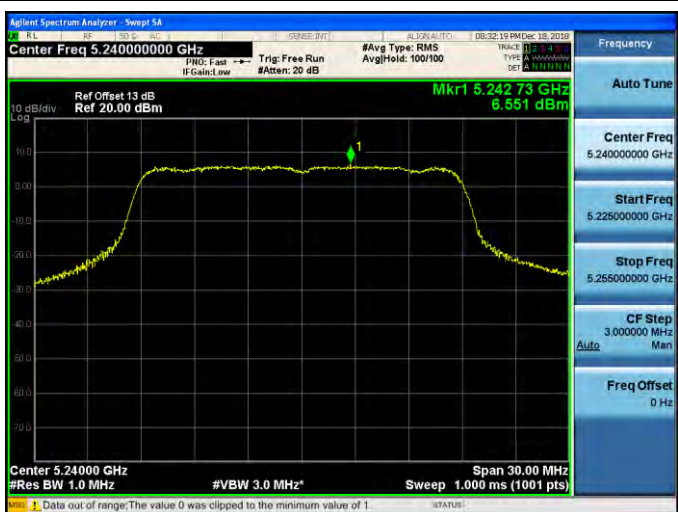


Mode 2: IEEE 802.11a Continuous TX mode _ANT-2

5745 MHz	
5785 MHz	
5825 MHz	



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-2

5180 MHz	
5200 MHz	
5240 MHz	



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-2

5745 MHz	
5785 MHz	
5825 MHz	



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-2





Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-2





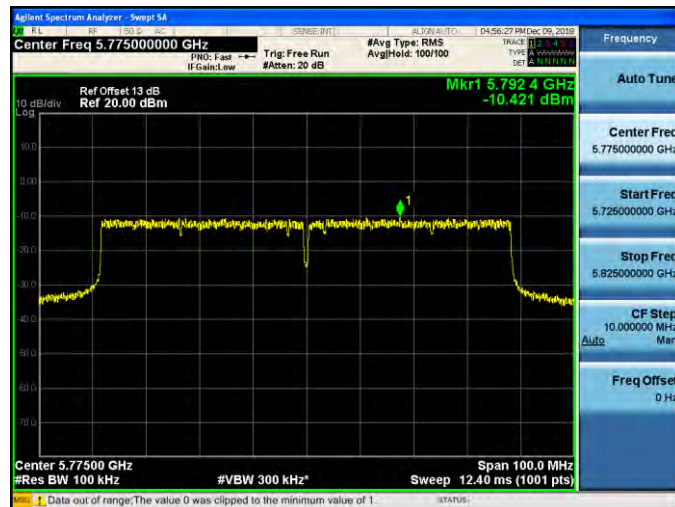
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-2

5210 MHz



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-2

5775 MHz



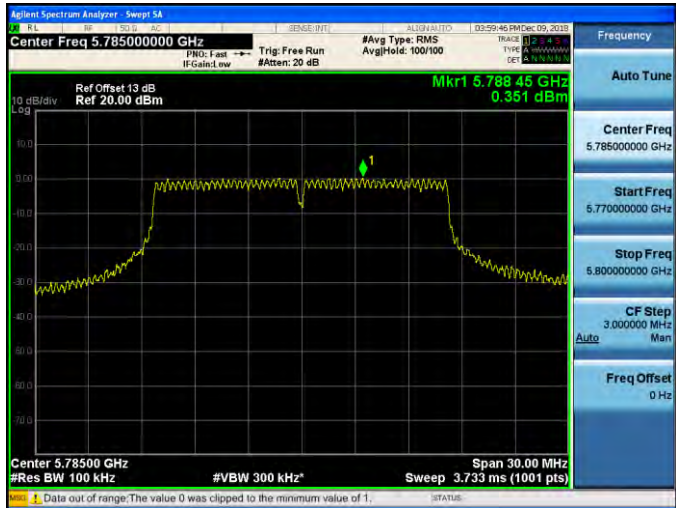


Mode 2: IEEE 802.11a Continuous TX mode _ANT-3

5180 MHz	
5200 MHz	
5240 MHz	



Mode 2: IEEE 802.11a Continuous TX mode_ANT-3

5745 MHz	
5785 MHz	
5825 MHz	



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-3

5180 MHz	
5200 MHz	
5240 MHz	



Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-3

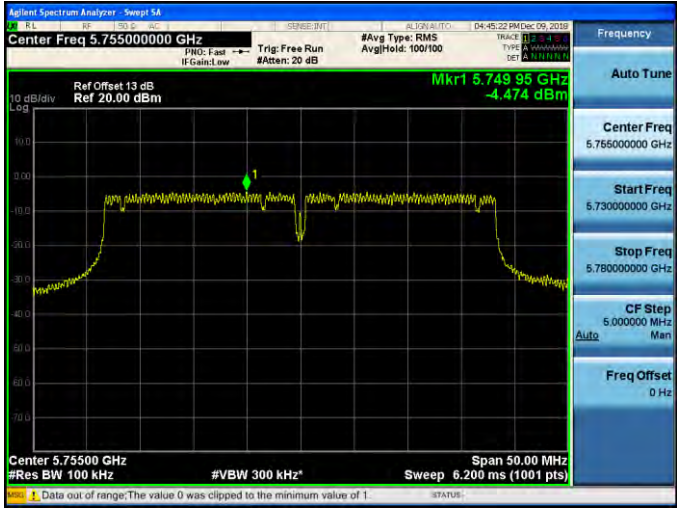
5745 MHz	 Ref Offset 13 dB Ref 20.00 dBm Mkr1 5.748 09 GHz -0.301 dBm Center Freq 5.745000000 GHz #Res BW 100 kHz #VBW 300 kHz* Sweep 3.733 ms (1001 pts) Span 30.00 MHz Auto Tune Center Freq 5.745000000 GHz Start Freq 5.730000000 GHz Stop Freq 5.760000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz 1 Data out of range; The value 0 was clipped to the minimum value of 1.
5785 MHz	 Ref Offset 13 dB Ref 20.00 dBm Mkr1 5.787 79 GHz -0.436 dBm Center Freq 5.785000000 GHz #Res BW 100 kHz #VBW 300 kHz* Sweep 3.733 ms (1001 pts) Span 30.00 MHz 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 1 Data out of range; The value 0 was clipped to the minimum value of 1.
5825 MHz	 Ref Offset 13 dB Ref 20.00 dBm Mkr1 5.826 20 GHz -0.891 dBm Center Freq 5.825000000 GHz #Res BW 100 kHz #VBW 300 kHz* Sweep 3.733 ms (1001 pts) Span 30.00 MHz 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 1 Data out of range; The value 0 was clipped to the minimum value of 1.



Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-3





Mode 4: IEEE 802.11ac 40 MHz Continuous TX mode_ANT-3	
5755 MHz	
5795 MHz	



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-3



Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode_ANT-3





Beamforming on

Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0

5180 MHz



5200 MHz

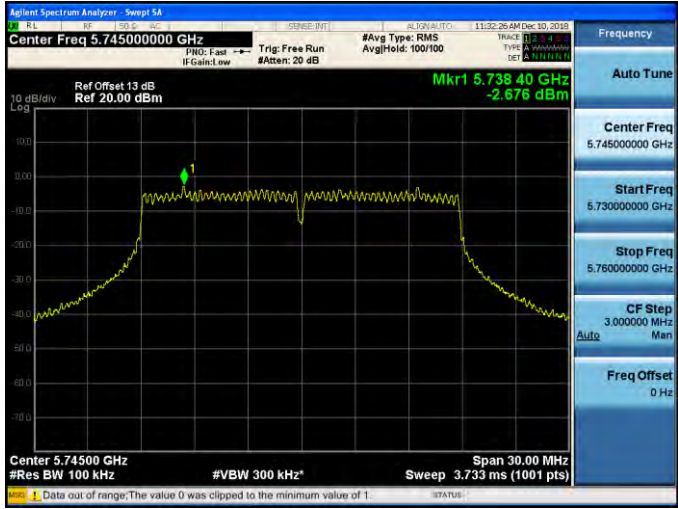
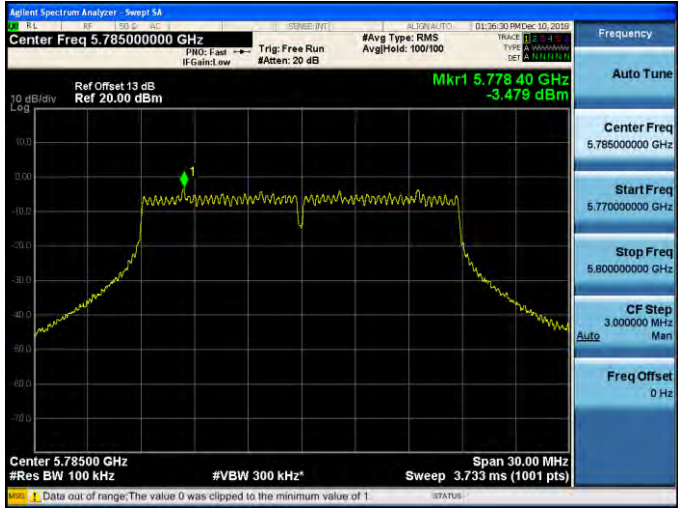
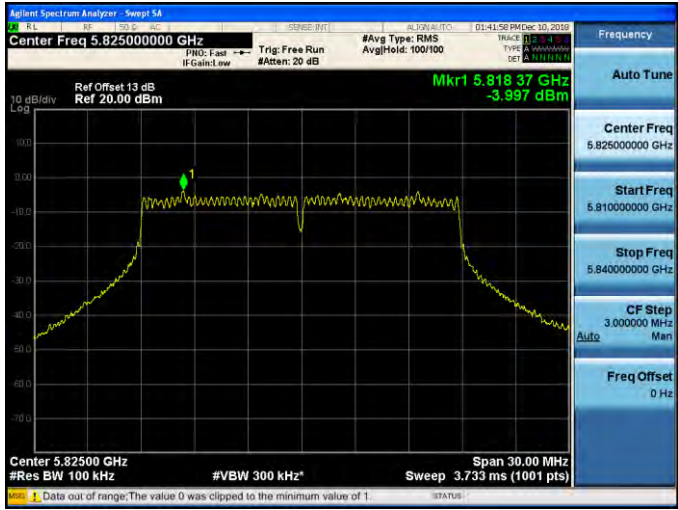


5240 MHz



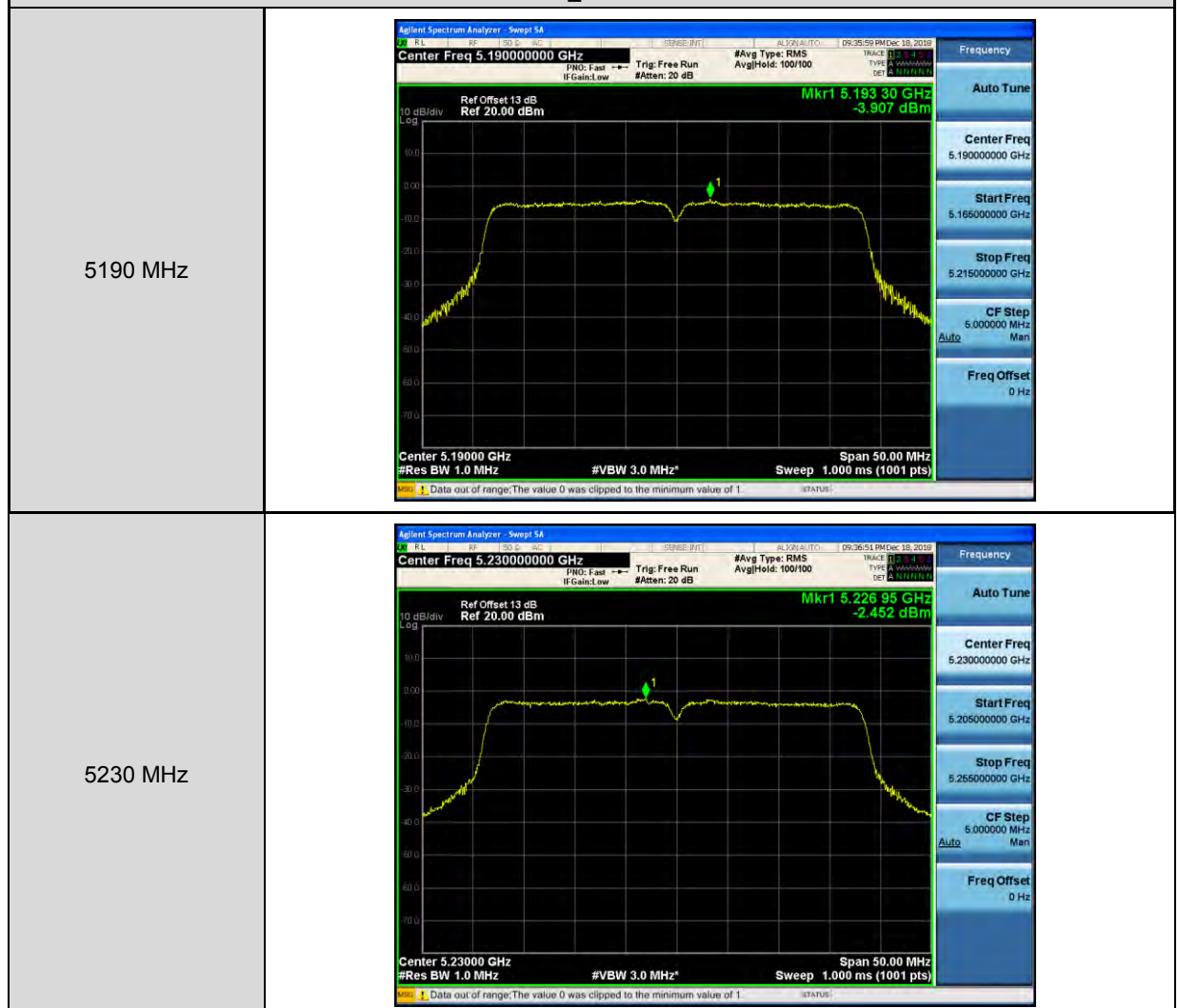


Mode 3: IEEE 802.11ac 20 MHz Continuous TX mode_ANT-0

5745 MHz	 Ref Offset 13 dB Ref 20.00 dBm Mkr1 5.738 40 GHz -2.676 dBm Center Freq 5.745000000 GHz Start Freq 5.730000000 GHz Stop Freq 5.760000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz Center 5.74500 GHz #Res BW 100 kHz #VBW 300 kHz* Span 30.00 MHz Sweep 3.733 ms (1001 pts)
5785 MHz	 Ref Offset 13 dB Ref 20.00 dBm Mkr1 5.778 40 GHz -3.479 dBm Center Freq 5.785000000 GHz Start Freq 5.770000000 GHz Stop Freq 5.800000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz Center 5.78500 GHz #Res BW 100 kHz #VBW 300 kHz* Span 30.00 MHz Sweep 3.733 ms (1001 pts)
5825 MHz	 Ref Offset 13 dB Ref 20.00 dBm Mkr1 5.818 37 GHz -3.997 dBm Center Freq 5.825000000 GHz Start Freq 5.810000000 GHz Stop Freq 5.840000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz Center 5.82500 GHz #Res BW 100 kHz #VBW 300 kHz* Span 30.00 MHz Sweep 3.733 ms (1001 pts)



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





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

