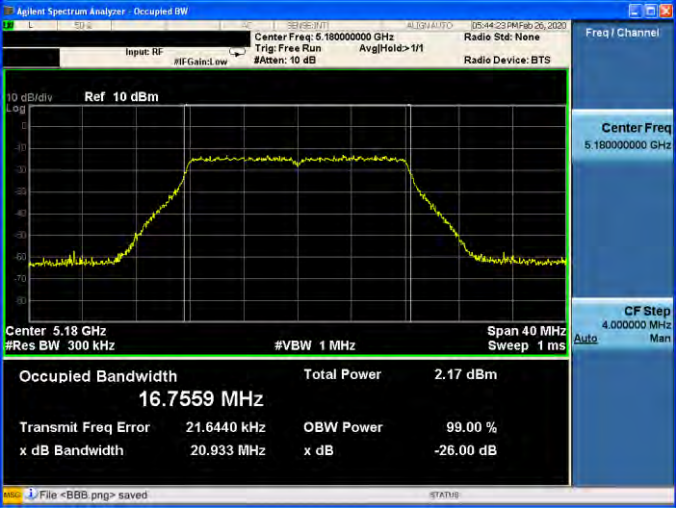
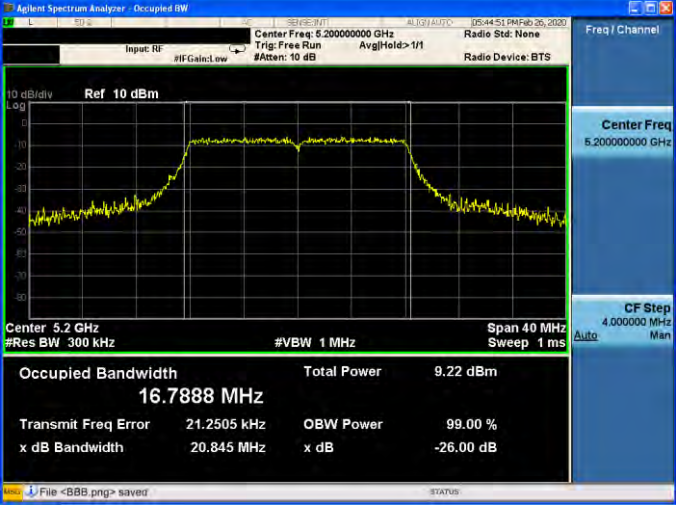
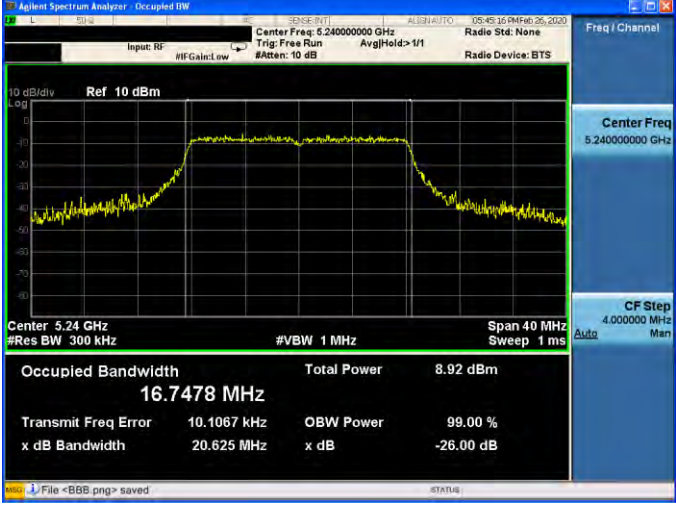
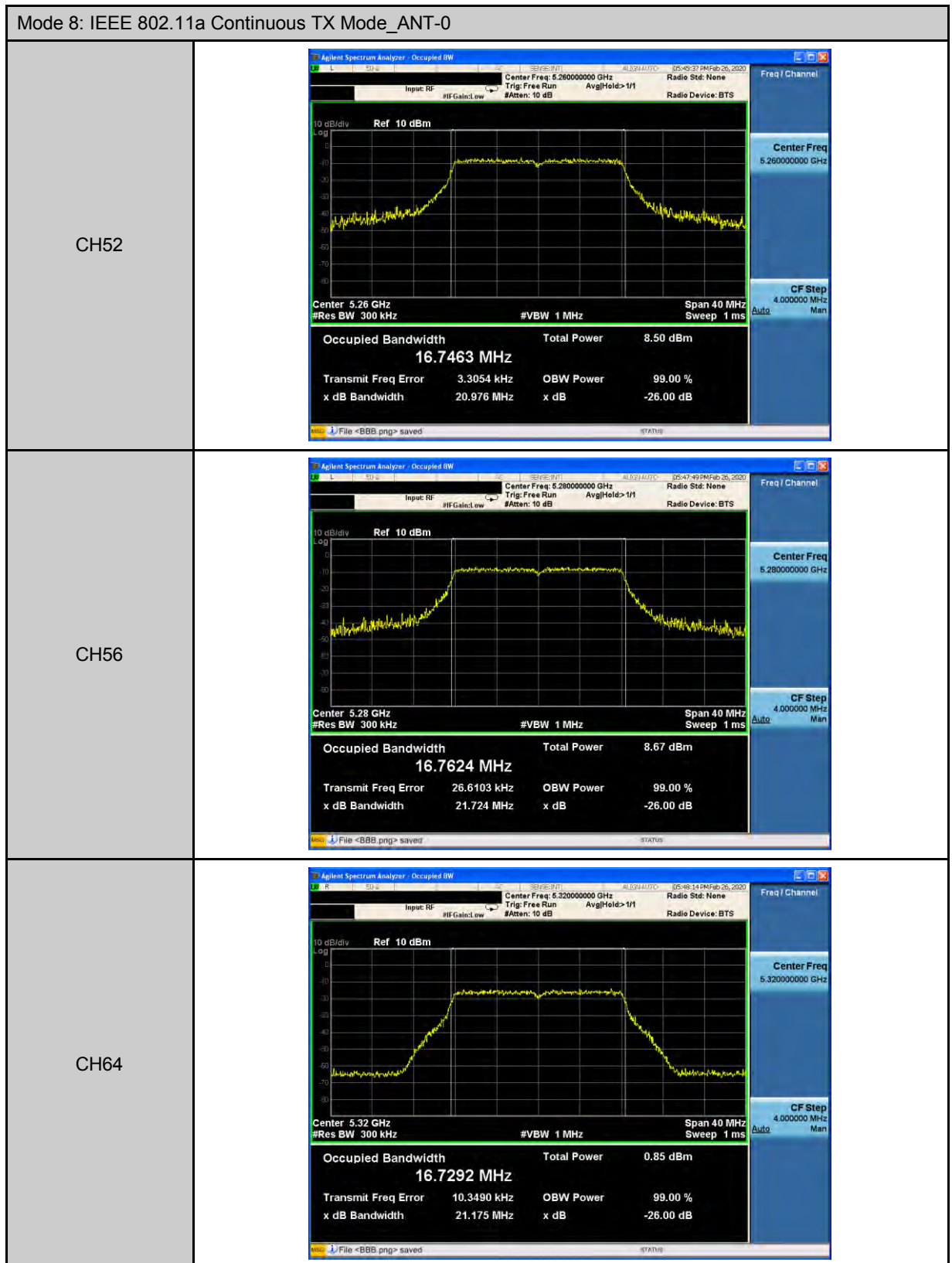
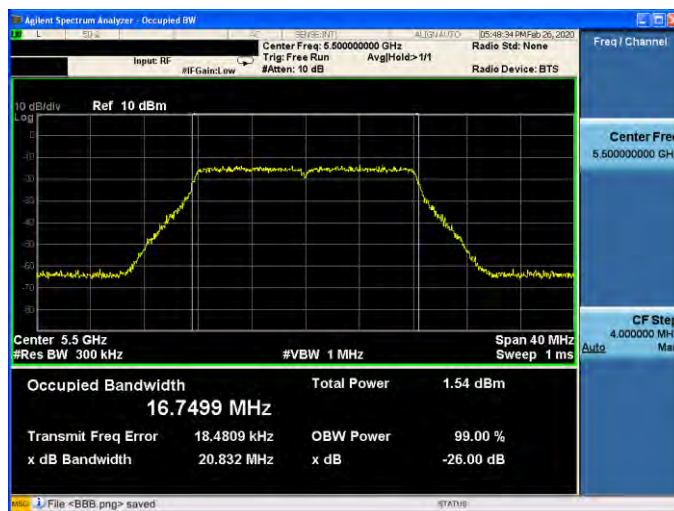


Mode 8: IEEE 802.11a Continuous TX Mode_ANT-0	
CH36	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.180000000 GHz Trig: Free Run #Att: 10 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS 10 dB/div Ref 10 dBm Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 16.7559 MHz Total Power 2.17 dBm Transmit Freq Error 21.6440 kHz OBW Power 99.00 % x dB Bandwidth 20.933 MHz x dB -26.00 dB File <BBB.png> saved
CH40	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.200000000 GHz Trig: Free Run #Att: 10 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS 10 dB/div Ref 10 dBm Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 16.7888 MHz Total Power 9.22 dBm Transmit Freq Error 21.2505 kHz OBW Power 99.00 % x dB Bandwidth 20.845 MHz x dB -26.00 dB File <BBB.png> saved
CH48	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.240000000 GHz Trig: Free Run #Att: 10 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS 10 dB/div Ref 10 dBm Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 16.7478 MHz Total Power 8.92 dBm Transmit Freq Error 10.1067 kHz OBW Power 99.00 % x dB Bandwidth 20.625 MHz x dB -26.00 dB File <BBB.png> saved

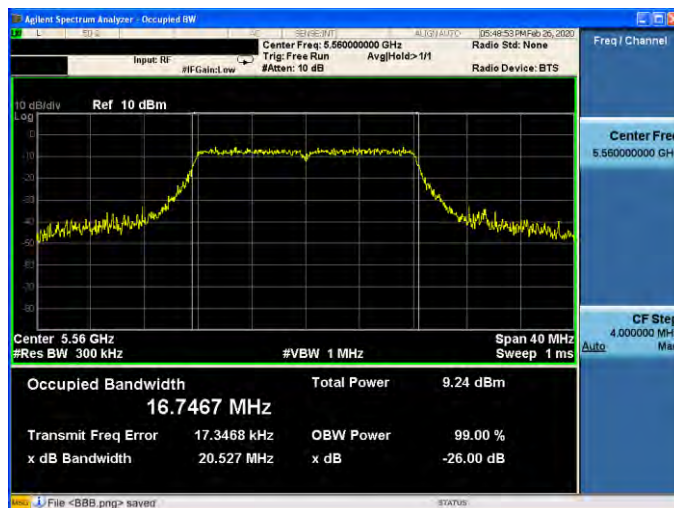


Mode 8: IEEE 802.11a Continuous TX Mode_ANT-0

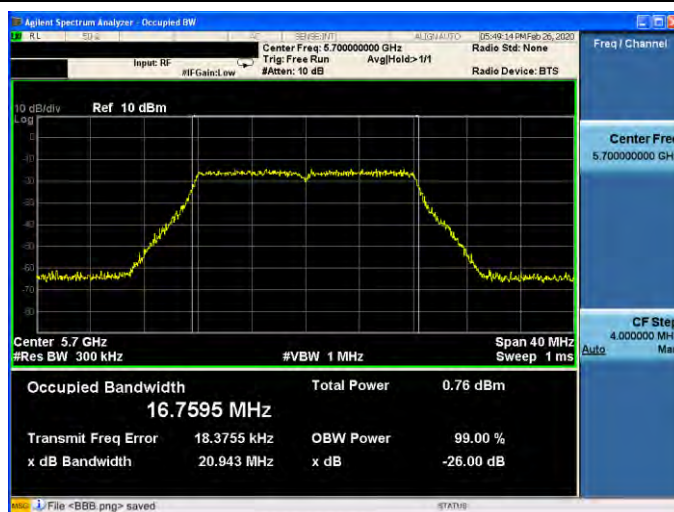
CH100



CH112

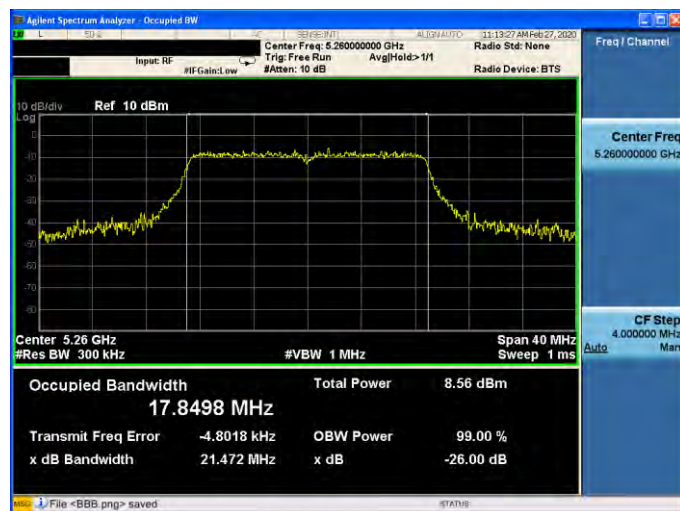


CH140

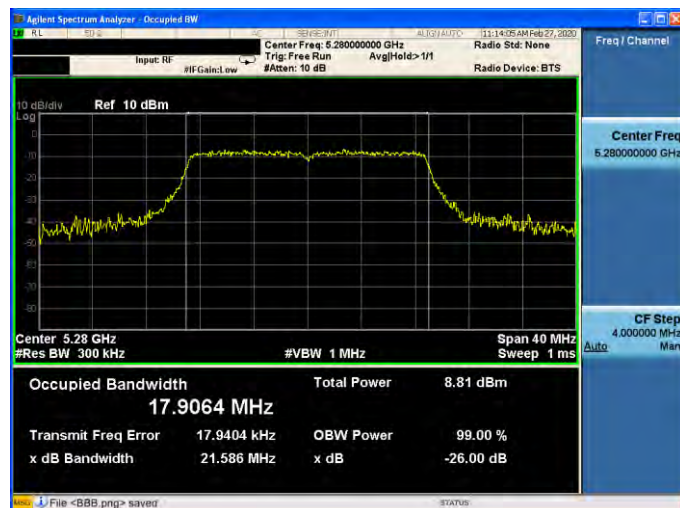


Mode 9: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-0

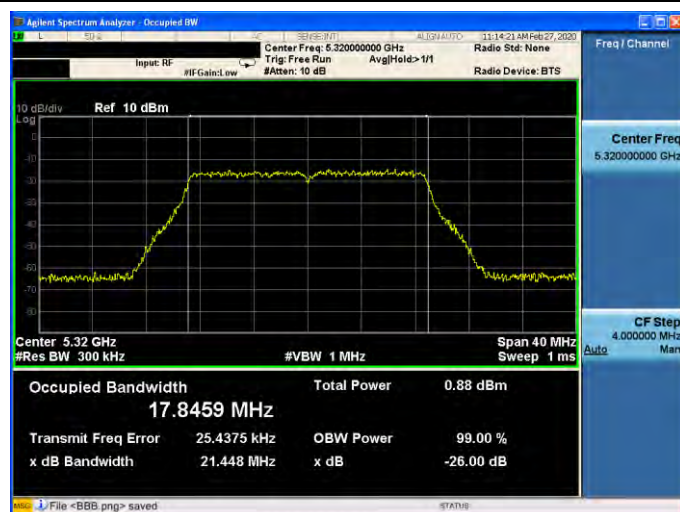
CH52

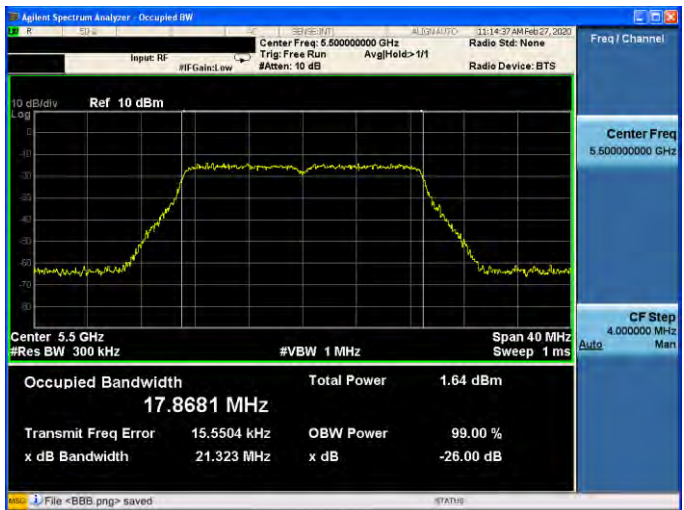
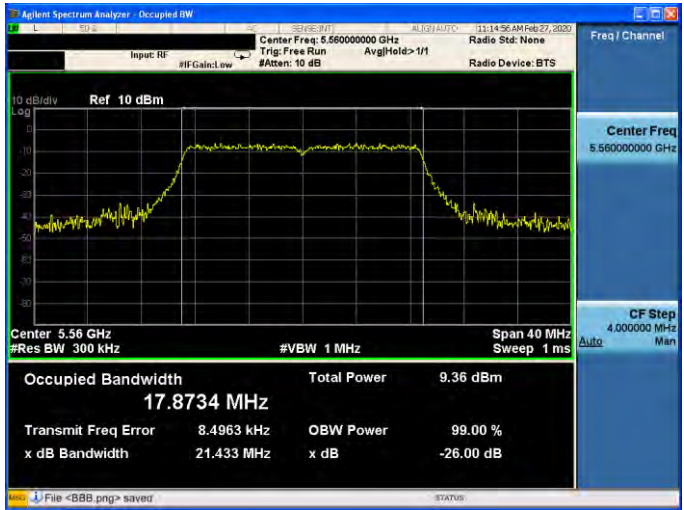
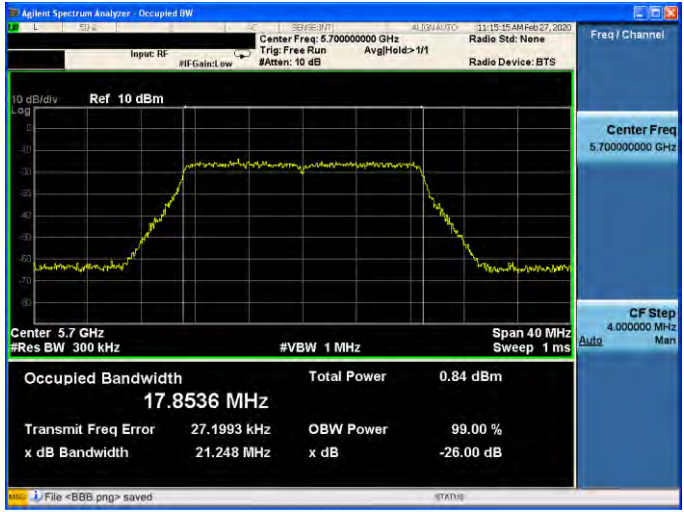


CH56



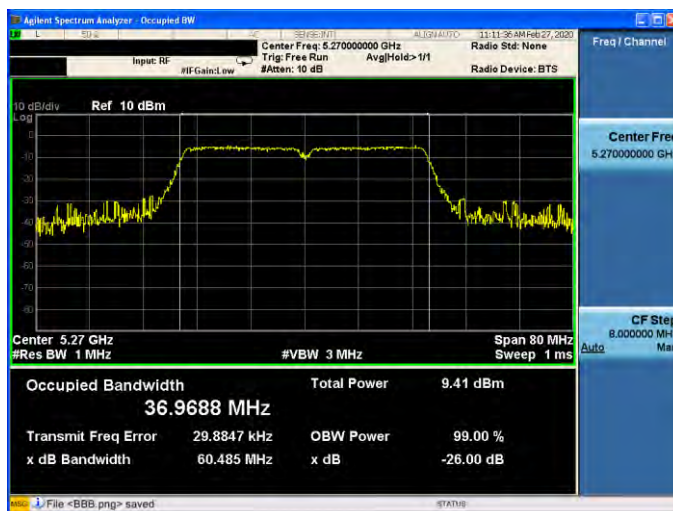
CH64



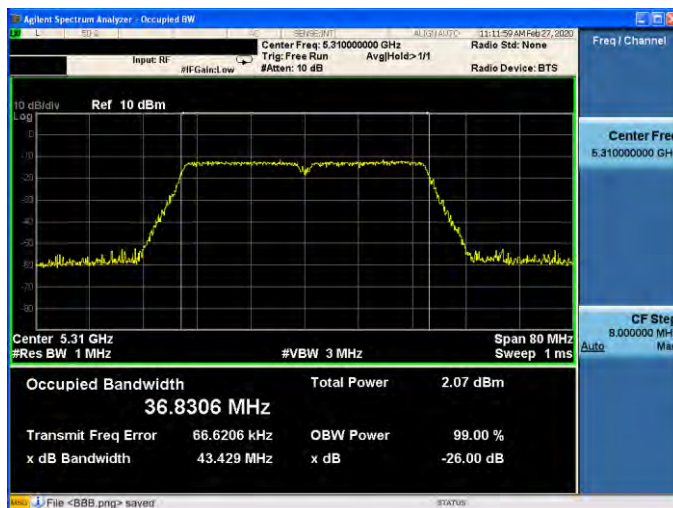
Mode 9: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-0	
CH100	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.500000000 GHz Trig: Free Run AvgHold: 1/1 Radio Dev: BTS Ref 10 dBm Center 5.5 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.8681 MHz Total Power 1.64 dBm Transmit Freq Error 15.5504 kHz OBW Power 99.00 % x dB Bandwidth 21.323 MHz x dB -26.00 dB
CH112	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.560000000 GHz Trig: Free Run AvgHold: 1/1 Radio Dev: BTS Ref 10 dBm Center 5.56 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.8734 MHz Total Power 9.36 dBm Transmit Freq Error 8.4963 kHz OBW Power 99.00 % x dB Bandwidth 21.433 MHz x dB -26.00 dB
CH140	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.700000000 GHz Trig: Free Run AvgHold: 1/1 Radio Dev: BTS Ref 10 dBm Center 5.7 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.8536 MHz Total Power 0.84 dBm Transmit Freq Error 27.1993 kHz OBW Power 99.00 % x dB Bandwidth 21.248 MHz x dB -26.00 dB

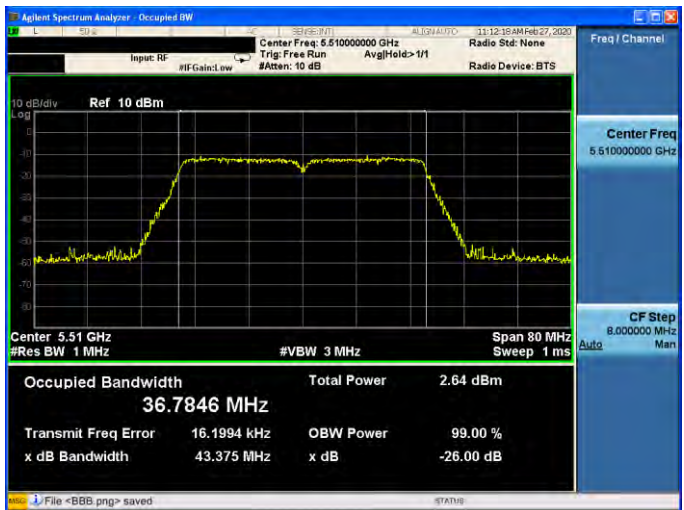
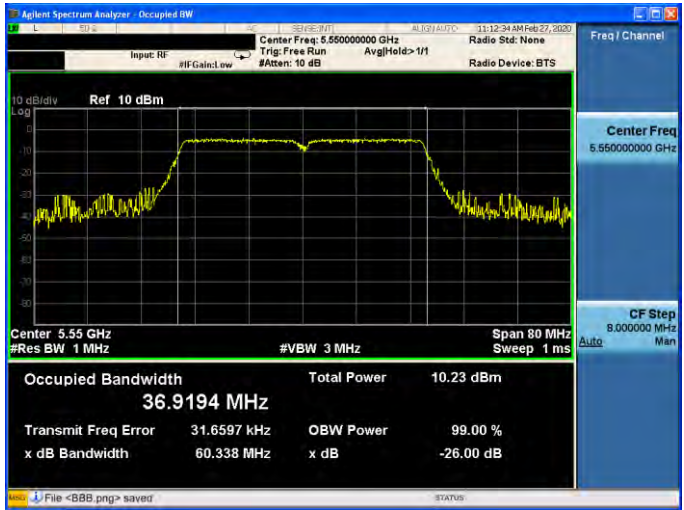
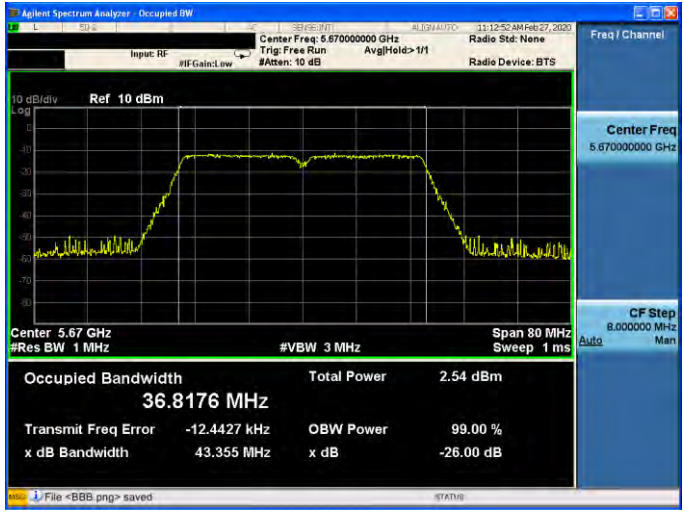
Mode 10: IEEE 802.11n 5 GHz 40 MHz Continuous TX Mode_ANT-0

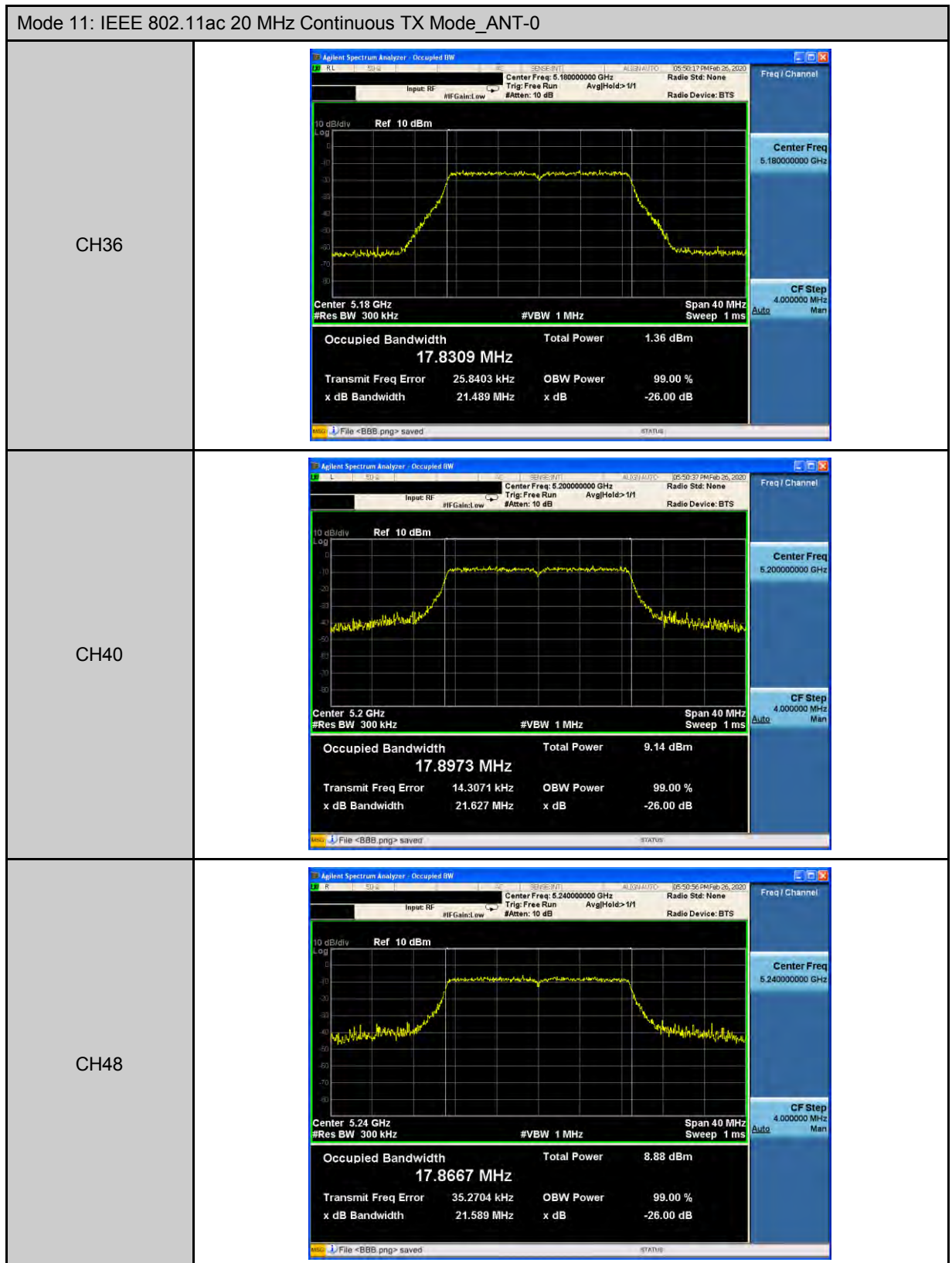
CH54

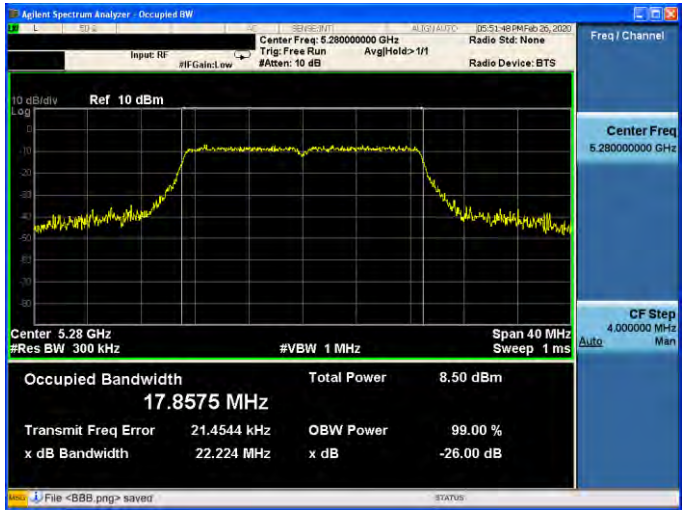
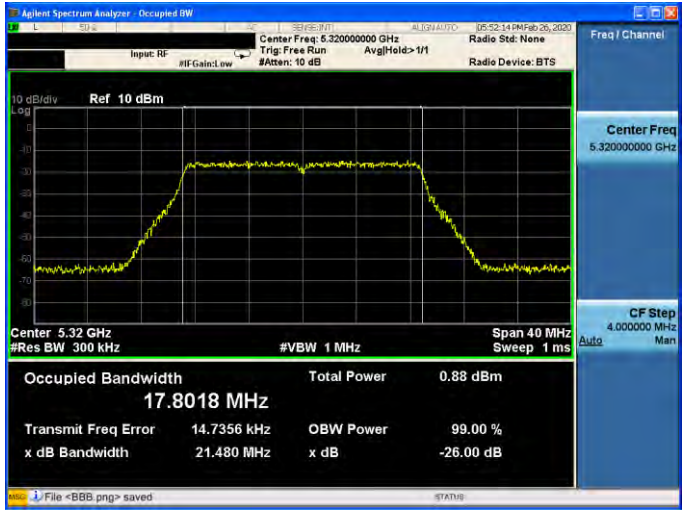


CH62



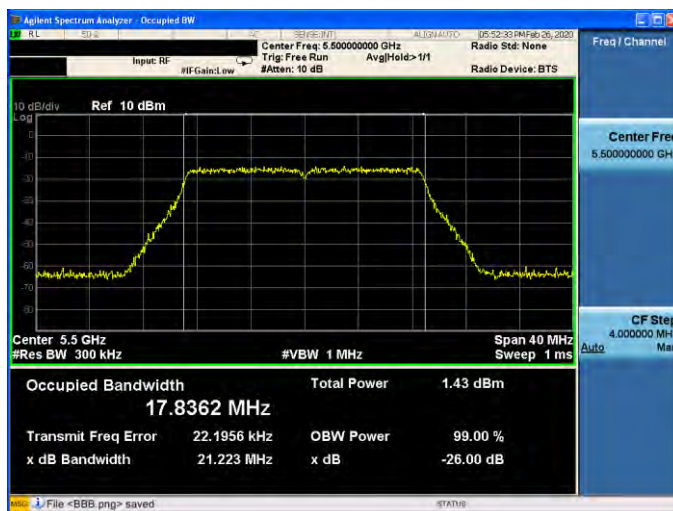
Mode 10: IEEE 802.11n 5 GHz 40 MHz Continuous TX Mode_ANT-0	
CH102	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.510000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS Ref 10 dBm Center 5.51 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 36.7846 MHz Total Power 2.64 dBm Transmit Freq Error 16.1994 kHz OBW Power 99.00 % x dB Bandwidth 43.375 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH110	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.550000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS Ref 10 dBm Center 5.55 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 36.9194 MHz Total Power 10.23 dBm Transmit Freq Error 31.6597 kHz OBW Power 99.00 % x dB Bandwidth 60.338 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH134	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.670000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS Ref 10 dBm Center 5.67 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 36.8176 MHz Total Power 2.54 dBm Transmit Freq Error -12.4427 kHz OBW Power 99.00 % x dB Bandwidth 43.355 MHz x dB -26.00 dB File <BBB.png> saved STATUS



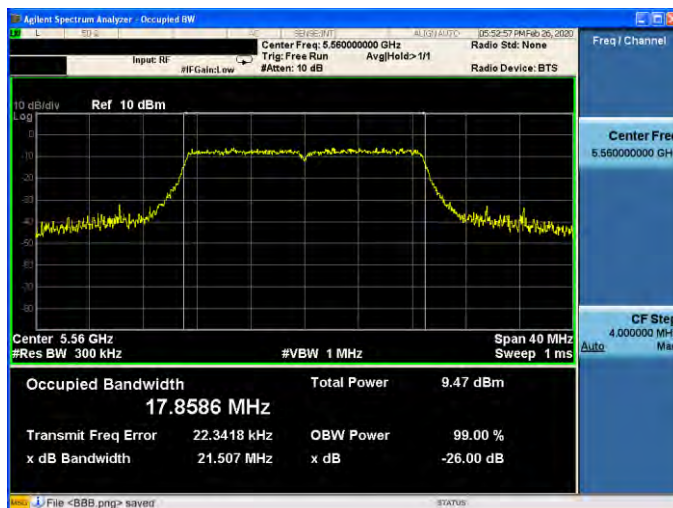
Mode 11: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
CH52	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.260000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 10 dBm Center 5.26 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.8805 MHz Total Power 8.49 dBm Transmit Freq Error 27.7927 kHz OBW Power 99.00 % x dB Bandwidth 21.550 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH56	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.280000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 10 dBm Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.8575 MHz Total Power 8.50 dBm Transmit Freq Error 21.4544 kHz OBW Power 99.00 % x dB Bandwidth 22.224 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH64	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.320000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 10 dBm Center 5.32 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.8018 MHz Total Power 0.88 dBm Transmit Freq Error 14.7356 kHz OBW Power 99.00 % x dB Bandwidth 21.480 MHz x dB -26.00 dB File <BBB.png> saved STATUS

Mode 11: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

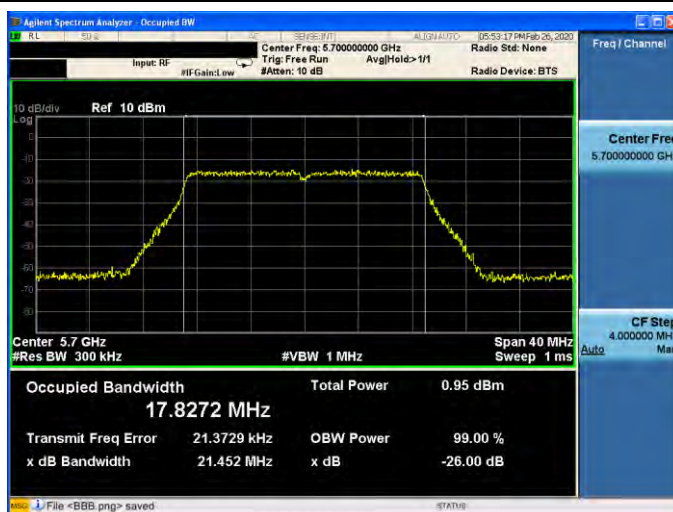
CH100



CH112

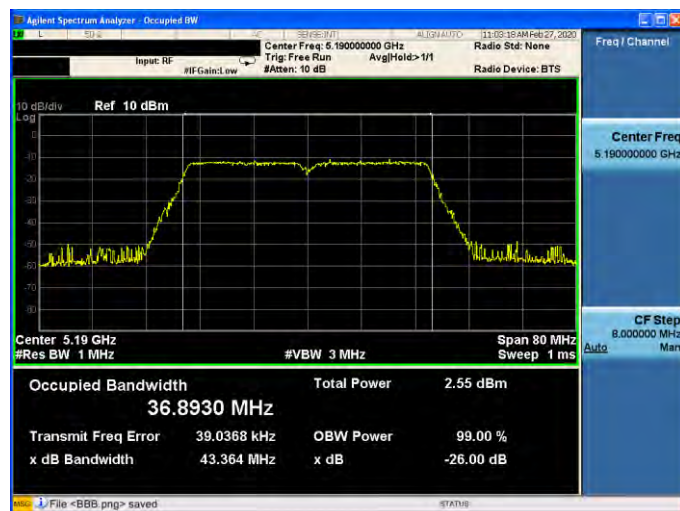


CH140

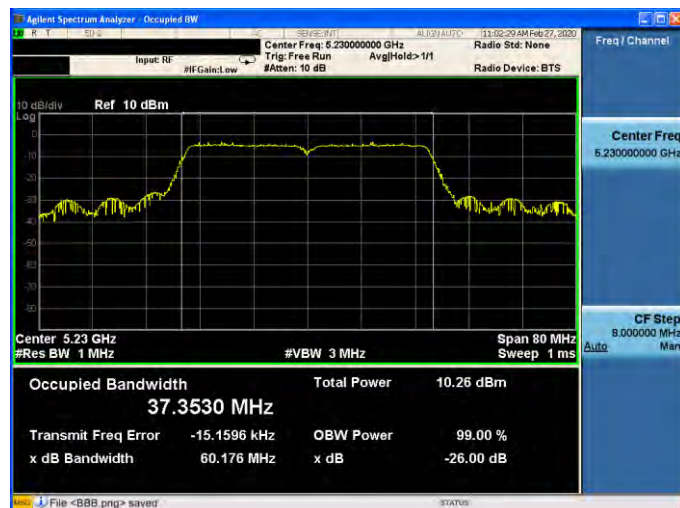


Mode 12: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

CH38

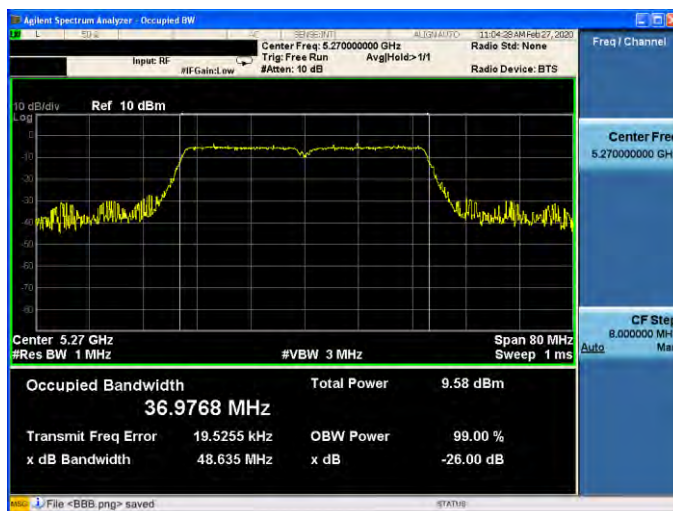


CH46

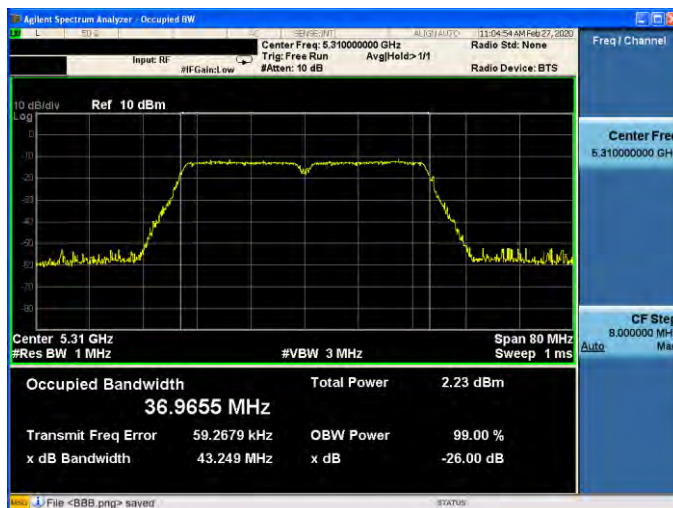


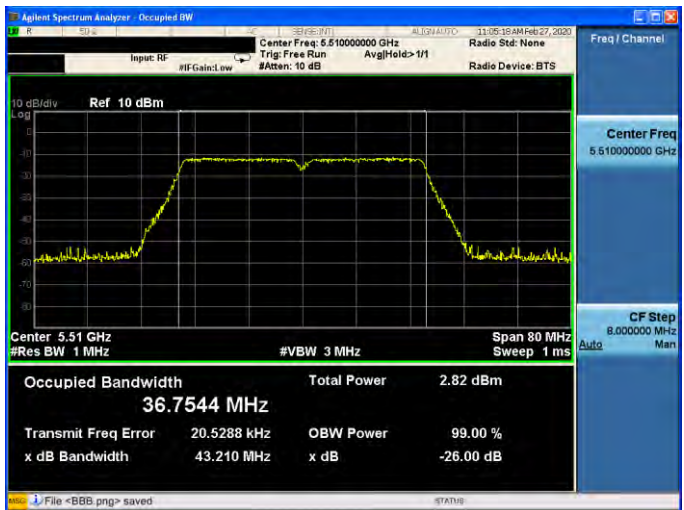
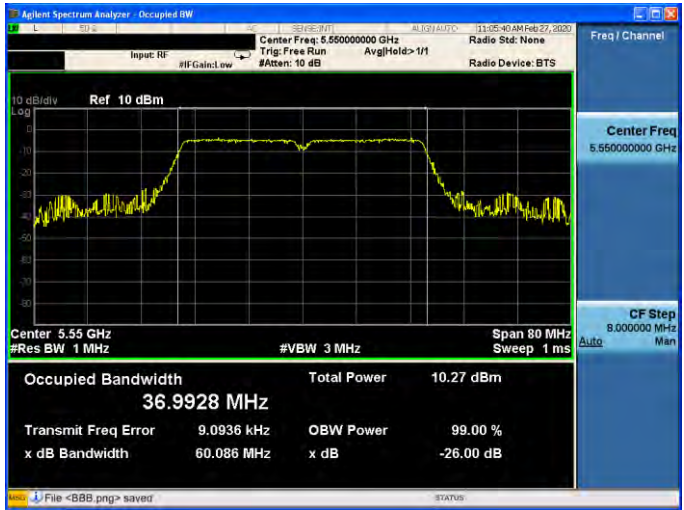
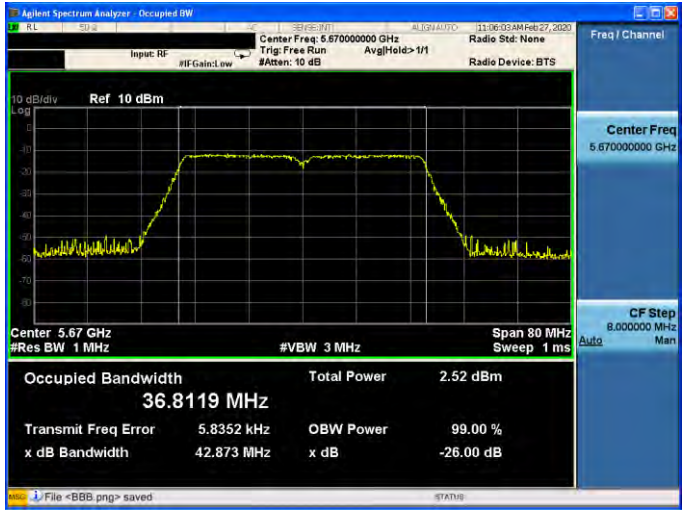
Mode 12: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

CH54



CH62



Mode 12: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0	
CH102	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.510000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS Ref 10 dBm Center 5.51 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 36.7544 MHz Total Power 2.82 dBm Transmit Freq Error 20.5288 kHz OBW Power 99.00 % x dB Bandwidth 43.210 MHz x dB -26.00 dB File <BBB.png> saved
CH110	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.550000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS Ref 10 dBm Center 5.55 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 36.9928 MHz Total Power 10.27 dBm Transmit Freq Error 9.0936 kHz OBW Power 99.00 % x dB Bandwidth 60.086 MHz x dB -26.00 dB File <BBB.png> saved
CH134	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.670000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS Ref 10 dBm Center 5.67 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 36.8119 MHz Total Power 2.52 dBm Transmit Freq Error 5.8352 kHz OBW Power 99.00 % x dB Bandwidth 42.873 MHz x dB -26.00 dB File <BBB.png> saved



Mode 13: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-0

CH106

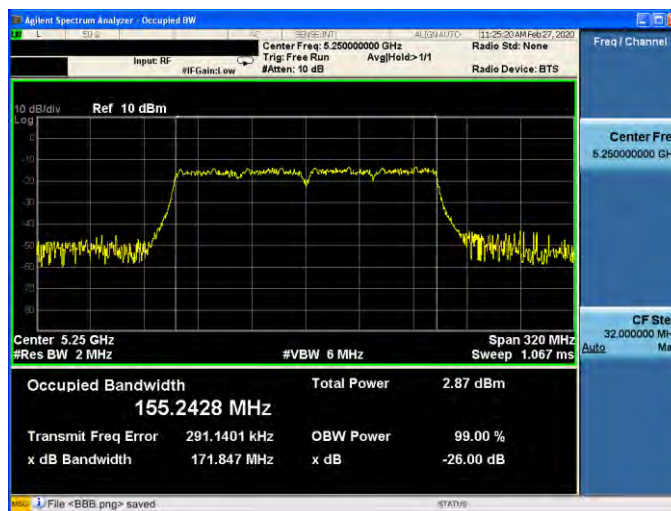


CH122

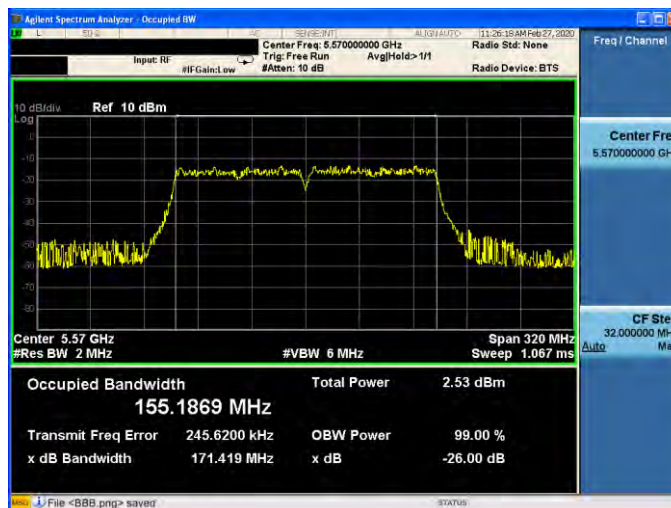


Mode 14: IEEE 802.11ac 160 MHz Continuous TX Mode_ANT-0

CH50

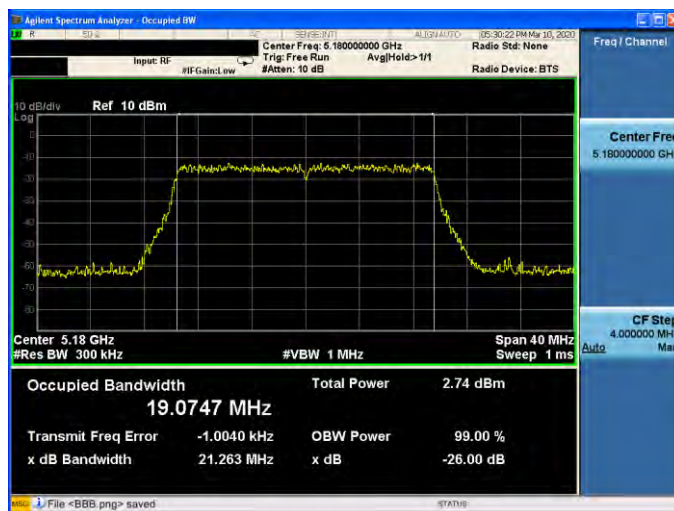


CH114

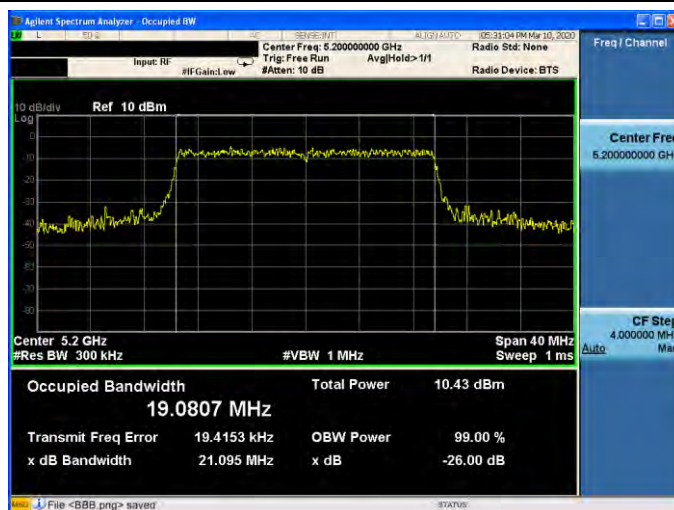


Mode 15: IEEE 802.11ax 20 MHz Continuous TX Mode_ANT-0

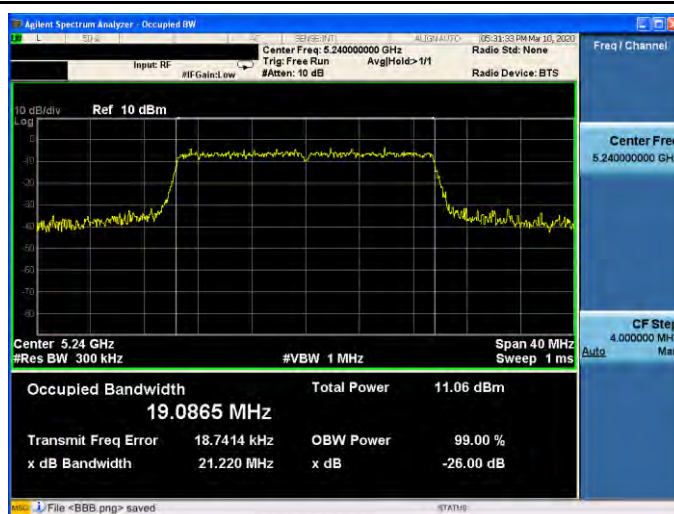
CH36



CH40

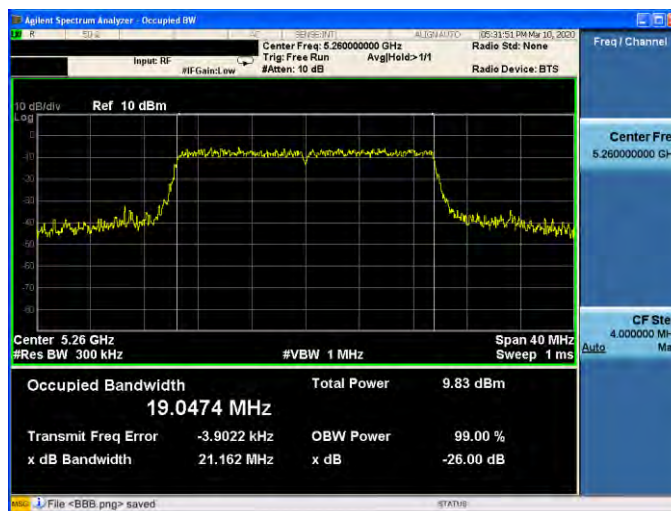


CH48

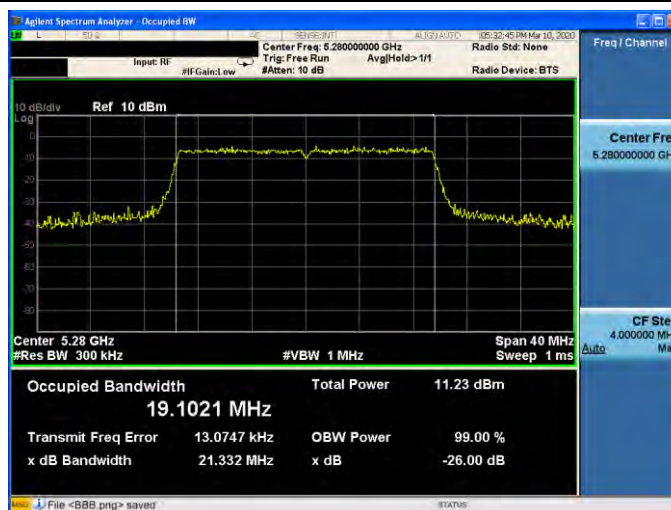


Mode 15: IEEE 802.11ax 20 MHz Continuous TX Mode_ANT-0

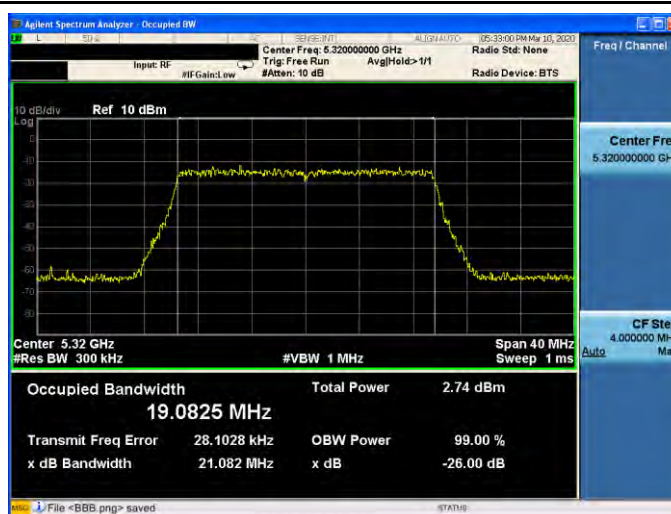
CH52



CH56



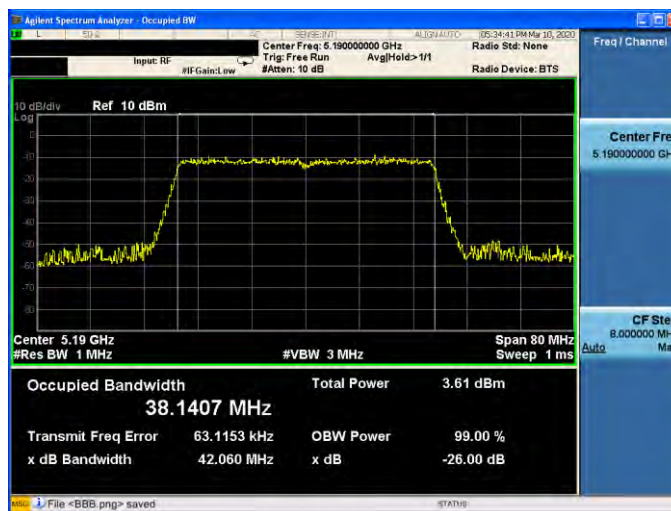
CH64



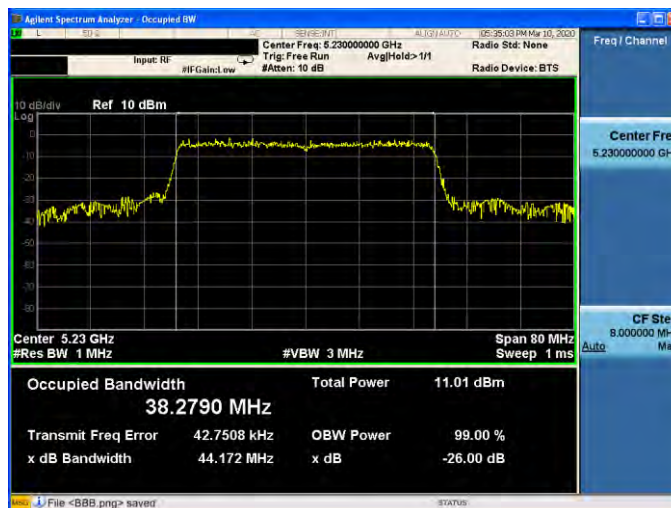


Mode 16: IEEE 802.11ax 40 MHz Continuous TX Mode_ANT-0

CH38

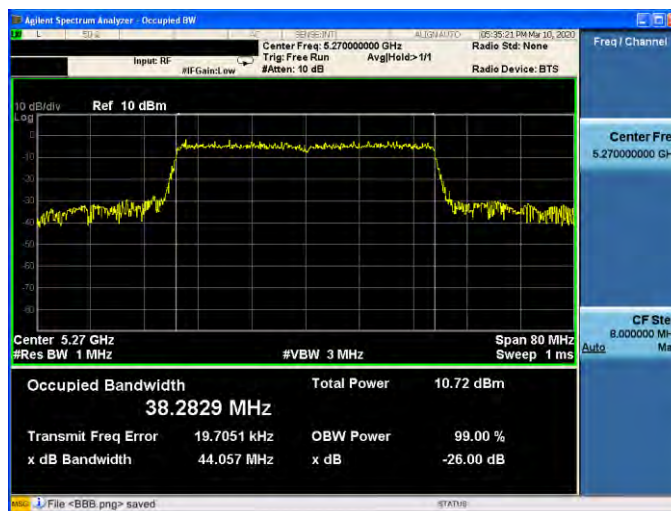


CH46

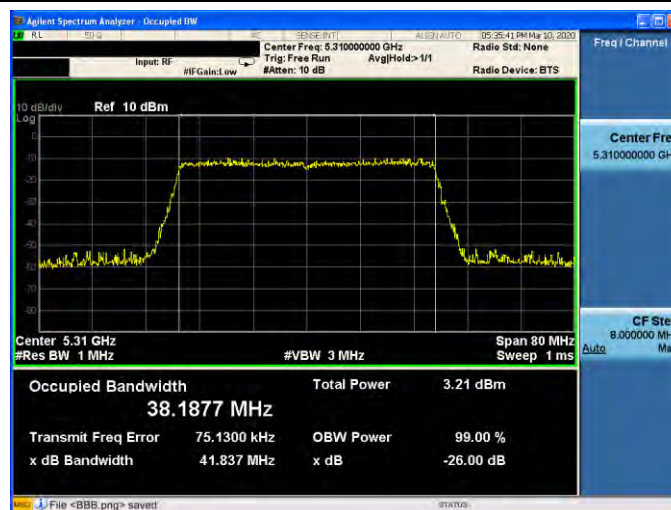


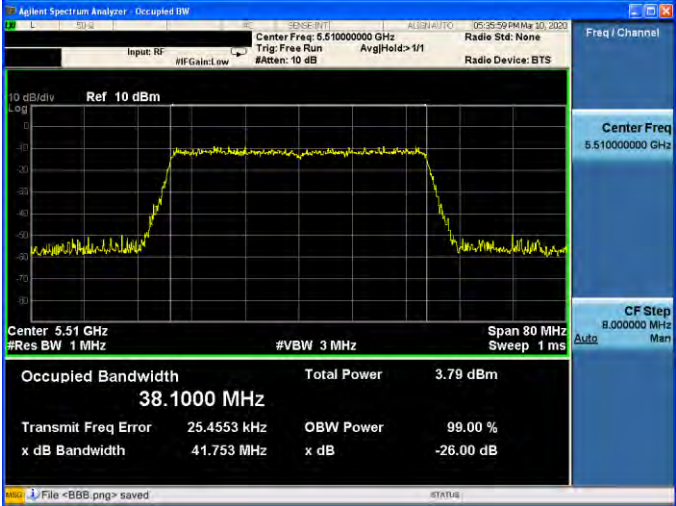
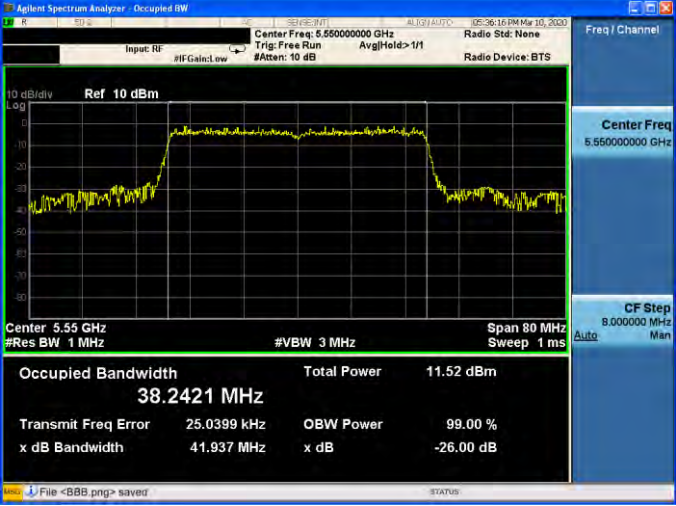
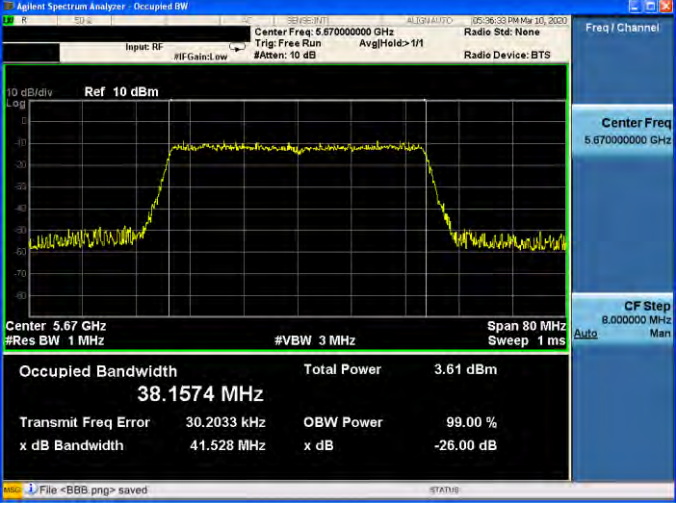
Mode 16: IEEE 802.11ax 40 MHz Continuous TX Mode_ANT-0

CH54



CH62

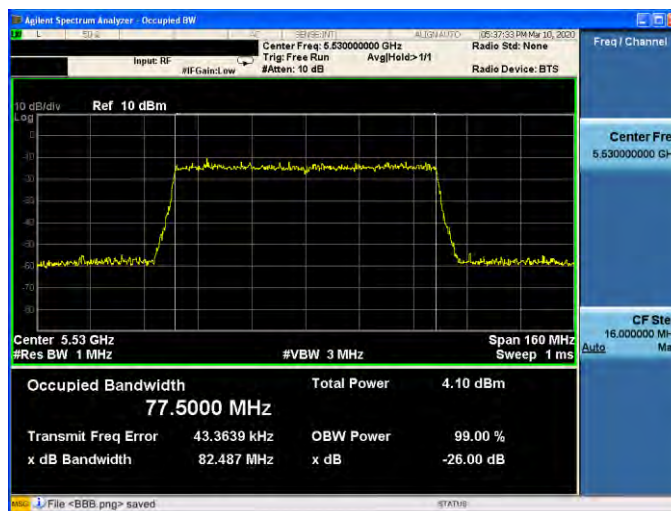


Mode 16: IEEE 802.11ax 40 MHz Continuous TX Mode_ANT-0	
CH102	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.510000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input RF #IF Gain: Low #Atten: 10 dB Ref 10 dBm 10 dB/div Log Center 5.51 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 38.1000 MHz Total Power 3.79 dBm Transmit Freq Error 25.4553 kHz OBW Power 99.00 % x dB Bandwidth 41.753 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH110	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.550000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input RF #IF Gain: Low #Atten: 10 dB Ref 10 dBm 10 dB/div Log Center 5.55 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 38.2421 MHz Total Power 11.52 dBm Transmit Freq Error 25.0399 kHz OBW Power 99.00 % x dB Bandwidth 41.937 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH134	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.670000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input RF #IF Gain: Low #Atten: 10 dB Ref 10 dBm 10 dB/div Log Center 5.67 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 38.1574 MHz Total Power 3.61 dBm Transmit Freq Error 30.2033 kHz OBW Power 99.00 % x dB Bandwidth 41.528 MHz x dB -26.00 dB File <BBB.png> saved STATUS

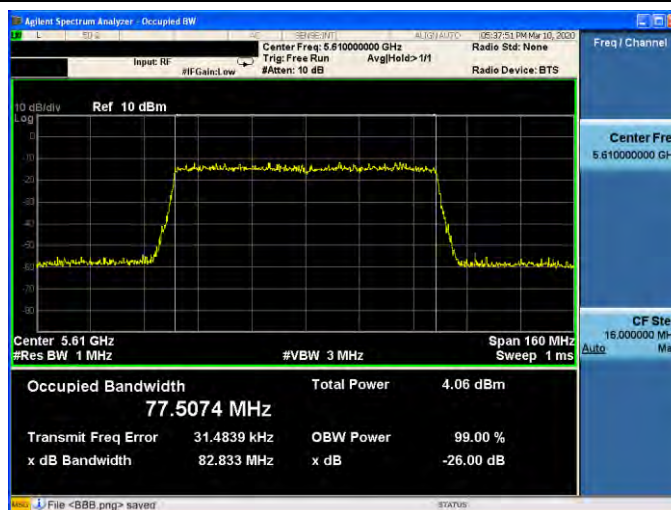


Mode 17: IEEE 802.11ax 80 MHz Continuous TX Mode_ANT-0

CH106

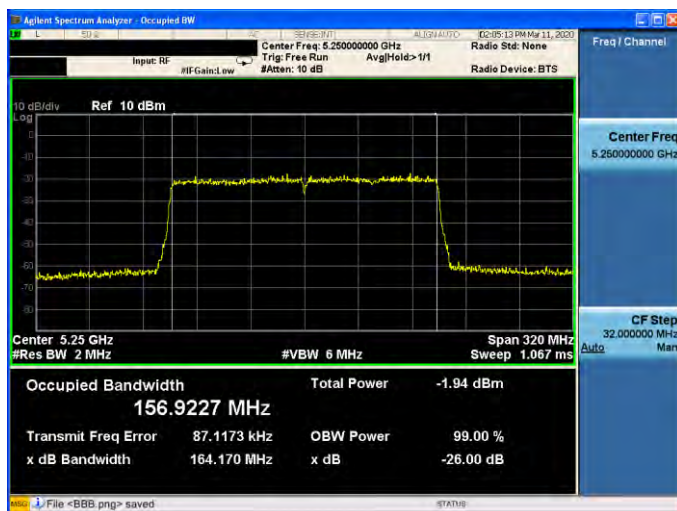


CH122

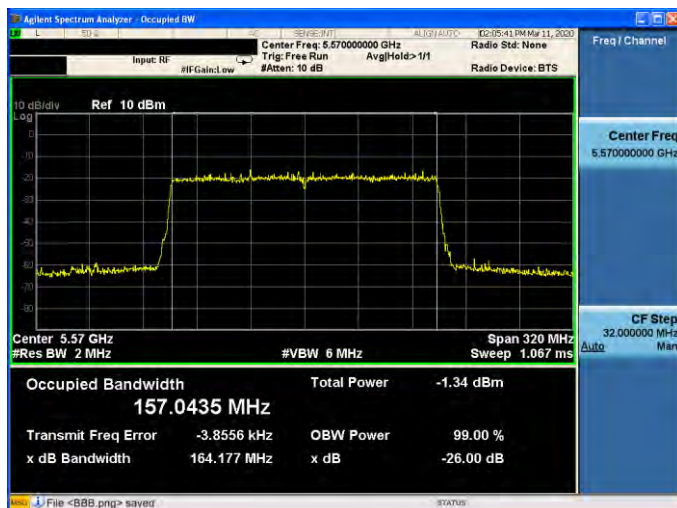


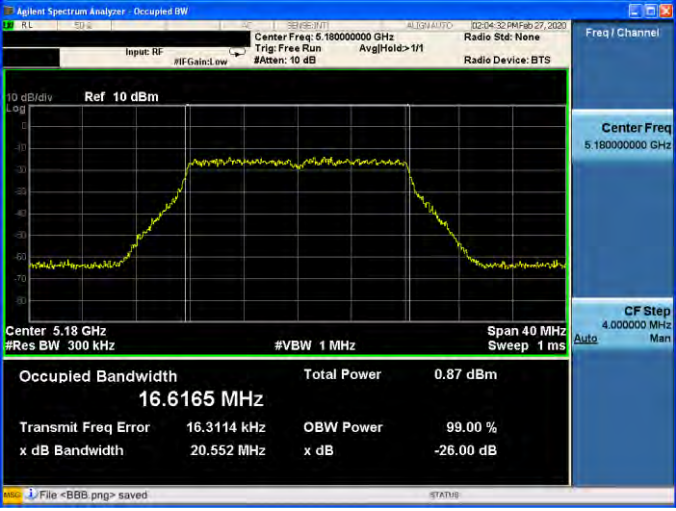
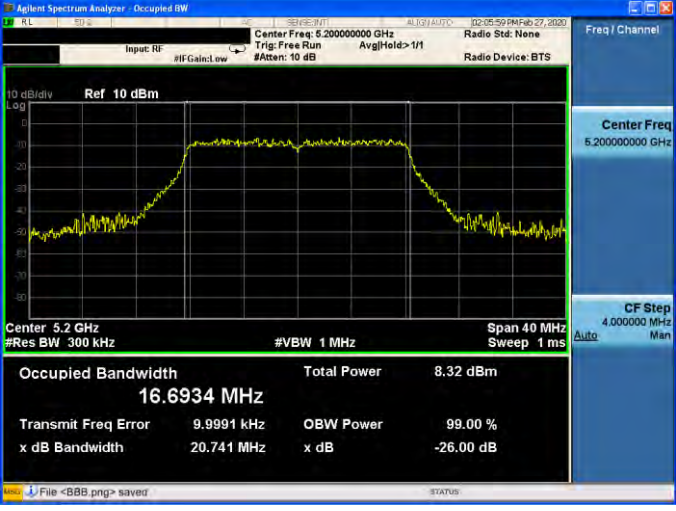
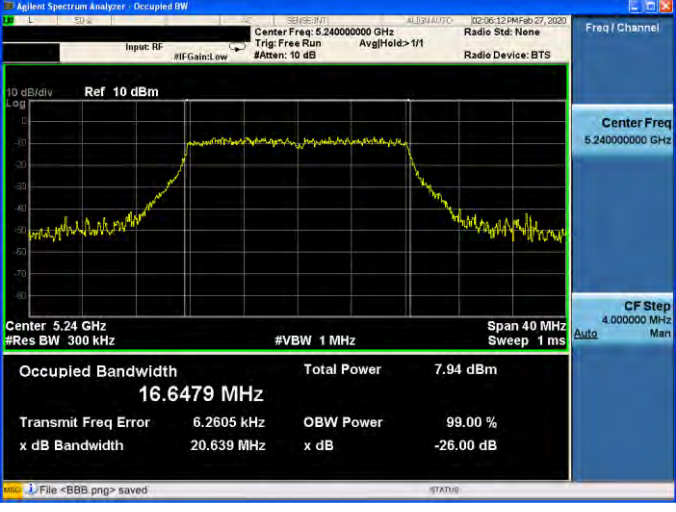
Mode 18: IEEE 802.11ax 160 MHz Continuous TX Mode_ANT-0

CH50



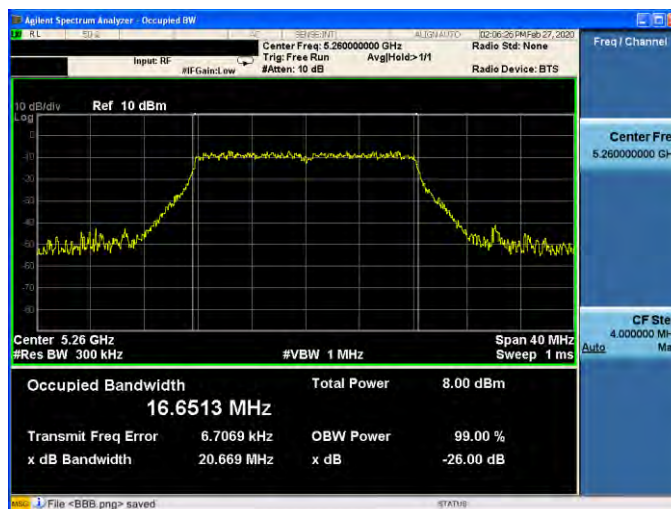
CH114



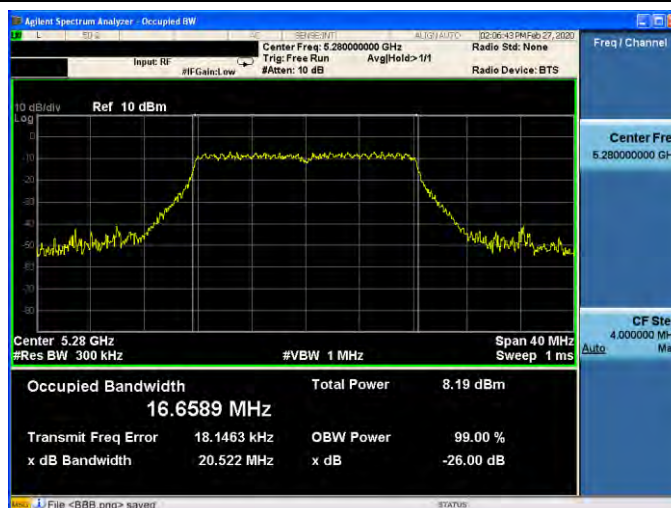
Mode 8: IEEE 802.11a Continuous TX Mode_ANT-1	
CH36	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.180000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Ref 10 dBm Occupied Bandwidth 16.6165 MHz Total Power 0.87 dBm Transmit Freq Error 16.3114 kHz OBW Power 99.00 % x dB Bandwidth 20.552 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH40	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.200000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Ref 10 dBm Occupied Bandwidth 16.6934 MHz Total Power 8.32 dBm Transmit Freq Error 9.9991 kHz OBW Power 99.00 % x dB Bandwidth 20.741 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH48	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.240000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Ref 10 dBm Occupied Bandwidth 16.6479 MHz Total Power 7.94 dBm Transmit Freq Error 6.2605 kHz OBW Power 99.00 % x dB Bandwidth 20.639 MHz x dB -26.00 dB File <BBB.png> saved STATUS

Mode 8: IEEE 802.11a Continuous TX Mode_ANT-1

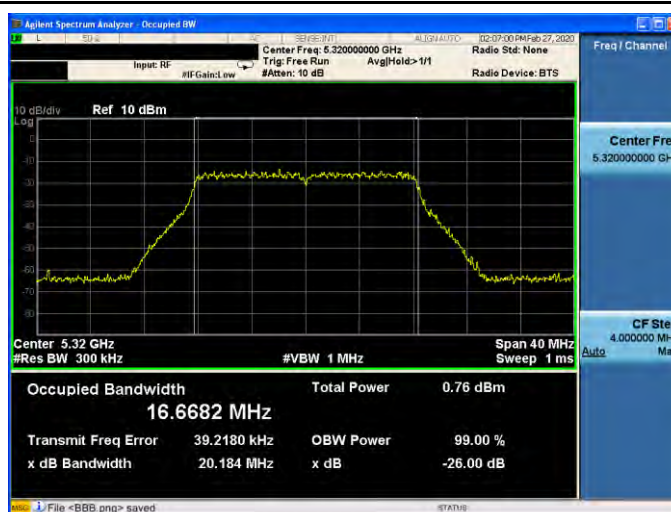
CH52

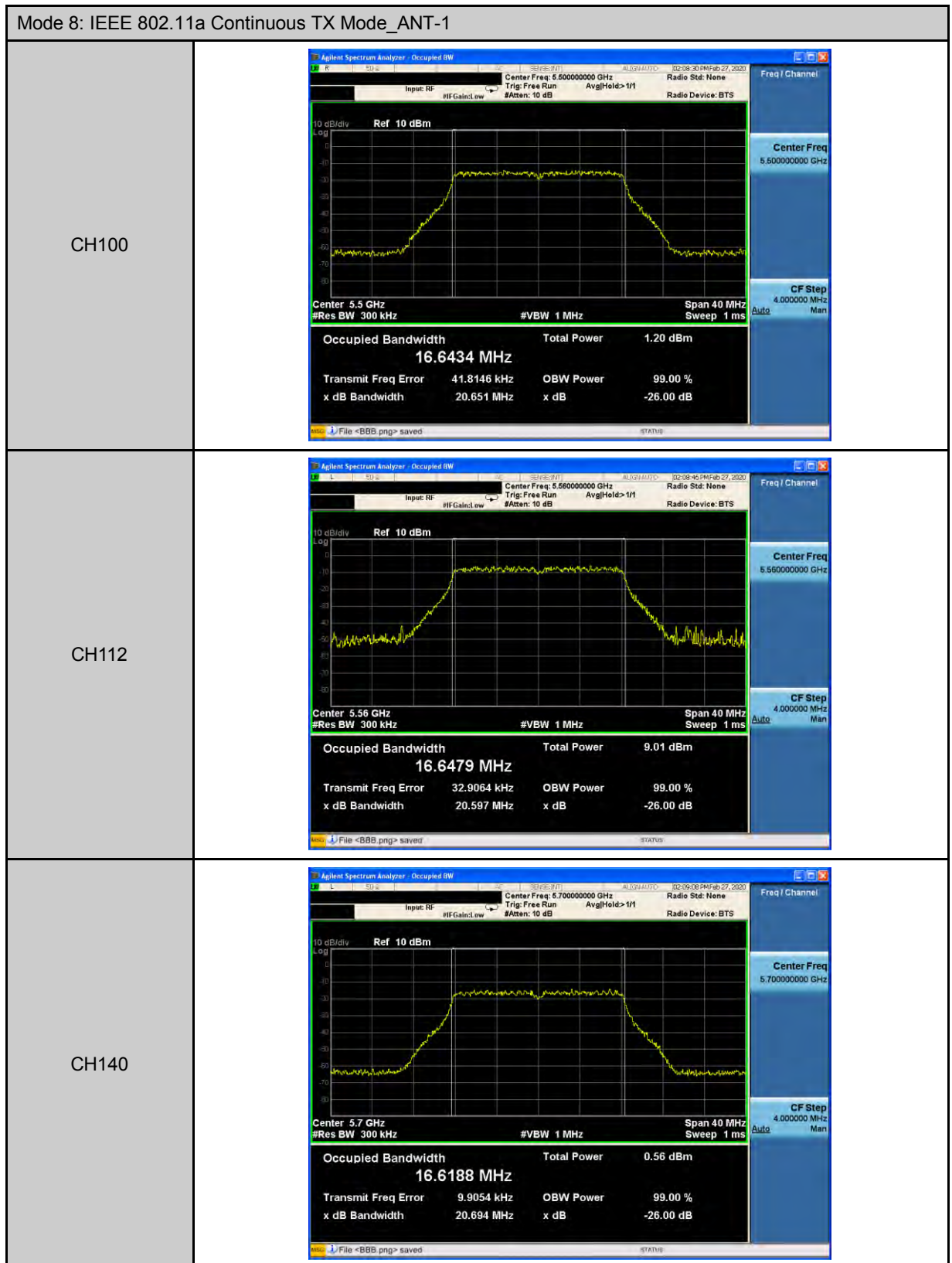


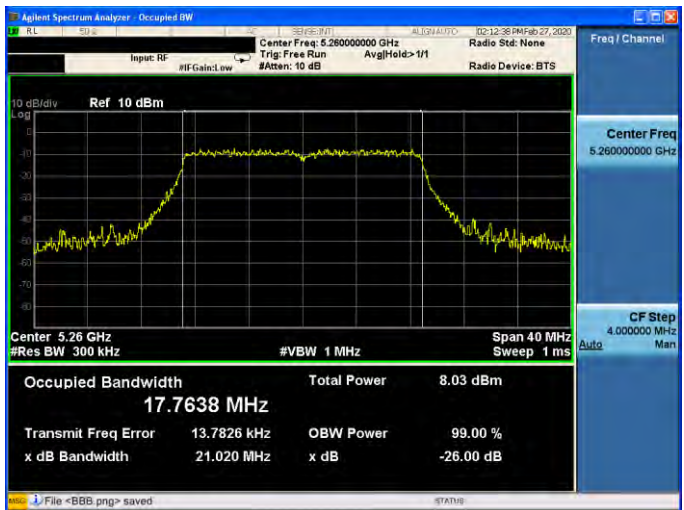
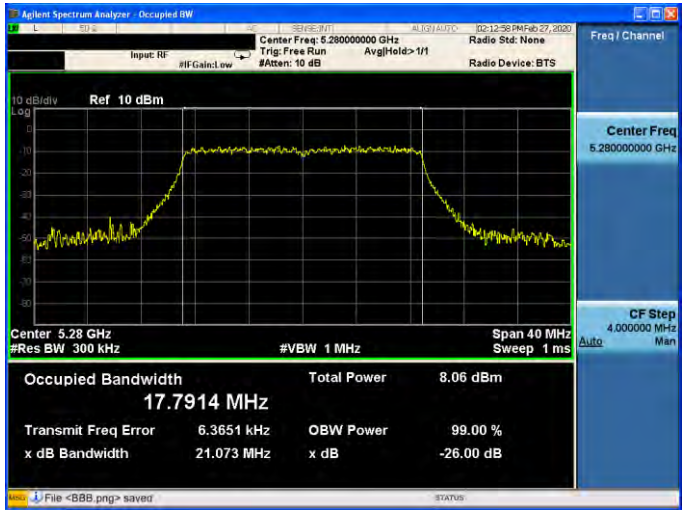
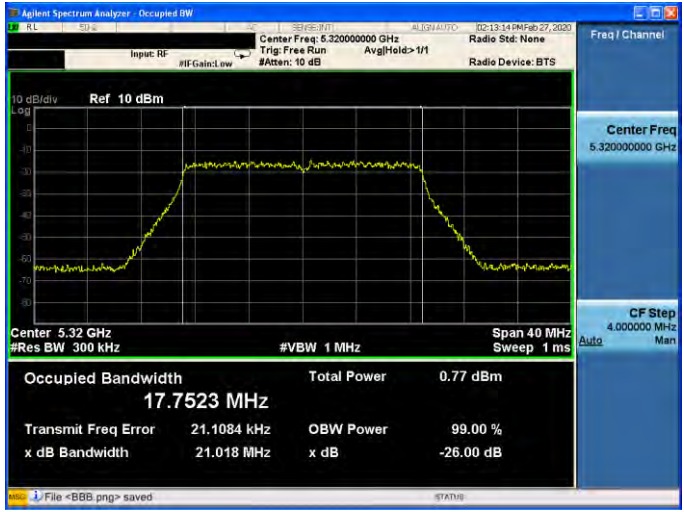
CH56



CH64

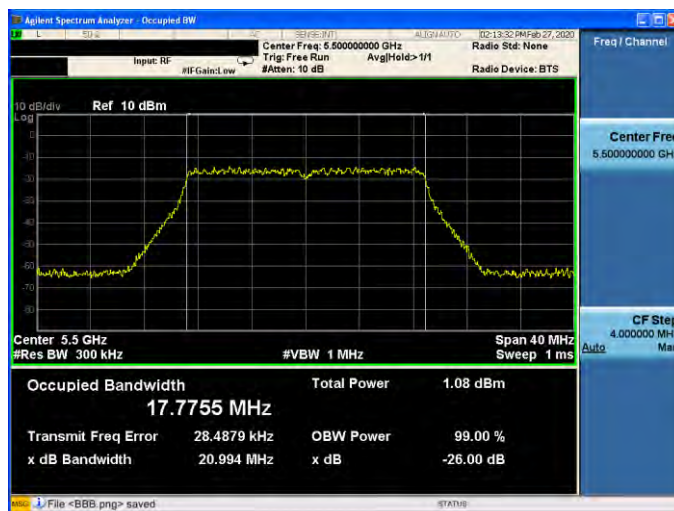




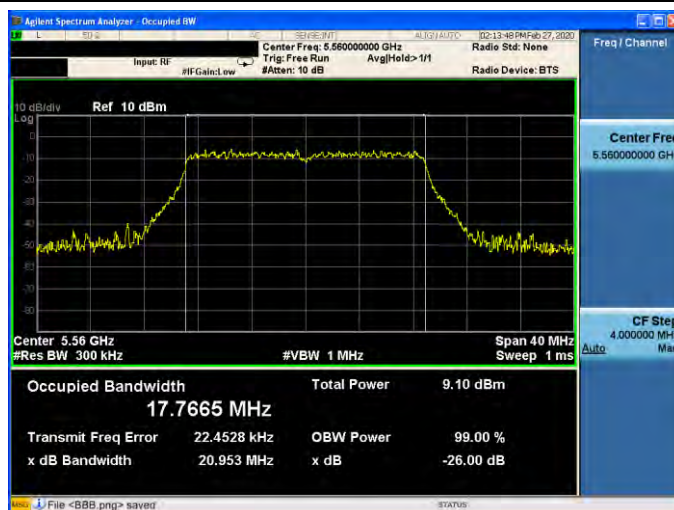
Mode 9: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-1	
CH52	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.260000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input RF #IF Gain: 1.00 #Atten: 10 dB Ref 10 dBm Center 5.26 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.7638 MHz Total Power 8.03 dBm Transmit Freq Error 13.7826 kHz OBW Power 99.00 % x dB Bandwidth 21.020 MHz x dB -26.00 dB File <BBB.png> saved
CH56	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.280000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input RF #IF Gain: 1.00 #Atten: 10 dB Ref 10 dBm Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.7914 MHz Total Power 8.06 dBm Transmit Freq Error 6.3651 kHz OBW Power 99.00 % x dB Bandwidth 21.073 MHz x dB -26.00 dB File <BBB.png> saved
CH64	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.320000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input RF #IF Gain: 1.00 #Atten: 10 dB Ref 10 dBm Center 5.32 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.7523 MHz Total Power 0.77 dBm Transmit Freq Error 21.1084 kHz OBW Power 99.00 % x dB Bandwidth 21.018 MHz x dB -26.00 dB File <BBB.png> saved

Mode 9: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-1

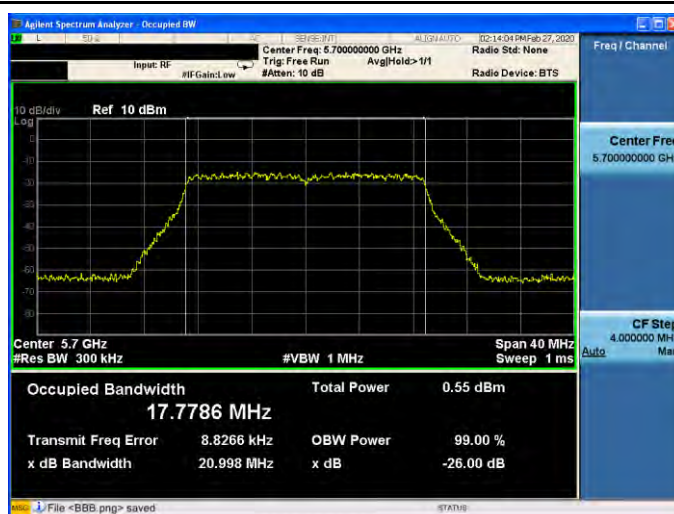
CH100



CH112

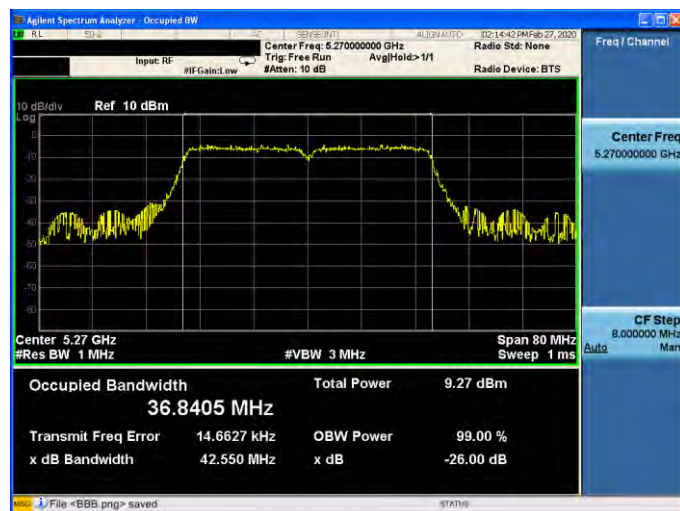


CH140



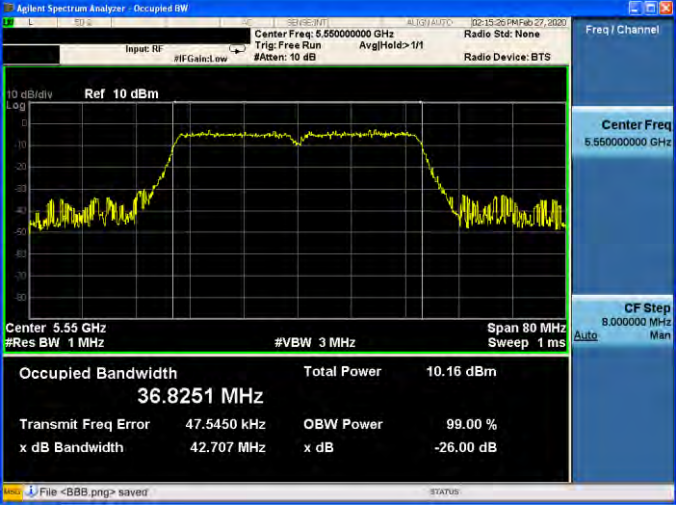
Mode 10: IEEE 802.11n 5 GHz 40 MHz Continuous TX Mode_ANT-1

CH54



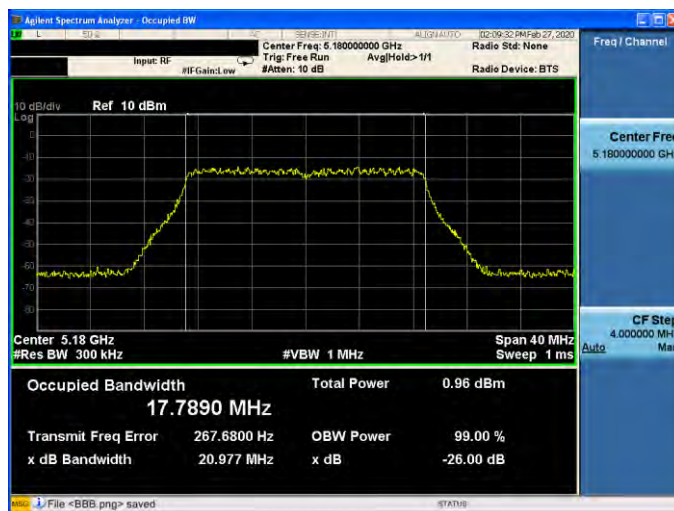
CH62



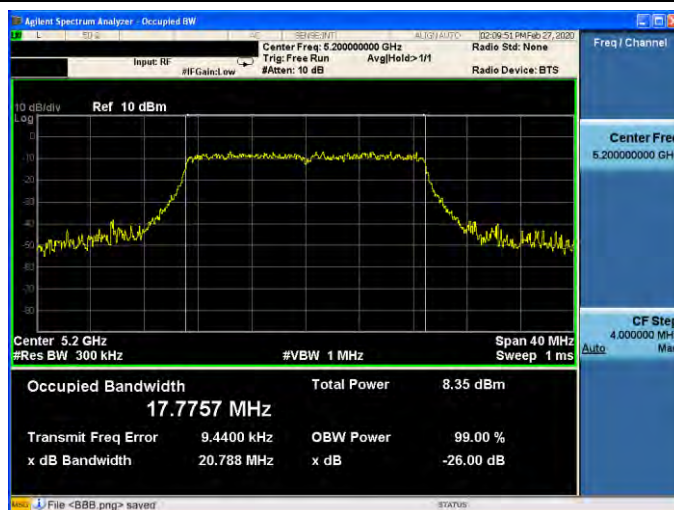
Mode 10: IEEE 802.11n 5 GHz 40 MHz Continuous TX Mode_ANT-1	
CH102	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.510000000 GHz Trig: Free Run AvalHold: 1/1 Radio Stat: None Radio Device: BTS 10 dB/div Ref 10 dBm Center 5.51 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 36.7703 MHz Total Power 2.00 dBm Transmit Freq Error 25.4604 kHz OBW Power 99.00 % x dB Bandwidth 42.155 MHz x dB -26.00 dB File <BBB.png> saved
CH110	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.550000000 GHz Trig: Free Run AvalHold: 1/1 Radio Stat: None Radio Device: BTS 10 dB/div Ref 10 dBm Center 5.55 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 36.8251 MHz Total Power 10.16 dBm Transmit Freq Error 47.5450 kHz OBW Power 99.00 % x dB Bandwidth 42.707 MHz x dB -26.00 dB File <BBB.png> saved
CH134	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.670000000 GHz Trig: Free Run AvalHold: 1/1 Radio Stat: None Radio Device: BTS 10 dB/div Ref 10 dBm Center 5.67 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 36.7802 MHz Total Power 1.27 dBm Transmit Freq Error 14.7511 kHz OBW Power 99.00 % x dB Bandwidth 42.763 MHz x dB -26.00 dB File <BBB.png> saved

Mode 11: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

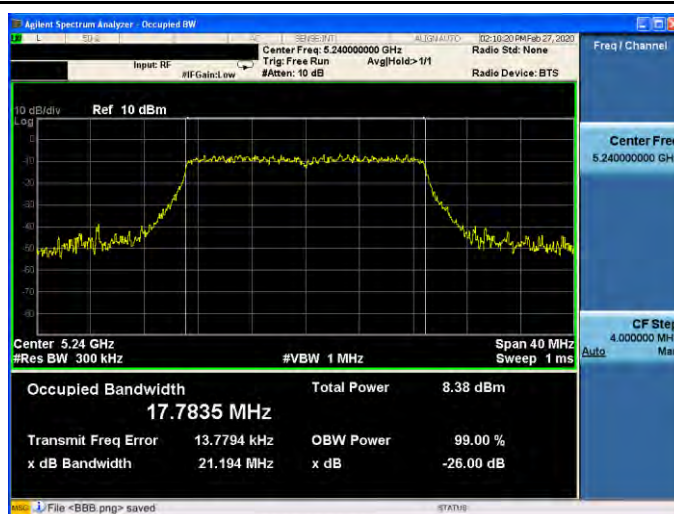
CH36

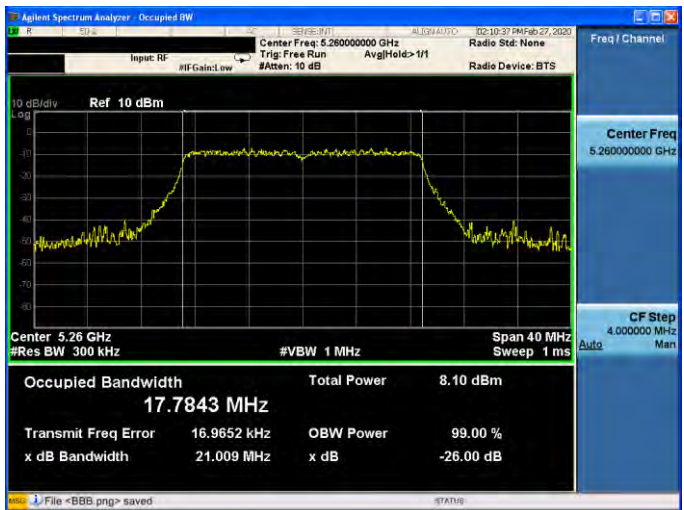
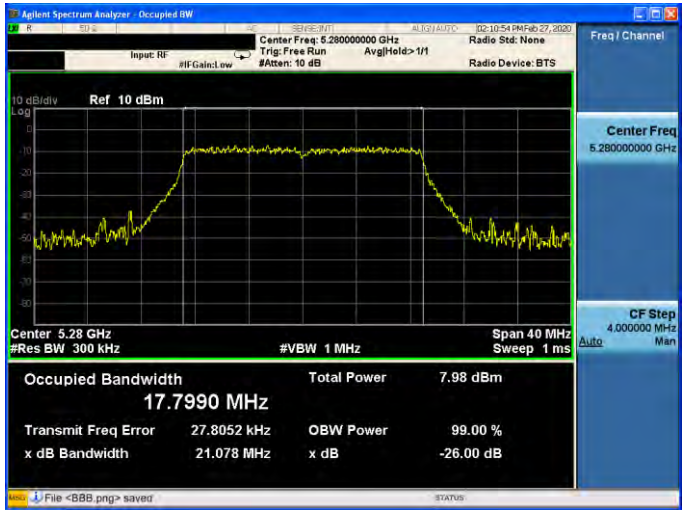
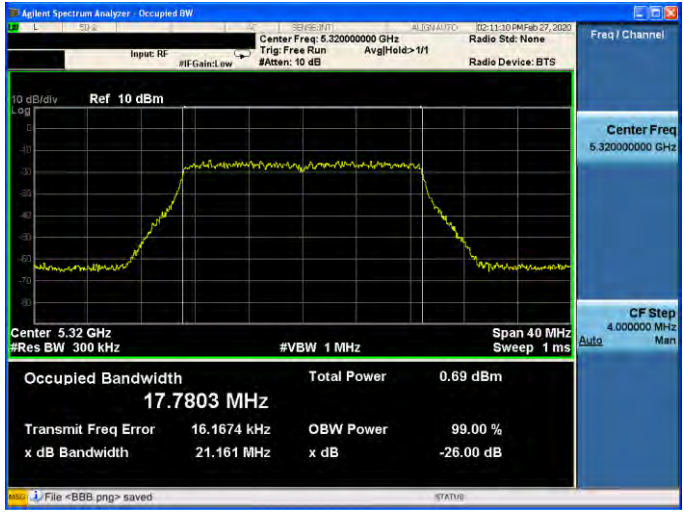


CH40



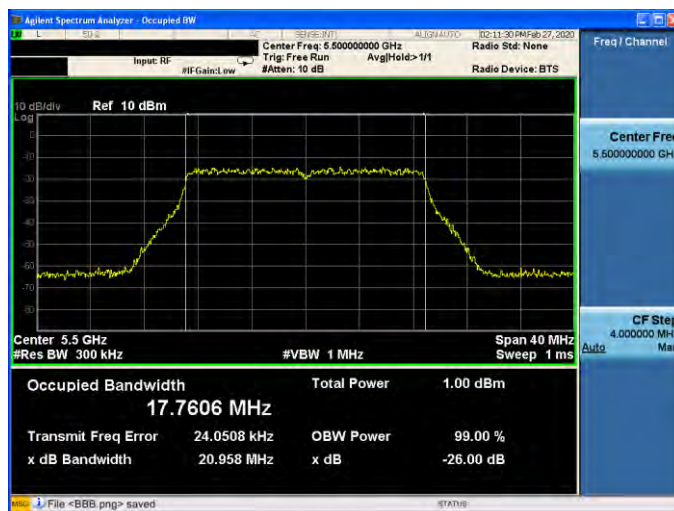
CH48



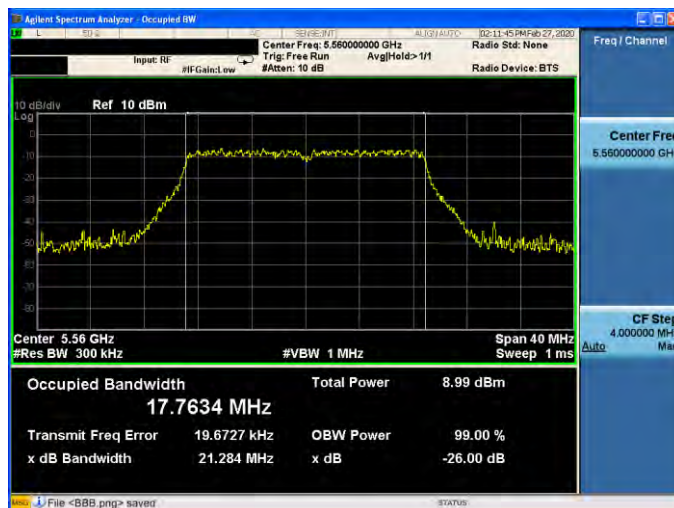
Mode 11: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1	
CH52	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.260000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input RF #IF Gain: 1.00 #Atten: 10 dB 10 dB/div Ref 10 dBm Center 5.26 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.7843 MHz Total Power 8.10 dBm Transmit Freq Error 16.9652 kHz OBW Power 99.00 % x dB Bandwidth 21.009 MHz x dB -26.00 dB File <BBB.png> saved
CH56	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.280000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input RF #IF Gain: 1.00 #Atten: 10 dB 10 dB/div Ref 10 dBm Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.7990 MHz Total Power 7.98 dBm Transmit Freq Error 27.8052 kHz OBW Power 99.00 % x dB Bandwidth 21.078 MHz x dB -26.00 dB File <BBB.png> saved
CH64	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.320000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input RF #IF Gain: 1.00 #Atten: 10 dB 10 dB/div Ref 10 dBm Center 5.32 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 17.7803 MHz Total Power 0.69 dBm Transmit Freq Error 16.1674 kHz OBW Power 99.00 % x dB Bandwidth 21.161 MHz x dB -26.00 dB File <BBB.png> saved

Mode 11: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

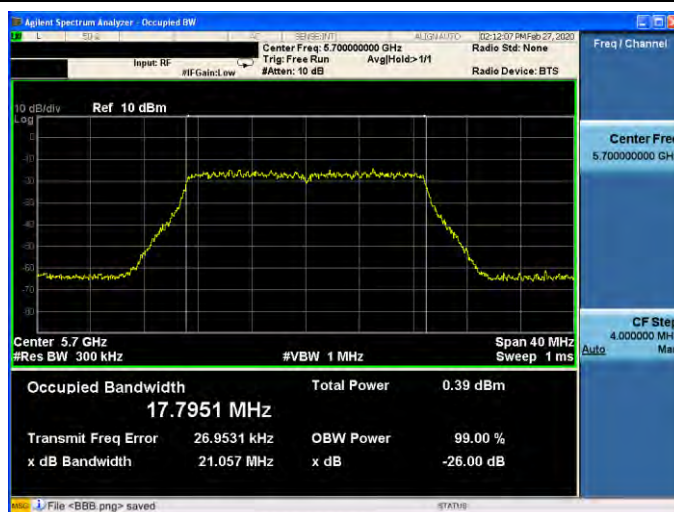
CH100



CH112



CH140

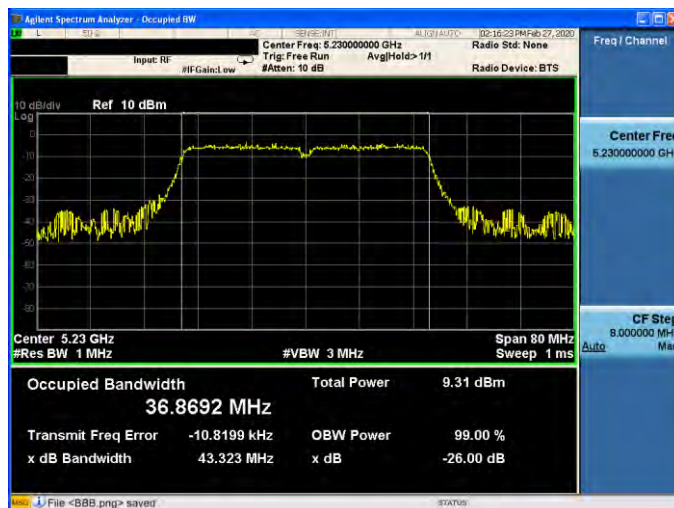


Mode 12: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1

CH38

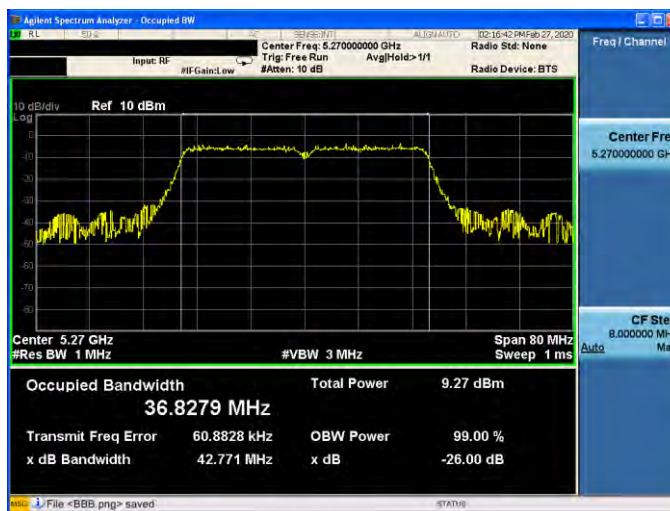


CH46

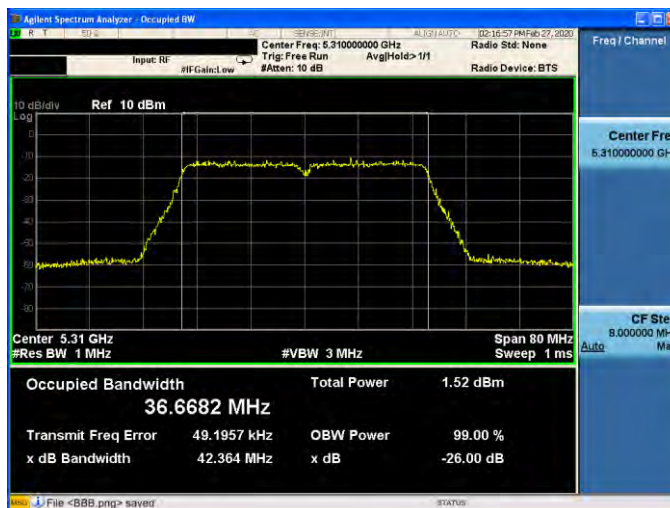


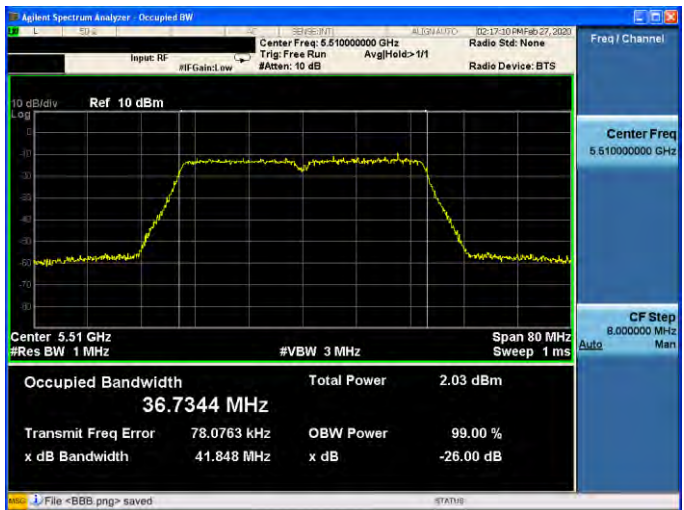
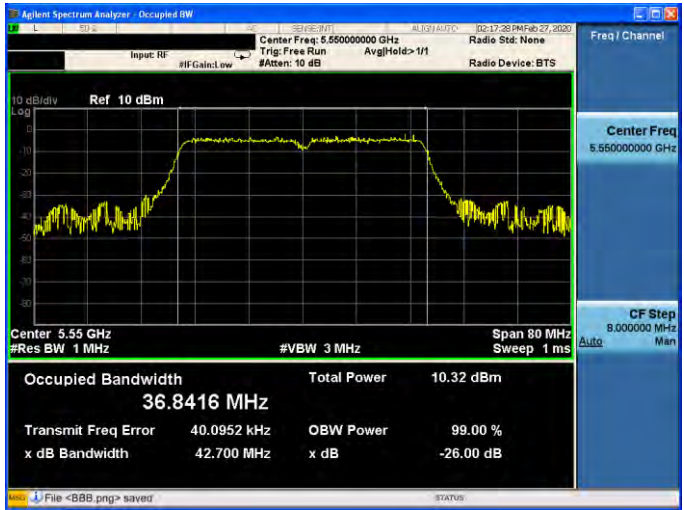
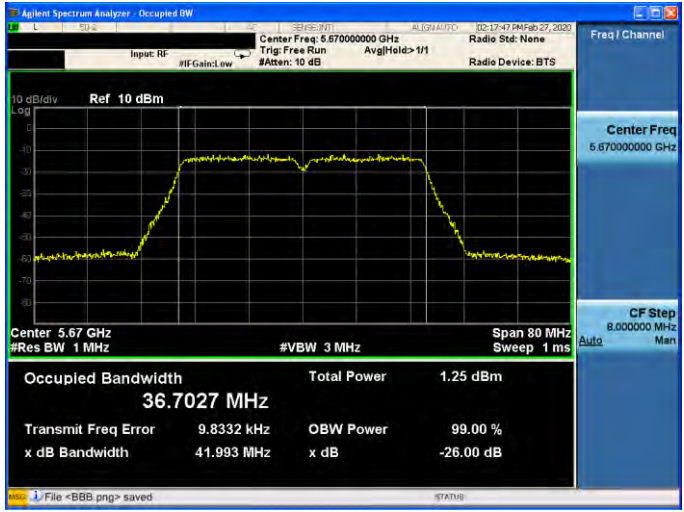
Mode 12: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1

CH54



CH62



Mode 12: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1	
CH102	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.510000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 10 dBm Center 5.51 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 36.7344 MHz Total Power 2.03 dBm Transmit Freq Error 78.0763 kHz OBW Power 99.00 % x dB Bandwidth 41.848 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH110	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.550000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 10 dBm Center 5.55 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 36.8416 MHz Total Power 10.32 dBm Transmit Freq Error 40.0952 kHz OBW Power 99.00 % x dB Bandwidth 42.700 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH134	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.670000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 10 dBm Center 5.67 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 36.7027 MHz Total Power 1.25 dBm Transmit Freq Error 9.8332 kHz OBW Power 99.00 % x dB Bandwidth 41.993 MHz x dB -26.00 dB File <BBB.png> saved STATUS

Mode 13: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-1

CH42

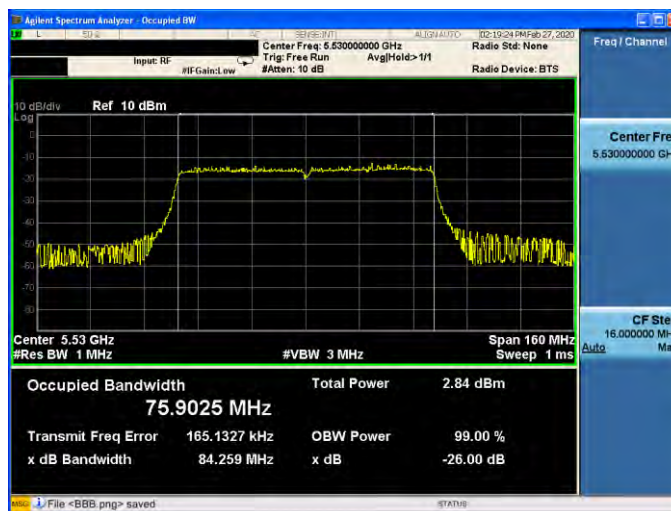


CH58

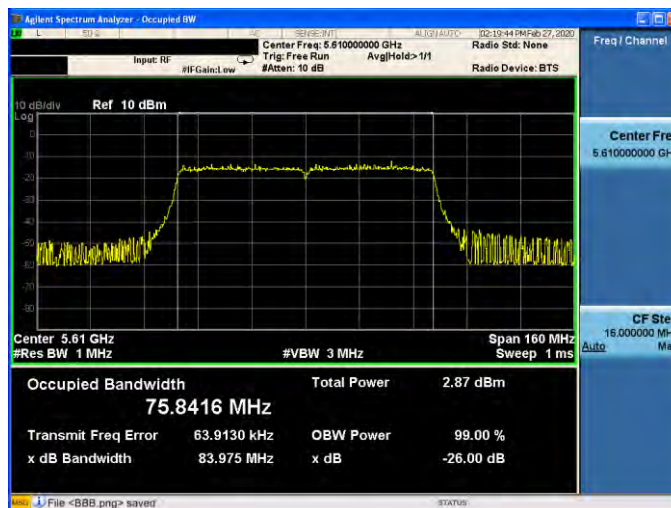


Mode 13: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-1

CH106

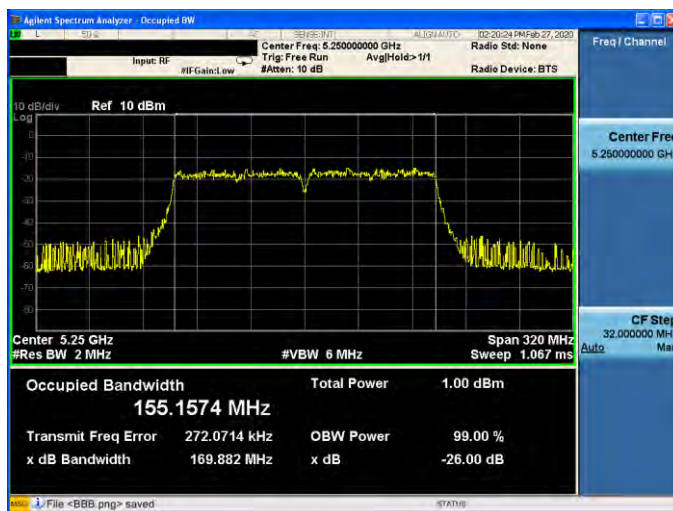


CH122

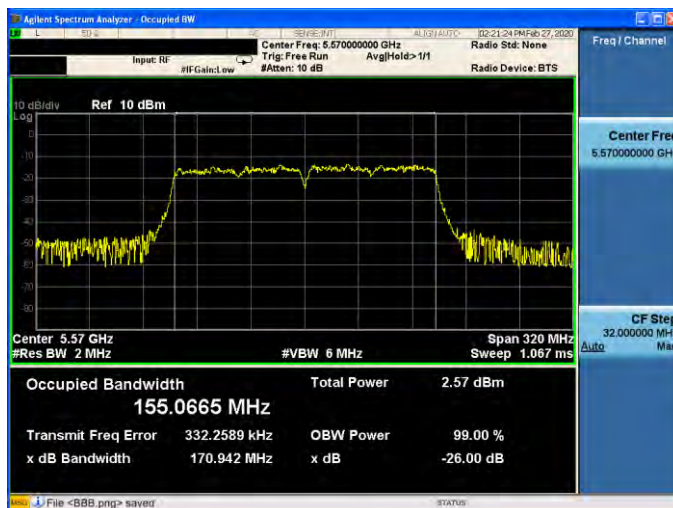


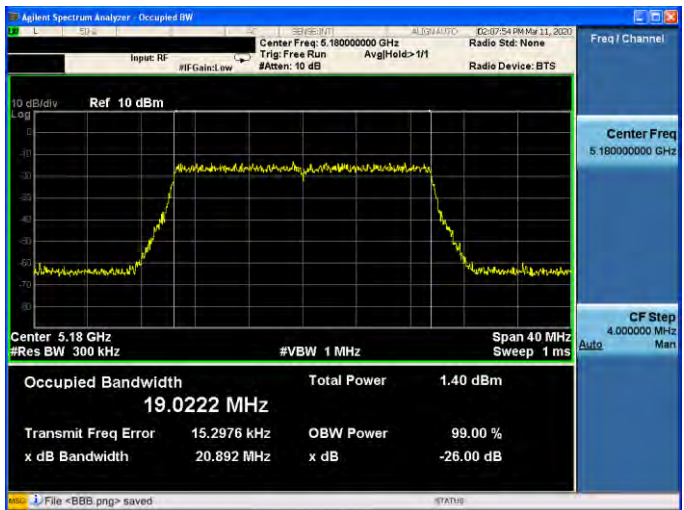
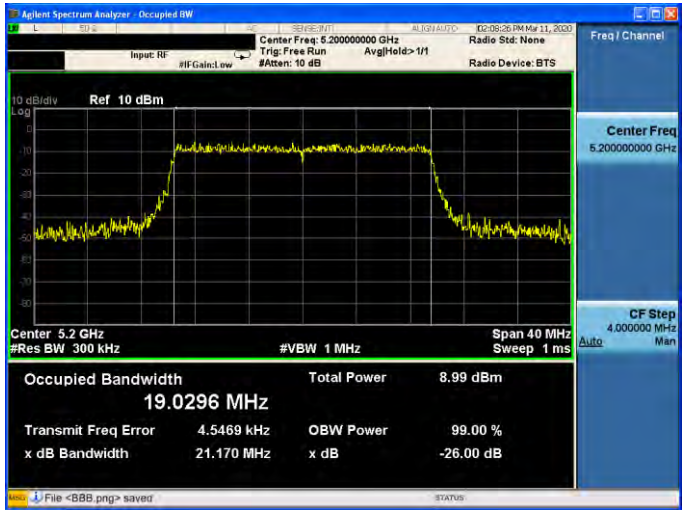
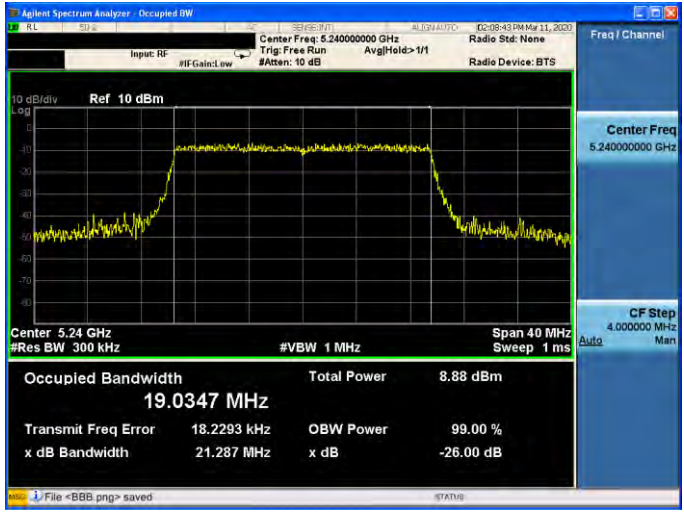
Mode 14: IEEE 802.11ac 160 MHz Continuous TX Mode_ANT-1

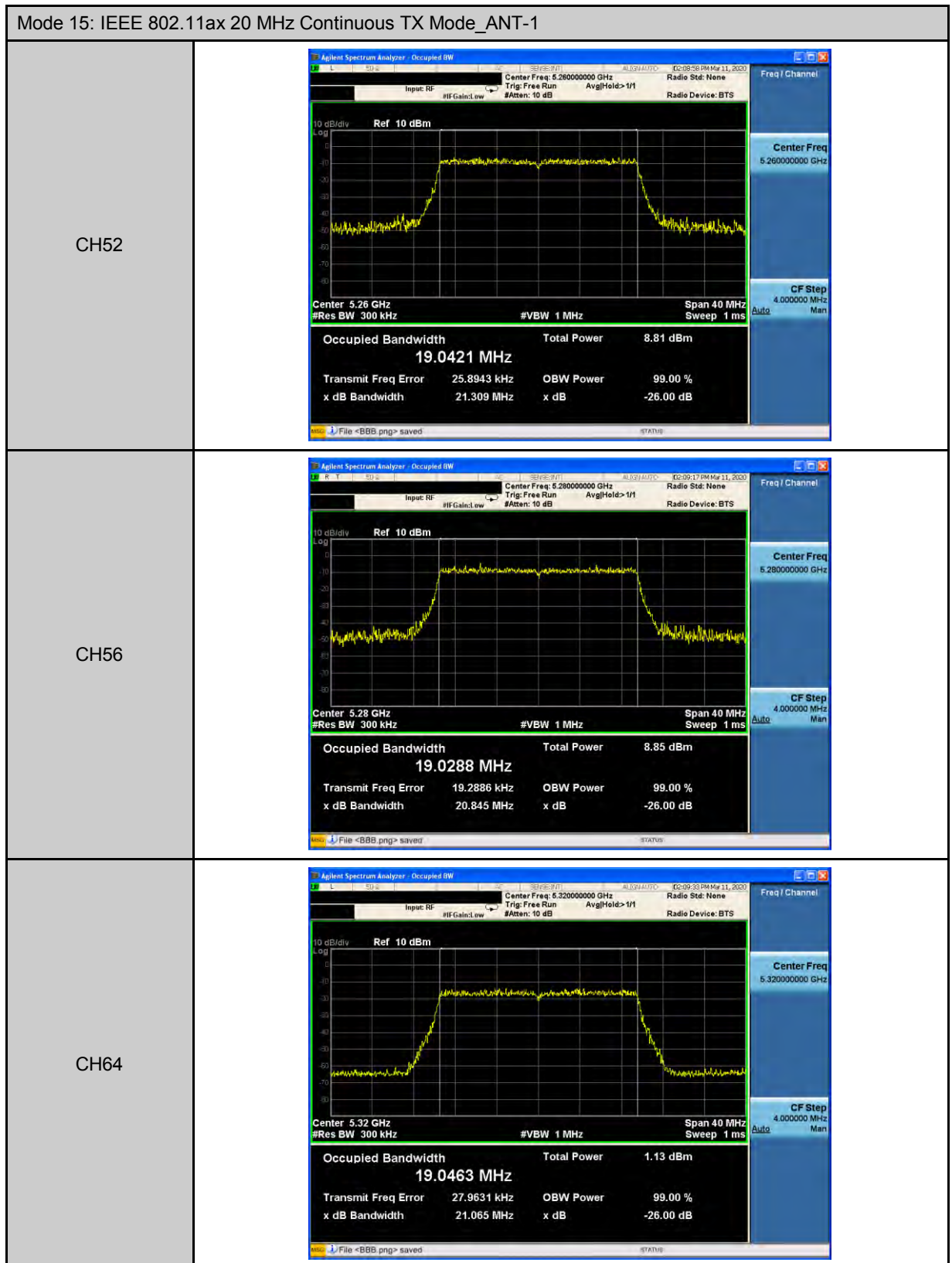
CH50

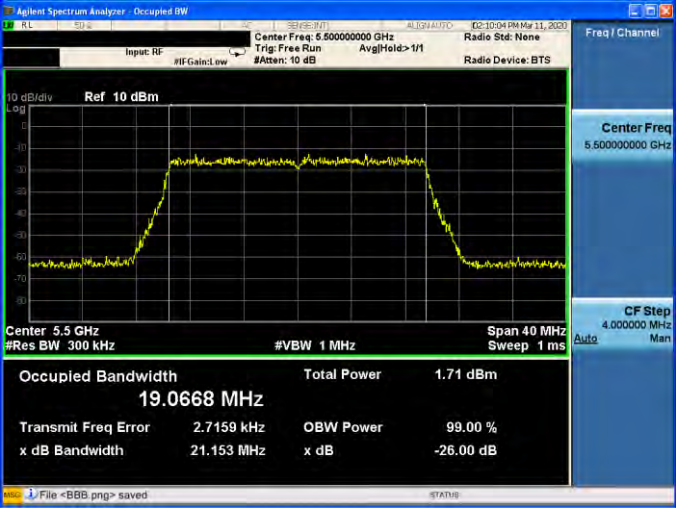
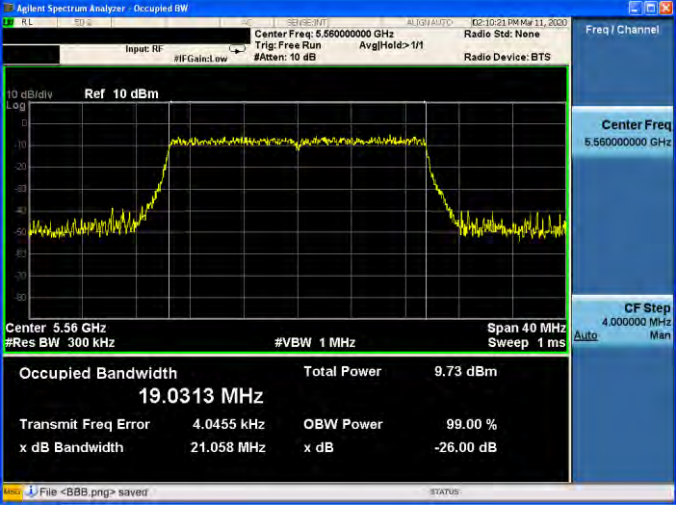
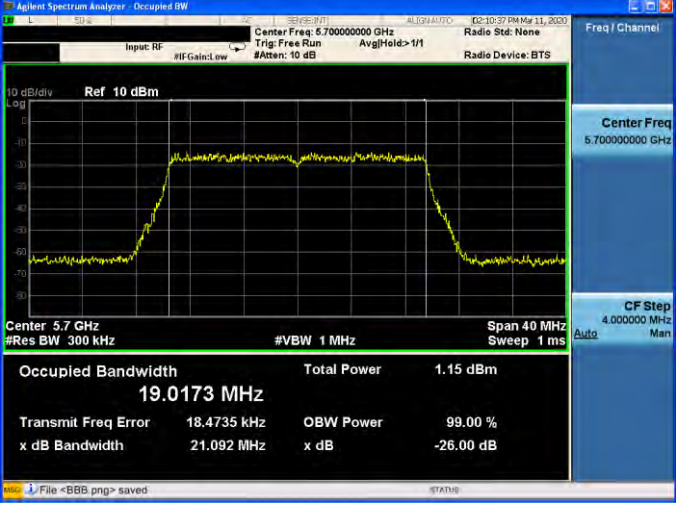


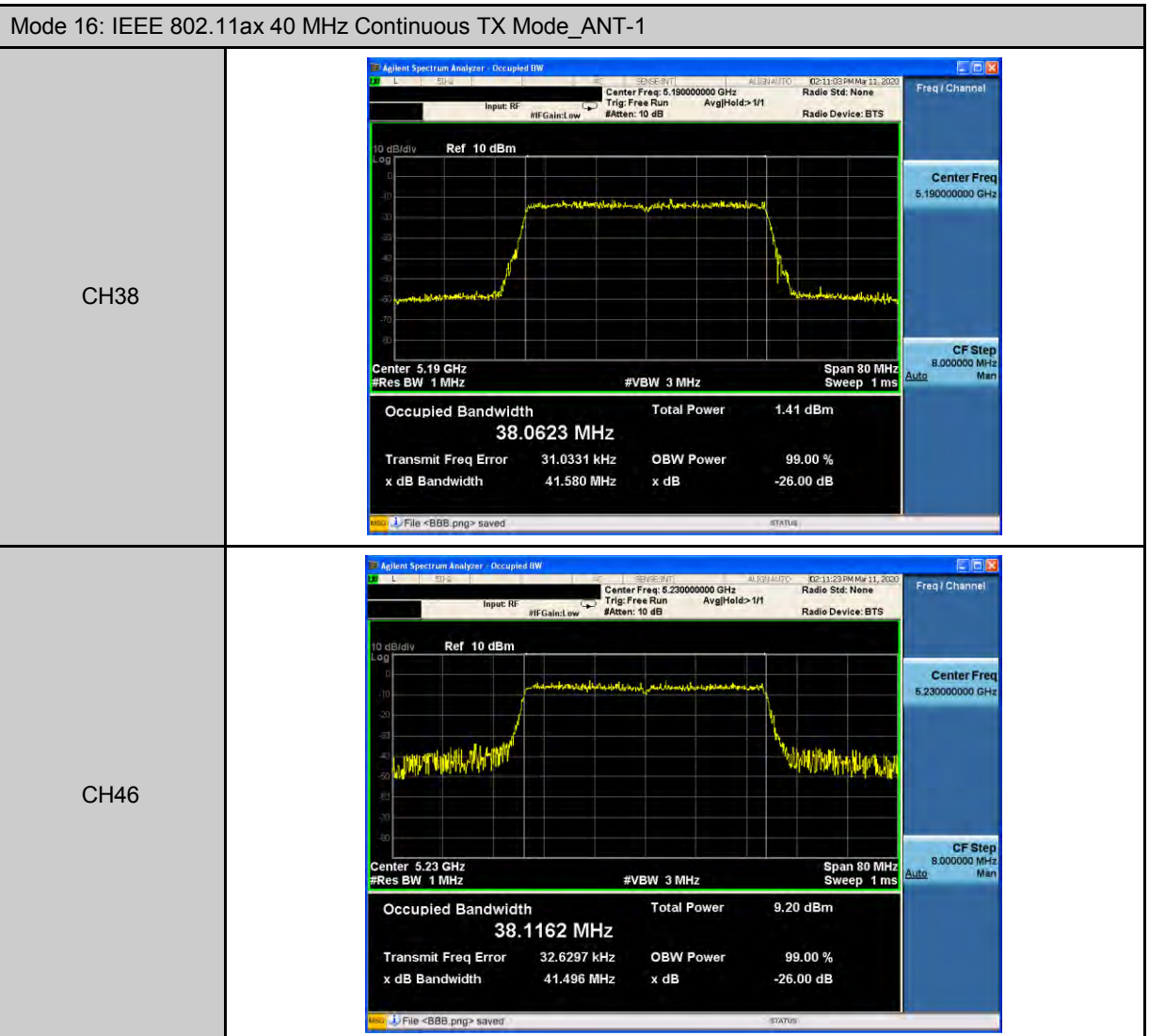
CH114



Mode 15: IEEE 802.11ax 20 MHz Continuous TX Mode_ANT-1	
CH36	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.180000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input RF #IF Gain: 1.00 #Atten: 10 dB 10 dB/div Ref 10 dBm Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 19.0222 MHz Total Power 1.40 dBm Transmit Freq Error 15.2976 kHz OBW Power 99.00 % x dB Bandwidth 20.892 MHz x dB -26.00 dB File <BBB.png> saved
CH40	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.200000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input RF #IF Gain: 1.00 #Atten: 10 dB 10 dB/div Ref 10 dBm Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 19.0296 MHz Total Power 8.99 dBm Transmit Freq Error 4.5469 kHz OBW Power 99.00 % x dB Bandwidth 21.170 MHz x dB -26.00 dB File <BBB.png> saved
CH48	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.240000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Input RF #IF Gain: 1.00 #Atten: 10 dB 10 dB/div Ref 10 dBm Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 19.0347 MHz Total Power 8.88 dBm Transmit Freq Error 18.2293 kHz OBW Power 99.00 % x dB Bandwidth 21.287 MHz x dB -26.00 dB File <BBB.png> saved

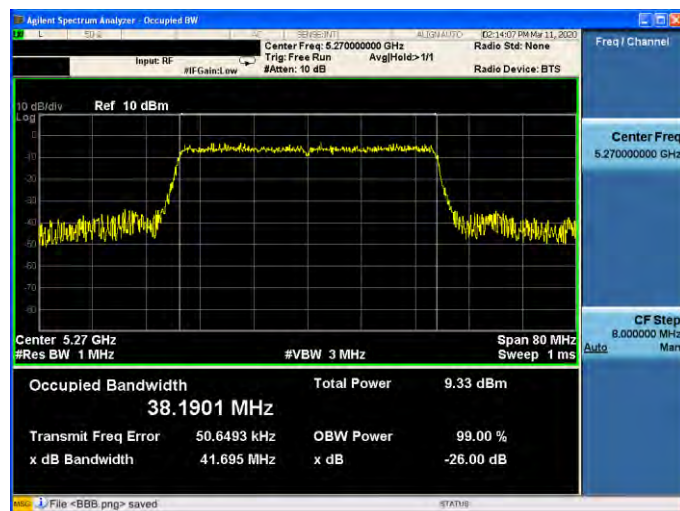


Mode 15: IEEE 802.11ax 20 MHz Continuous TX Mode_ANT-1	
CH100	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.500000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 10 dBm Center 5.5 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 19.0668 MHz Total Power 1.71 dBm Transmit Freq Error 2.7459 kHz OBW Power 99.00 % x dB Bandwidth 21.153 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH112	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.560000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 10 dBm Center 5.56 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 19.0313 MHz Total Power 9.73 dBm Transmit Freq Error 4.0455 kHz OBW Power 99.00 % x dB Bandwidth 21.058 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH140	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.700000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 10 dBm Center 5.7 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 19.0173 MHz Total Power 1.15 dBm Transmit Freq Error 18.4735 kHz OBW Power 99.00 % x dB Bandwidth 21.092 MHz x dB -26.00 dB File <BBB.png> saved STATUS

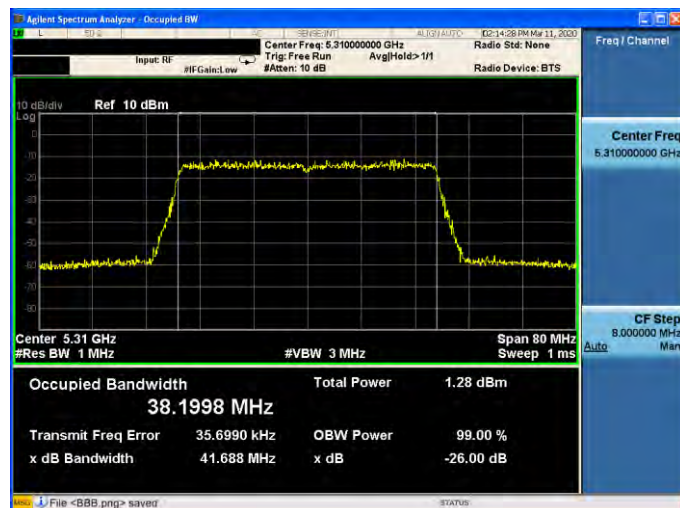


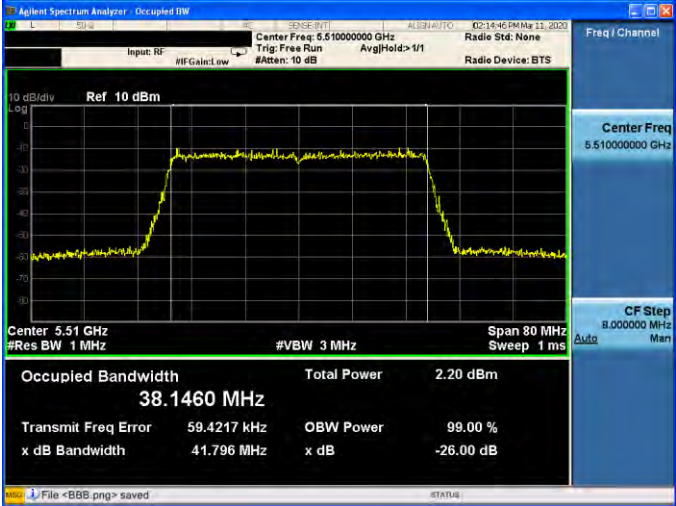
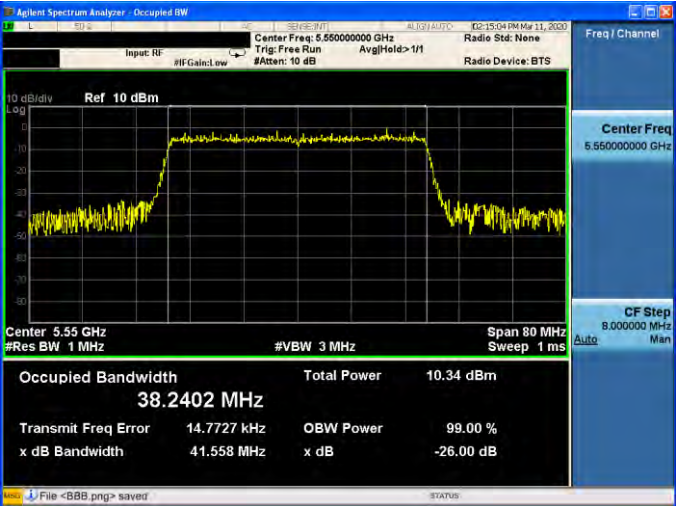
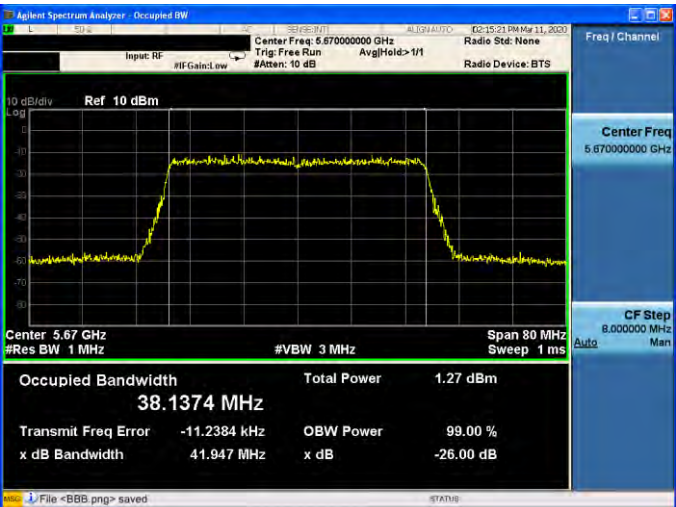
Mode 16: IEEE 802.11ax 40 MHz Continuous TX Mode_ANT-1

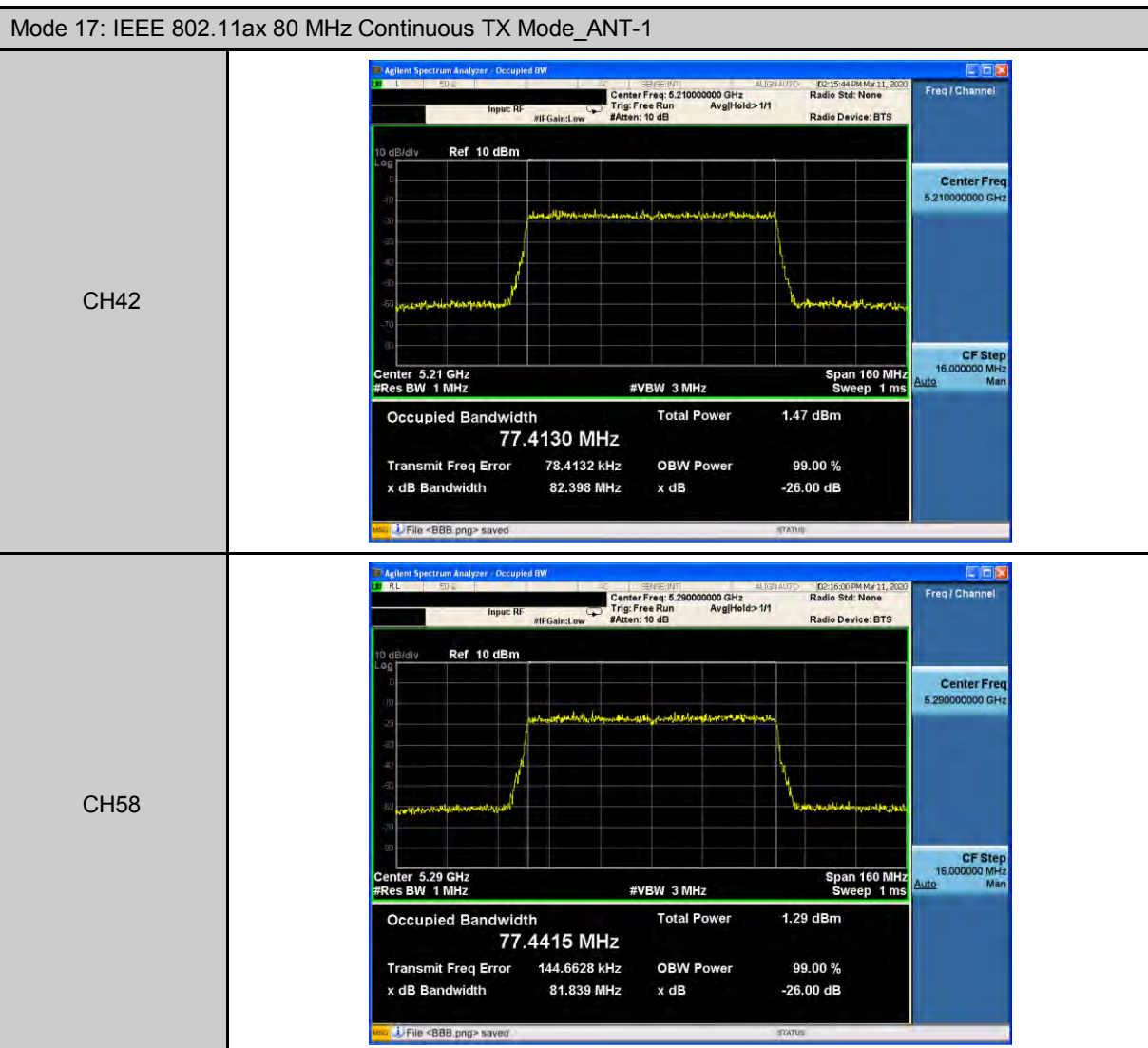
CH54



CH62



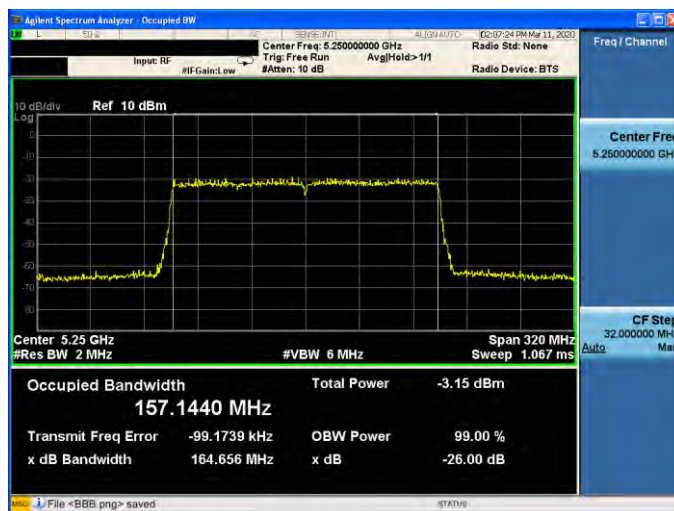
Mode 16: IEEE 802.11ax 40 MHz Continuous TX Mode_ANT-1	
CH102	
CH110	
CH134	



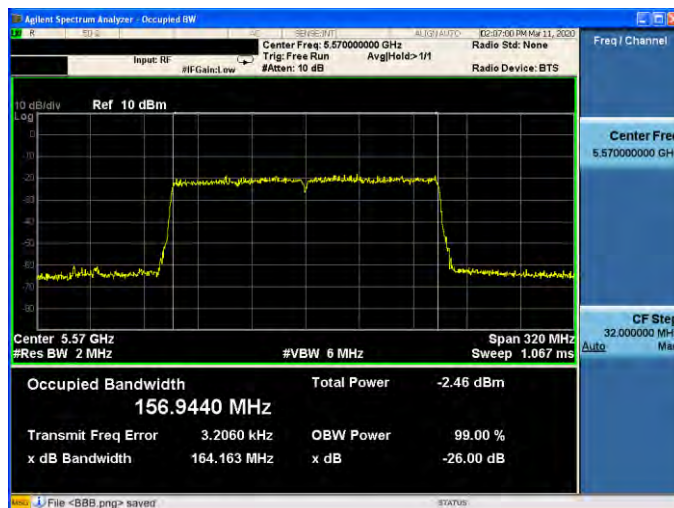


Mode 18: IEEE 802.11ax 160 MHz Continuous TX Mode_ANT-1

CH50



CH114

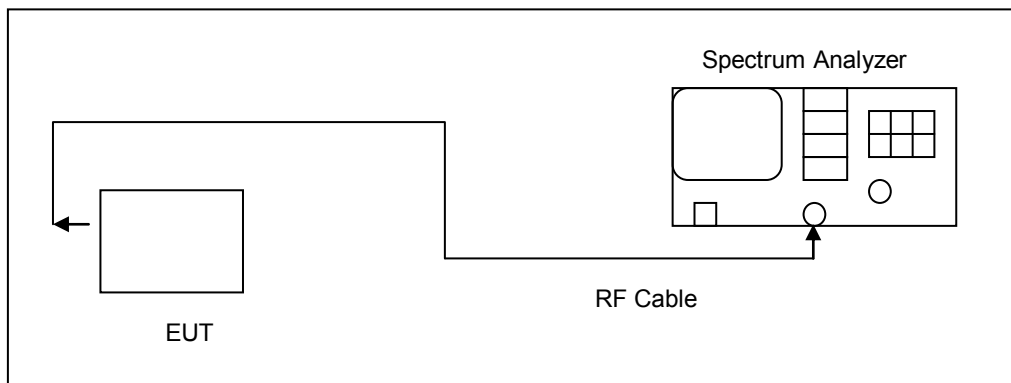


4.3.5 6 dB頻寬之要求

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 8 / Mode 11 / Mode 12 / Mode 13 / Mode 15 / Mode 16 / Mode 17
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 8	149	5745.0	16439	16406	≥ 500
	157	5785.0	16404	16436	≥ 500
	165	5825.0	16416	16416	≥ 500
Mode 11	149	5745.0	17648	17647	≥ 500
	157	5785.0	17624	17639	≥ 500
	165	5825.0	17638	17623	≥ 500
Mode 12	151	5755.0	36429	36443	≥ 500
	159	5795.0	36438	36462	≥ 500
Mode 13	155	5775.0	76335	76366	≥ 500
Mode 15	149	5745.0	19002	18987	≥ 500
	157	5785.0	19039	18988	≥ 500
	165	5825.0	18982	18993	≥ 500
Mode 16	151	5755.0	37991	38040	≥ 500
	159	5795.0	38087	38002	≥ 500
Mode 17	155	5775.0	78180	78050	≥ 500

Mode 8: IEEE 802.11a Continuous TX Mode_ANT-0

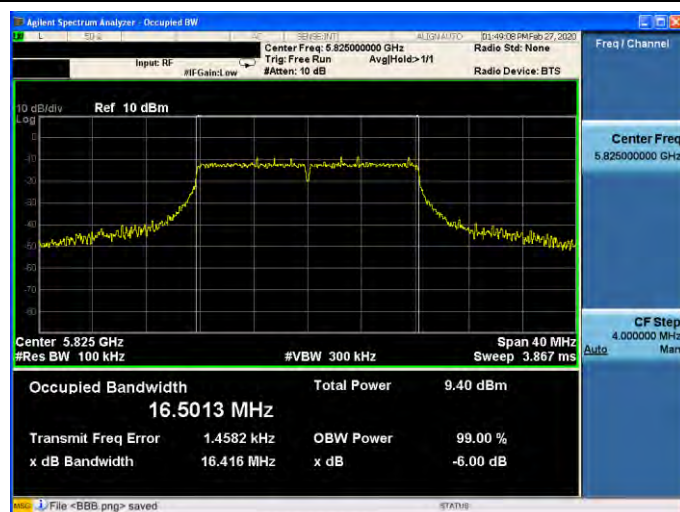
CH149



CH157

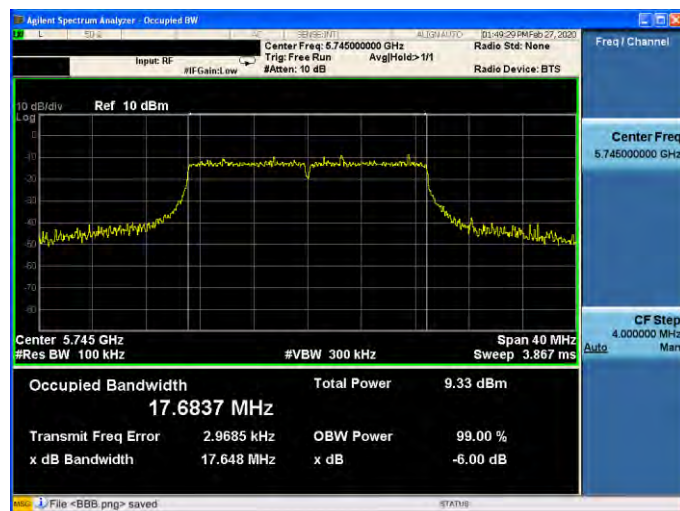


CH165

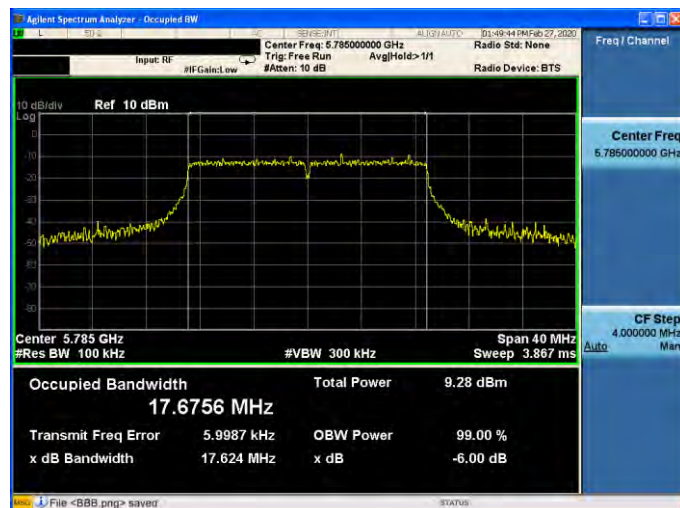


Mode 11: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

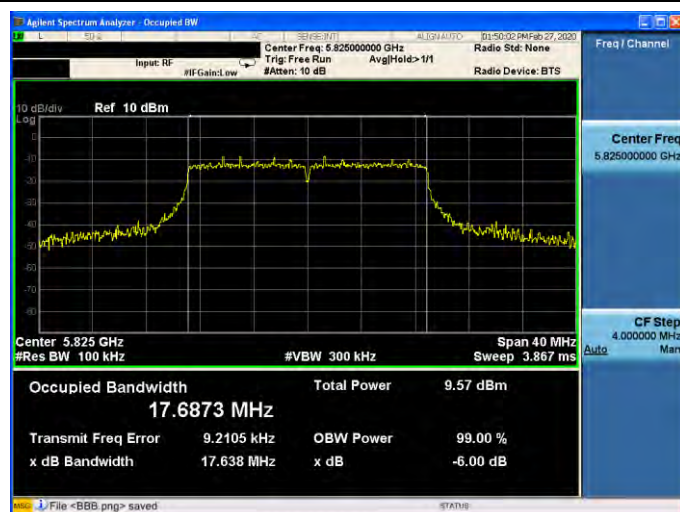
CH149



CH157

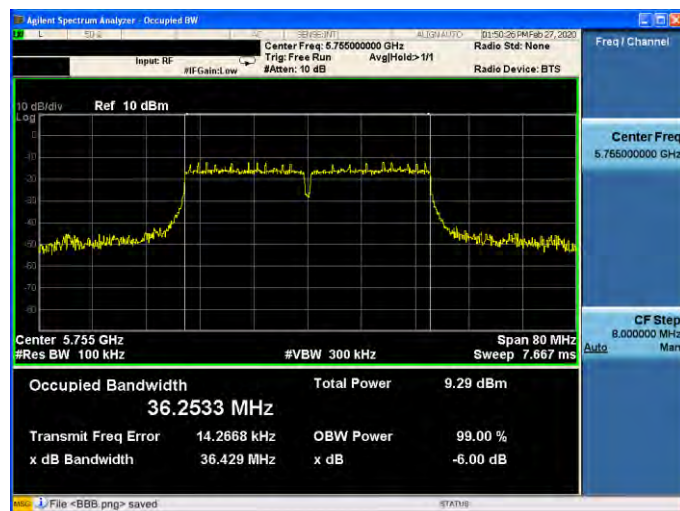


CH165

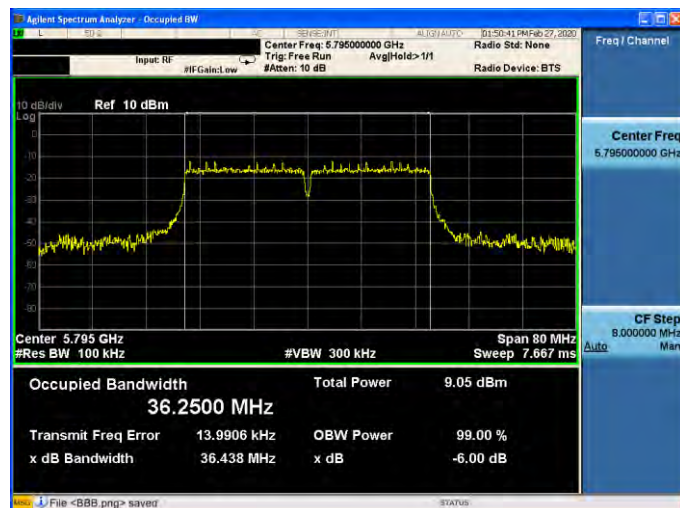


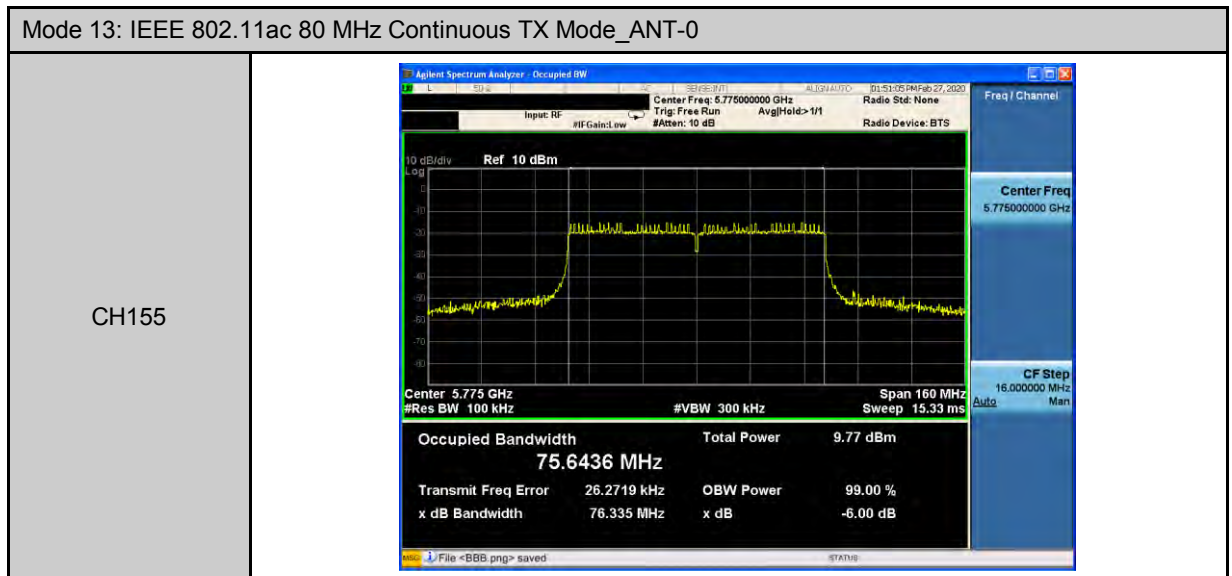
Mode 12: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

CH151



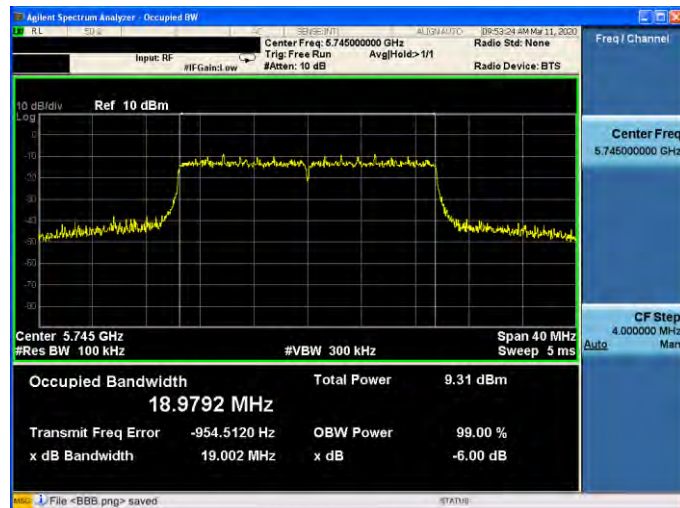
CH159



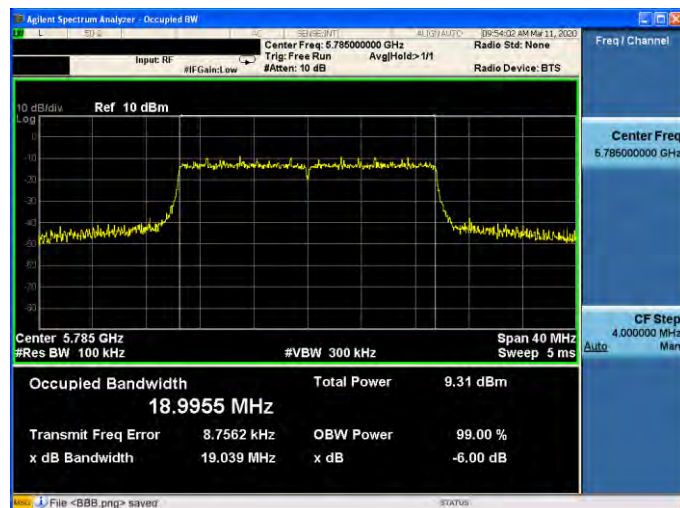


Mode 15: IEEE 802.11ax 20 MHz Continuous TX Mode_ANT-0

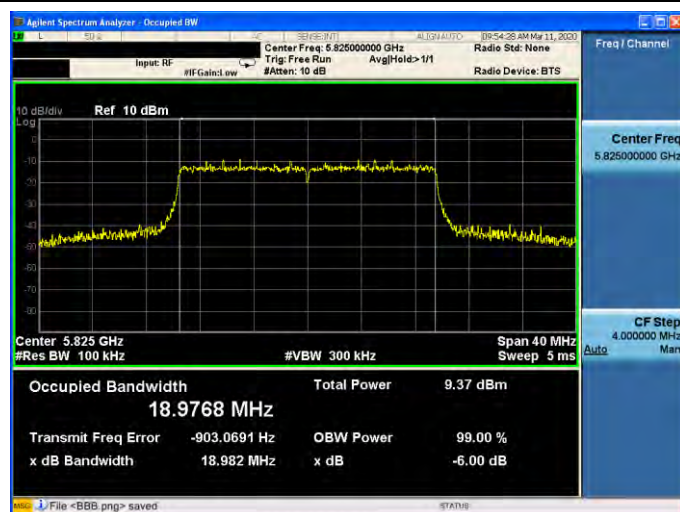
CH149



CH157

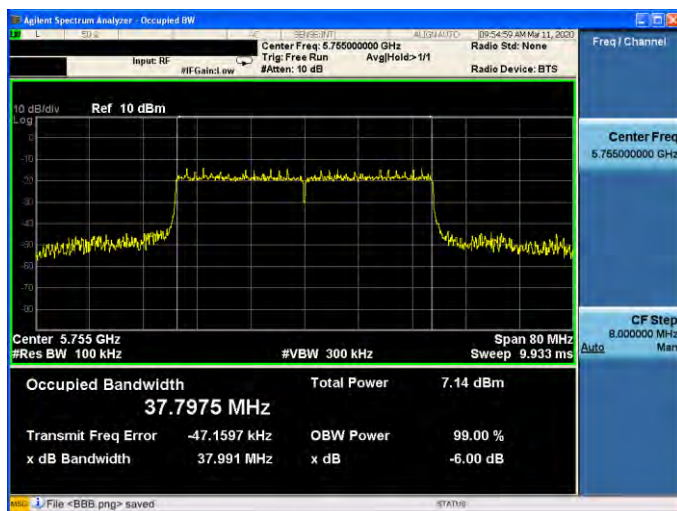


CH165

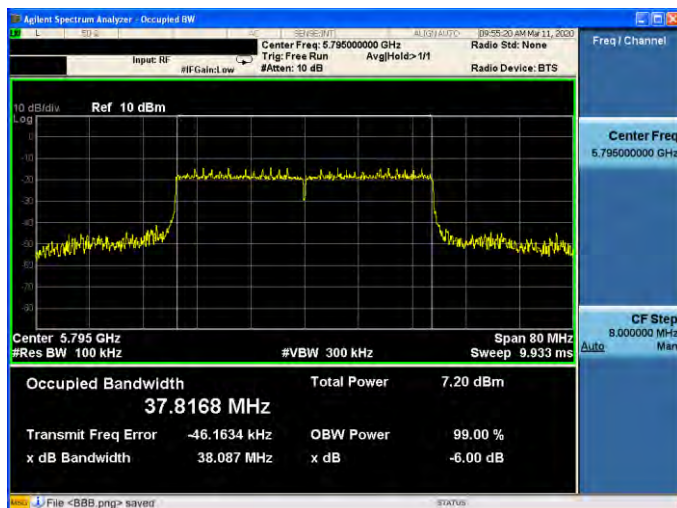


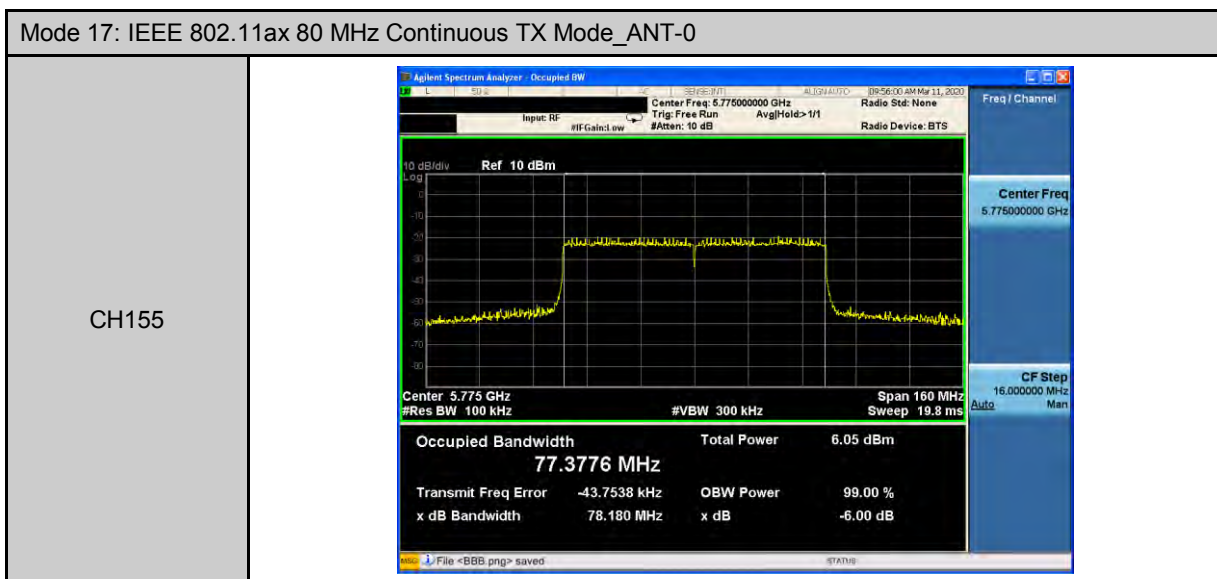
Mode 16: IEEE 802.11ax 40 MHz Continuous TX Mode_ANT-0

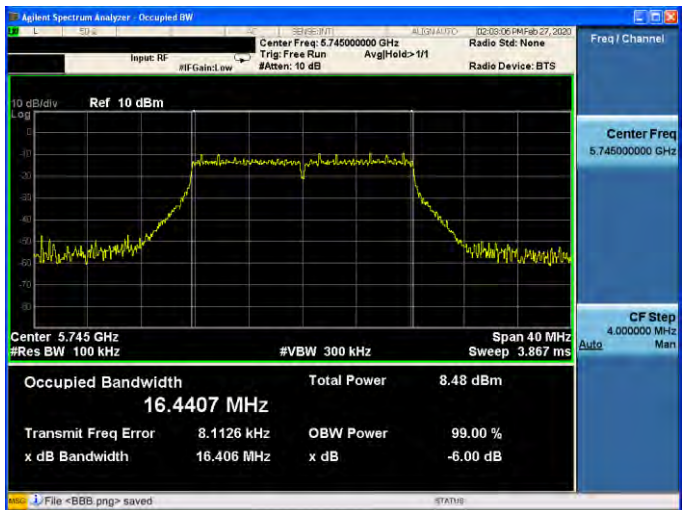
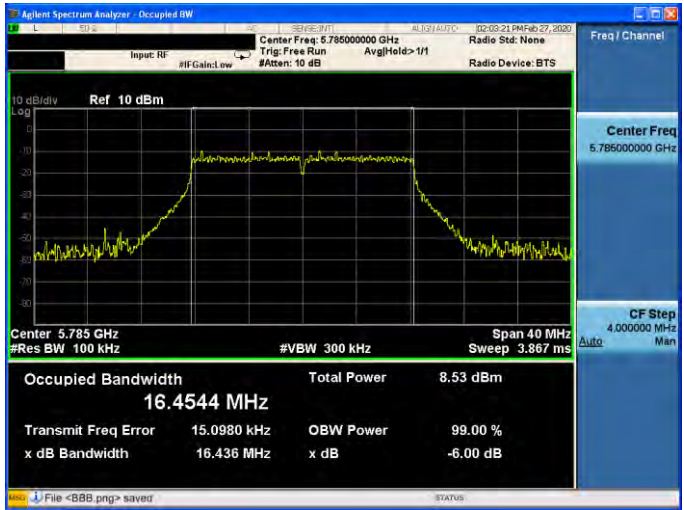
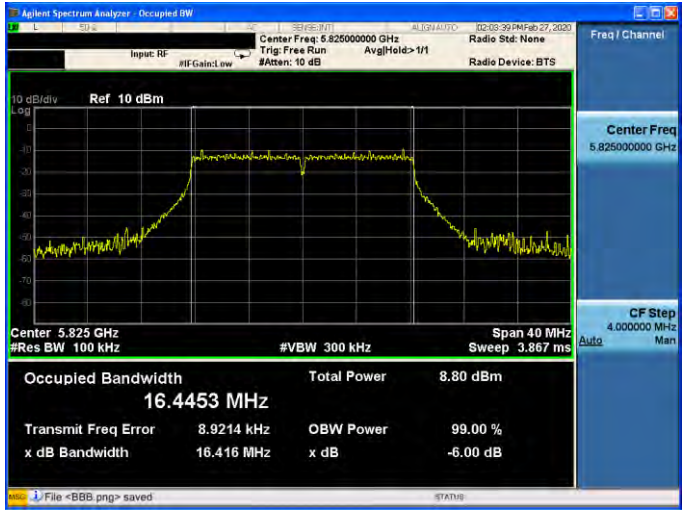
CH151



CH159

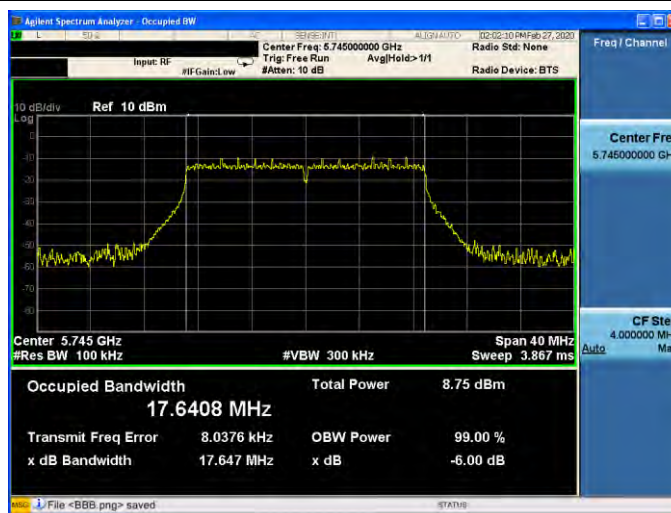




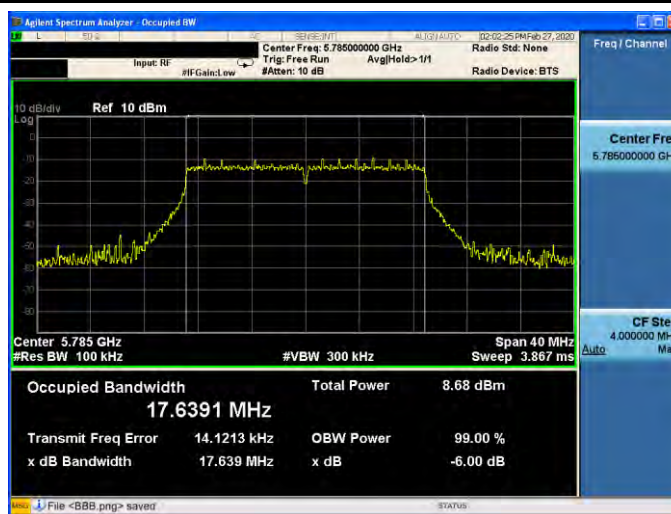
Mode 8: IEEE 802.11a Continuous TX Mode_ANT-1	
CH149	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.745000000 GHz Trig: Free Run #Att: 10 dB Avg/Hold: 1/1 Radio Device: BTS Ref 10 dBm Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 16.4407 MHz Total Power 8.48 dBm Transmit Freq Error 8.1126 kHz OBW Power 99.00 % x dB Bandwidth 16.406 MHz x dB -6.00 dB File <BBB.png> saved
CH157	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.785000000 GHz Trig: Free Run #Att: 10 dB Avg/Hold: 1/1 Radio Device: BTS Ref 10 dBm Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 16.4544 MHz Total Power 8.53 dBm Transmit Freq Error 15.0980 kHz OBW Power 99.00 % x dB Bandwidth 16.436 MHz x dB -6.00 dB File <BBB.png> saved
CH165	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.825000000 GHz Trig: Free Run #Att: 10 dB Avg/Hold: 1/1 Radio Device: BTS Ref 10 dBm Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 16.4453 MHz Total Power 8.80 dBm Transmit Freq Error 8.9214 kHz OBW Power 99.00 % x dB Bandwidth 16.416 MHz x dB -6.00 dB File <BBB.png> saved

Mode 11: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

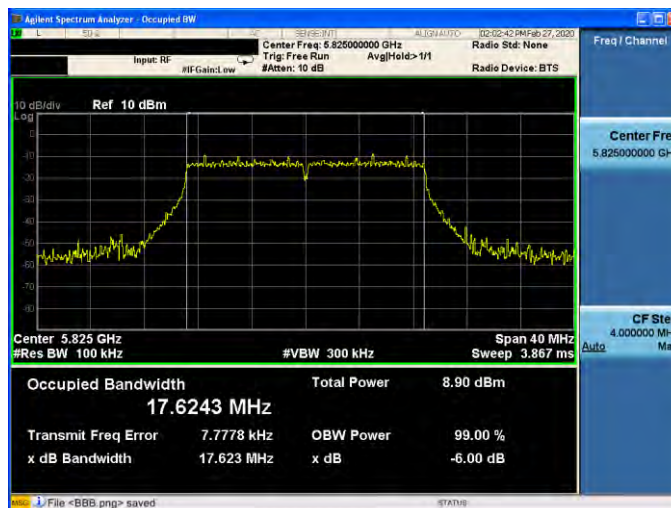
CH149

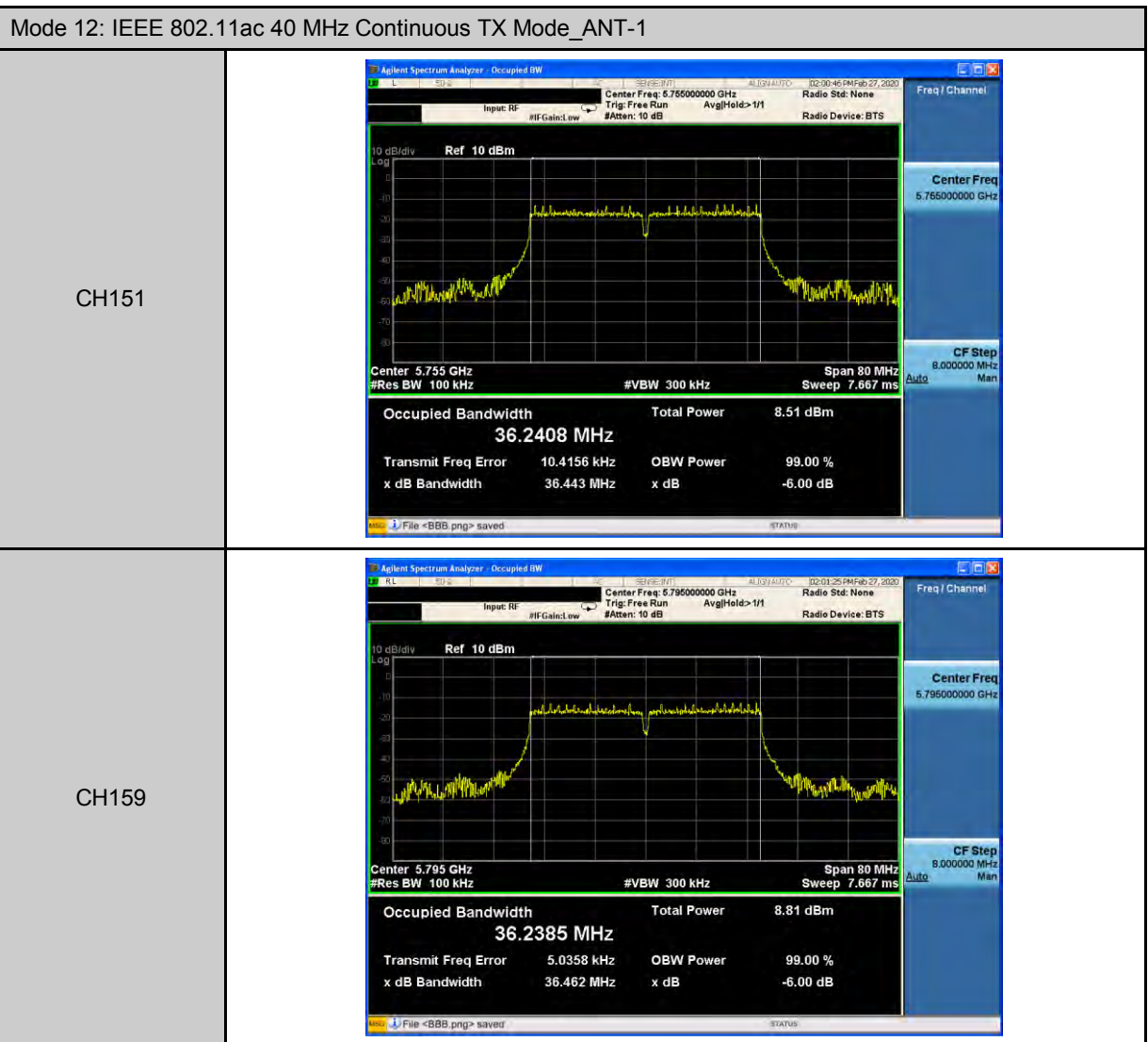


CH157



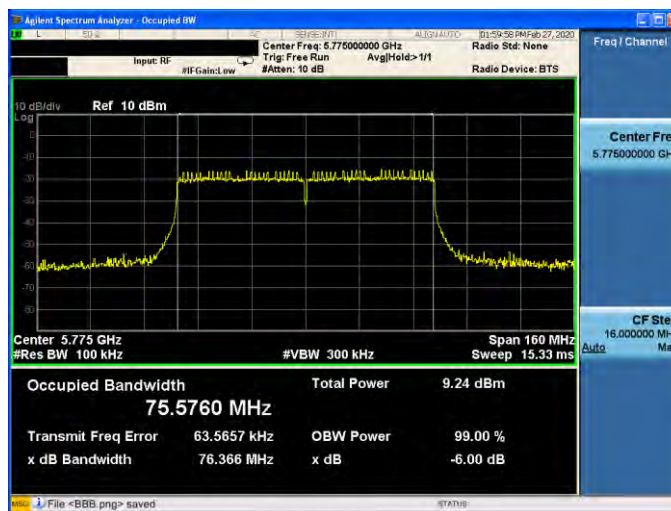
CH165

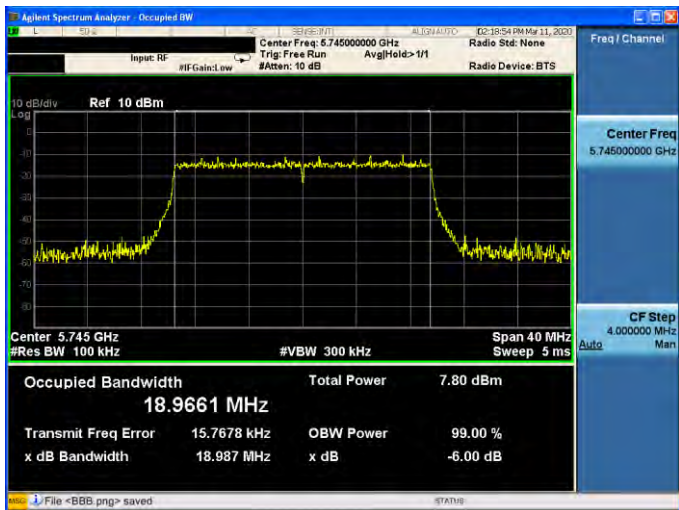
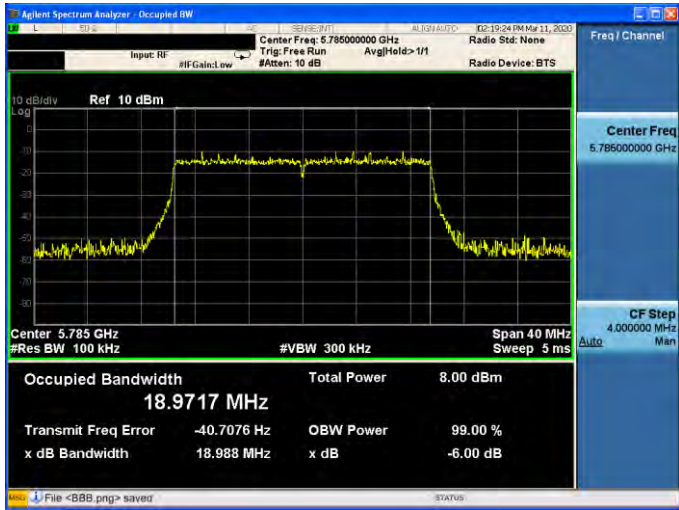
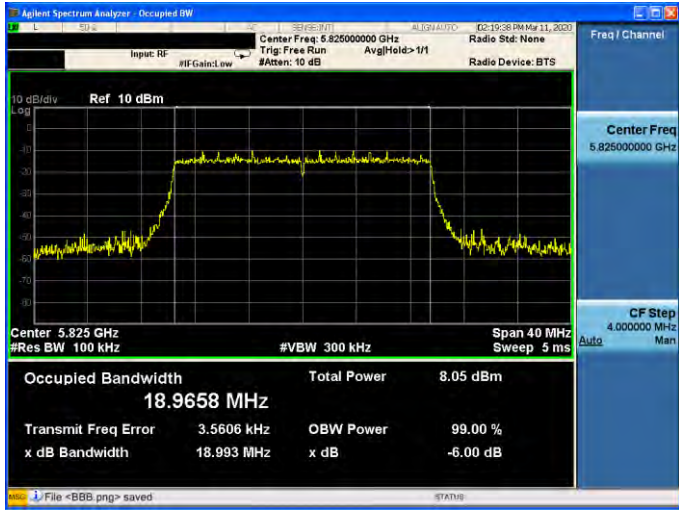




Mode 13: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-1

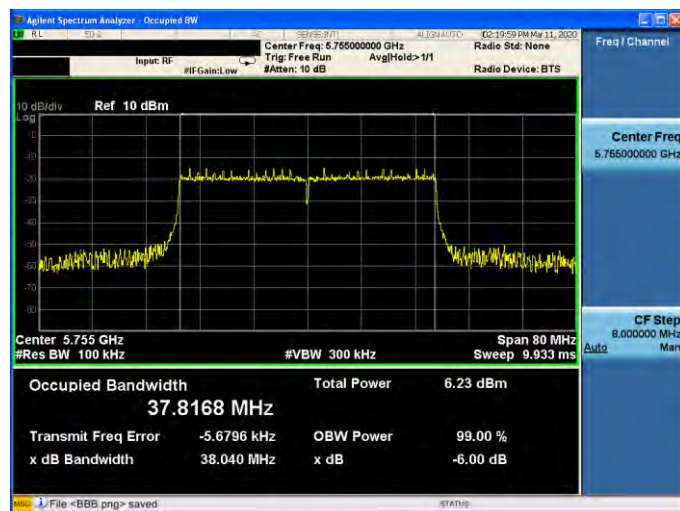
CH155



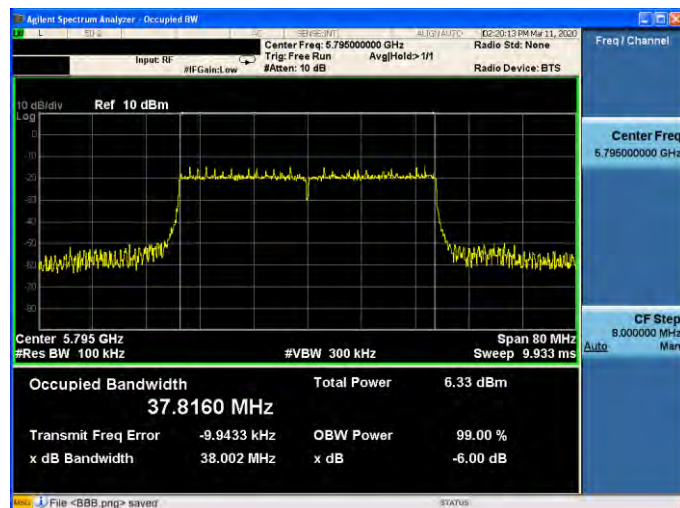
Mode 15: IEEE 802.11ax 20 MHz Continuous TX Mode_ANT-1	
CH149	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.745000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 10 dBm Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 5 ms Occupied Bandwidth 18.9661 MHz Total Power 7.80 dBm Transmit Freq Error 15.7678 kHz OBW Power 99.00 % x dB Bandwidth 18.987 MHz x dB -6.00 dB File <BBB.png> saved STATUS
CH157	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.785000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 10 dBm Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 5 ms Occupied Bandwidth 18.9717 MHz Total Power 8.00 dBm Transmit Freq Error -40.7076 Hz OBW Power 99.00 % x dB Bandwidth 18.988 MHz x dB -6.00 dB File <BBB.png> saved STATUS
CH165	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.825000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref 10 dBm Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 5 ms Occupied Bandwidth 18.9658 MHz Total Power 8.05 dBm Transmit Freq Error 3.5606 kHz OBW Power 99.00 % x dB Bandwidth 18.993 MHz x dB -6.00 dB File <BBB.png> saved STATUS

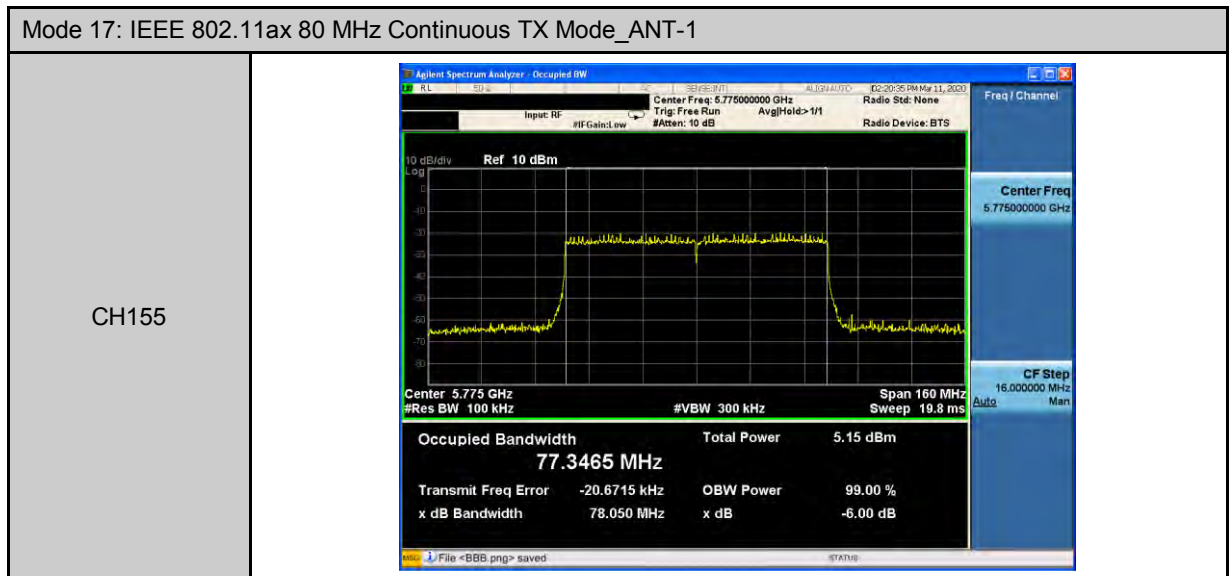
Mode 16: IEEE 802.11ax 40 MHz Continuous TX Mode_ANT-1

CH151



CH159



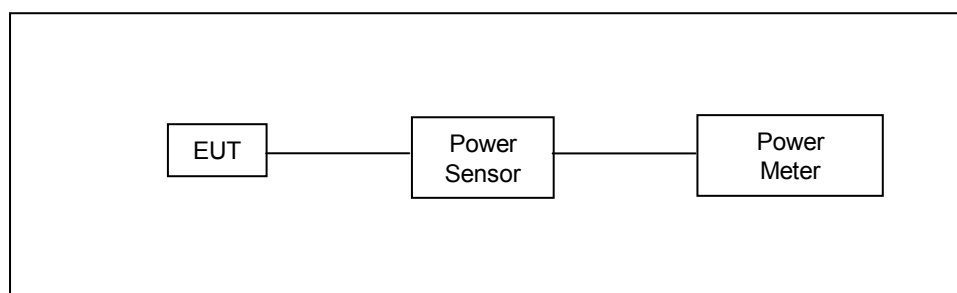


4.3.6 發射功率控制(TPC)之量測

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 8 / Mode 9 / Mode 10 / Mode 11 / Mode 12 / Mode 13 / Mode 14 / Mode 15 / Mode 16 / Mode 17 / Mode 18		
測試結果	: Mode 8: EIRP = 54.501 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 9: EIRP = 106.503 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 10: EIRP = 122.155 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 11: EIRP = 108.104 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 12: EIRP = 124.836 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 13: EIRP = 17.268 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 14: EIRP = 10.508 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 15: EIRP = 111.944 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 16: EIRP = 98.628 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 17: EIRP = 18.239 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 18: EIRP = 12.274 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:

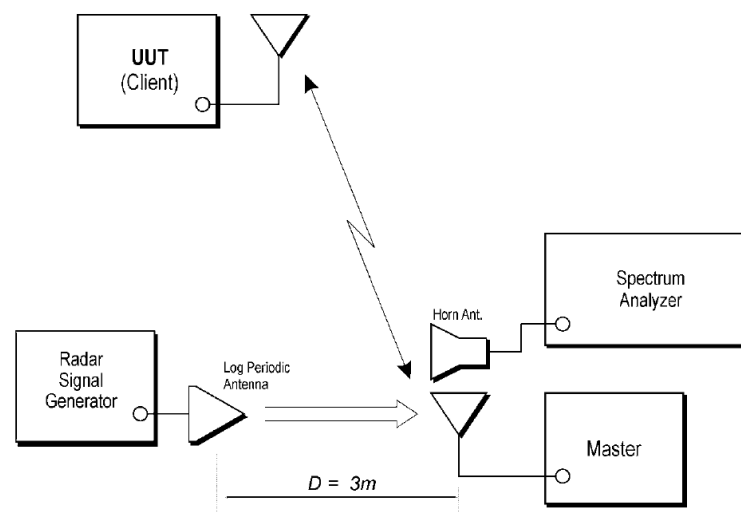
最低動態頻率選擇的偵測門檻

- 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:

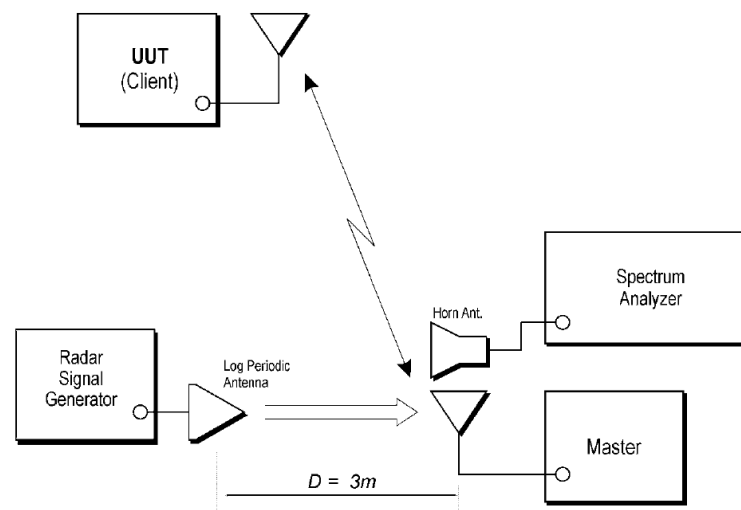
操作模式	: Mode 18
測試結果	: 不適用, 此產品為受控裝置, 因此不須評估動態頻率選擇(DFS)

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：

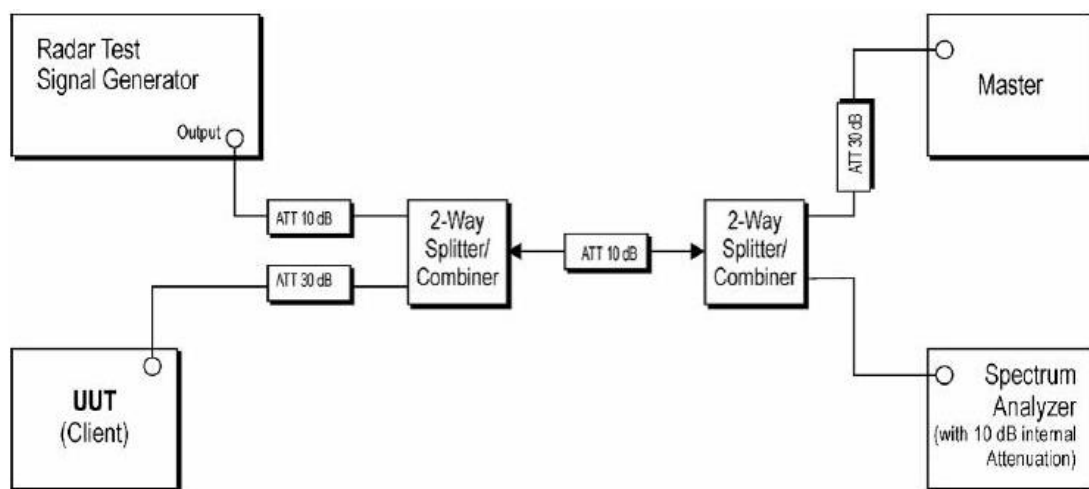
操作模式	: Mode 18
測試結果	: 不適用；此產品為受控裝置，因此不須評估頻道可用性檢查時間

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	ASUS Access Point	ASUS	RT-AX88U	FCC : MSQ-RTAXHP00

測試結果:

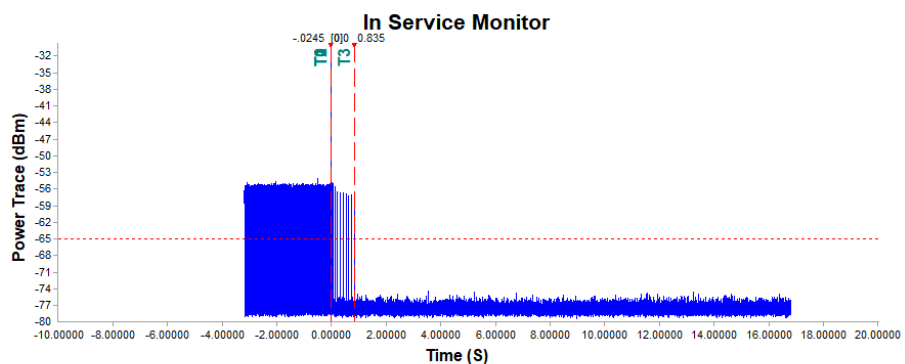
操作模式 : Mode 18

測試結果 : 合格

Frequency (MHz)	Radar Type	Channel Move Time (sec)	Limit (sec)
5570	Type 0	0.8350	10

Frequency (MHz)	Radar Type	Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
5570	Type 0	36.9991	200

Mode 18: IEEE 802.11ax 160 MHz Continuous TX Mode

Channel Move Time
/
Channel Closing
Transmission Time

Time Index Info

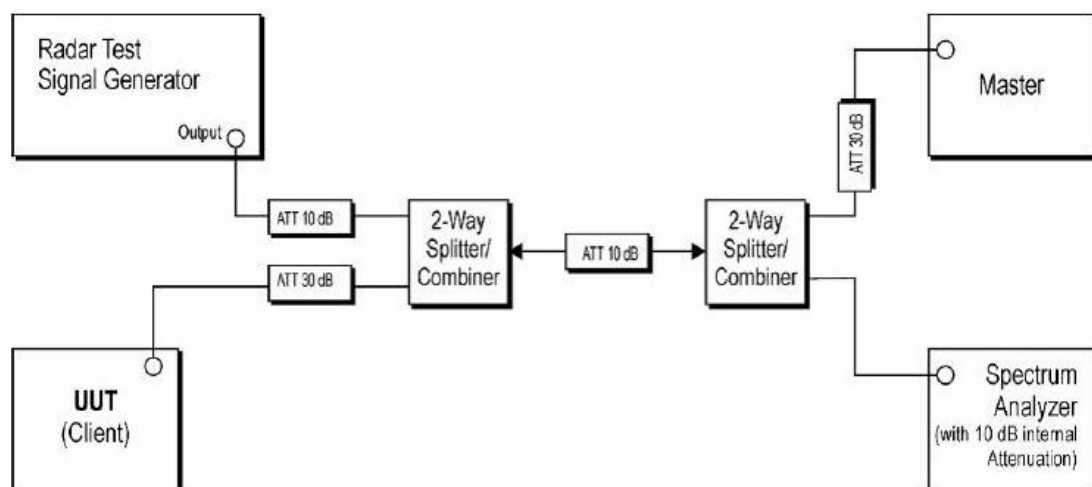
T0 : -0.0245 S	Time Per Bin: 0.4999875 ms	Channel Move Time: 0.8349791 S
T1 : 0.0000 S		
T2 : 0.0000 S	T2~T3 Bins Over Threshold:	Channel Close Time: 0.0369991 S
T3 : 0.8350 S	= 74 Bins	

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 18
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	廠牌	型號	型態	增益值(dBi)
ANT-0	比亞迪	96662429	IFA Antenna	-0.80
ANT-1	比亞迪	96662429	IFA Antenna	-1.30

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	Power Density [S] (mW/cm ²)
WLAN 2.4 GHz	2412-2462	1	20	18.88	2.21	1.66	1	0.0255
WLAN 5 GHz	5180-5825	1	20	18.68	1.96	1.57	1	0.0230
LTE (Band7)	2500-2570	1	20	23.40	0.7	1.17	1	0.0509
Bluetooth	2402-2480	1	20	9.52	0.4	1.1	1	0.0020

Simultaneous MPE = BT MPE + 2.4 GHz MPE + 5 GHz MPE + LTE_B7 MPE

$$= 0.0020 + 0.0255 + 0.0230 + 0.0509 = 0.1014$$

---END---