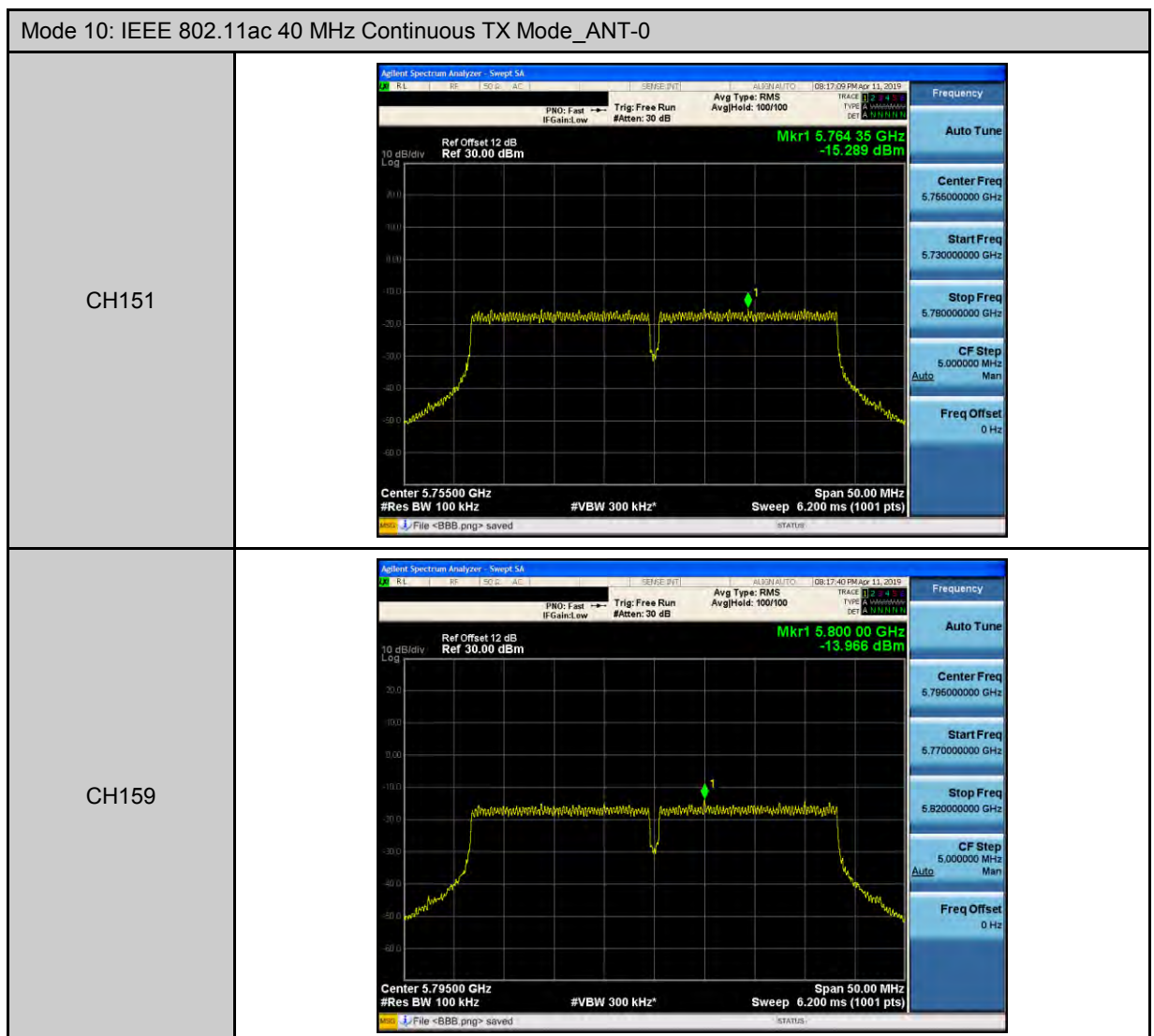
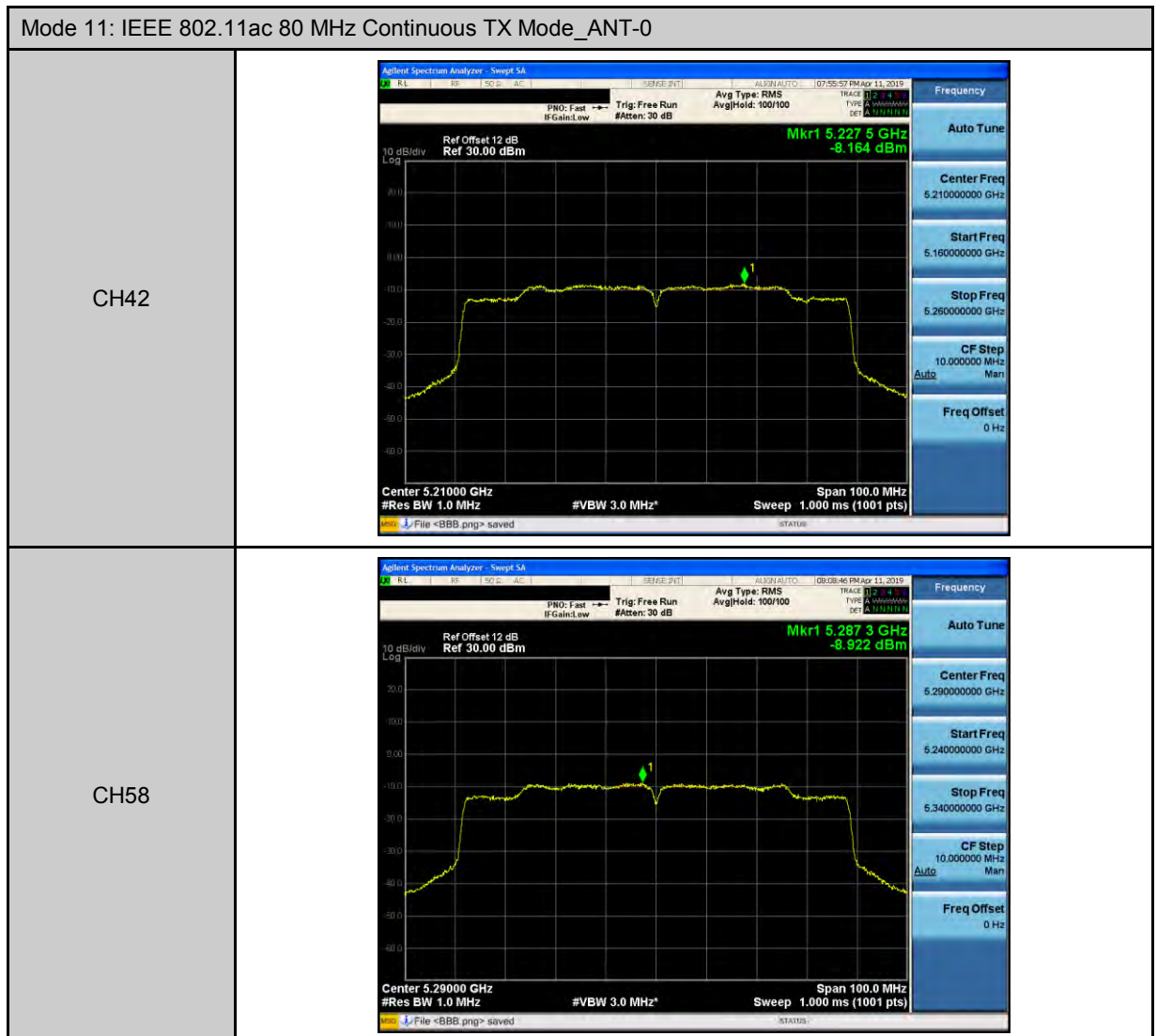
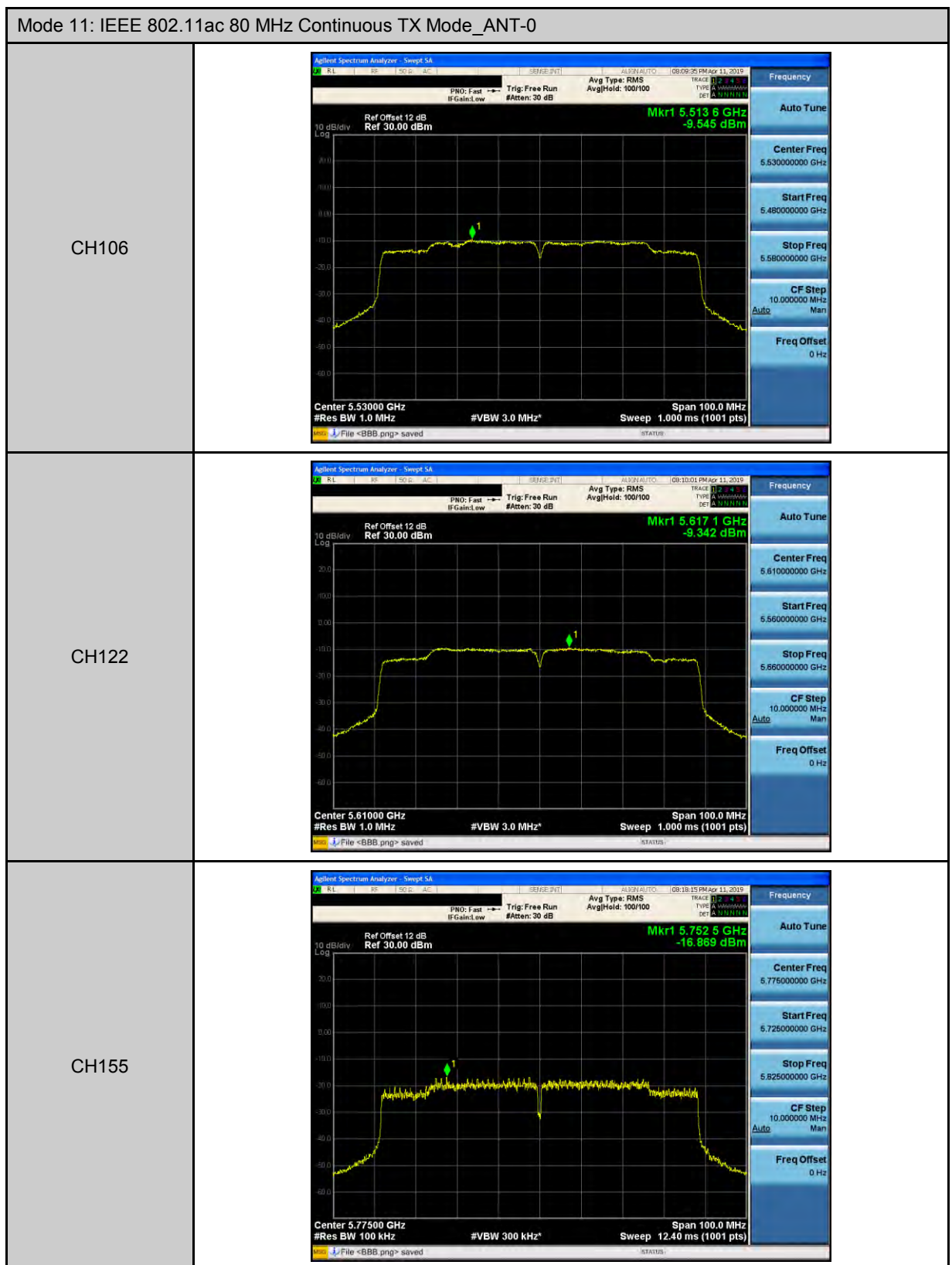
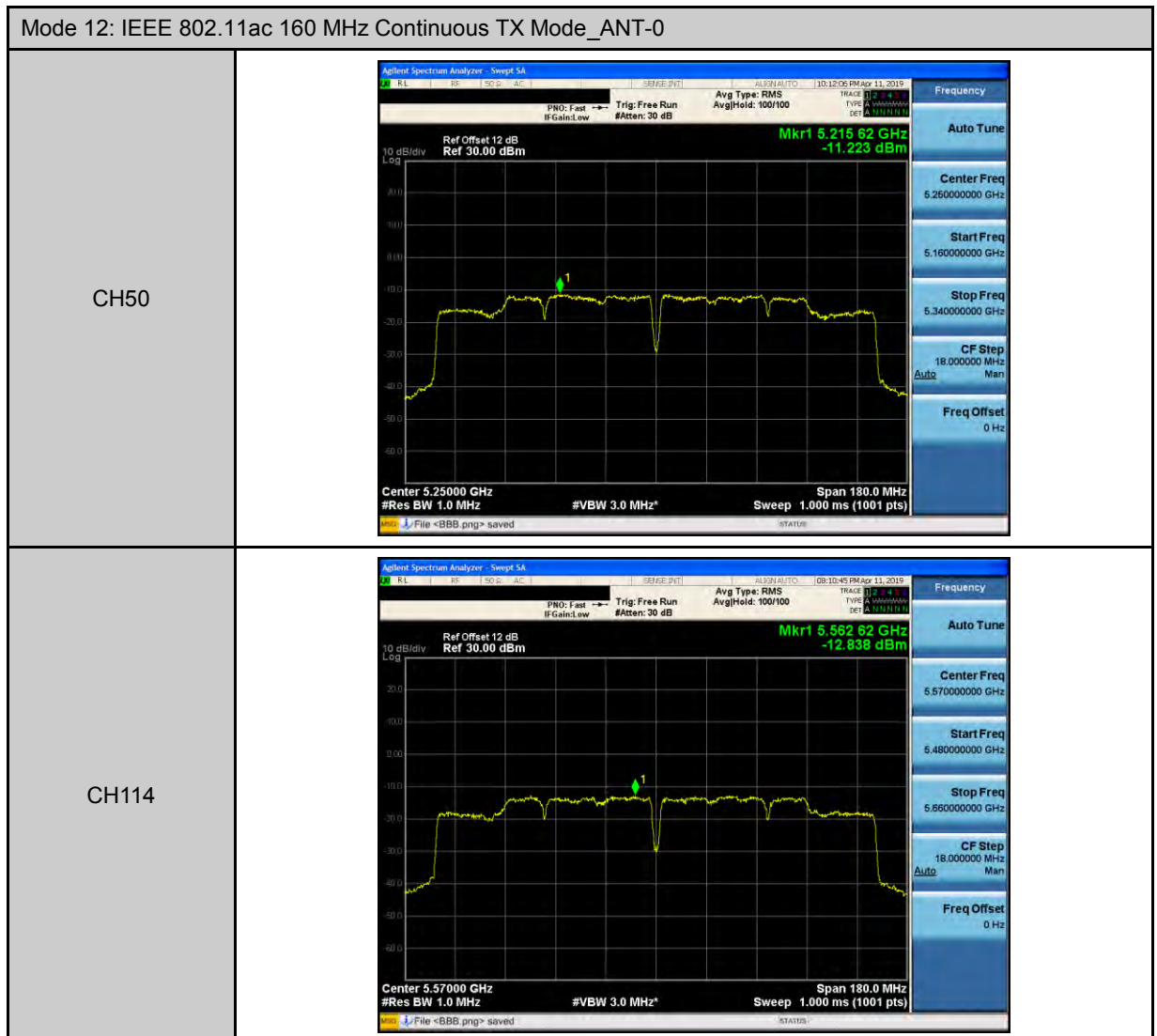
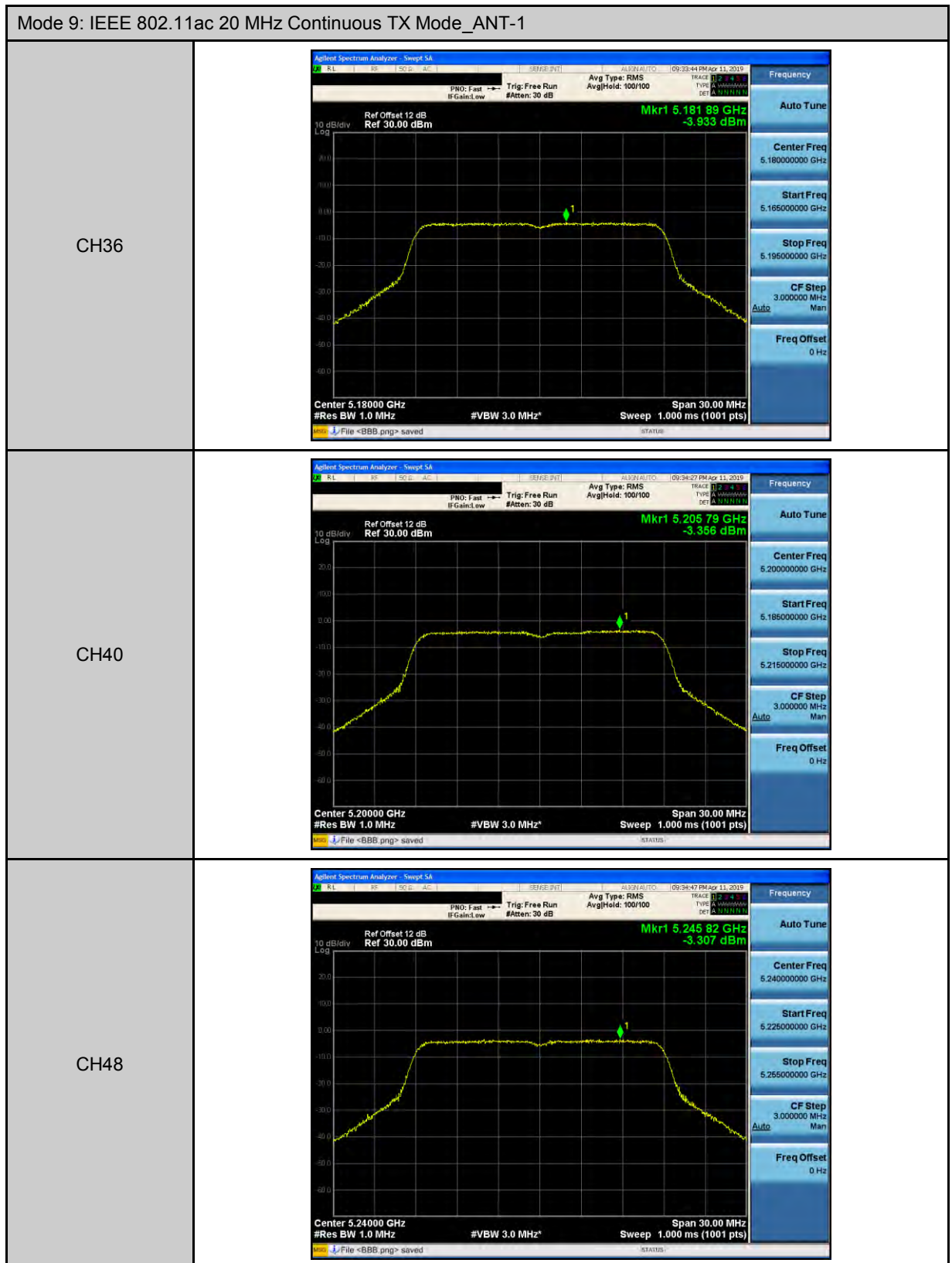


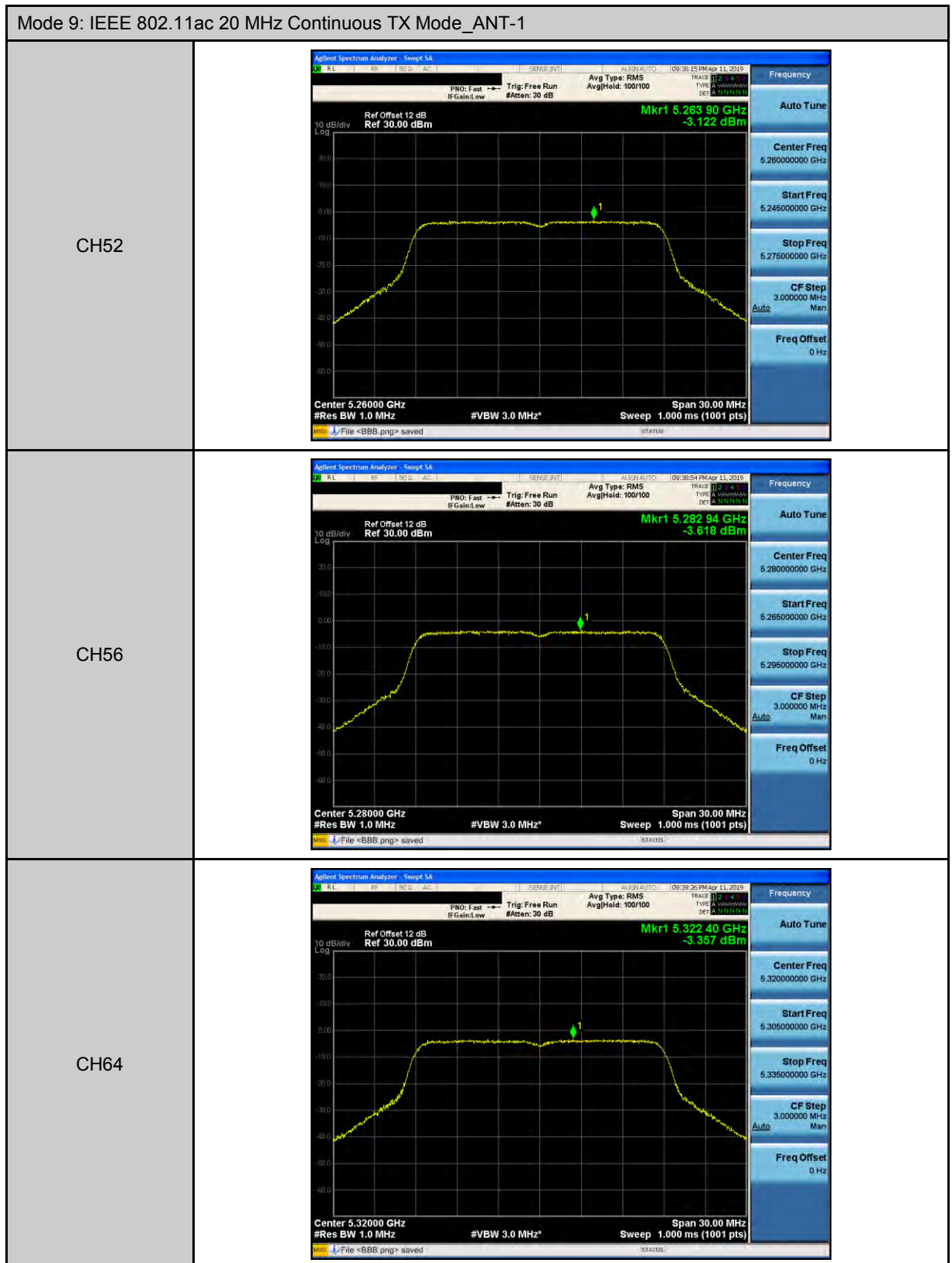


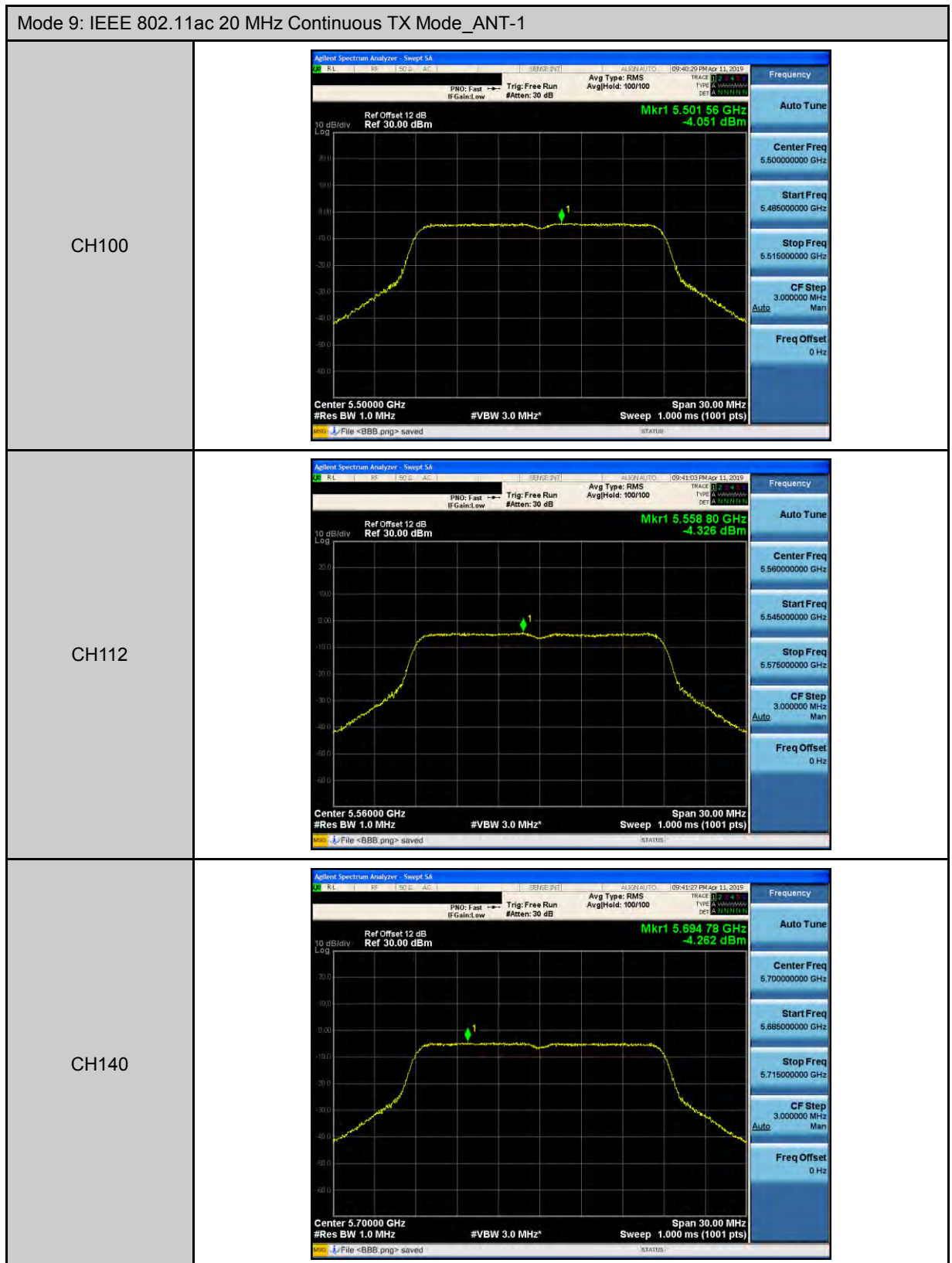


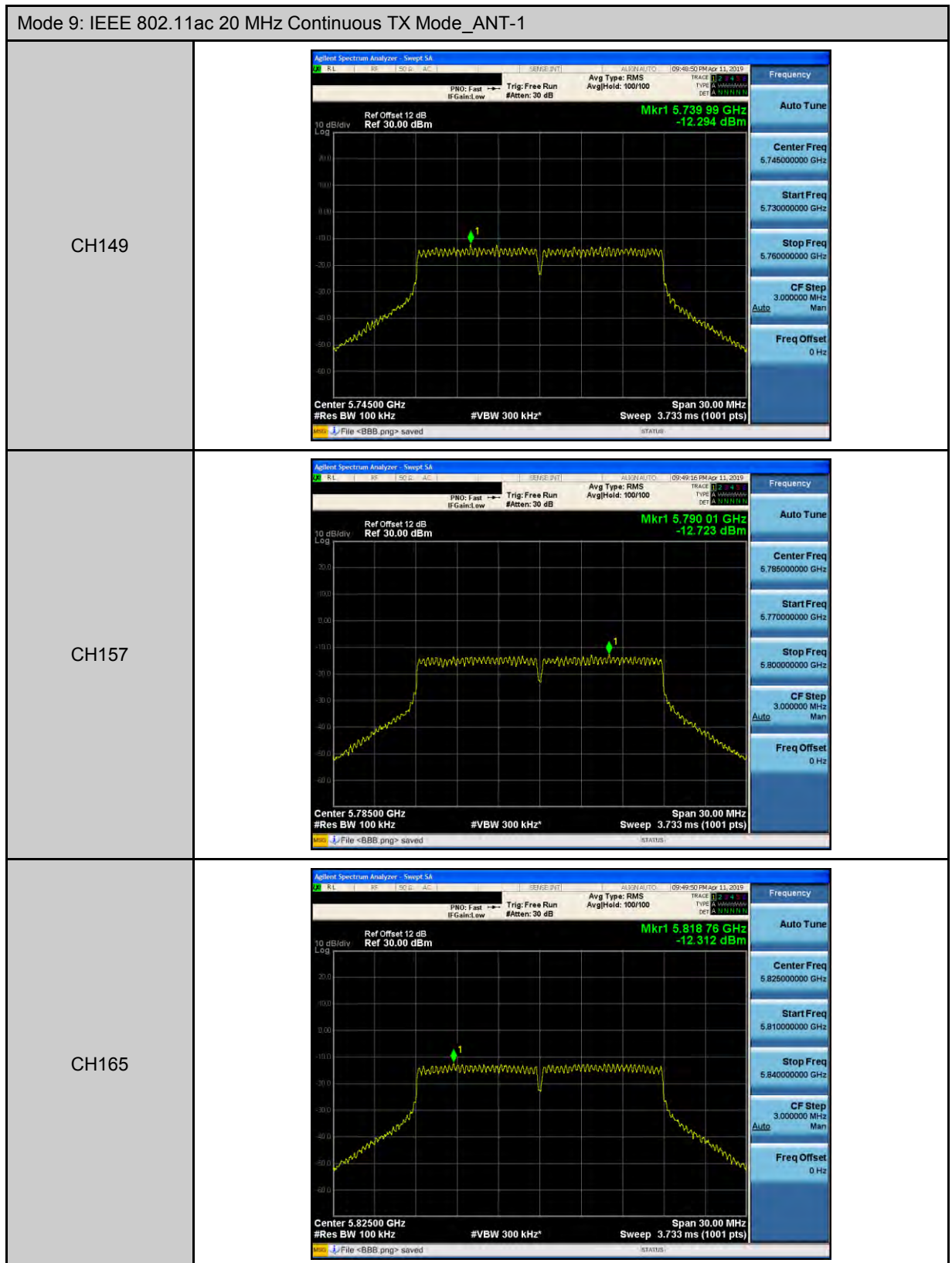


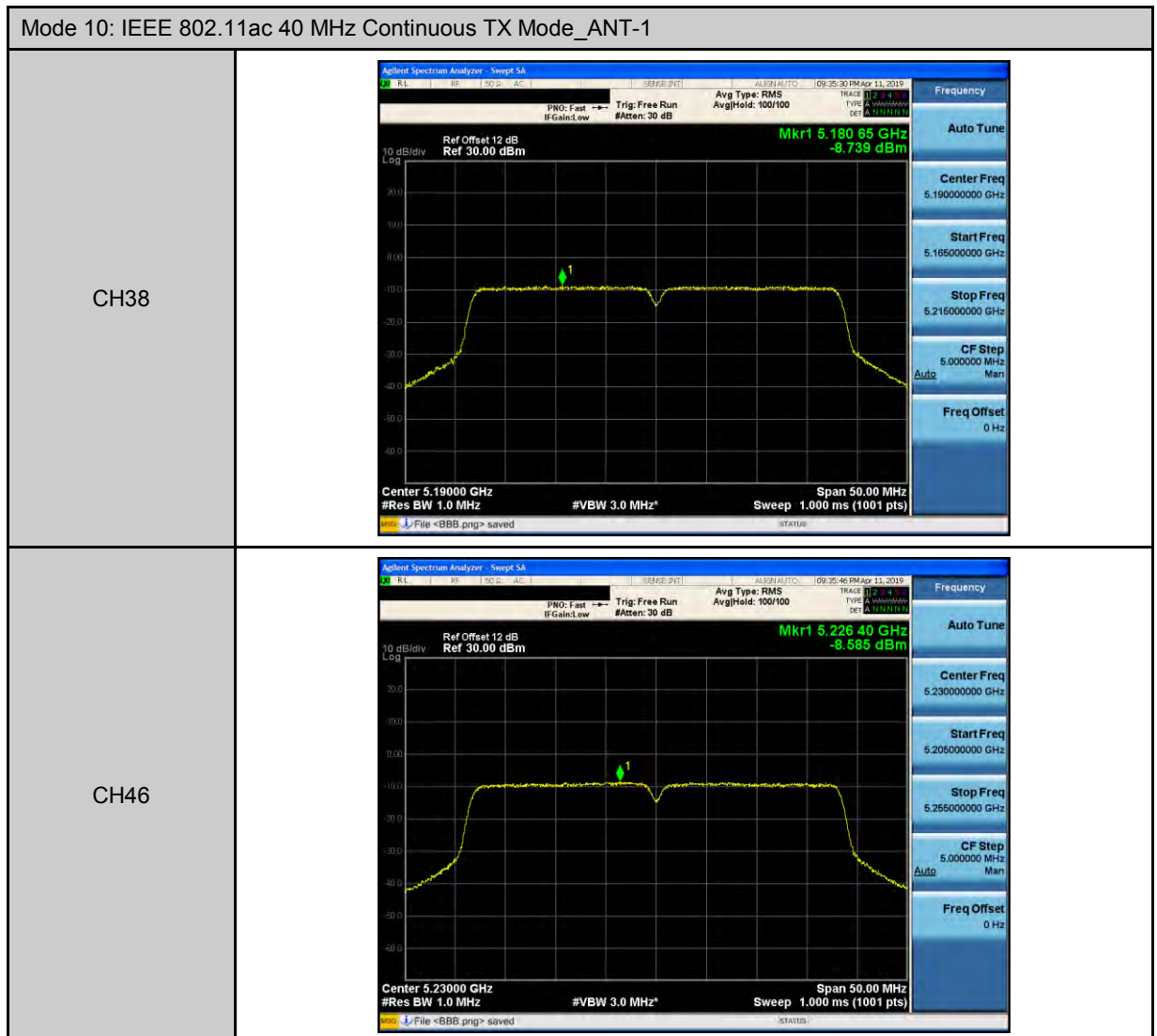


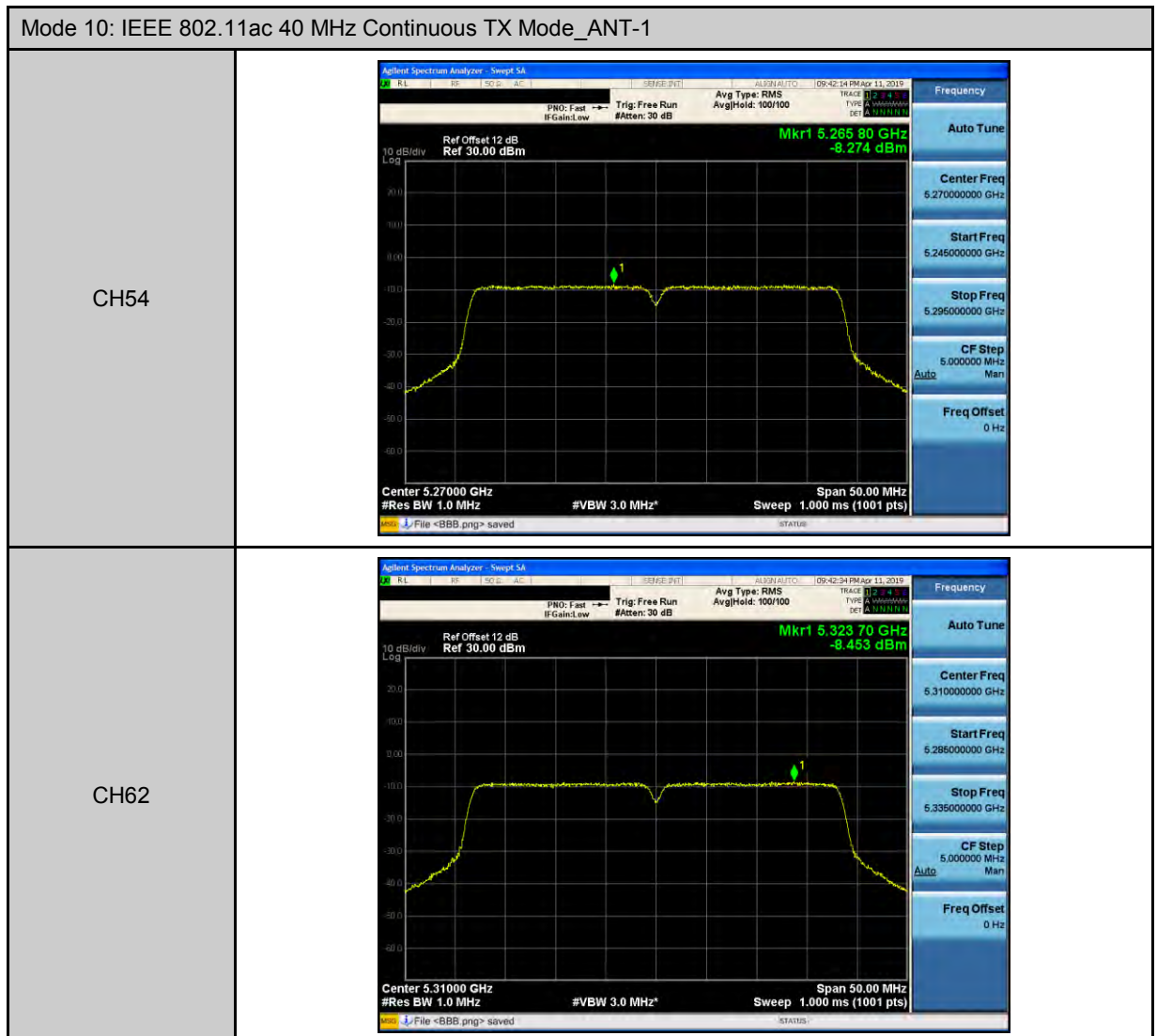


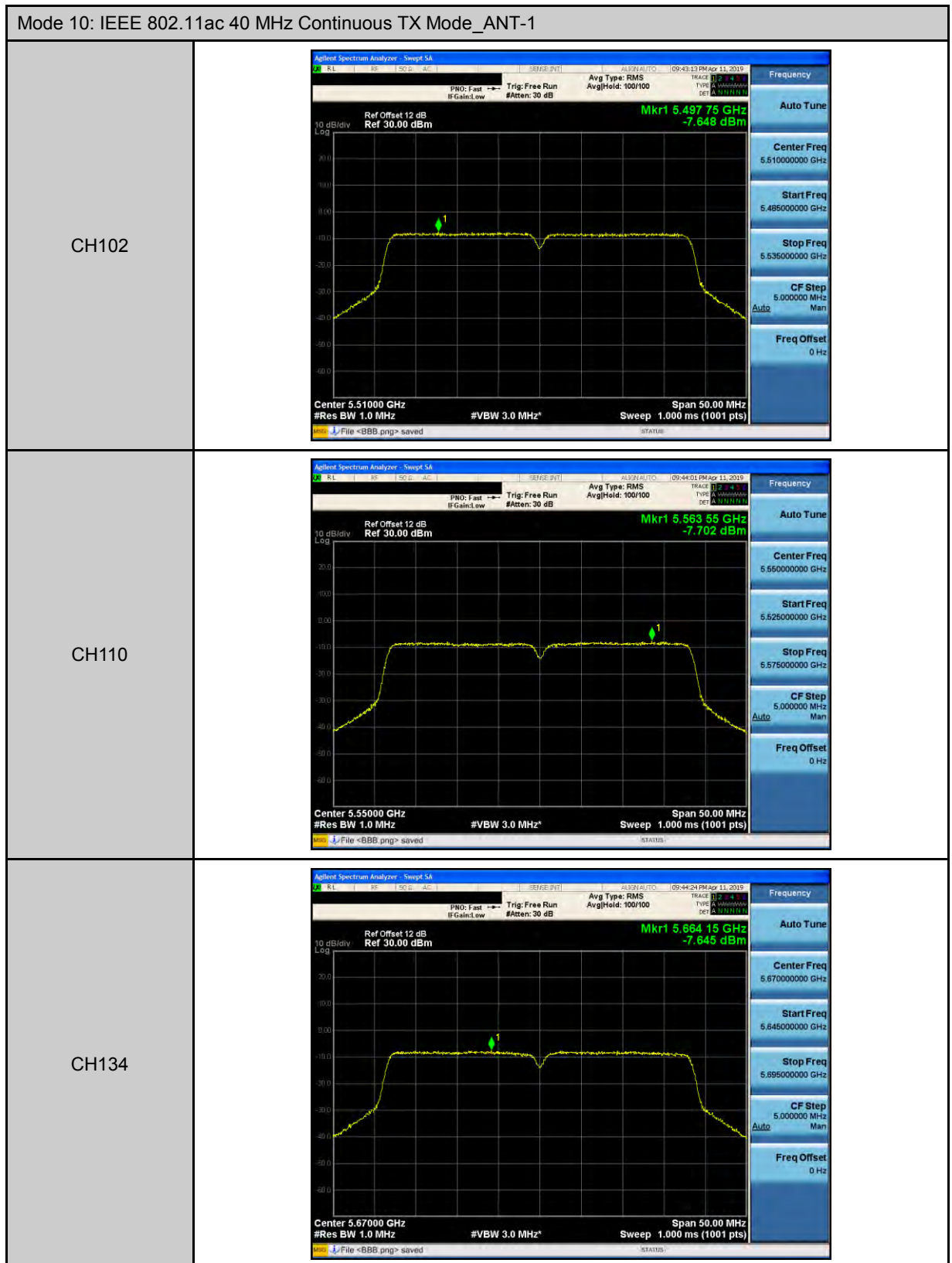


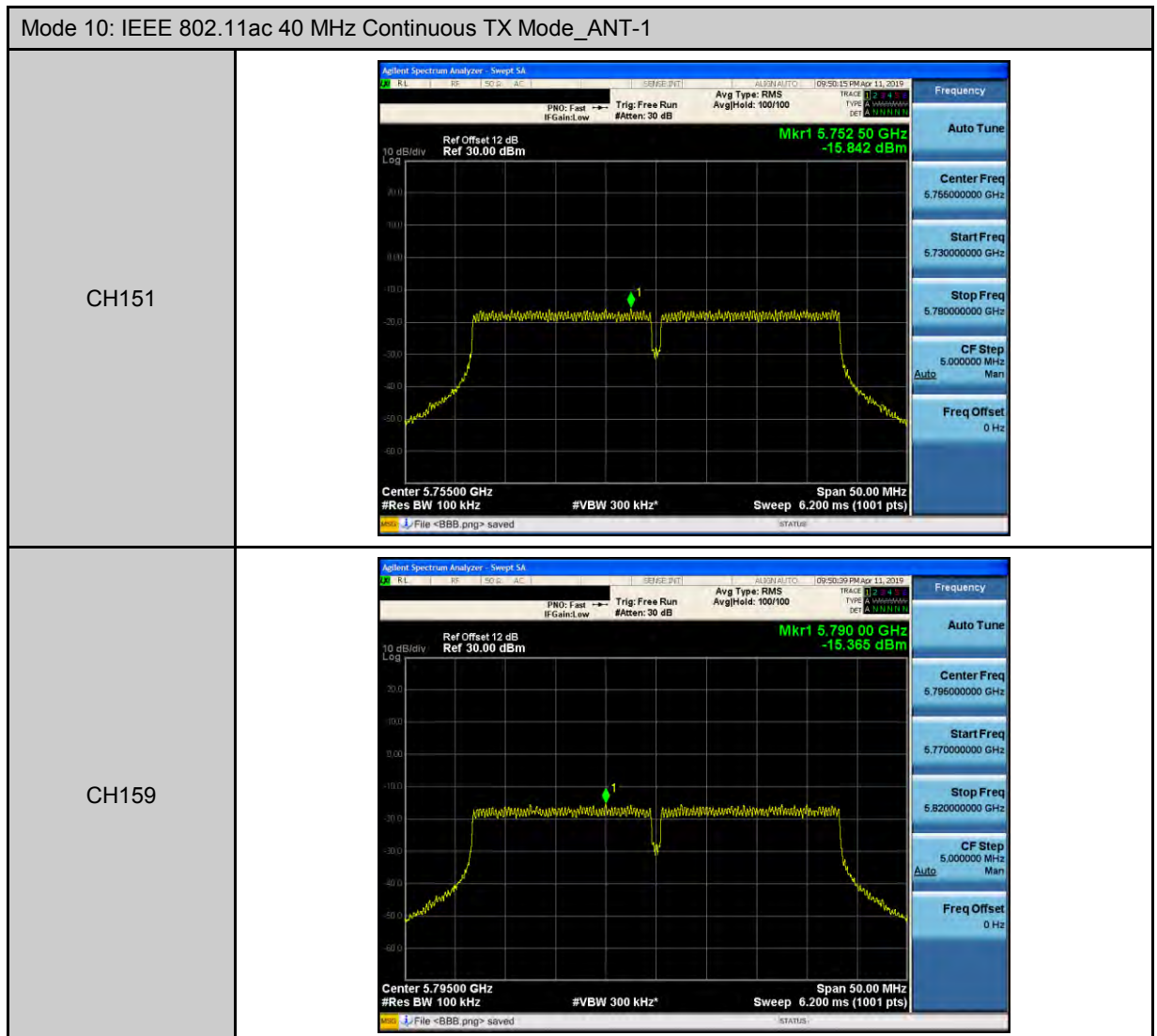


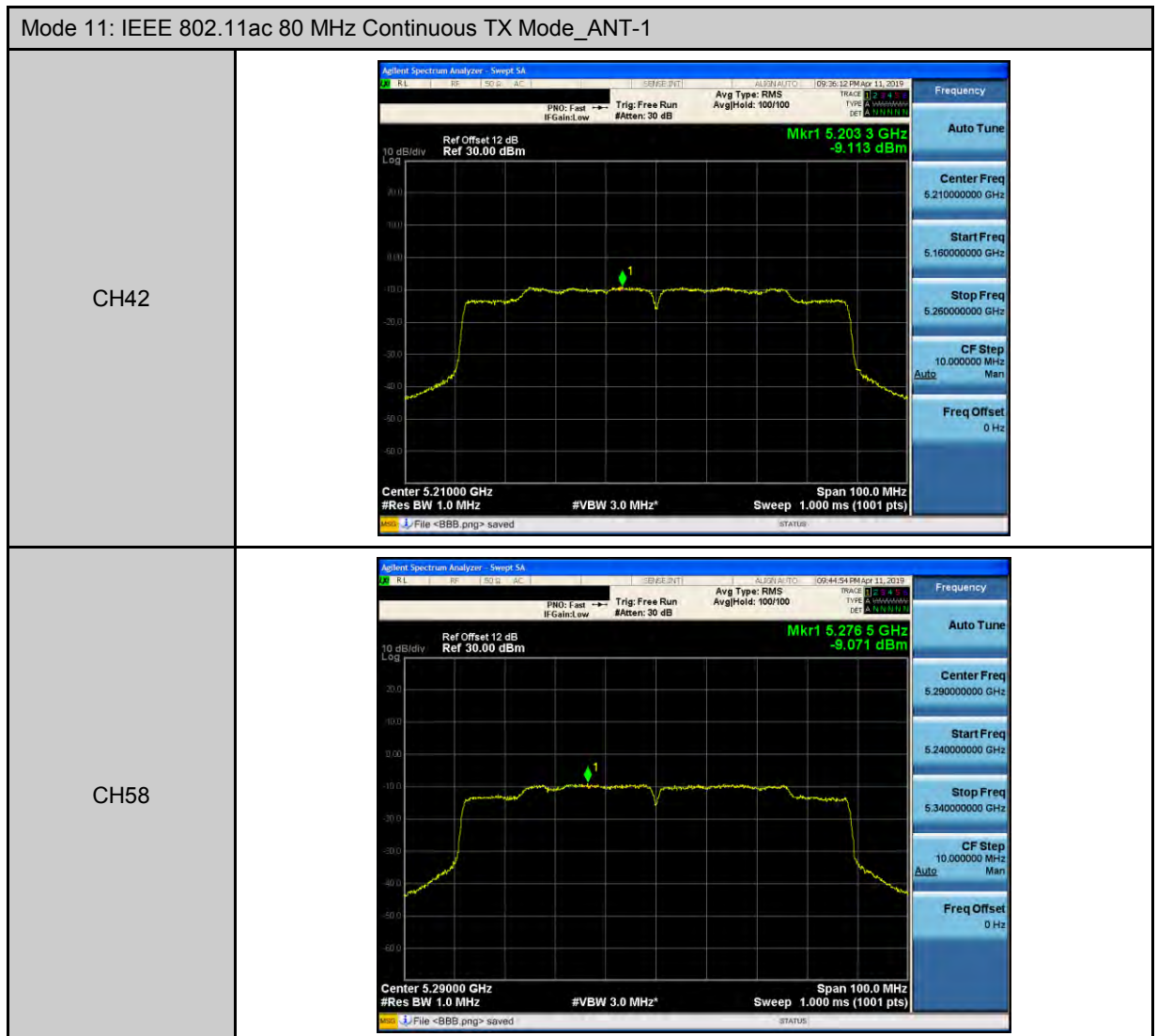


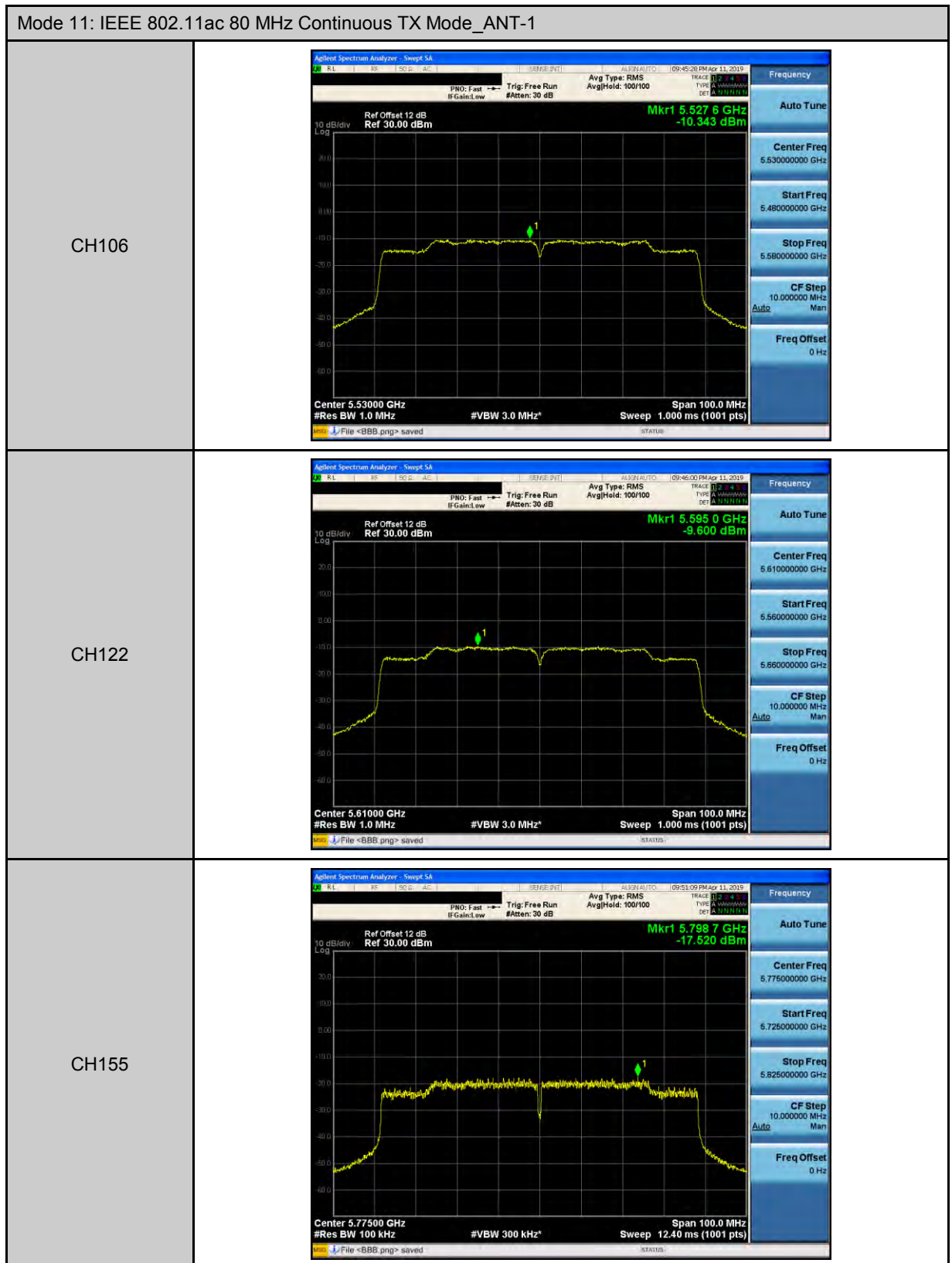


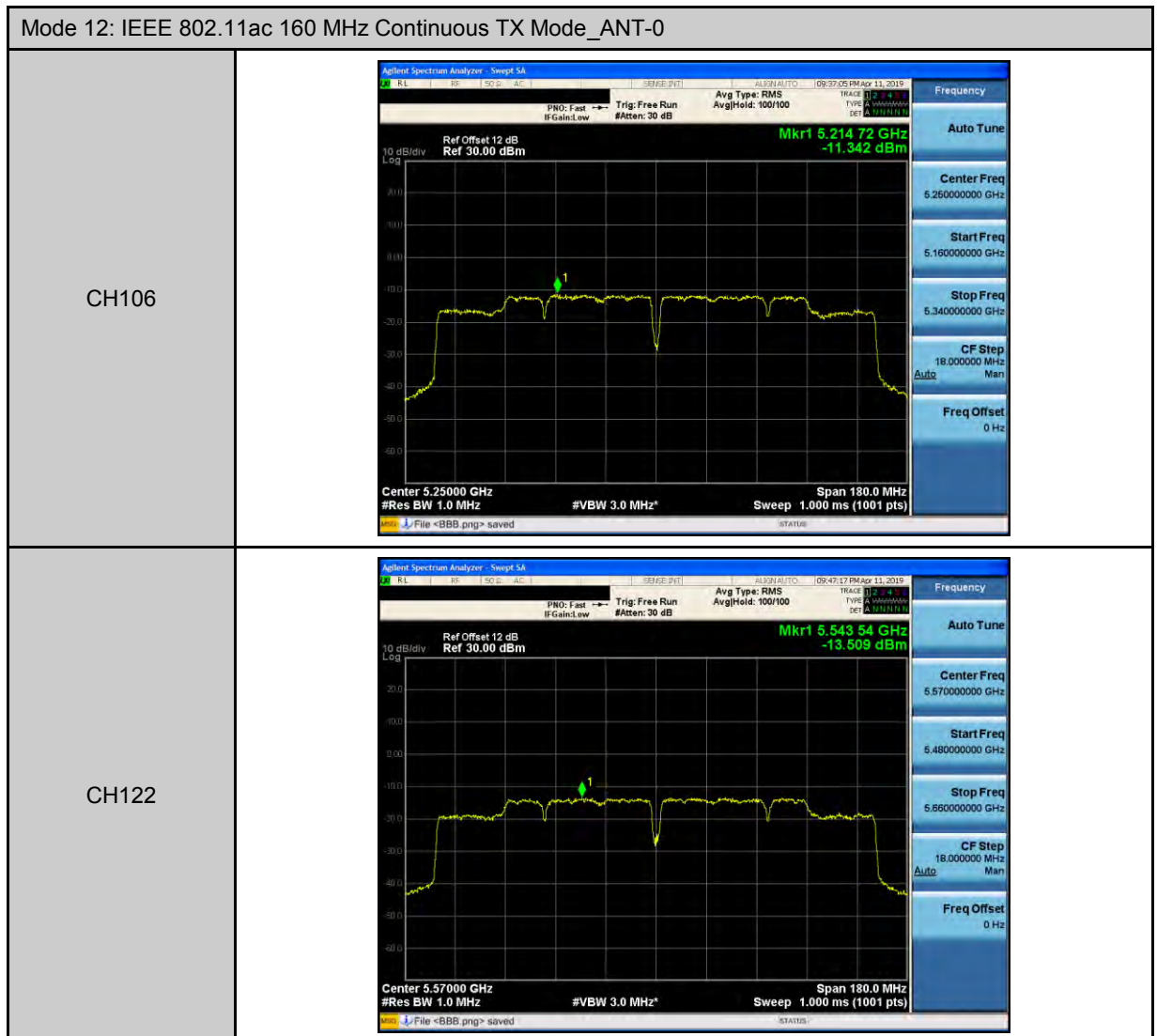










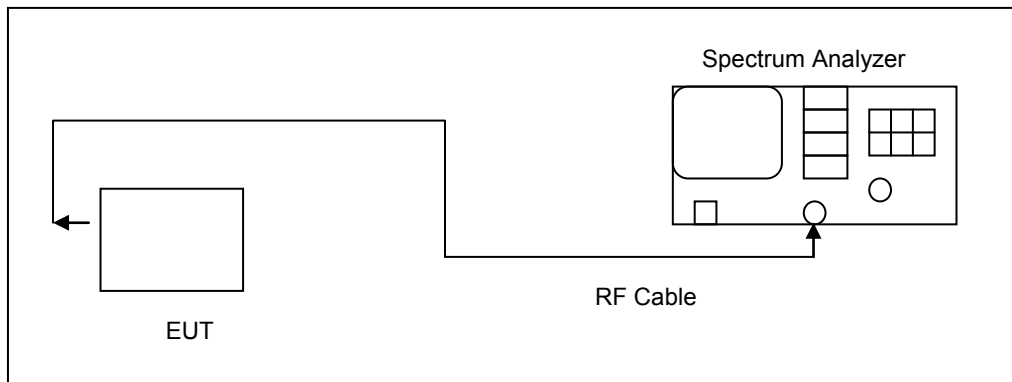


4.3.4 26 dB頻寬之要求

合格標準:

N/A

測試架構圖：



測試結果:

操作模式	: Mode 6 / Mode 7 / Mode 8 / Mode 9 / Mode 10 / Mode 11 / Mode 12
測試結果	: 合格

操作模式	頻道 (CH)	頻率 (MHz)	26 dB 頻寬量測值 (MHz)	
			ANT-0	ANT-1
Mode 6	36	5180.0	24.140	---
	40	5200.0	23.630	---
	48	5240.0	23.230	---
	52	5260.0	24.420	---
	56	5280.0	23.750	---
	64	5320.0	24.310	---
	100	5500.0	24.040	---
	112	5560.0	23.710	---
	140	5700.0	23.720	---
Mode 7	52	5260.0	24.670	23.910
	56	5280.0	24.530	24.650
	64	5320.0	24.000	24.500
	100	5500.0	23.560	24.020
	112	5560.0	23.980	24.020
	140	5700.0	24.400	25.040
Mode 8	54	5270.0	43.640	44.090
	62	5310.0	43.570	44.150
	102	5510.0	44.160	44.880
	110	5550.0	42.780	43.980
	134	5670.0	44.280	45.680
Mode 9	36	5180.0	24.490	24.920
	40	5200.0	23.890	24.400
	48	5240.0	23.900	25.050
	52	5260.0	24.550	24.030
	56	5280.0	23.630	24.390
	64	5320.0	24.040	24.830
	100	5500.0	24.680	23.990
	112	5560.0	24.000	24.860
	140	5700.0	24.100	24.650
Mode 10	38	5190.0	44.550	45.310
	46	5230.0	43.140	43.490
	54	5270.0	43.430	44.530
	62	5310.0	43.650	44.090
	102	5510.0	44.870	45.270
	110	5550.0	43.820	44.520
	134	5670.0	45.010	44.380

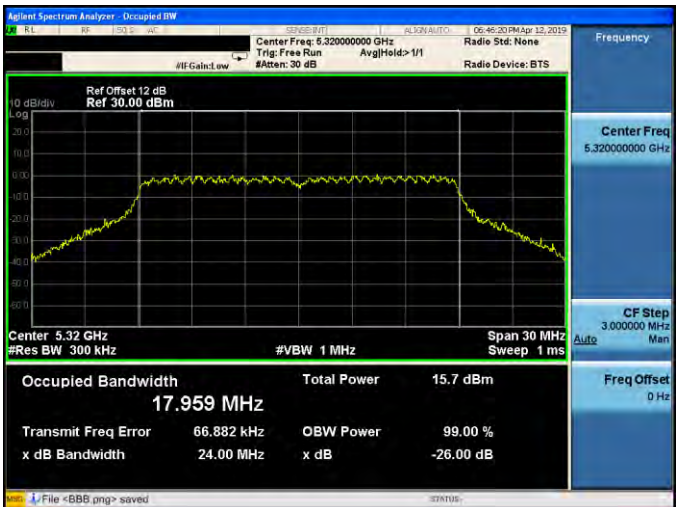
操作模式	: Mode 6 / Mode 7 / Mode 8 / Mode 9 / Mode 10 / Mode 11 / Mode 12
測試結果	: 合格

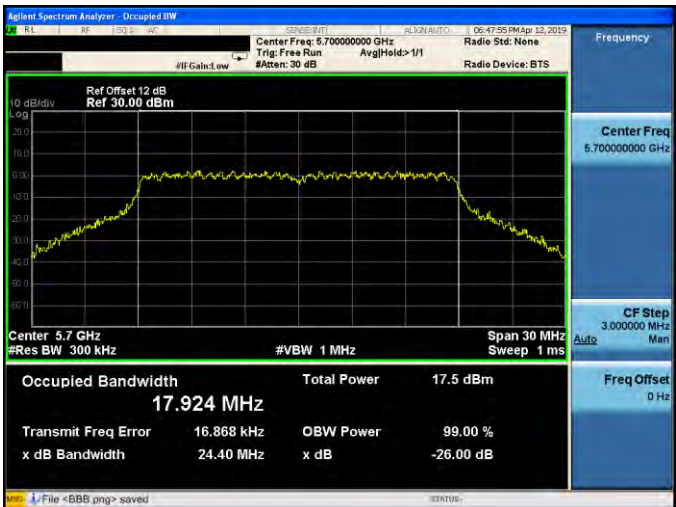
操作模式	頻道 (CH)	頻率 (MHz)	26 dB 頻寬量測值 (MHz)	
			ANT-0	ANT-1
Mode 11	42	5210.0	83.140	86.110
	58	5290.0	85.370	87.640
	106	5530.0	88.800	89.850
	122	5610.0	87.130	87.770
Mode 12	50	5250.0	161.800	164.400
	114	5570.0	167.300	167.800

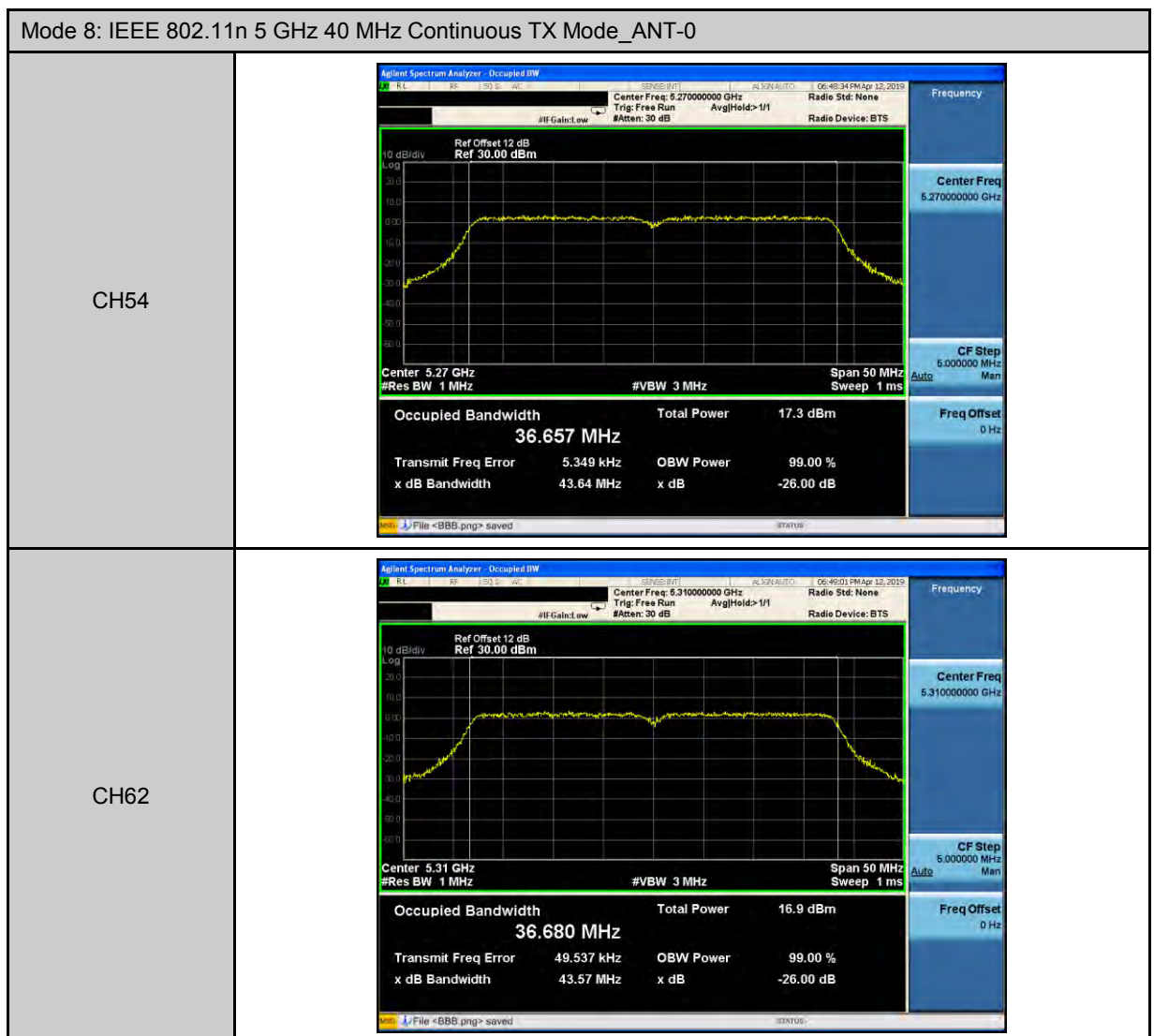
Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0	
CH36	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.180000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: > 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref 30.00 dBm</p> <p>Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 16.994 MHz Total Power 18.4 dBm</p> <p>Transmit Freq Error 25.934 kHz OBW Power 99.00 % x dB Bandwidth 24.14 MHz x dB -26.00 dB</p> <p>Center Freq 5.180000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz</p> <p>File <BBB.png> saved</p>
CH40	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.200000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: > 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref 30.00 dBm</p> <p>Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 16.944 MHz Total Power 18.1 dBm</p> <p>Transmit Freq Error 28.546 kHz OBW Power 99.00 % x dB Bandwidth 23.63 MHz x dB -26.00 dB</p> <p>Center Freq 5.200000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz</p> <p>File <BBB.png> saved</p>
CH48	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.240000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: > 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref 30.00 dBm</p> <p>Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 16.999 MHz Total Power 18.5 dBm</p> <p>Transmit Freq Error 34.522 kHz OBW Power 99.00 % x dB Bandwidth 23.23 MHz x dB -26.00 dB</p> <p>Center Freq 5.240000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz</p> <p>File <BBB.png> saved</p>

Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0	
CH52	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.260000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.26 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 17.047 MHz Total Power: 19.2 dBm</p> <p>Transmit Freq Error: 17.844 kHz OBW Power: 99.00 % x dB Bandwidth: 24.42 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.260000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH56	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.280000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.28 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 16.958 MHz Total Power: 18.0 dBm</p> <p>Transmit Freq Error: 50.158 kHz OBW Power: 99.00 % x dB Bandwidth: 23.75 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.280000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH64	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.320000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.32 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 16.929 MHz Total Power: 18.0 dBm</p> <p>Transmit Freq Error: 48.551 kHz OBW Power: 99.00 % x dB Bandwidth: 24.31 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.320000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>

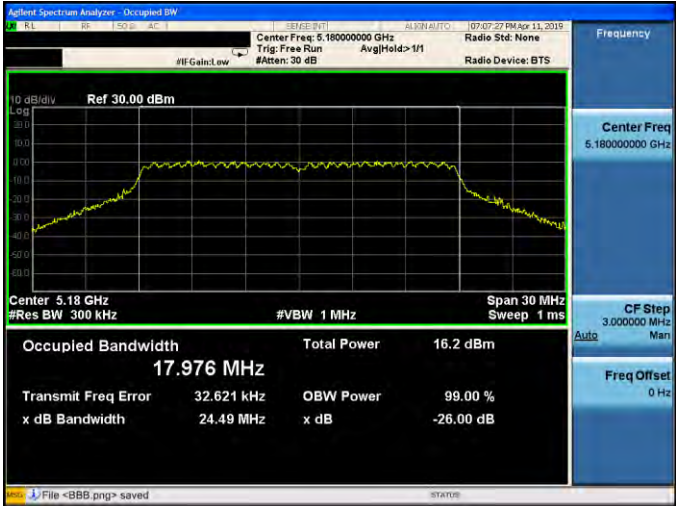
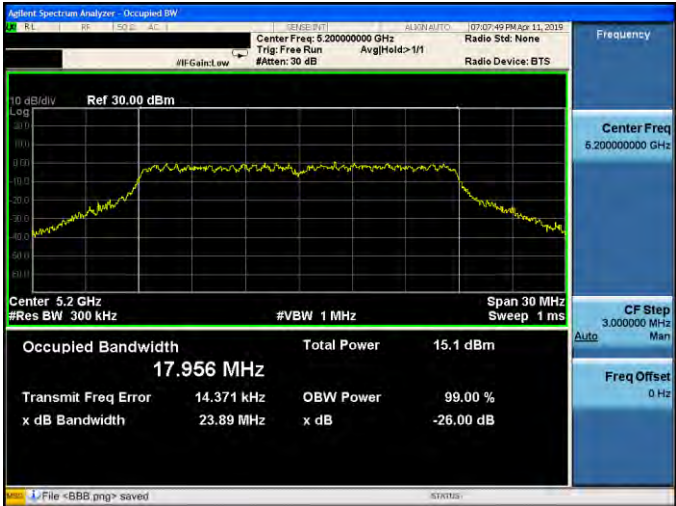
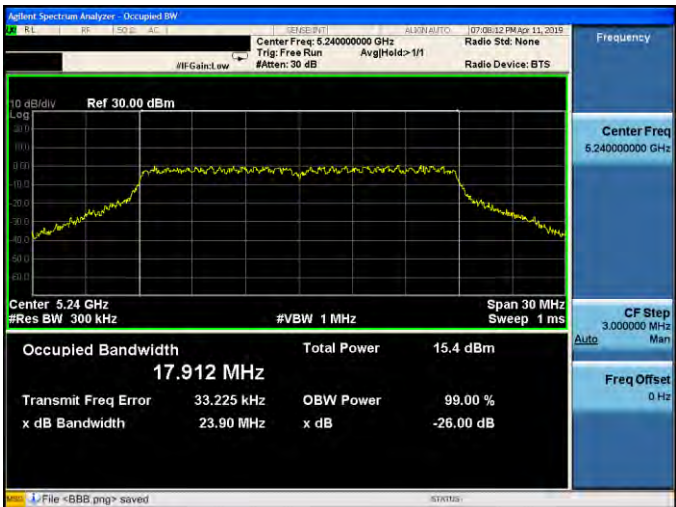
Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0	
CH100	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.500000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.5 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 16.965 MHz Total Power: 18.0 dBm</p> <p>Transmit Freq Error: -17.174 kHz OBW Power: 99.00 % x dB Bandwidth: 24.04 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.500000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH112	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.560000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.56 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 16.917 MHz Total Power: 17.5 dBm</p> <p>Transmit Freq Error: -31.970 kHz OBW Power: 99.00 % x dB Bandwidth: 23.71 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.560000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH140	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.700000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.7 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 16.943 MHz Total Power: 17.5 dBm</p> <p>Transmit Freq Error: -1.392 kHz OBW Power: 99.00 % x dB Bandwidth: 23.72 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.700000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>

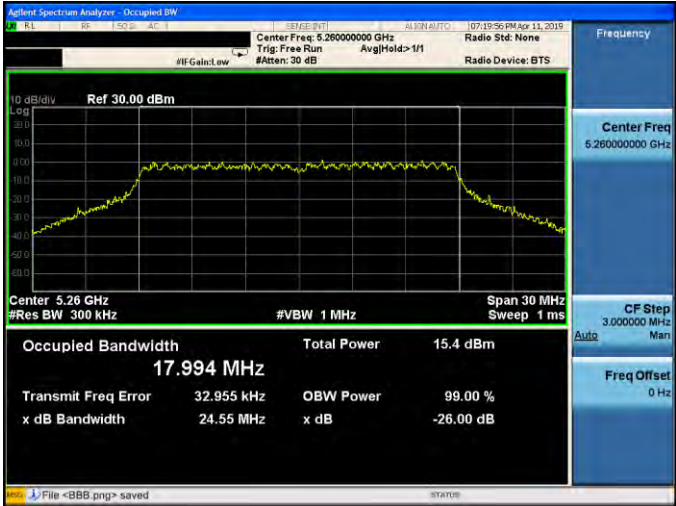
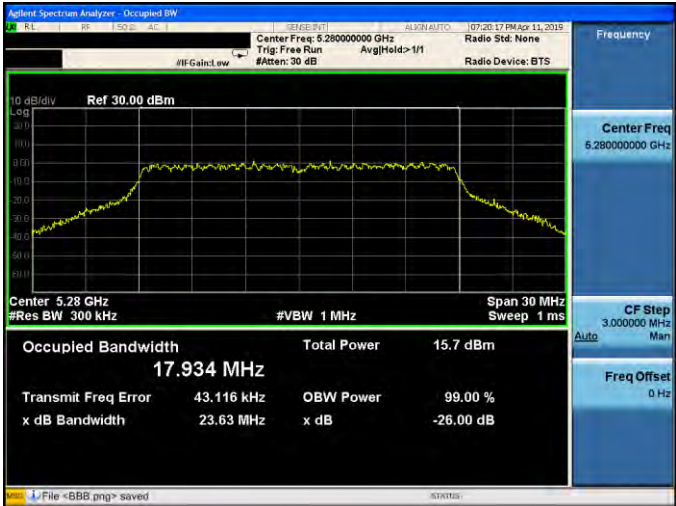
Mode 7: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-0	
CH52	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.260000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.26 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 18.032 MHz Total Power 17.2 dBm Transmit Freq Error 40.256 kHz OBW Power 99.00 % x dB Bandwidth 24.67 MHz x dB -26.00 dB</p> <p>File name not found: D:\User_My_Documents\Instrument\My...</p>
CH56	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.280000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 18.002 MHz Total Power 16.3 dBm Transmit Freq Error 50.299 kHz OBW Power 99.00 % x dB Bandwidth 24.53 MHz x dB -26.00 dB</p> <p>File <BBB.png> saved</p>
CH64	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.320000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.32 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 17.959 MHz Total Power 15.7 dBm Transmit Freq Error 66.882 kHz OBW Power 99.00 % x dB Bandwidth 24.00 MHz x dB -26.00 dB</p> <p>File <BBB.png> saved</p>

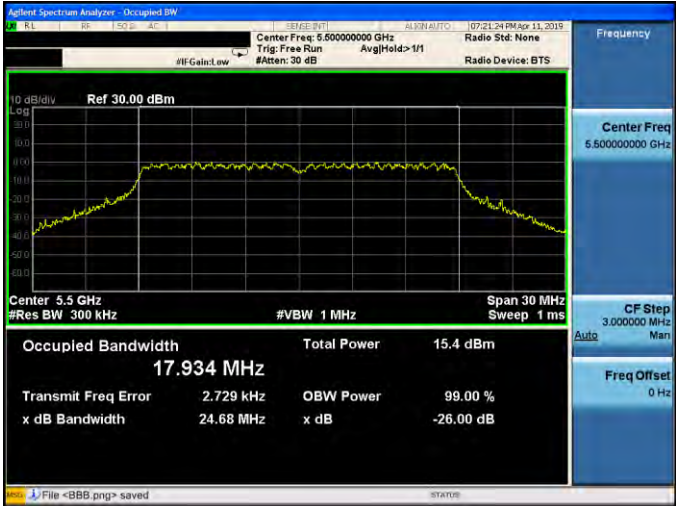
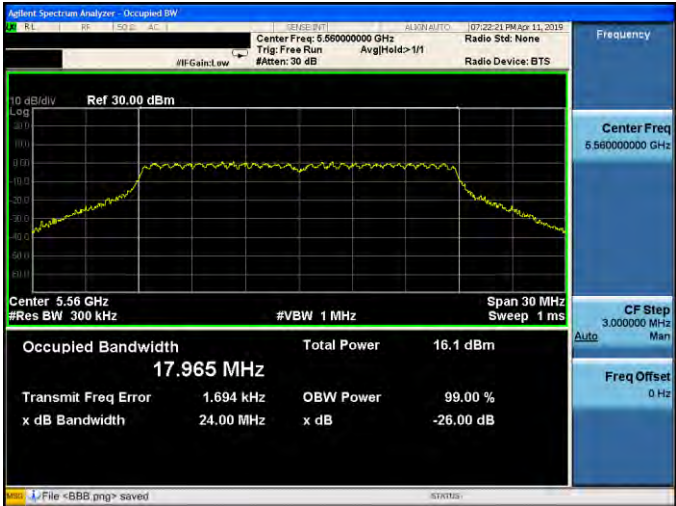
Mode 7: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-0	
CH100	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.500000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.5 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 17.940 MHz Total Power 16.1 dBm</p> <p>Transmit Freq Error 5.896 kHz OBW Power 99.00 % x dB Bandwidth 23.56 MHz x dB -26.00 dB</p> <p>Center Freq 5.50000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz</p> <p>File <BBB.png> saved</p>
CH112	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.560000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.56 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 17.918 MHz Total Power 16.9 dBm</p> <p>Transmit Freq Error 13.168 kHz OBW Power 99.00 % x dB Bandwidth 23.98 MHz x dB -26.00 dB</p> <p>Center Freq 5.560000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz</p> <p>File name not found; D:\User_My_Documents\instrument\My...</p>
CH140	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.700000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.7 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 17.924 MHz Total Power 17.5 dBm</p> <p>Transmit Freq Error 16.868 kHz OBW Power 99.00 % x dB Bandwidth 24.40 MHz x dB -26.00 dB</p> <p>Center Freq 5.700000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz</p> <p>File <BBB.png> saved</p>

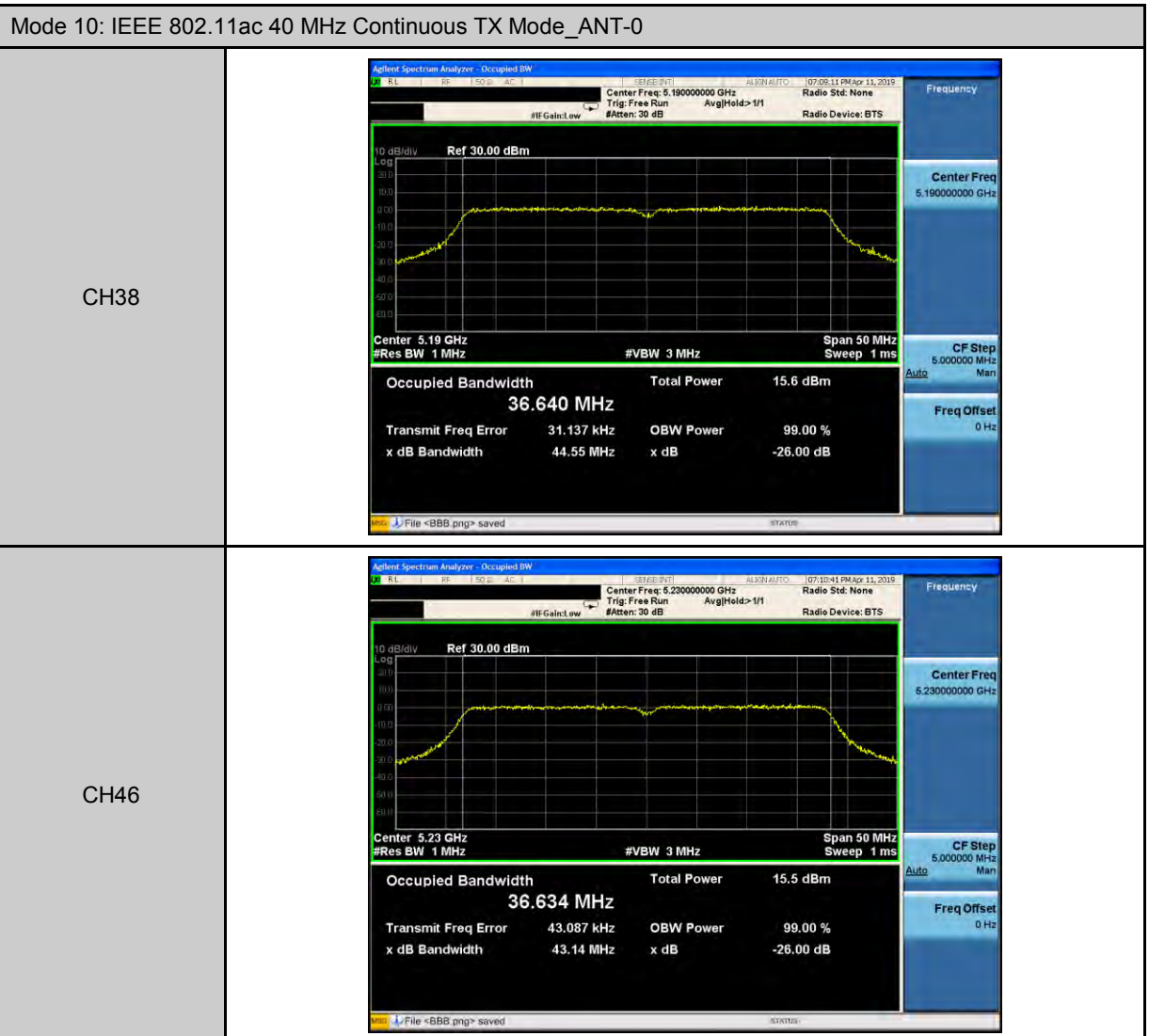


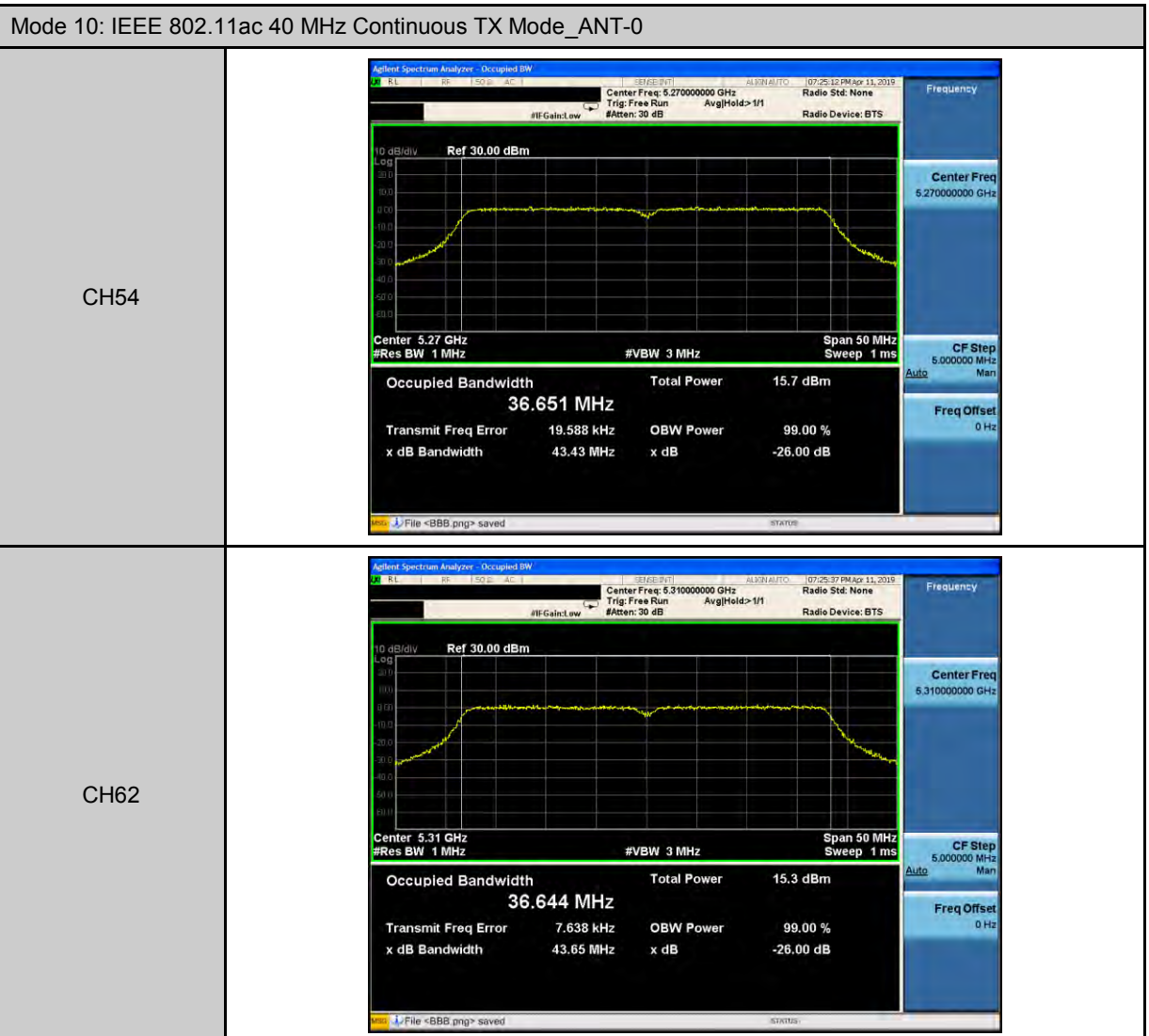
Mode 8: IEEE 802.11n 5 GHz 40 MHz Continuous TX Mode_ANT-0	
CH102	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.510000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: >1/1 Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.51 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 36.749 MHz Total Power 18.0 dBm Transmit Freq Error 1.323 kHz OBW Power 99.00 % x dB Bandwidth 44.16 MHz x dB -26.00 dB</p> <p>File name not found: D:\User_My_Documents\instrument\My...</p>
CH110	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.550000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: >1/1 Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.55 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 36.631 MHz Total Power 18.2 dBm Transmit Freq Error 16.993 kHz OBW Power 99.00 % x dB Bandwidth 42.78 MHz x dB -26.00 dB</p> <p>File name not found: D:\User_My_Documents\instrument\My...</p>
CH134	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.670000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: >1/1 Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.67 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 36.717 MHz Total Power 18.8 dBm Transmit Freq Error -25.686 kHz OBW Power 99.00 % x dB Bandwidth 44.28 MHz x dB -26.00 dB</p> <p>File <BBB.png> saved</p>

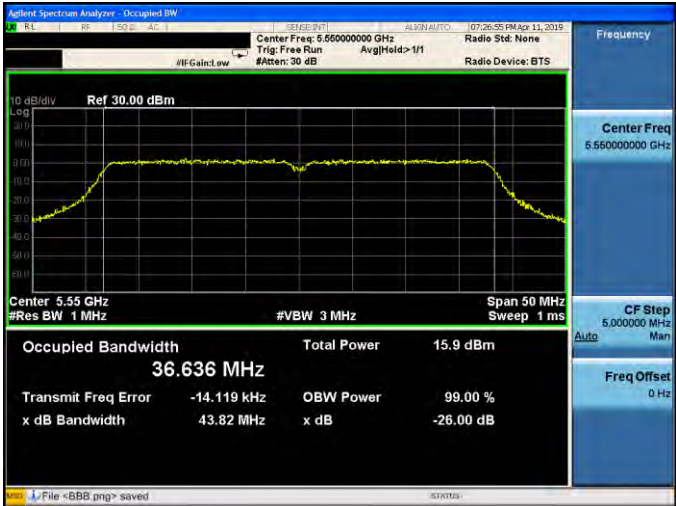
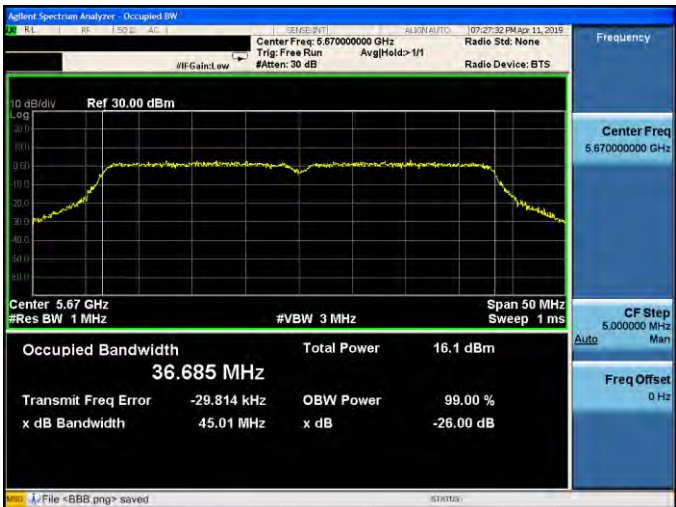
Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
CH36	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.180000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref 30.00 dBm</p> <p>Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 17.976 MHz Total Power 16.2 dBm</p> <p>Transmit Freq Error 32.621 kHz OBW Power 99.00 % x dB Bandwidth 24.49 MHz x dB -26.00 dB</p> <p>Center Freq 5.180000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz</p> <p>File <BBB.png> saved</p>
CH40	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.200000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref 30.00 dBm</p> <p>Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 17.956 MHz Total Power 15.1 dBm</p> <p>Transmit Freq Error 14.371 kHz OBW Power 99.00 % x dB Bandwidth 23.89 MHz x dB -26.00 dB</p> <p>Center Freq 5.200000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz</p> <p>File <BBB.png> saved</p>
CH48	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.240000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref 30.00 dBm</p> <p>Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 17.912 MHz Total Power 15.4 dBm</p> <p>Transmit Freq Error 33.225 kHz OBW Power 99.00 % x dB Bandwidth 23.90 MHz x dB -26.00 dB</p> <p>Center Freq 5.240000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz</p> <p>File <BBB.png> saved</p>

Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
CH52	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.260000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.26 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 17.994 MHz Total Power: 15.4 dBm</p> <p>Transmit Freq Error: 32.955 kHz OBW Power: 99.00 % x dB Bandwidth: 24.55 MHz x dB: -26.00 dB</p> <p>File <BBB.png> saved</p>
CH56	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.280000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.28 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 17.934 MHz Total Power: 15.7 dBm</p> <p>Transmit Freq Error: 43.116 kHz OBW Power: 99.00 % x dB Bandwidth: 23.63 MHz x dB: -26.00 dB</p> <p>File <BBB.png> saved</p>
CH64	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.320000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.32 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 17.931 MHz Total Power: 15.6 dBm</p> <p>Transmit Freq Error: 30.767 kHz OBW Power: 99.00 % x dB Bandwidth: 24.04 MHz x dB: -26.00 dB</p> <p>File <BBB.png> saved</p>

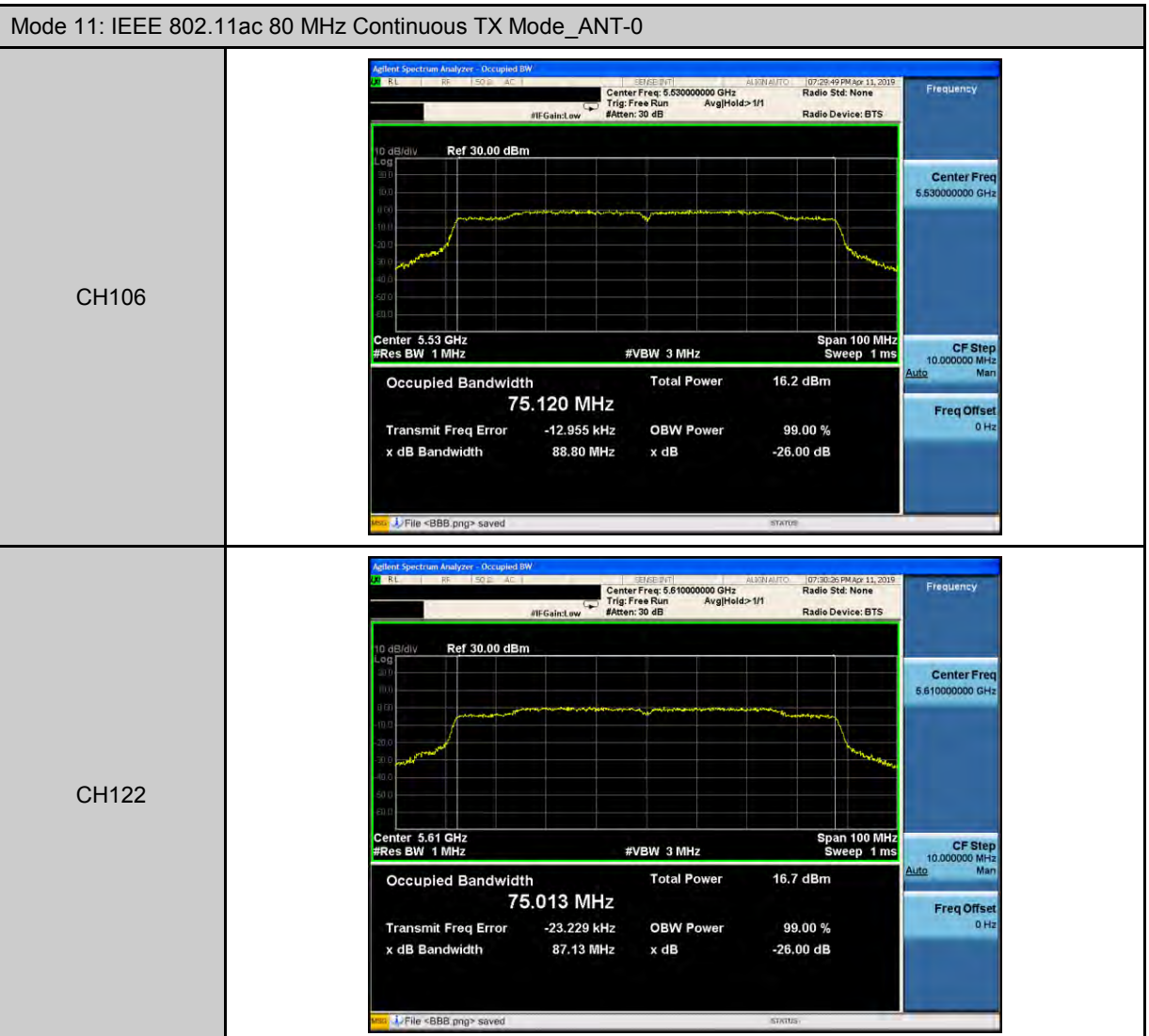
Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
CH100	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.50000000 GHz Trig: Free Run #Att: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.5 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 17.934 MHz Total Power: 15.4 dBm</p> <p>Transmit Freq Error: 2.729 kHz OBW Power: 99.00 % x dB Bandwidth: 24.68 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.50000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH112	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.56000000 GHz Trig: Free Run #Att: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.56 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 17.965 MHz Total Power: 16.1 dBm</p> <p>Transmit Freq Error: 1.694 kHz OBW Power: 99.00 % x dB Bandwidth: 24.00 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.56000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH140	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.70000000 GHz Trig: Free Run #Att: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.7 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 17.980 MHz Total Power: 15.9 dBm</p> <p>Transmit Freq Error: 3.780 kHz OBW Power: 99.00 % x dB Bandwidth: 24.10 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.70000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>





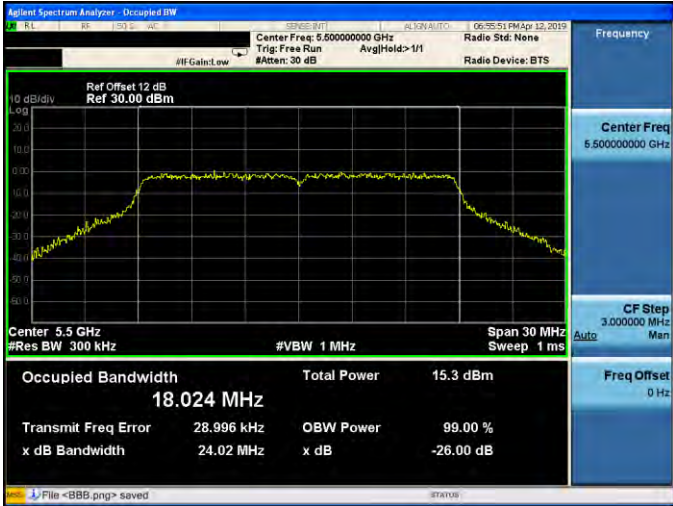
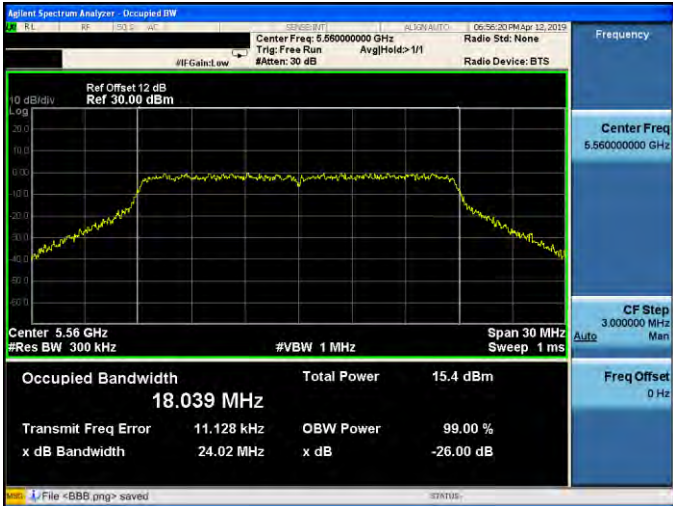
Mode 10: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0	
CH102	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.51000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref 30.00 dBm</p> <p>Center 5.51 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 36.742 MHz Total Power 16.8 dBm</p> <p>Transmit Freq Error -6.634 kHz OBW Power 99.00 % x dB Bandwidth 44.87 MHz x dB -26.00 dB</p> <p>Center Freq 5.51000000 GHz CF Step 5.000000 MHz Freq Offset 0 Hz</p> <p>File <BBB.png> saved</p>
CH110	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.55000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref 30.00 dBm</p> <p>Center 5.55 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 36.636 MHz Total Power 15.9 dBm</p> <p>Transmit Freq Error -14.119 kHz OBW Power 99.00 % x dB Bandwidth 43.82 MHz x dB -26.00 dB</p> <p>Center Freq 5.55000000 GHz CF Step 5.000000 MHz Freq Offset 0 Hz</p> <p>File <BBB.png> saved</p>
CH134	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.67000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref 30.00 dBm</p> <p>Center 5.67 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 36.685 MHz Total Power 16.1 dBm</p> <p>Transmit Freq Error -29.814 kHz OBW Power 99.00 % x dB Bandwidth 45.01 MHz x dB -26.00 dB</p> <p>Center Freq 5.67000000 GHz CF Step 5.000000 MHz Freq Offset 0 Hz</p> <p>File <BBB.png> saved</p>

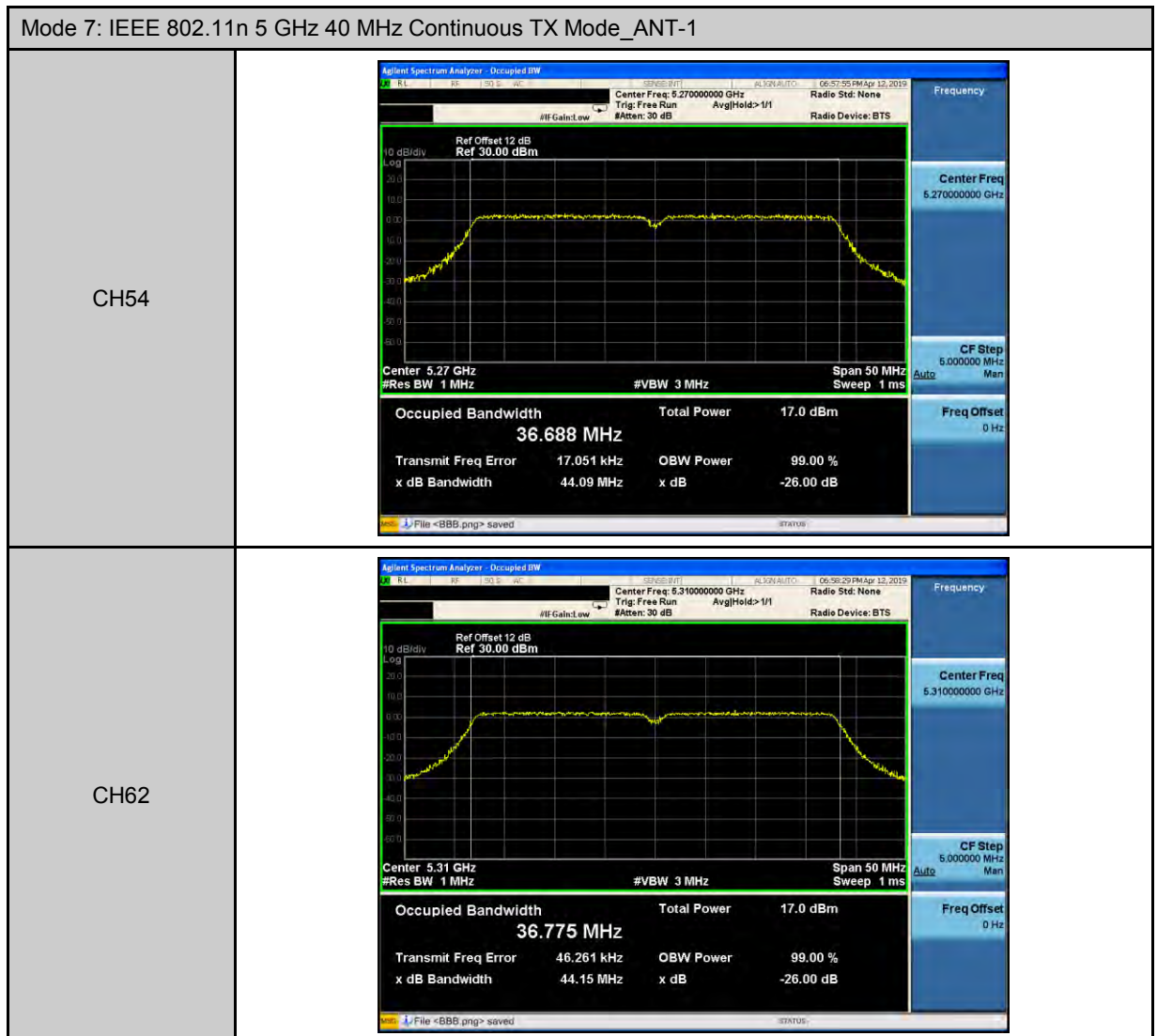




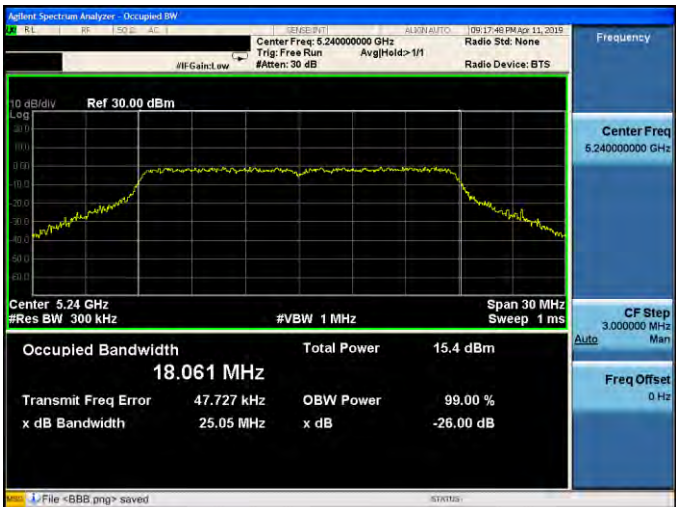


Mode 6: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-1	
CH52	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.260000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.26 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 18.068 MHz Total Power 15.0 dBm Transmit Freq Error 42.388 kHz OBW Power 99.00 % x dB Bandwidth 23.91 MHz x dB -26.00 dB</p> <p>File name not found: D:\User_My_Documents\instrument\My...</p>
CH56	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.280000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 18.095 MHz Total Power 15.3 dBm Transmit Freq Error 16.852 kHz OBW Power 99.00 % x dB Bandwidth 24.65 MHz x dB -26.00 dB</p> <p>File name not found: D:\User_My_Documents\instrument\My...</p>
CH64	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.320000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.32 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 18.031 MHz Total Power 15.3 dBm Transmit Freq Error 34.782 kHz OBW Power 99.00 % x dB Bandwidth 24.50 MHz x dB -26.00 dB</p> <p>File <BBB.png> saved</p>

Mode 6: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-1	
CH100	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.500000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.5 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 18.024 MHz Total Power 15.3 dBm Transmit Freq Error 28.996 kHz OBW Power 99.00 % x dB Bandwidth 24.02 MHz x dB -26.00 dB</p> <p>File <BBB.png> saved</p>
CH112	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.560000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.56 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 18.039 MHz Total Power 15.4 dBm Transmit Freq Error 11.128 kHz OBW Power 99.00 % x dB Bandwidth 24.02 MHz x dB -26.00 dB</p> <p>File <BBB.png> saved</p>
CH140	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.700000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.7 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 18.032 MHz Total Power 16.3 dBm Transmit Freq Error 4.129 kHz OBW Power 99.00 % x dB Bandwidth 25.04 MHz x dB -26.00 dB</p> <p>File <BBB.png> saved</p>

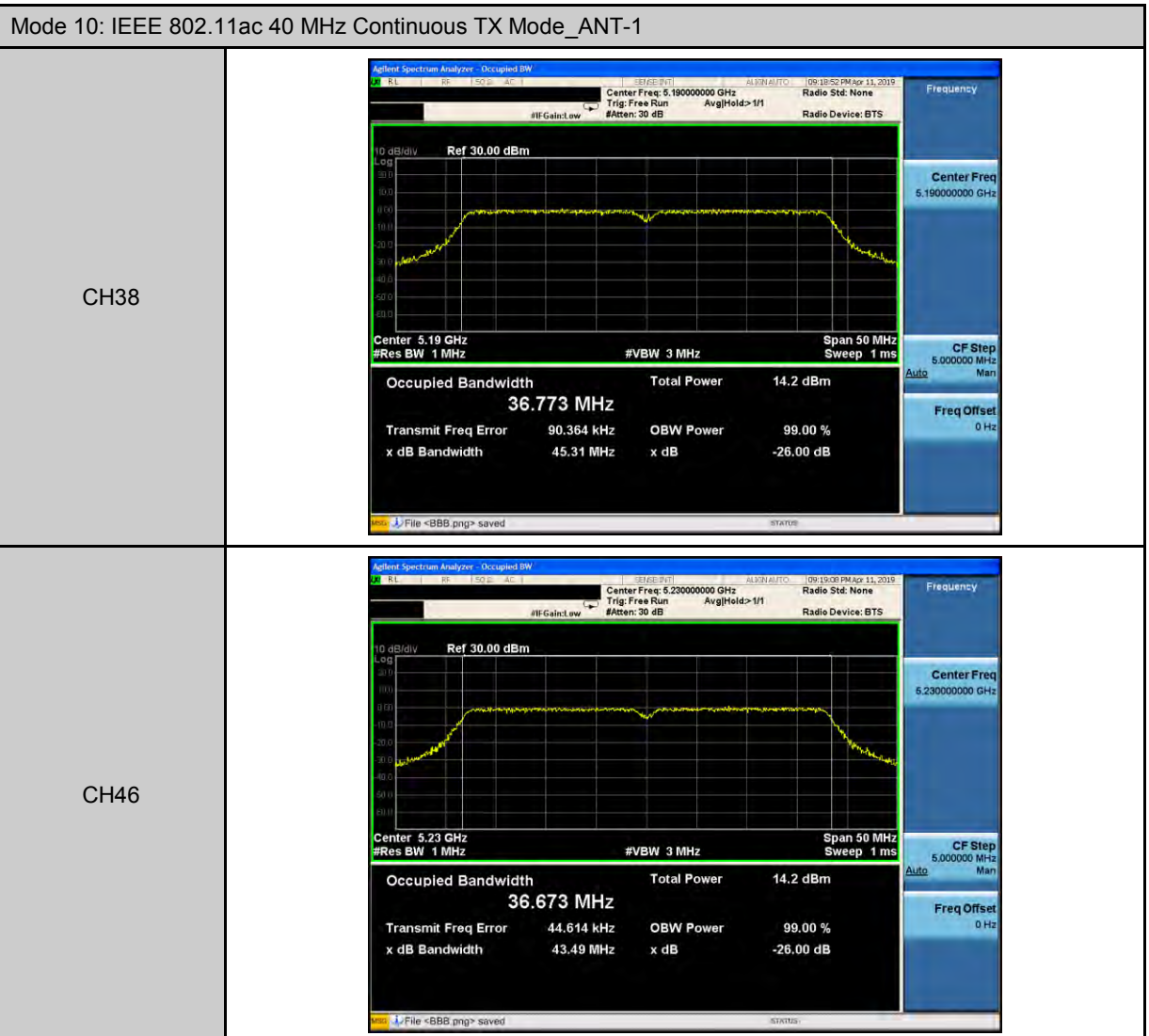


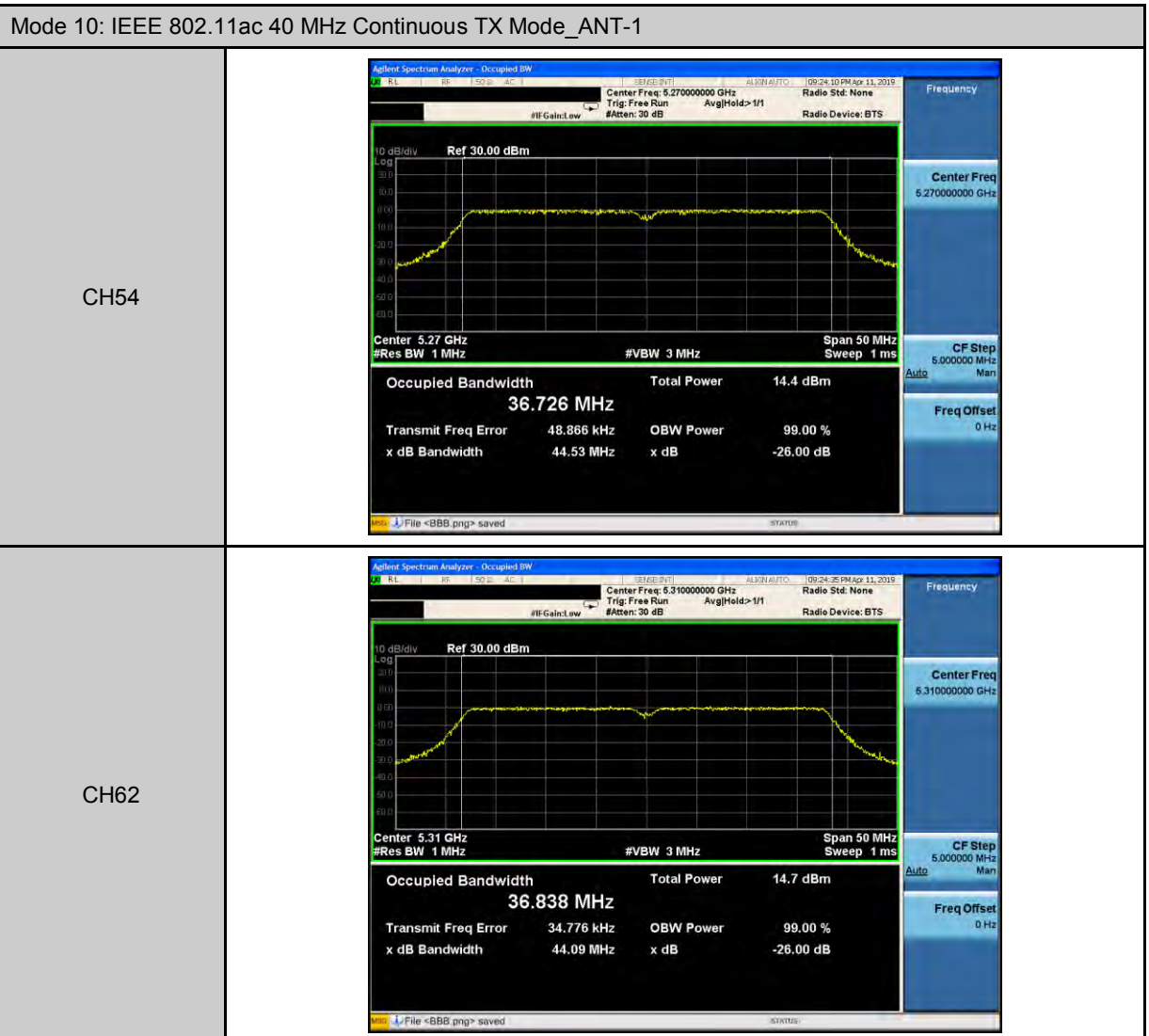
Mode 7: IEEE 802.11n 5 GHz 40 MHz Continuous TX Mode_ANT-1	
CH102	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.510000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 1/1 Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.51 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 36.735 MHz Total Power 16.6 dBm Transmit Freq Error 28.594 kHz OBW Power 99.00 % x dB Bandwidth 44.88 MHz x dB -26.00 dB</p> <p>File name not found: D:\User_My_Documents\Instrument\My...</p>
CH110	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.550000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 1/1 Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.55 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 36.776 MHz Total Power 16.8 dBm Transmit Freq Error 46.035 kHz OBW Power 99.00 % x dB Bandwidth 43.98 MHz x dB -26.00 dB</p> <p>File <BB6.png> saved</p>
CH134	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.670000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 1/1 Radio Device: BTS</p> <p>Ref Offset 12 dB Ref 30.00 dBm</p> <p>Center 5.67 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 36.818 MHz Total Power 17.8 dBm Transmit Freq Error -14.499 kHz OBW Power 99.00 % x dB Bandwidth 45.68 MHz x dB -26.00 dB</p> <p>File <BB6.png> saved</p>

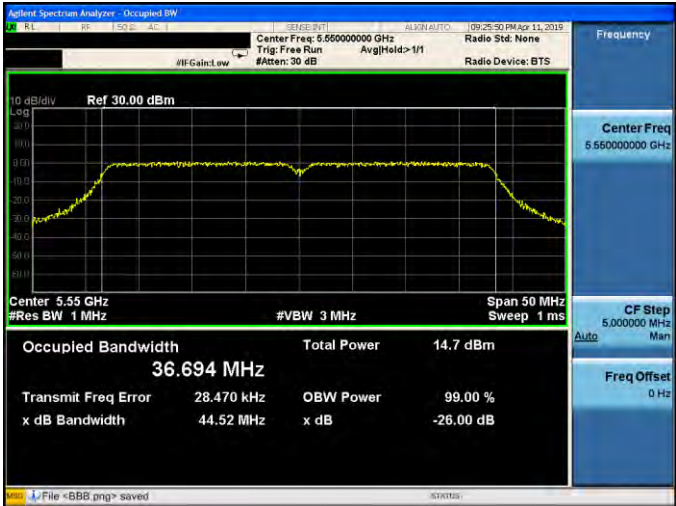
Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1	
CH36	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.180000000 GHz, Radio Std: None, Trig: Free Run, Avg/Hold: 1/1, #IF Gain: 1.0, #Atten: 30 dB, Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.18 GHz, #Res BW: 300 kHz, #VBW: 1 MHz, Span: 30 MHz, Sweep: 1 ms</p> <p>Occupied Bandwidth: 18.117 MHz, Total Power: 15.8 dBm</p> <p>Transmit Freq Error: 46.464 kHz, OBW Power: 99.00 %</p> <p>x dB Bandwidth: 24.92 MHz, x dB: -26.00 dB</p> <p>Center Freq: 5.180000000 GHz, CF Step: 3.000000 MHz, Freq Offset: 0 Hz</p>
CH40	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.200000000 GHz, Radio Std: None, Trig: Free Run, Avg/Hold: 1/1, #IF Gain: 1.0, #Atten: 30 dB, Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.2 GHz, #Res BW: 300 kHz, #VBW: 1 MHz, Span: 30 MHz, Sweep: 1 ms</p> <p>Occupied Bandwidth: 18.076 MHz, Total Power: 14.9 dBm</p> <p>Transmit Freq Error: 32.823 kHz, OBW Power: 99.00 %</p> <p>x dB Bandwidth: 24.40 MHz, x dB: -26.00 dB</p> <p>Center Freq: 5.200000000 GHz, CF Step: 3.000000 MHz, Freq Offset: 0 Hz</p>
CH48	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.240000000 GHz, Radio Std: None, Trig: Free Run, Avg/Hold: 1/1, #IF Gain: 1.0, #Atten: 30 dB, Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.24 GHz, #Res BW: 300 kHz, #VBW: 1 MHz, Span: 30 MHz, Sweep: 1 ms</p> <p>Occupied Bandwidth: 18.061 MHz, Total Power: 15.4 dBm</p> <p>Transmit Freq Error: 47.727 kHz, OBW Power: 99.00 %</p> <p>x dB Bandwidth: 25.05 MHz, x dB: -26.00 dB</p> <p>Center Freq: 5.240000000 GHz, CF Step: 3.000000 MHz, Freq Offset: 0 Hz</p>

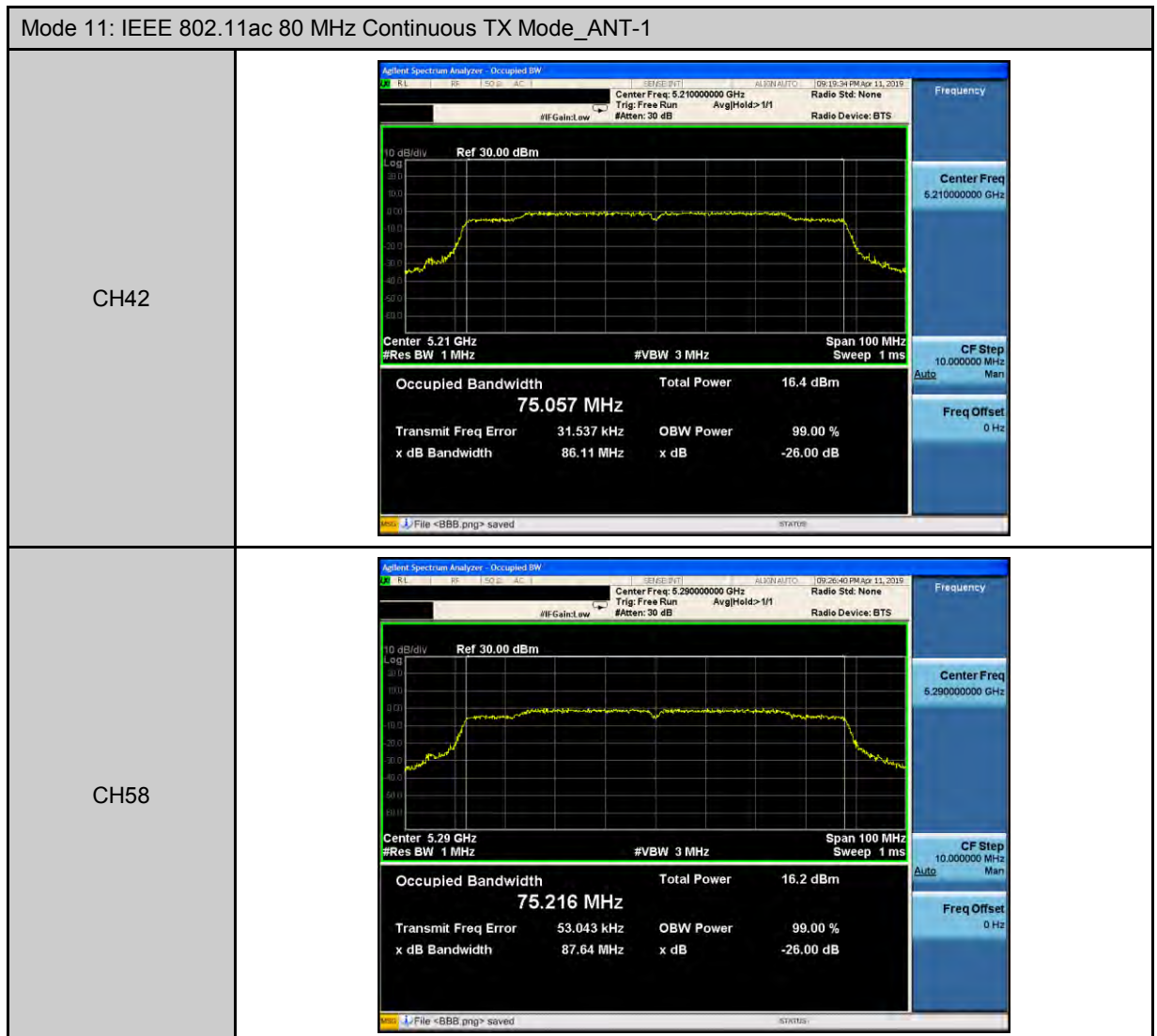
Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1	
CH52	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.260000000 GHz Trig: Free Run #Attenu: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.26 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 18.051 MHz Total Power: 15.3 dBm</p> <p>Transmit Freq Error: 22.101 kHz OBW Power: 99.00 % x dB Bandwidth: 24.03 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.260000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH56	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.280000000 GHz Trig: Free Run #Attenu: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.28 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 18.033 MHz Total Power: 15.3 dBm</p> <p>Transmit Freq Error: 36.901 kHz OBW Power: 99.00 % x dB Bandwidth: 24.39 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.280000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH64	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.320000000 GHz Trig: Free Run #Attenu: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.32 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 17.993 MHz Total Power: 15.3 dBm</p> <p>Transmit Freq Error: 48.842 kHz OBW Power: 99.00 % x dB Bandwidth: 24.83 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.320000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>

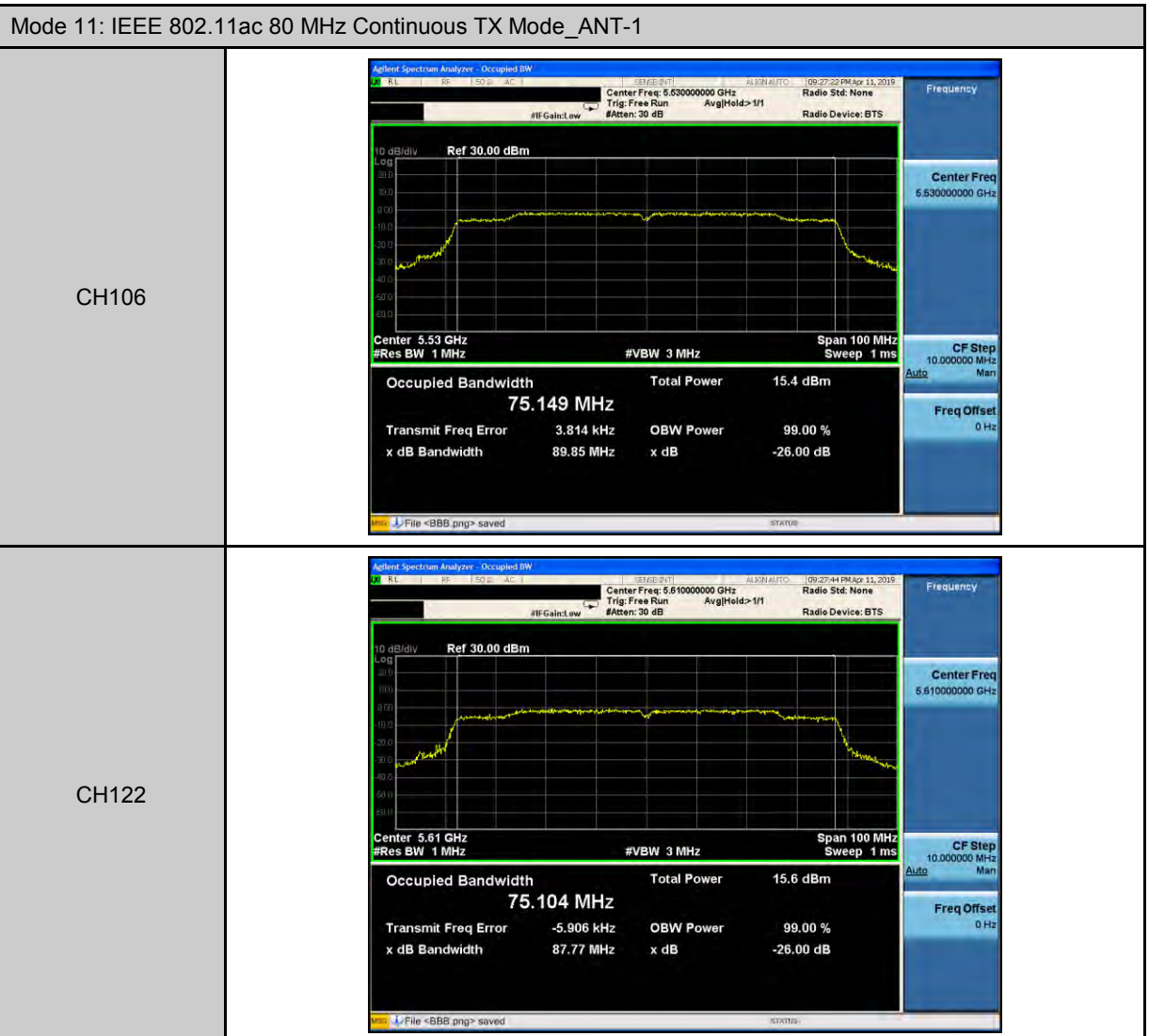
Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1	
CH100	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.50000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.5 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 18.018 MHz Total Power: 14.6 dBm Transmit Freq Error: 21.917 kHz OBW Power: 99.00 % x dB Bandwidth: 23.99 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.50000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH112	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.56000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.56 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 18.030 MHz Total Power: 14.4 dBm Transmit Freq Error: 29.972 kHz OBW Power: 99.00 % x dB Bandwidth: 24.86 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.56000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH140	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.70000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.7 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 18.002 MHz Total Power: 14.1 dBm Transmit Freq Error: -10.104 kHz OBW Power: 99.00 % x dB Bandwidth: 24.65 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.70000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>





Mode 10: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1	
CH102	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.51000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.51 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 50 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 36.772 MHz Total Power: 15.0 dBm Transmit Freq Error: -7.499 kHz OBW Power: 99.00 % x dB Bandwidth: 45.27 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.51000000 GHz CF Step: 5.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH110	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.55000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.55 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 50 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 36.694 MHz Total Power: 14.7 dBm Transmit Freq Error: 28.470 kHz OBW Power: 99.00 % x dB Bandwidth: 44.52 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.55000000 GHz CF Step: 5.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH134	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.67000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.67 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 50 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 36.710 MHz Total Power: 15.0 dBm Transmit Freq Error: -9.007 kHz OBW Power: 99.00 % x dB Bandwidth: 44.38 MHz x dB: -26.00 dB</p> <p>Center Freq: 5.67000000 GHz CF Step: 5.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>





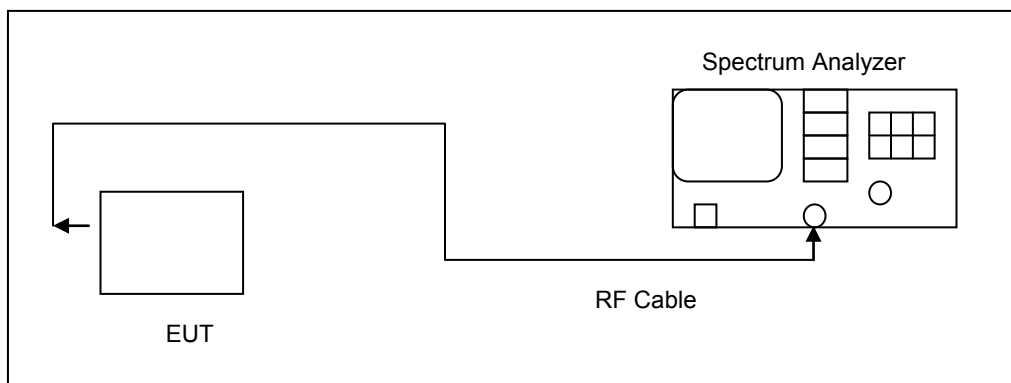


4.3.5 6 dB頻寬之要求

合格標準:

在 5.725 GHz~5.850 GHz 頻帶操作之設備，其 6 dB 頻寬至少應有 500 kHz。

測試架構圖：

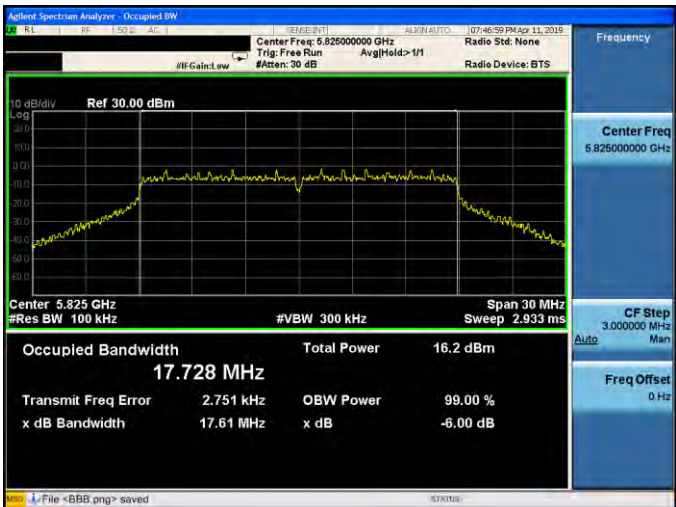


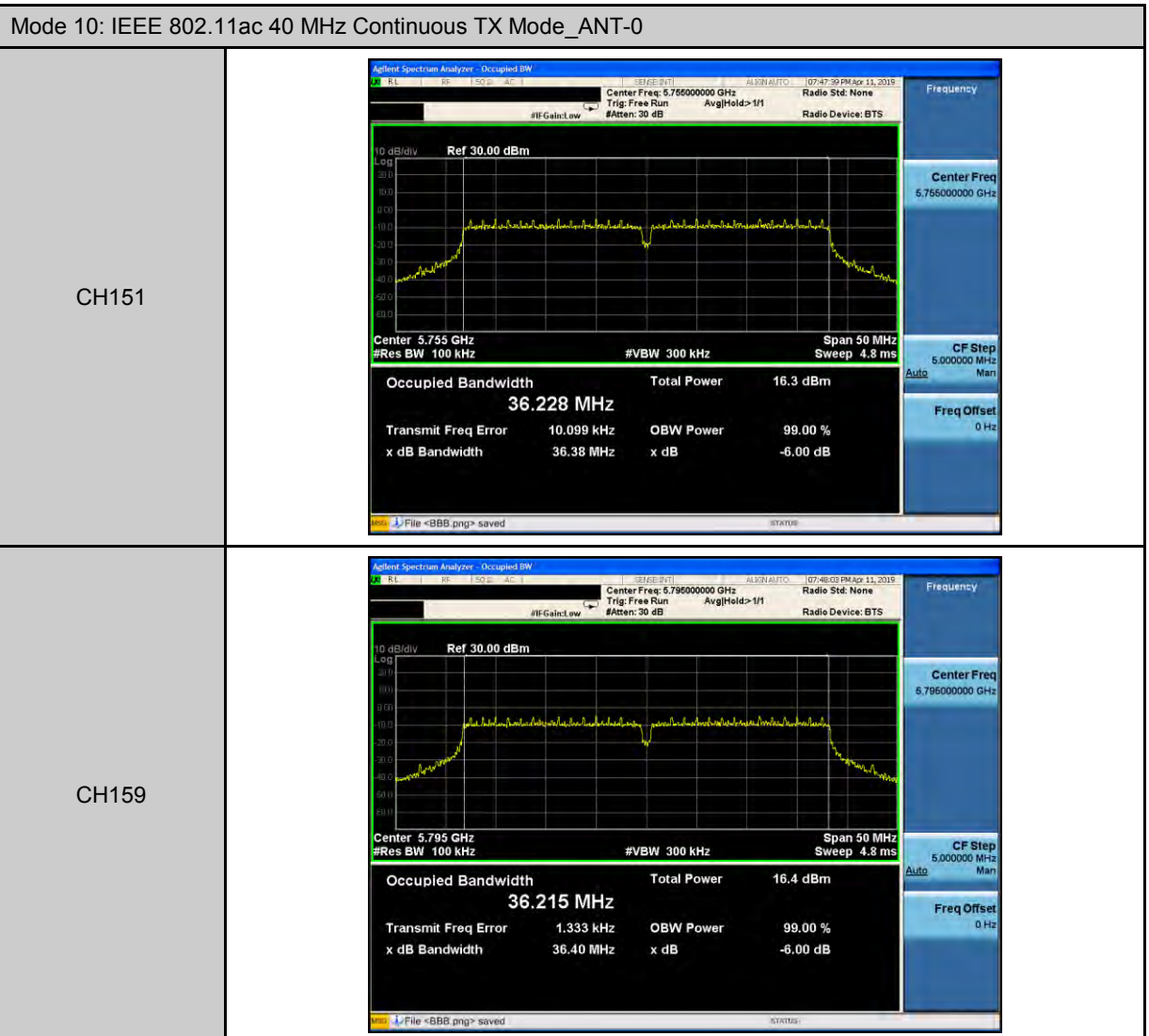
測試結果:

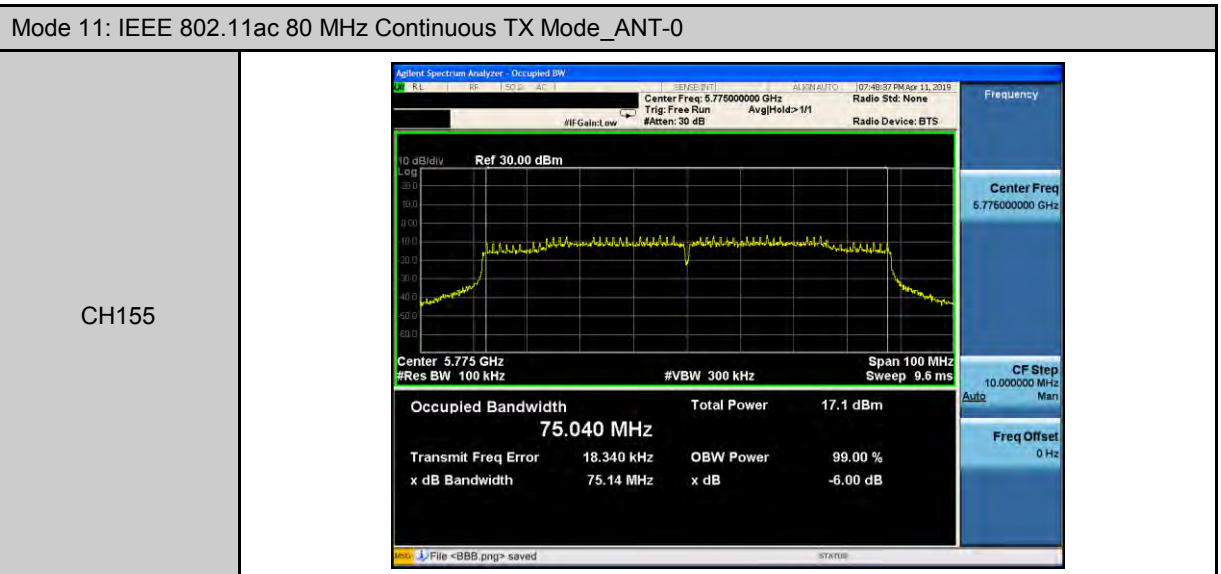
操作模式	: Mode 6 / Mode 9 / Mode 10 / Mode 11
測試結果	: 合格

操作模式	頻道 (CH)	頻率 (MHz)	6 dB 頻寬量測值 (kHz)		限制值 (kHz)
			ANT-0	ANT-1	
Mode 6	149	5745.0	16330	---	≥ 500
	157	5785.0	16370	---	≥ 500
	165	5825.0	16360	---	≥ 500
Mode 9	149	5745.0	16340	17590	≥ 500
	157	5785.0	17630	17600	≥ 500
	165	5825.0	17610	17600	≥ 500
Mode 10	151	5755.0	36380	36370	≥ 500
	159	5795.0	36400	36350	≥ 500
Mode 11	155	5775.0	75140	75210	≥ 500

Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0	
CH149	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.745000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 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: 16.579 MHz Total Power: 18.2 dBm</p> <p>Transmit Freq Error: 2.211 kHz OBW Power: 99.00 % x dB Bandwidth: 16.33 MHz x dB: -6.00 dB</p> <p>Frequency: 5.745000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH157	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.785000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 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: 16.577 MHz Total Power: 18.6 dBm</p> <p>Transmit Freq Error: 7.700 kHz OBW Power: 99.00 % x dB Bandwidth: 16.37 MHz x dB: -6.00 dB</p> <p>Frequency: 5.785000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH165	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.825000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 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: 16.595 MHz Total Power: 18.9 dBm</p> <p>Transmit Freq Error: 8.240 kHz OBW Power: 99.00 % x dB Bandwidth: 16.36 MHz x dB: -6.00 dB</p> <p>Frequency: 5.825000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>

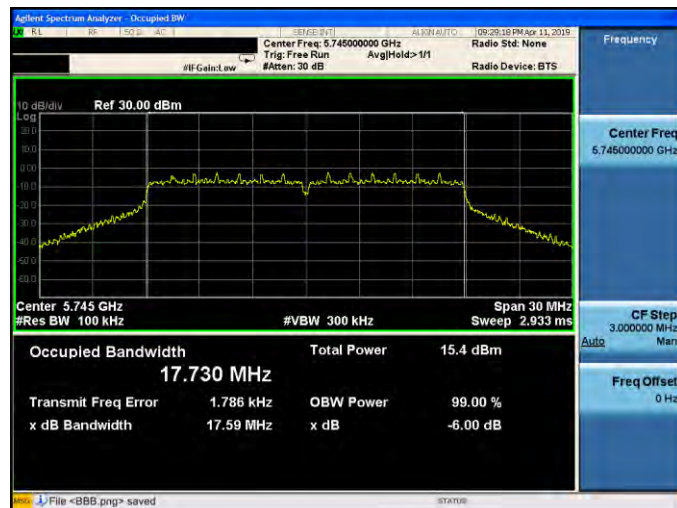
Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
CH149	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.745000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 dBm</p> <p>Center: 5.745 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 2.933 ms</p> <p>Occupied Bandwidth: 17.551 MHz Total Power: 18.7 dBm</p> <p>Transmit Freq Error: -4.283 kHz OBW Power: 99.00 % x dB Bandwidth: 16.34 MHz x dB: -6.00 dB</p> <p>Center Freq: 5.745000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH157	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.785000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 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: 17.738 MHz Total Power: 15.8 dBm</p> <p>Transmit Freq Error: 21.718 kHz OBW Power: 99.00 % x dB Bandwidth: 17.63 MHz x dB: -6.00 dB</p> <p>Center Freq: 5.785000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>
CH165	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.825000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref: 30.00 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: 17.728 MHz Total Power: 16.2 dBm</p> <p>Transmit Freq Error: 2.751 kHz OBW Power: 99.00 % x dB Bandwidth: 17.61 MHz x dB: -6.00 dB</p> <p>Center Freq: 5.825000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz</p> <p>File <BBB.png> saved</p>



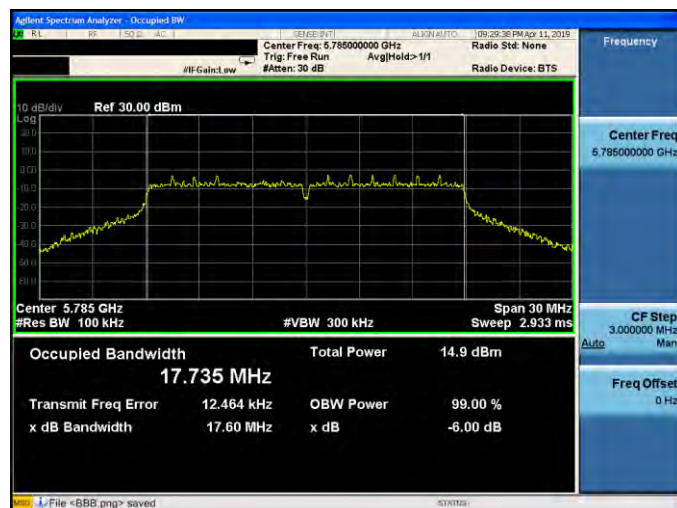


Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

CH149

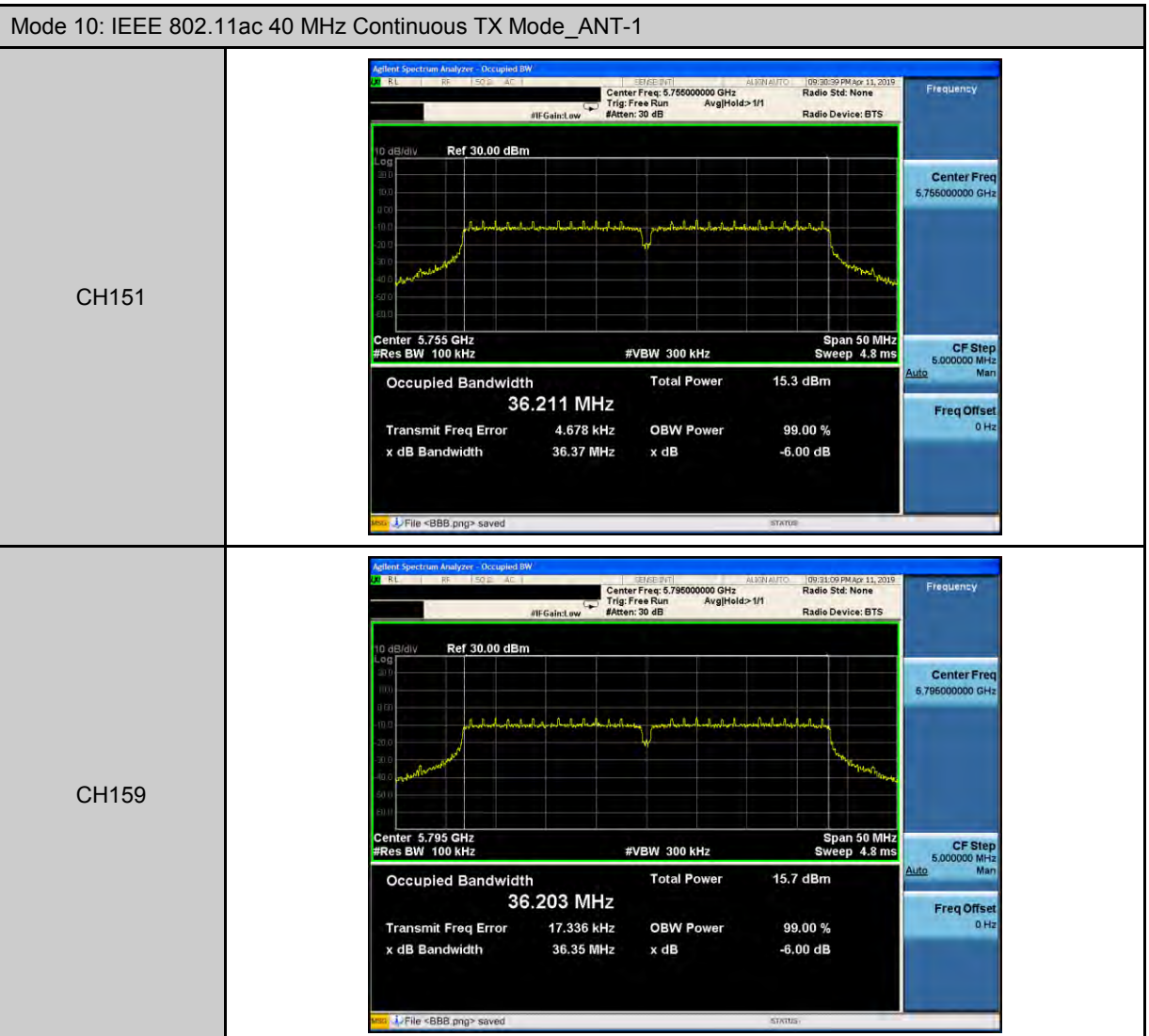


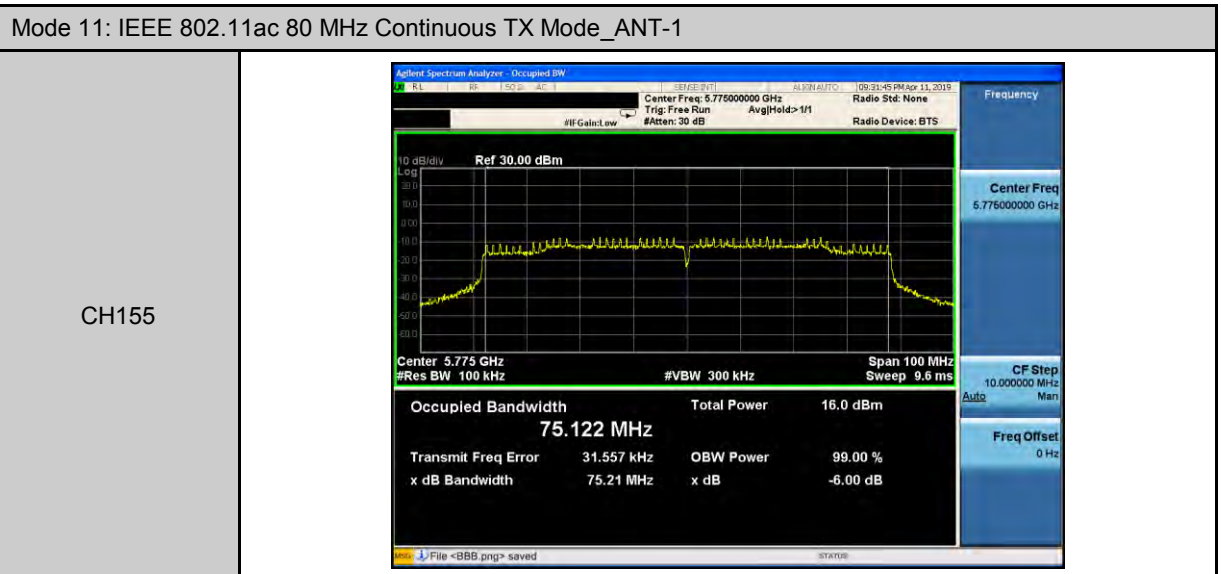
CH157



CH165





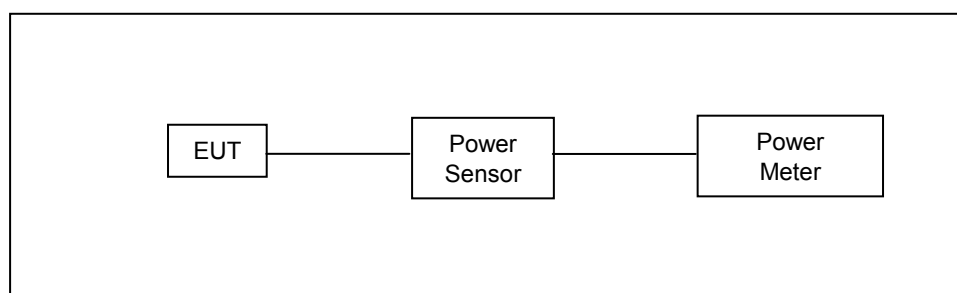


4.3.6 發射功率控制(TPC)之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)4.7.7.1 節之要求, 發射功率控制(TPC)操作於 5.25 GHz~5.35 GHz 與 5.470 GHz~5.725 GHz 頻帶的設備, 應具備發射功率控制功能。設備必須至少具有 6 dB 低於平均 EIRP 值 30 dBm 的能力。EIRP 值低於 500 mW 之系統不須具備 TPC 功能。

測試架構圖：



測試結果:

操作模式	: Mode 6 / Mode 7 / Mode 8 / Mode 9 / Mode 10 / Mode 11 / Mode 12
測試結果	: Mode 6: EIRP = 24.946 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 7: EIRP = 49.276 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 8: EIRP = 37.214 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 9: EIRP = 50.009 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 10: EIRP = 39.907 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 11: EIRP = 40.555 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 12: EIRP = 43.857 mW < 500 mW , 故不需評估發射功率控制(TPC)。

4.3.7 動態頻率選擇(DFS)之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)4.7.7.2 節之要求, 操作於 5.25 GHz~5.35 GHz 與 5.470 GHz~5.725 GHz 頻帶之設備應具備動態頻率選擇雷達偵測功能並啟動之, 以完整偵測使用頻帶內之雷達訊號, 避免與雷達系統

同頻道操作。相關規定如下:

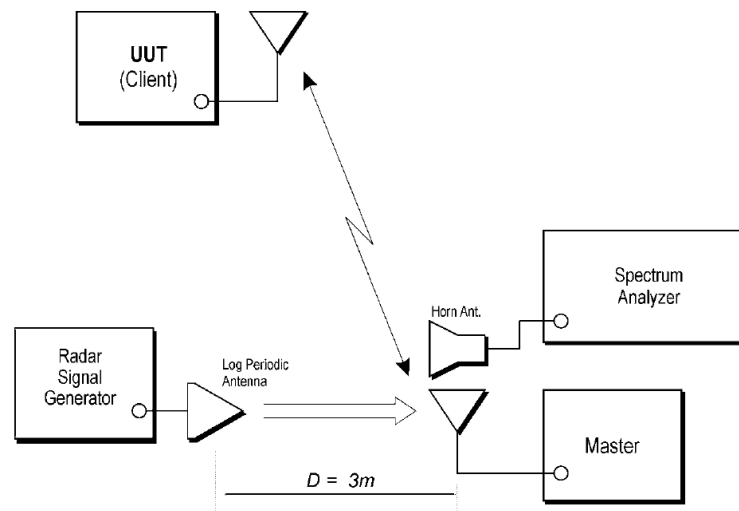
最低動態頻率選擇的偵測門檻

- 最大 EIRP 為 200 mW 至 1 W 之設備, 其最低動態頻率選擇的偵測門檻值為-64 dBm。
- 最大 EIRP 低於 200 mW, 且功率頻譜密度小於 10 dBm/MHz 之設備, 其最低動態頻率選擇的偵測門檻值為-62 dBm。
- 最大 EIRP 低於 200 mW, 且功率頻譜密度大於或等於 10 dBm/MHz 之設備, 其最低動態頻率選擇的偵測門檻值為-64dBm。
- 此偵測門檻值為 1 微秒內之平均接收功率, 並以 0 dBi 天線為參考基準。頻道初始設定得由系統隨機選取或使用使用者手動選取。

操作模式: 動態頻率選擇之規定適用於以下之操作模式:

- 頻道可用性檢查時間之規定, 適用於主控運作模式。
- 頻道移動時間之規定, 適用於主控及受控運作模式。

測試架構圖:



測試結果:

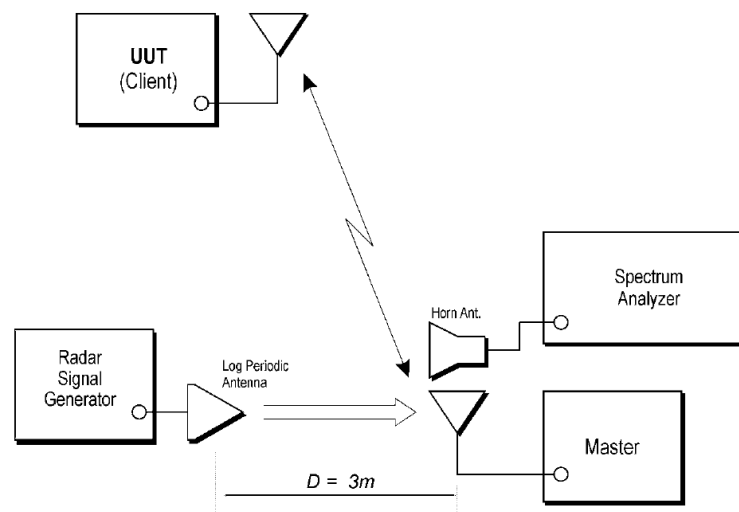
操作模式	: Mode 9 / Mode 10 / Mode 11 / Mode 12
測試結果	: 不適用, 此產品為受控裝置, 因此不須評估動態頻率選擇(DFS)

4.3.8 頻道可用性檢查時間之量測

合格標準：

依據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.7.2(3)節之要求，設備必須檢查其可在某一頻道上起始傳送之前是否有雷達系統已經操作在該頻道上，以及何時其必須移動到另一新的頻道，在 60 秒內若沒有偵測到功率位準大過上述之干擾門檻值的雷達信號時，設備才可開始使用該頻道。

測試架構圖：



測試結果：

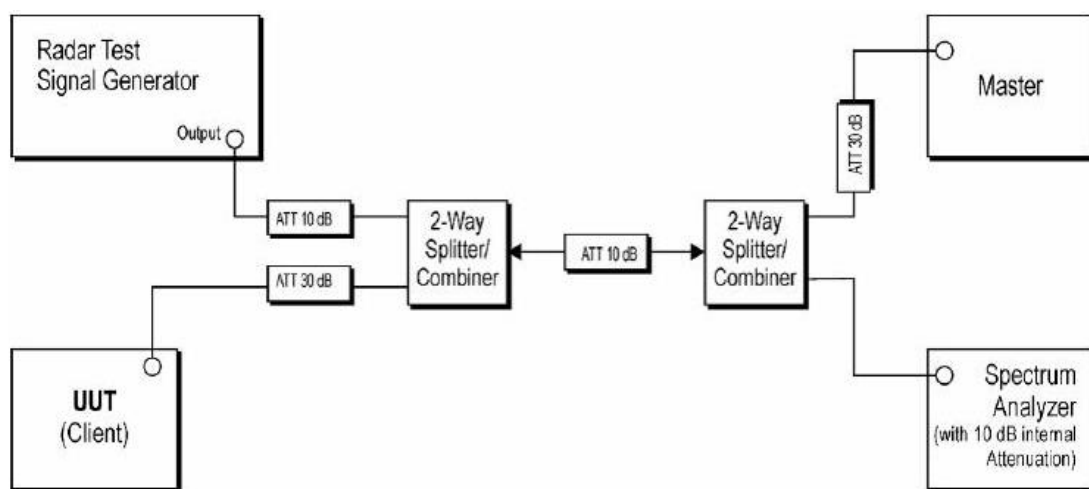
操作模式	: Mode 9
測試結果	: 不適用；此產品為受控裝置，因此不須評估頻道可用性檢查時間

4.3.9 頻道移動時間之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.7.2(4)節節之要求，在偵測到雷達的存在後，所有在該操作頻道上的所有傳輸須在 10 秒內停止，在偵測到雷達信號後，該期間內的傳輸應維持最多 200 毫秒的正常通訊。另外，間歇性的管理與控制信號可在剩餘的時間中傳送，以便撤離該操作頻道。

測試架構圖：



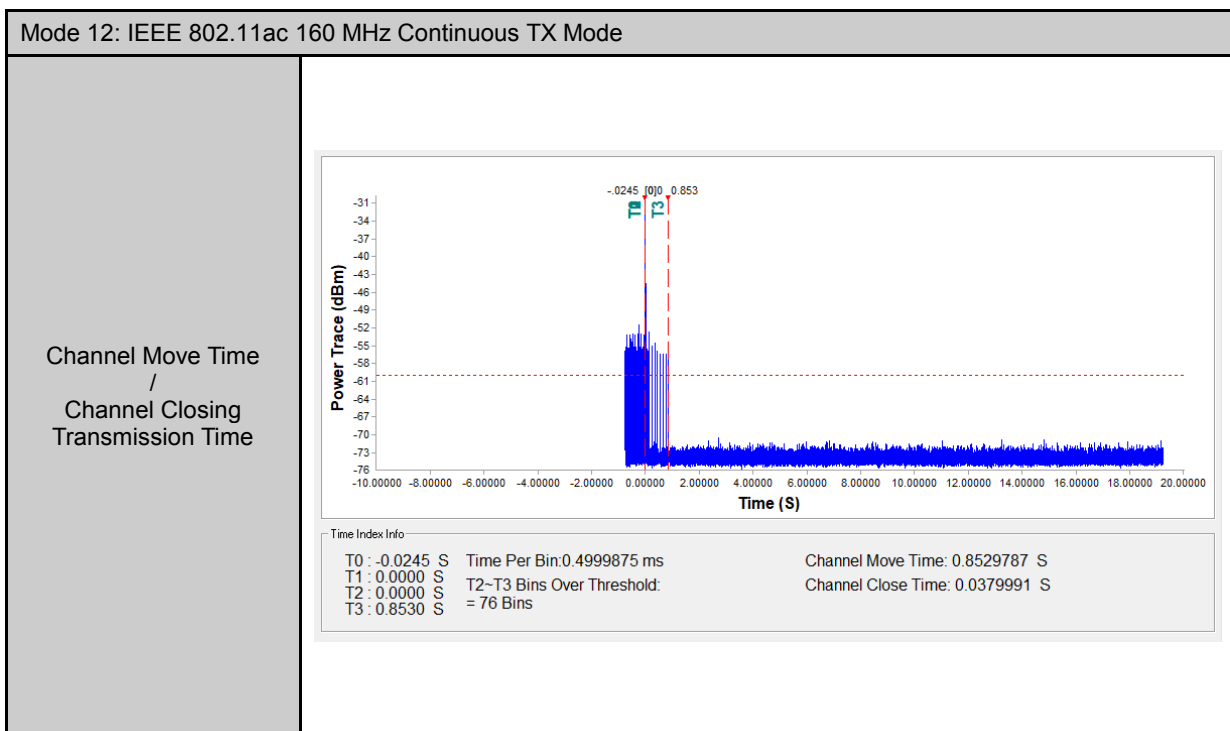
Product	Manufacturer	Model No.	ID
1. Netgear Access Point	Netgear	RT-AX88U	FCC : MSQ-RTAXHP00

測試結果:

操作模式	: Mode 12
測試結果	: 合格

Frequency (MHz)	Radar Type	Channel Move Time (sec)	Limit (sec)
5570	Type 0	0.8530	10

Frequency (MHz)	Radar Type	Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
5570	Type 0	37.9991	200

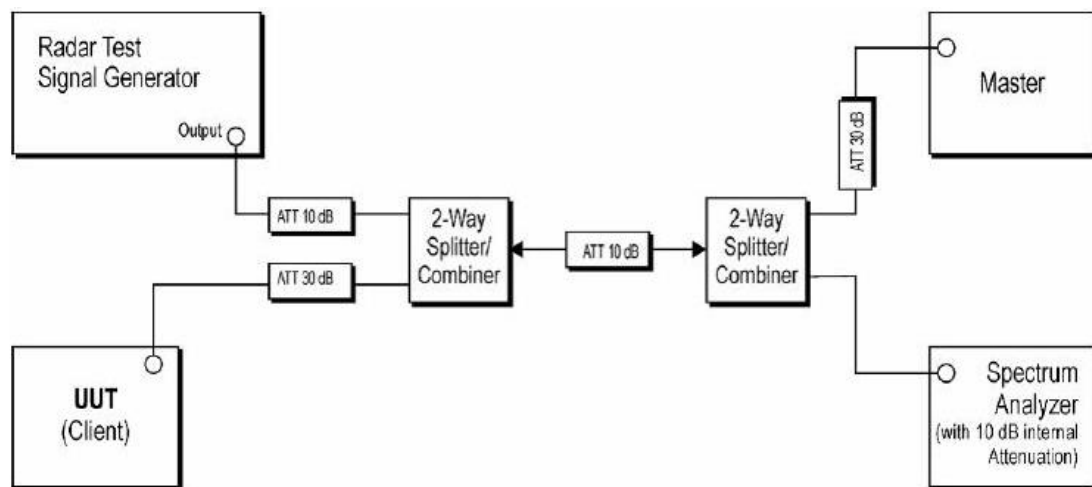


4.3.10 不可佔用時間之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.7.2(5)節節之要求, 某一頻道已被頻道可用性檢查或”服務中”監視顯示含有雷達系統, 至少須有 30 分鐘的不可佔用期間。不可佔用期間起始於偵測到雷達系統的當時。

測試架構圖：



測試結果:

操作模式	: Mode 9
測試結果	: 不適用, 此產品為受控裝置, 因此不須評估不可佔用時間

4.3.11 天線規格之要求

合格標準:

據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.8 節之要求，天線之規格不受第 2.2 節規定之限制

判定結果:

符合。

Antenna	製造商	型號	型態	增益值(dBi)
MAIN	Shenzhen South Star Technology Co.Ltd	WIFI Main Antenna	PIFA Antenna	1
AUX	Shenzhen South Star Technology Co.Ltd	WIFI AUX Antenna	PIFA Antenna	1

4.3.12 電波暴露量之評估

合格標準:

若受測物於正常操作模式下，其發射機距離人體 20 公分以上者，可測試最大暴露允許值(Maximum Permissible Exposure, MPE)以證明其符合電波暴露量之要求。限制值如下：

5.20.2.1 職業性/可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3~3.0	614	1.63	*100	6
3~30	1842/f	4.89/f	*900/f ²	6
30~300	61.4	0.163	1.0	6
300~1,500	-----	-----	f/300	6
1,500~100,000	-----	-----	5.0	6

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：MHz。

5.20.2.2 一般人/不可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3~1.34	614	1.63	*100	30
1.34~30	824/f	2.19/f	*180/f ²	30
30~300	27.5	0.073	0.2	30
300~1,500	-----	-----	f/1500	30
1,500~100,000	-----	-----	1.0	30

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：MHz。

判定結果:

Band	Frequency (MHz)	Limit (mW/cm ²)	Distance [R] (cm)	Power [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G] (dBi)	Duty Cycle	With Duty cycle [P] x [G] (mW)	Power Density [S] (mW/cm ²)
IEEE 802.11a	5180.0	1.0	20	13.52	1	1.26	1	28.338	0.0056
	5200.0	1.0	20	13.42	1	1.26	1	27.693	0.0055
	5220.0	1.0	20	13.20	1	1.26	1	26.325	0.0052
	5240.0	1.0	20	13.11	1	1.26	1	25.785	0.0051
	5745.0	1.0	20	13.02	1	1.26	1	25.256	0.0050
	5765.0	1.0	20	13.13	1	1.26	1	25.904	0.0052
	5785.0	1.0	20	13.13	1	1.26	1	25.904	0.0052
	5805.0	1.0	20	13.29	1	1.26	1	26.876	0.0053
	5825.0	1.0	20	13.42	1	1.26	1	27.693	0.0055
IEEE 802.11ac 20 MHz	5180.0	1.0	20	13.45	4.01	2.52	1	55.714	0.0111
	5200.0	1.0	20	13.17	4.01	2.52	1	52.232	0.0104
	5220.0	1.0	20	13.07	4.01	2.52	1	51.042	0.0102
	5240.0	1.0	20	13.10	4.01	2.52	1	51.455	0.0102
	5745.0	1.0	20	12.64	4.01	2.52	1	46.319	0.0092
	5765.0	1.0	20	12.86	4.01	2.52	1	48.639	0.0097
	5785.0	1.0	20	12.86	4.01	2.52	1	48.678	0.0097
	5805.0	1.0	20	13.09	4.01	2.52	1	51.391	0.0102
	5825.0	1.0	20	13.23	4.01	2.52	1	53.051	0.0106
IEEE 802.11ac 40 MHz	5190.0	1.0	20	11.30	4.01	2.52	1	33.995	0.0068
	5230.0	1.0	20	10.96	4.01	2.52	1	31.423	0.0063
	5755.0	1.0	20	12.84	4.01	2.52	1	48.421	0.0096
	5795.0	1.0	20	13.04	4.01	2.52	1	50.694	0.0101
IEEE 802.11ac 80 MHz	5210.0	1.0	20	12.70	4.01	2.52	1	46.875	0.0093
	5775.0	1.0	20	12.65	4.01	2.52	1	46.367	0.0092

Note：只有 5180 MHz ~ 5240 MHz，5725 MHz ~ 5825 MHz 有 Hotspot 功能。