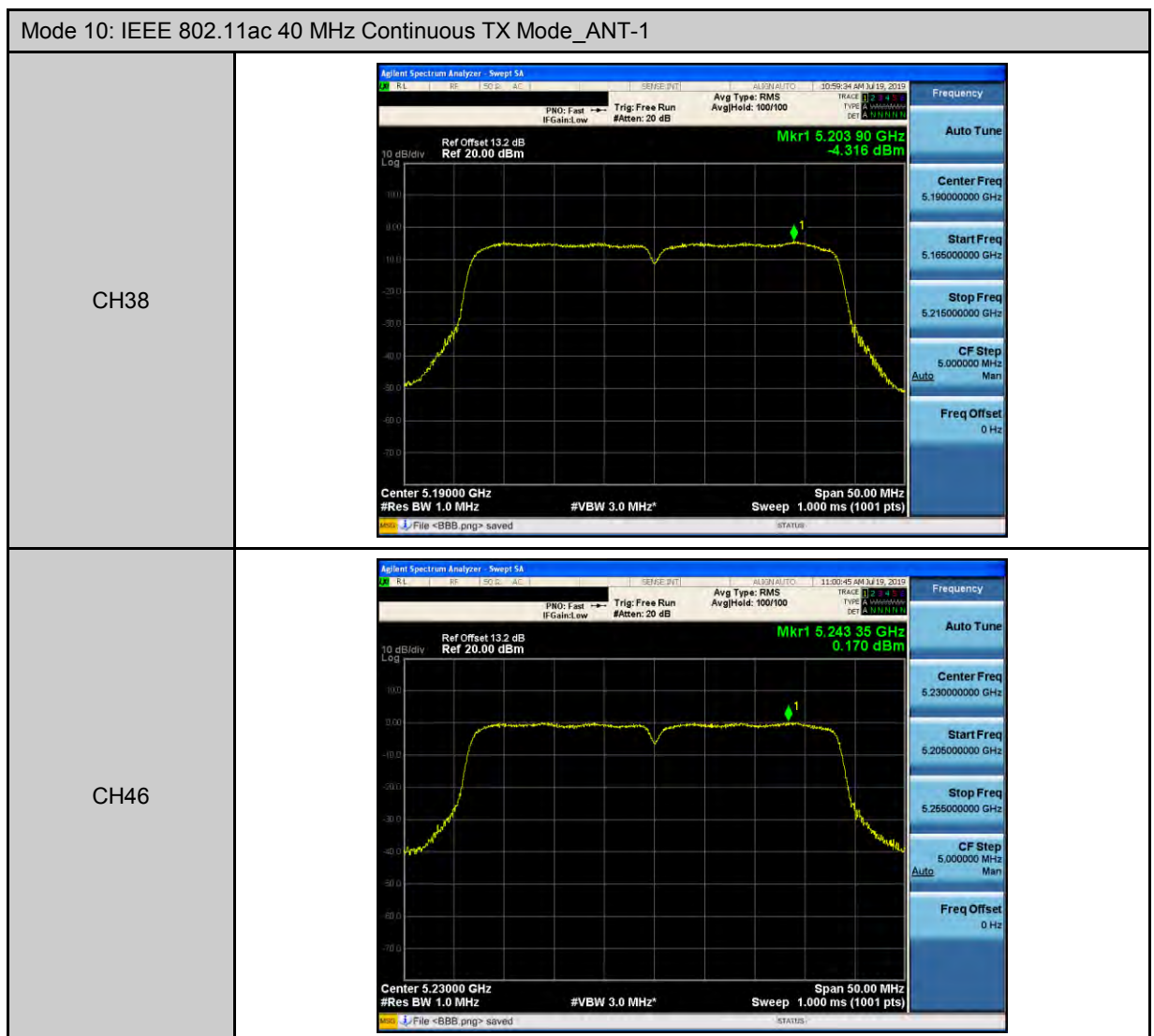
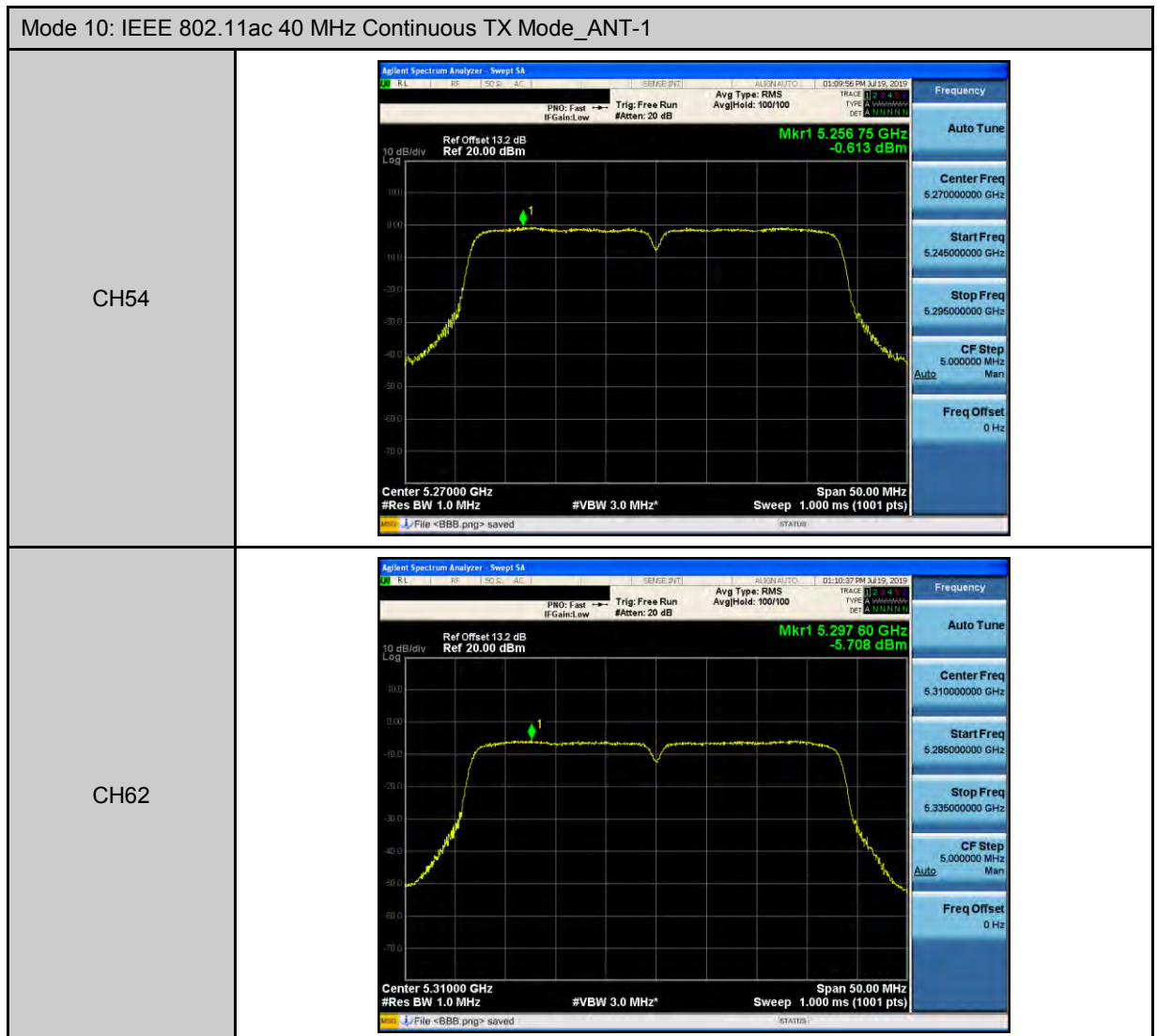
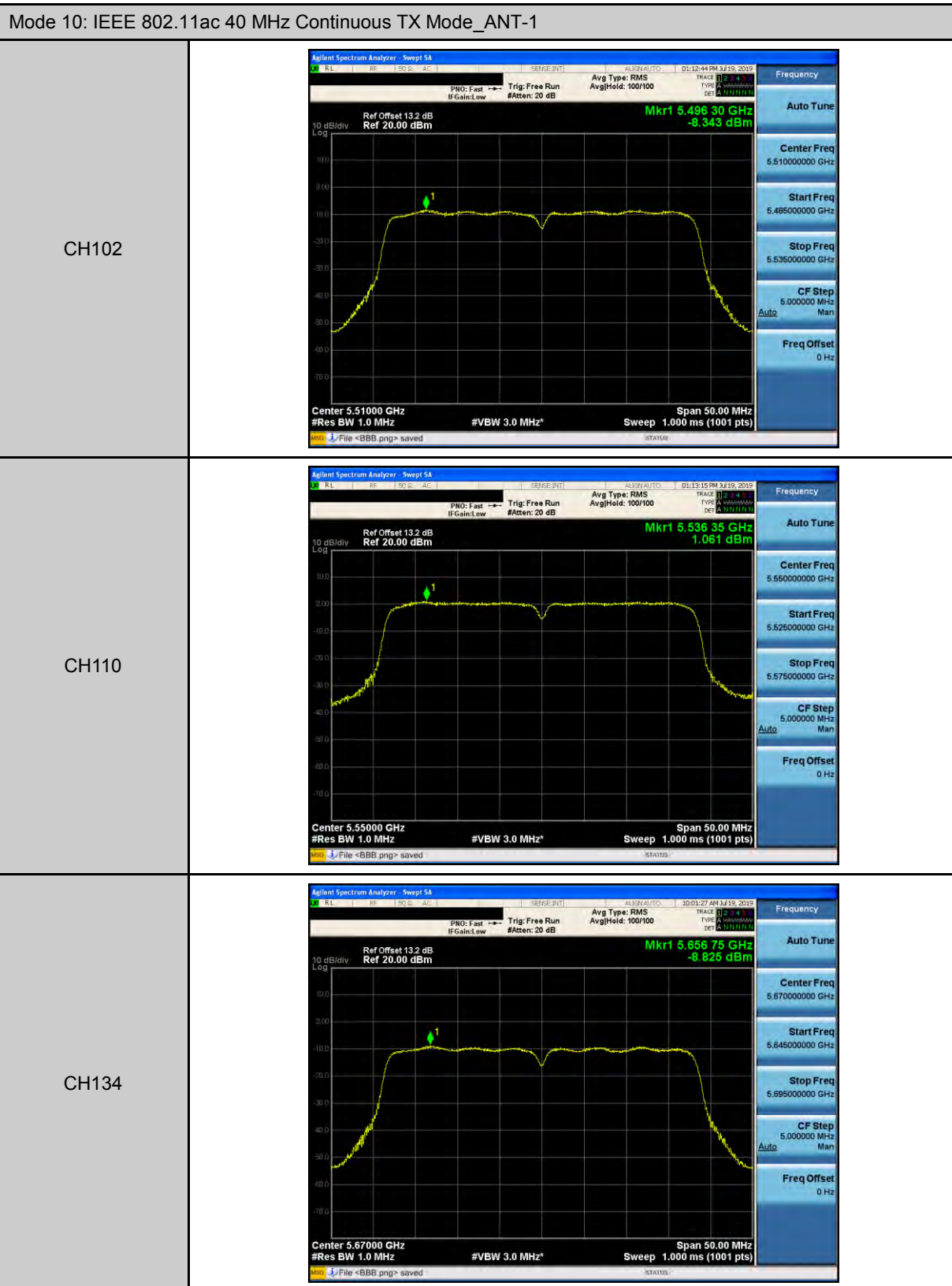
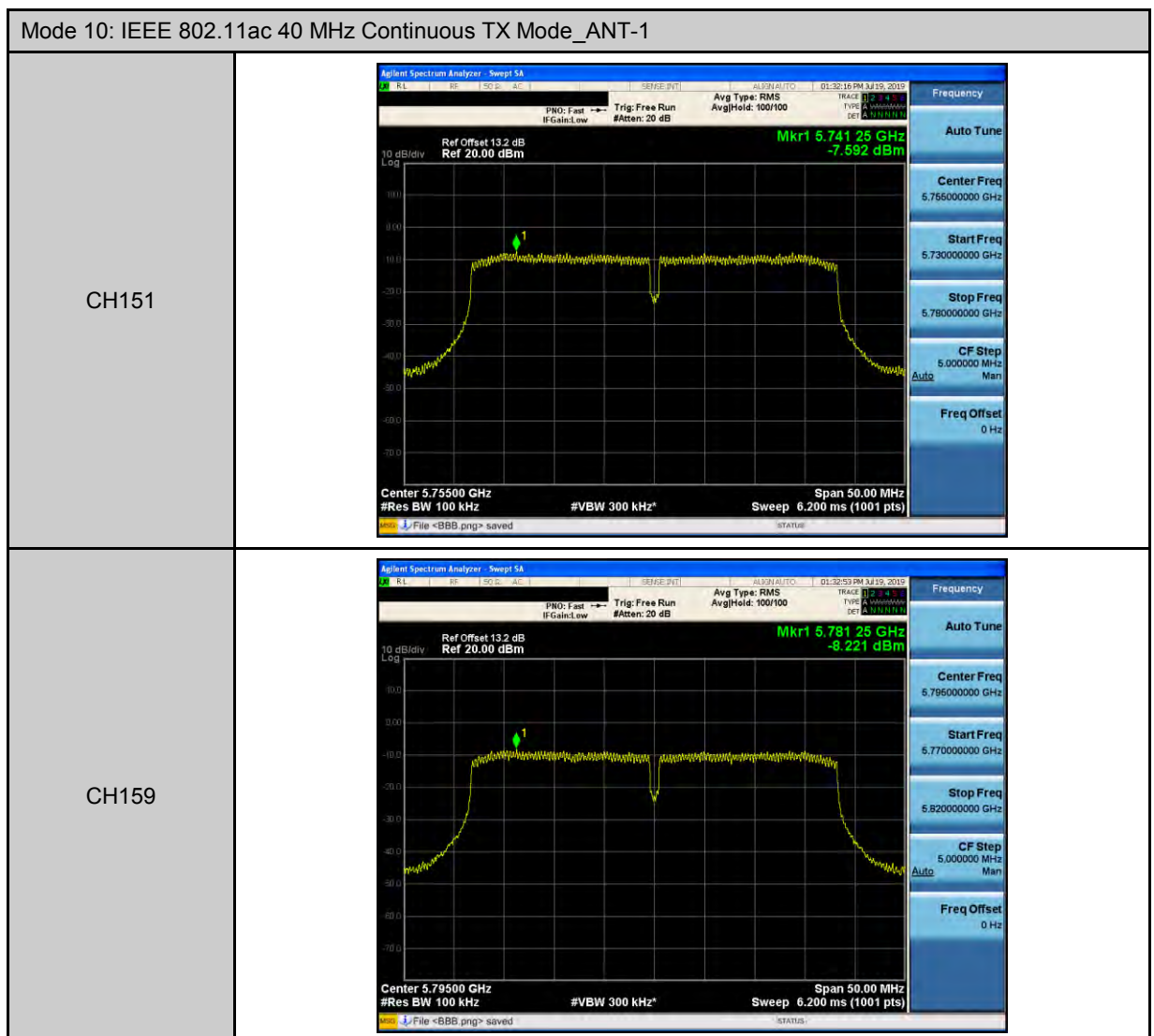
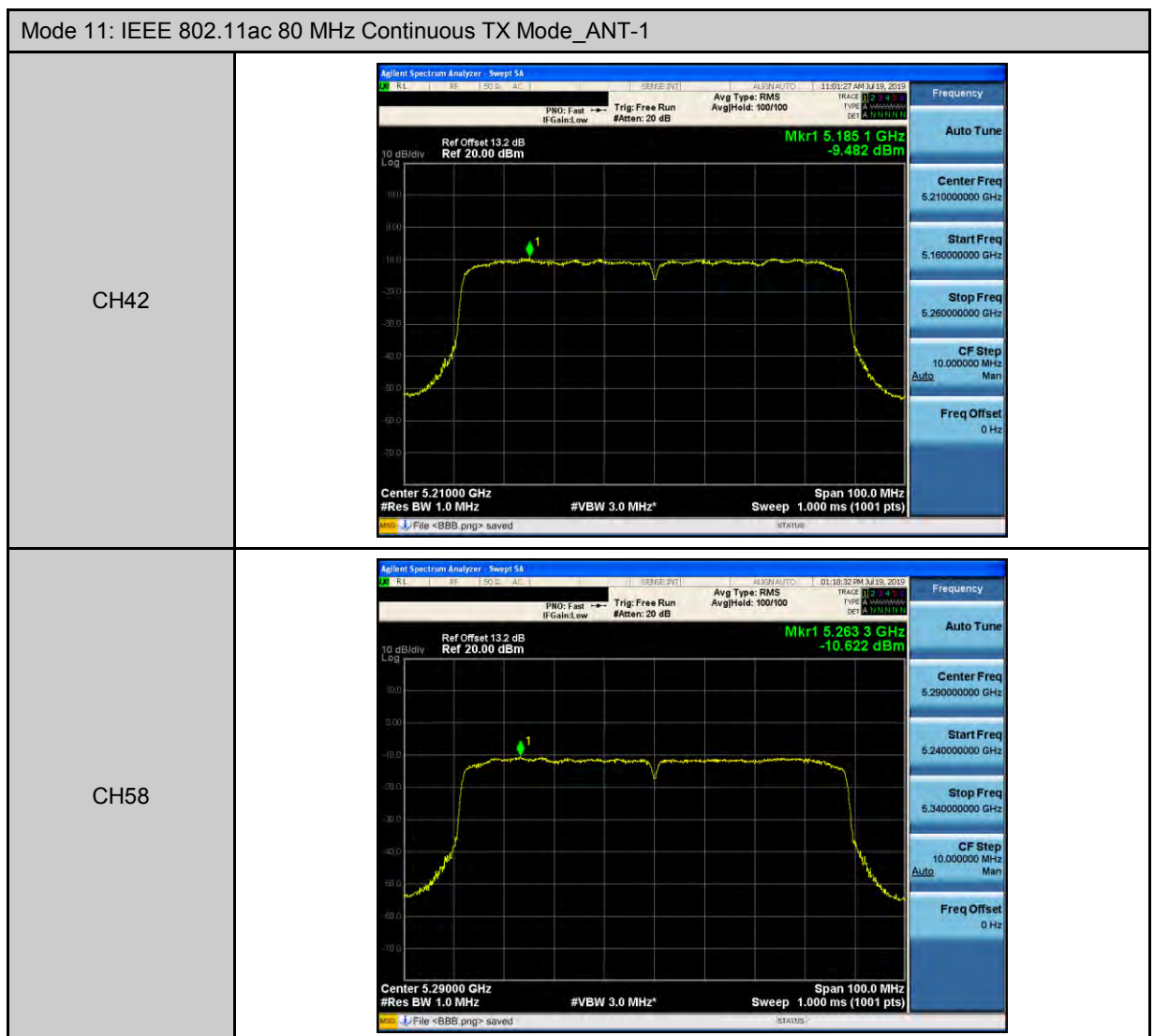


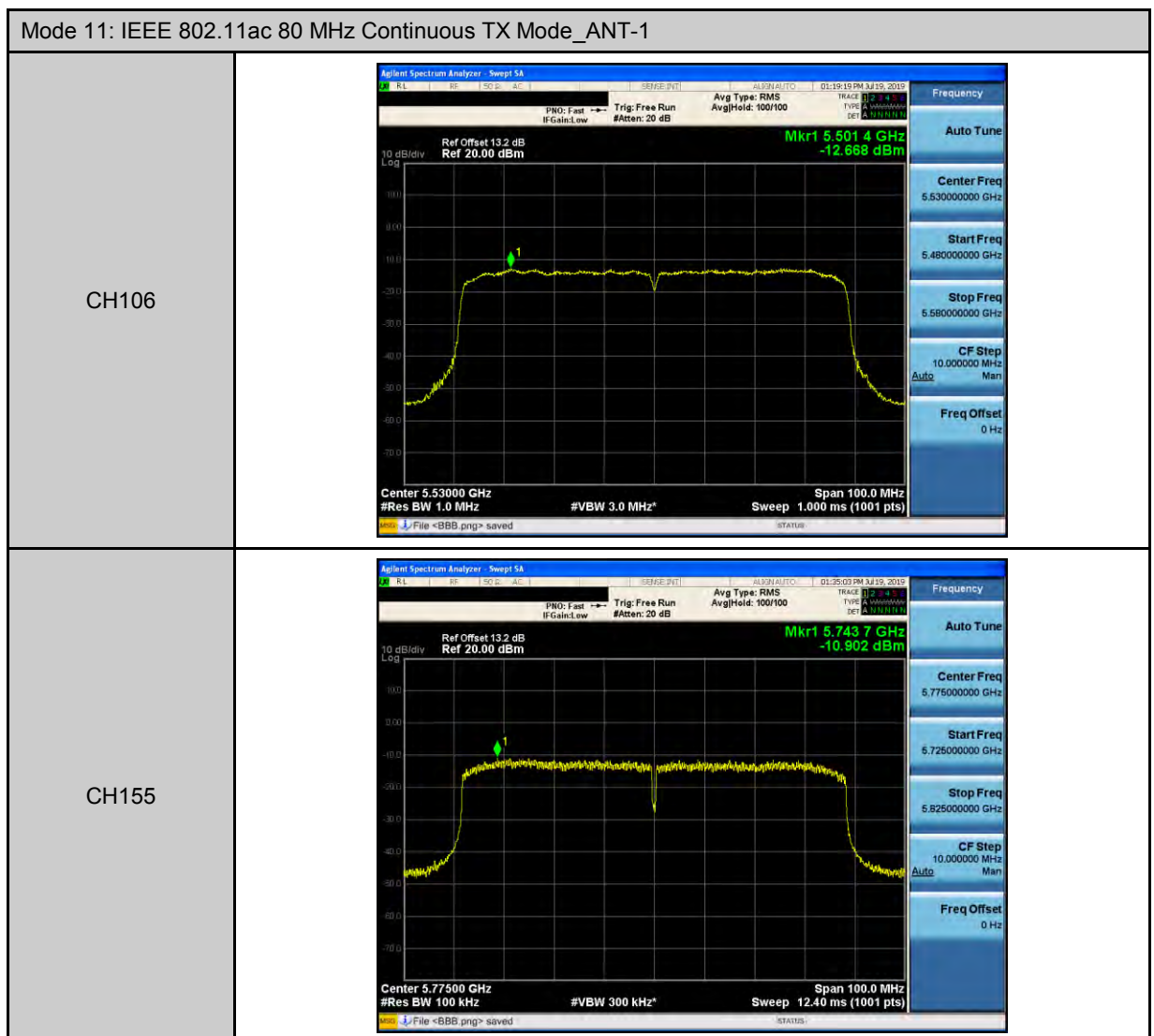


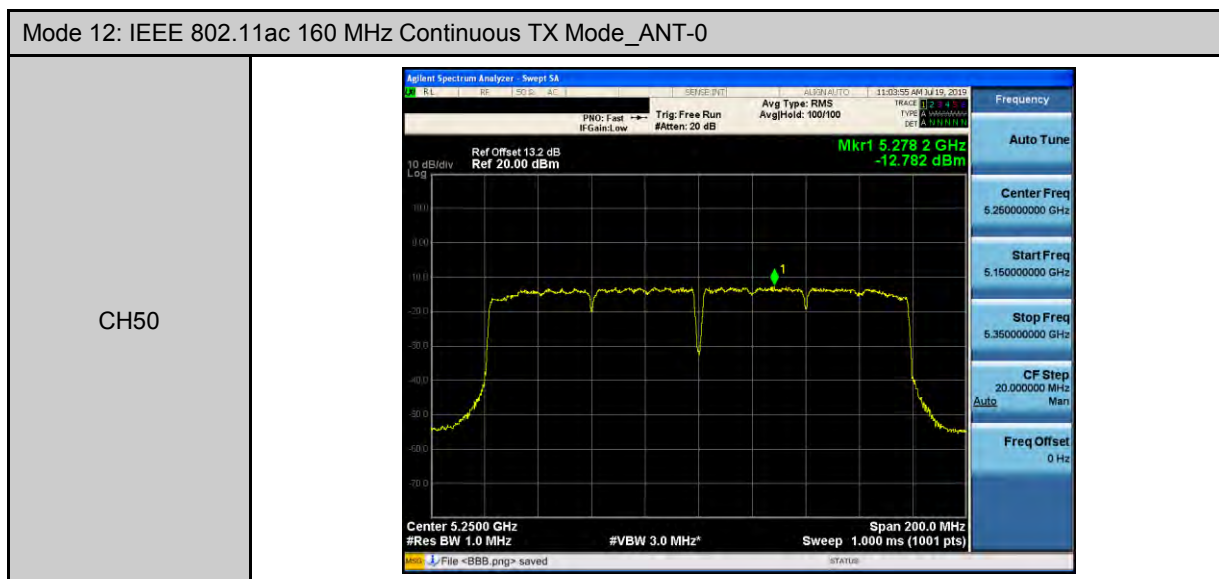










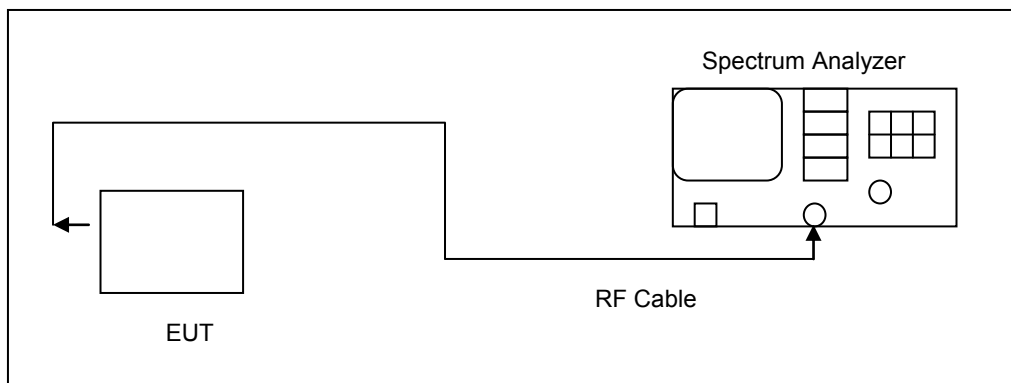


4.3.4 26 dB頻寬之要求

合格標準:

N/A

測試架構圖：



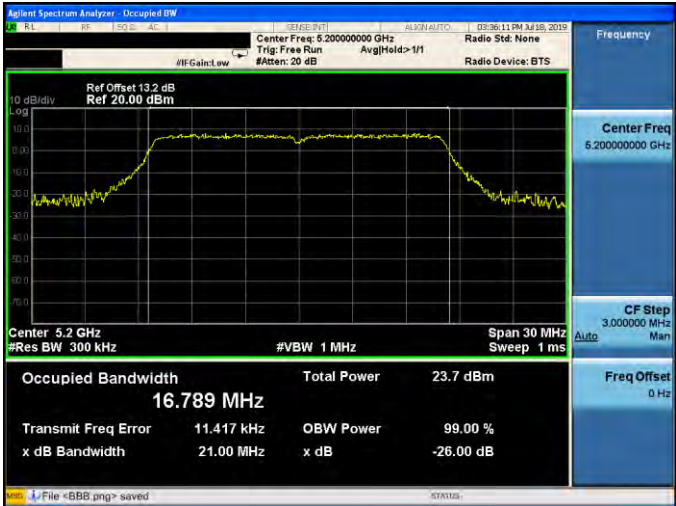
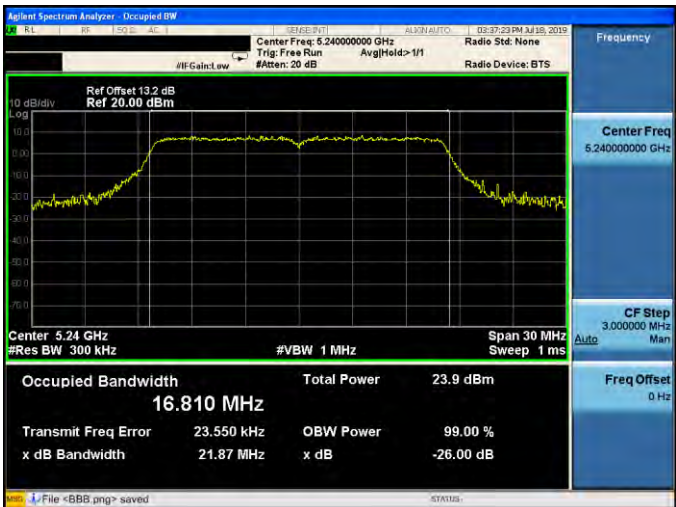
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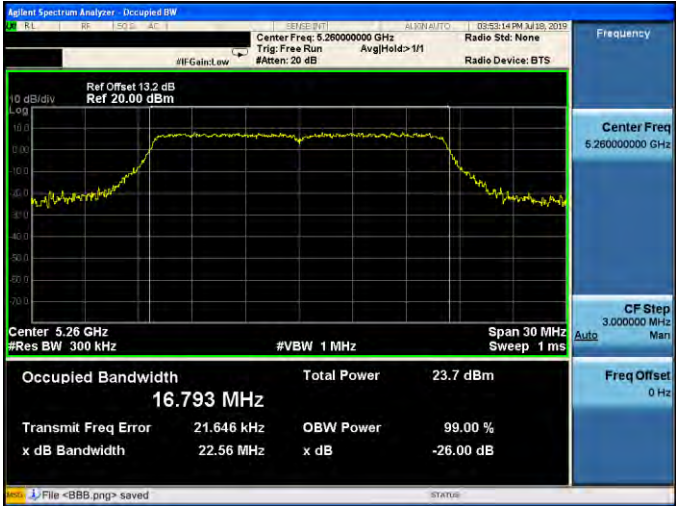
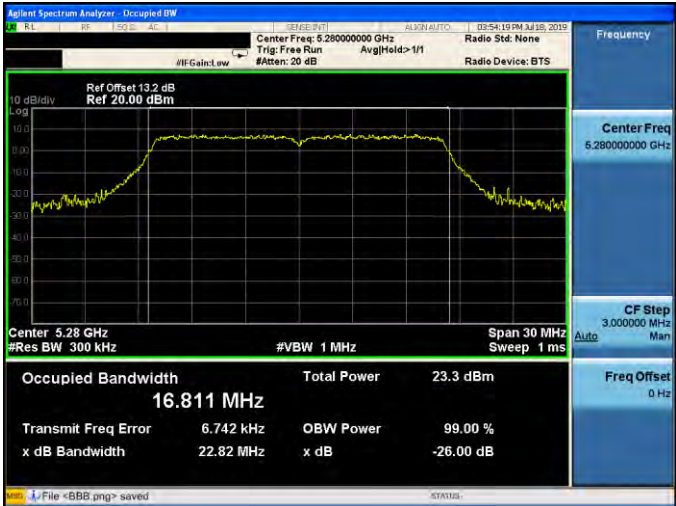
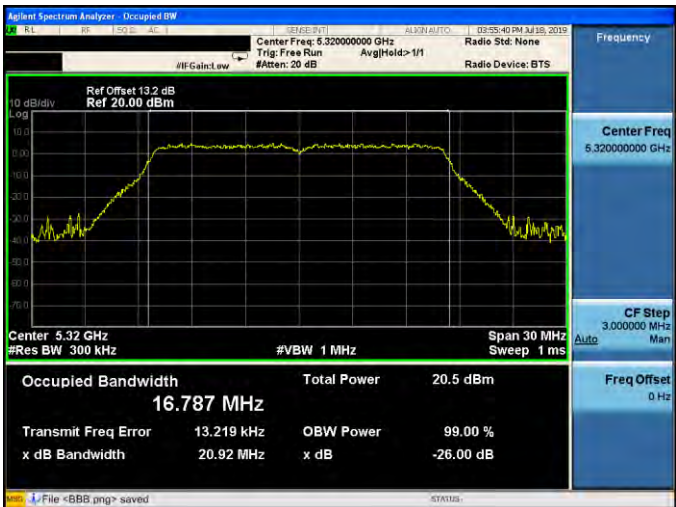
操作模式	: Mode 6 / Mode 7 / Mode 8 / Mode 9 / Mode 10 / Mode 11 / Mode 12
測試結果	: 合格

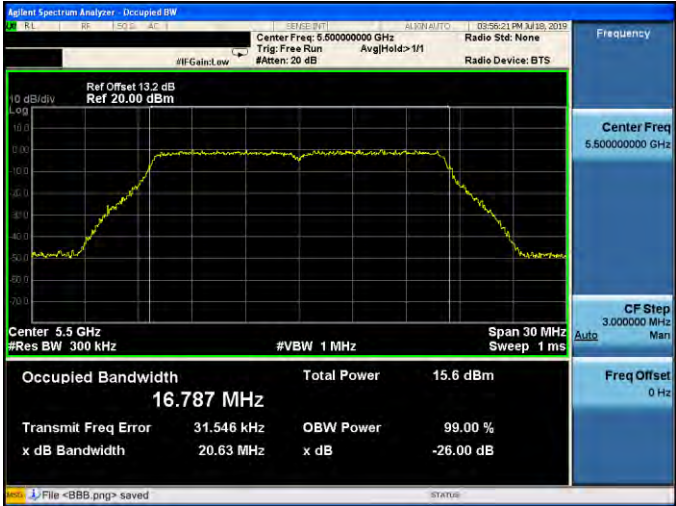
操作模式	頻道 (CH)	頻率 (MHz)	26 dB 頻寬量測值 (MHz)	
			ANT-0	ANT-1
Mode 6	36	5180.0	20.700	20.540
	40	5200.0	21.000	20.760
	48	5240.0	21.870	22.680
	52	5260.0	22.560	23.560
	56	5280.0	22.820	22.480
	64	5320.0	20.920	20.490
	100	5500.0	20.630	20.510
	112	5560.0	22.330	23.580
	140	5700.0	20.940	20.500
Mode 7	52	5260.0	21.150	21.790
	56	5280.0	21.400	21.210
	64	5320.0	21.320	20.930
	100	5500.0	20.950	20.970
	112	5560.0	21.510	21.510
	140	5700.0	20.880	20.810
Mode 8	54	5270.0	43.990	42.650
	62	5310.0	43.090	42.510
	102	5510.0	43.190	42.730
	110	5550.0	43.870	43.210
	134	5670.0	43.260	41.990
Mode 9	36	5180.0	21.090	20.780
	40	5200.0	21.240	20.820
	48	5240.0	21.900	20.690
	52	5260.0	21.730	20.910
	56	5280.0	21.250	22.070
	64	5320.0	21.030	21.010
	100	5500.0	21.140	20.800
	112	5560.0	21.520	22.670
	140	5700.0	21.080	20.980

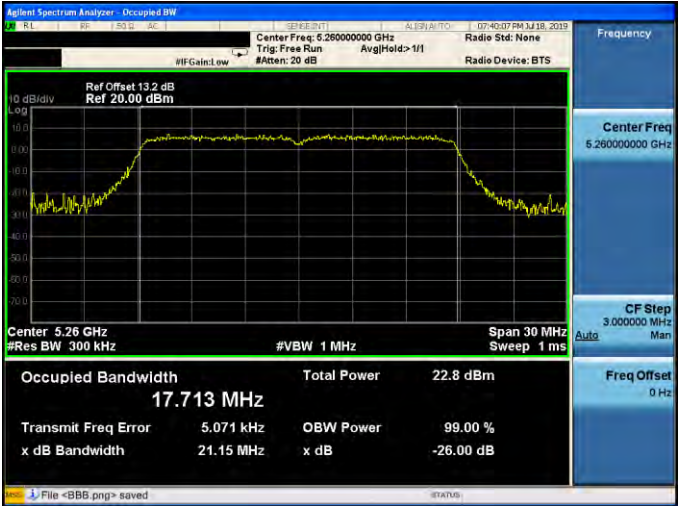
操作模式	: Mode 6 / Mode 7 / Mode 8 / Mode 9 / Mode 10 / Mode 11 / Mode 12
測試結果	: 合格

操作模式	頻道 (CH)	頻率 (MHz)	26 dB 頻寬量測值 (MHz)	
			ANT-0	ANT-1
Mode 10	38	5190.0	43.430	41.960
	46	5230.0	42.880	42.390
	54	5270.0	43.720	42.710
	62	5310.0	42.800	42.290
	102	5510.0	42.960	42.610
	110	5550.0	43.090	42.930
	134	5670.0	43.390	42.390
Mode 11	42	5210.0	84.990	83.600
	58	5290.0	84.510	82.950
	106	5530.0	85.250	83.210
Mode 12	50	5250.0	167.900	165.700

Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0	
CH36	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.180000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.794 MHz Total Power 20.9 dBm Transmit Freq Error 19.485 kHz OBW Power 99.00 % x dB Bandwidth 20.70 MHz x dB -26.00 dB Center Freq 5.180000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz 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 Ref Offset 13.2 dB Ref 20.00 dBm Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.789 MHz Total Power 23.7 dBm Transmit Freq Error 11.417 kHz OBW Power 99.00 % x dB Bandwidth 21.00 MHz x dB -26.00 dB Center Freq 5.200000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz 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 Ref Offset 13.2 dB Ref 20.00 dBm Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.810 MHz Total Power 23.9 dBm Transmit Freq Error 23.550 kHz OBW Power 99.00 % x dB Bandwidth 21.87 MHz x dB -26.00 dB Center Freq 5.240000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz File <BBB.png> saved

Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0	
CH52	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.26000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.26 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.793 MHz Total Power 23.7 dBm Transmit Freq Error 21.646 kHz OBW Power 99.00 % x dB Bandwidth 22.56 MHz x dB -26.00 dB File <BBB.png> saved STATUS Frequency Center Freq 5.26000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
CH56	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.28000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.811 MHz Total Power 23.3 dBm Transmit Freq Error 6.742 kHz OBW Power 99.00 % x dB Bandwidth 22.82 MHz x dB -26.00 dB File <BBB.png> saved STATUS Frequency Center Freq 5.28000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
CH64	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.32000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.32 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.787 MHz Total Power 20.5 dBm Transmit Freq Error 13.219 kHz OBW Power 99.00 % x dB Bandwidth 20.92 MHz x dB -26.00 dB File <BBB.png> saved STATUS Frequency Center Freq 5.32000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz

Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0	
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 Offset 13.2 dB Ref 20.00 dBm Center 5.5 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.787 MHz Total Power 15.6 dBm Transmit Freq Error 31.546 kHz OBW Power 99.00 % x dB Bandwidth 20.63 MHz x dB -26.00 dB File <BBB.png> saved
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 Offset 13.2 dB Ref 20.00 dBm Center 5.56 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.810 MHz Total Power 23.9 dBm Transmit Freq Error 8.620 kHz OBW Power 99.00 % x dB Bandwidth 22.33 MHz x dB -26.00 dB File <BBB.png> saved
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 Offset 13.2 dB Ref 20.00 dBm Center 5.7 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.749 MHz Total Power 16.8 dBm Transmit Freq Error 4.985 kHz OBW Power 99.00 % x dB Bandwidth 20.94 MHz x dB -26.00 dB File <BBB.png> saved

Mode 7: IEEE 802.11n 5 GHz 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 Offset: 13.2 dB Ref: 20.00 dBm Center: 5.26 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms Occupied Bandwidth: 17.713 MHz Total Power: 22.8 dBm Transmit Freq Error: 5.071 kHz OBW Power: 99.00 % x dB Bandwidth: 21.15 MHz x dB: -26.00 dB Center Freq: 5.260000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz
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 Offset: 13.2 dB Ref: 20.00 dBm Center: 5.28 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms Occupied Bandwidth: 17.732 MHz Total Power: 22.8 dBm Transmit Freq Error: 10.079 kHz OBW Power: 99.00 % x dB Bandwidth: 21.40 MHz x dB: -26.00 dB Center Freq: 5.280000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz
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 Offset: 13.2 dB Ref: 20.00 dBm Center: 5.32 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms Occupied Bandwidth: 17.752 MHz Total Power: 21.4 dBm Transmit Freq Error: 20.131 kHz OBW Power: 99.00 % x dB Bandwidth: 21.32 MHz x dB: -26.00 dB Center Freq: 5.320000000 GHz CF Step: 3.000000 MHz Freq Offset: 0 Hz

Mode 7: 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 Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset: 13.2 dB Ref: 20.00 dBm Center: 5.5 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms Occupied Bandwidth: 17.695 MHz Total Power: 15.9 dBm Transmit Freq Error: 16.867 kHz OBW Power: 99.00 % x dB Bandwidth: 20.95 MHz x dB: -26.00 dB File <BBB.png> saved
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 Offset: 13.2 dB Ref: 20.00 dBm Center: 5.56 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms Occupied Bandwidth: 17.725 MHz Total Power: 23.3 dBm Transmit Freq Error: 21.544 kHz OBW Power: 99.00 % x dB Bandwidth: 21.51 MHz x dB: -26.00 dB File <BBB.png> saved
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 Offset: 13.2 dB Ref: 20.00 dBm Center: 5.7 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms Occupied Bandwidth: 17.689 MHz Total Power: 17.2 dBm Transmit Freq Error: 10.939 kHz OBW Power: 99.00 % x dB Bandwidth: 20.88 MHz x dB: -26.00 dB File <BBB.png> saved

Mode 8: IEEE 802.11n 5 GHz 24 MHz Continuous TX Mode_ANT-0

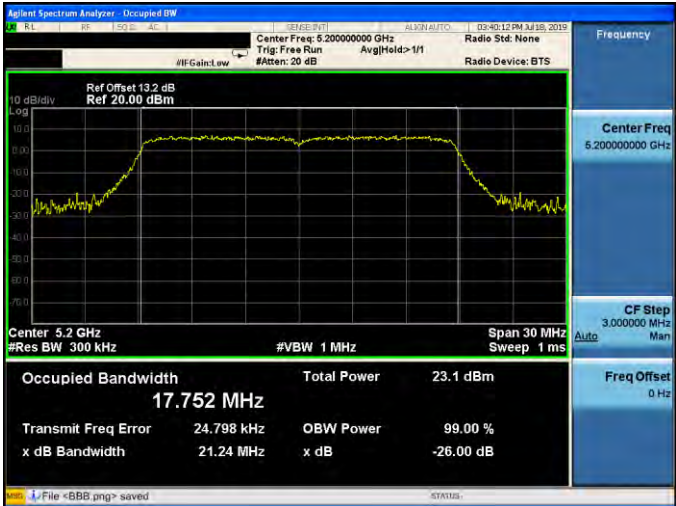
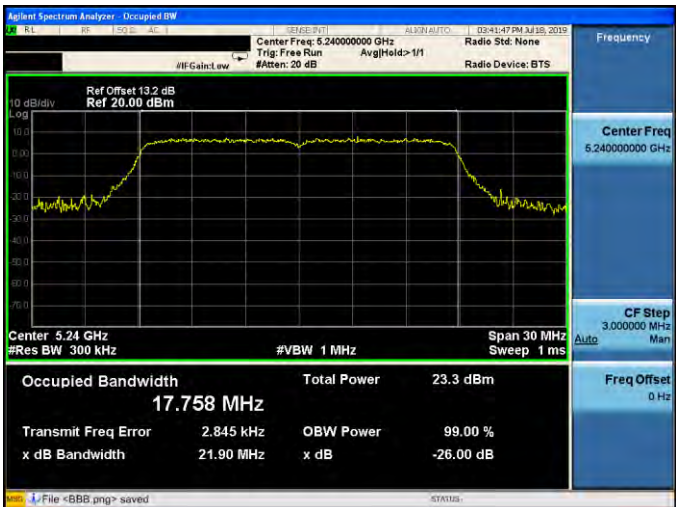
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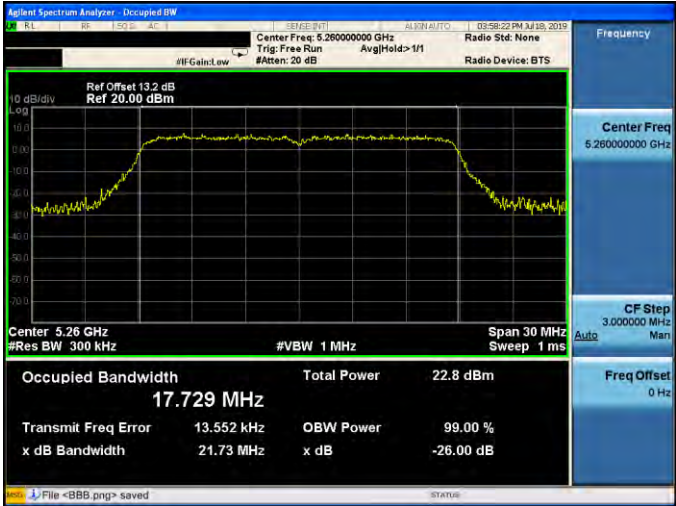
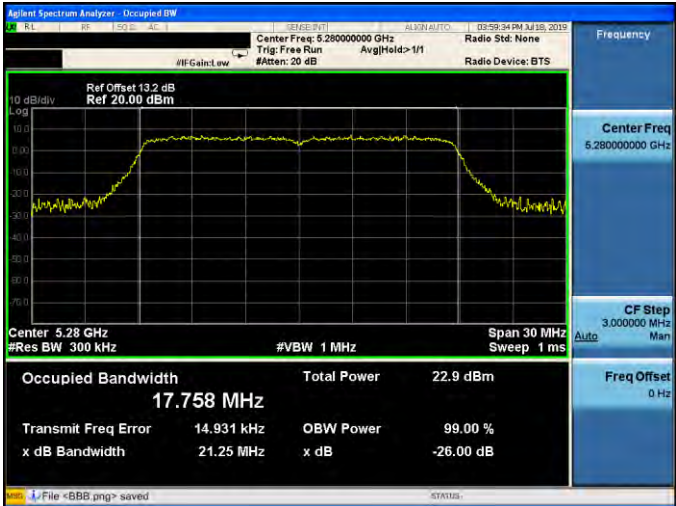
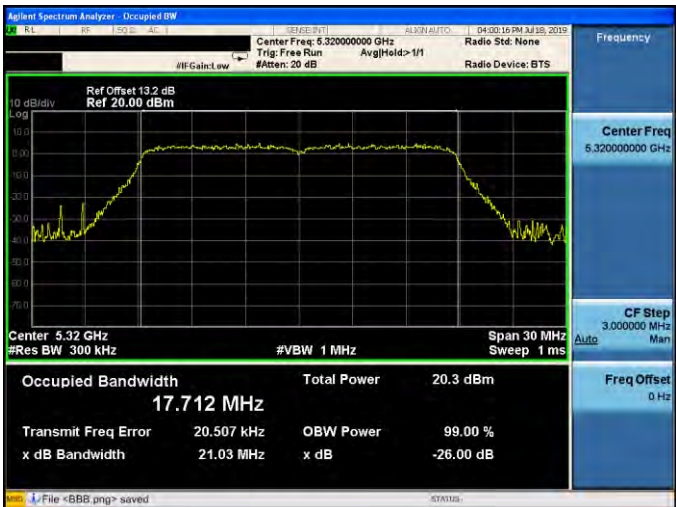


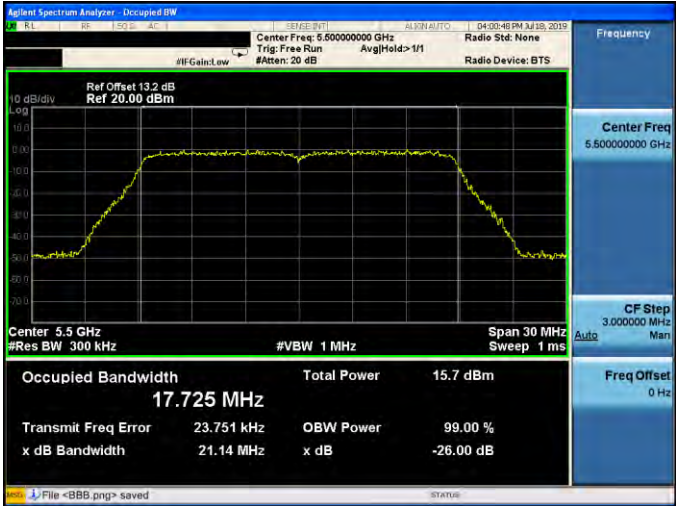
CH62



Mode 8: IEEE 802.11n 5 GHz 24 MHz Continuous TX Mode_ANT-0	
CH102	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.51000000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: > 1/1 Radio Std: None Radio Device: BTS Ref Offset: 13.2 dB Ref: 20.00 dBm Center: 5.51 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 50 MHz Sweep: 1 ms Occupied Bandwidth: 36.628 MHz Total Power: 15.8 dBm Transmit Freq Error: 44.493 kHz OBW Power: 99.00 % x dB Bandwidth: 43.19 MHz x dB: -26.00 dB File <BBB.png> saved
CH110	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.55000000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: > 1/1 Radio Std: None Radio Device: BTS Ref Offset: 13.2 dB Ref: 20.00 dBm Center: 5.55 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 50 MHz Sweep: 1 ms Occupied Bandwidth: 36.543 MHz Total Power: 24.4 dBm Transmit Freq Error: 29.561 kHz OBW Power: 99.00 % x dB Bandwidth: 43.87 MHz x dB: -26.00 dB File <BBB.png> saved
CH134	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.67000000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: > 1/1 Radio Std: None Radio Device: BTS Ref Offset: 13.2 dB Ref: 20.00 dBm Center: 5.67 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 50 MHz Sweep: 1 ms Occupied Bandwidth: 36.686 MHz Total Power: 17.6 dBm Transmit Freq Error: 46.491 kHz OBW Power: 99.00 % x dB Bandwidth: 43.26 MHz x dB: -26.00 dB File <BBB.png> saved

Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
CH36	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.180000000 GHz Trig: Free Run #Atten: 20 dB AvgHeld: > 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.712 MHz Total Power 20.7 dBm Transmit Freq Error 15.933 kHz OBW Power 99.00 % x dB Bandwidth 21.09 MHz x dB -26.00 dB Center Freq 5.180000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz File <BBB.png> saved
CH40	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.200000000 GHz Trig: Free Run #Atten: 20 dB AvgHeld: > 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.752 MHz Total Power 23.1 dBm Transmit Freq Error 24.798 kHz OBW Power 99.00 % x dB Bandwidth 21.24 MHz x dB -26.00 dB Center Freq 5.200000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz File <BBB.png> saved
CH48	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.240000000 GHz Trig: Free Run #Atten: 20 dB AvgHeld: > 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.758 MHz Total Power 23.3 dBm Transmit Freq Error 2.845 kHz OBW Power 99.00 % x dB Bandwidth 21.90 MHz x dB -26.00 dB Center Freq 5.240000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz File <BBB.png> saved

Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
CH52	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.26000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.26 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.729 MHz Total Power 22.8 dBm Transmit Freq Error 13.552 kHz OBW Power 99.00 % x dB Bandwidth 21.73 MHz x dB -26.00 dB File <BBB.png> saved STATUS Frequency Center Freq 5.26000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
CH56	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.28000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.758 MHz Total Power 22.9 dBm Transmit Freq Error 14.931 kHz OBW Power 99.00 % x dB Bandwidth 21.25 MHz x dB -26.00 dB File <BBB.png> saved STATUS Frequency Center Freq 5.28000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
CH64	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.32000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.32 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.712 MHz Total Power 20.3 dBm Transmit Freq Error 20.507 kHz OBW Power 99.00 % x dB Bandwidth 21.03 MHz x dB -26.00 dB File <BBB.png> saved STATUS Frequency Center Freq 5.32000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz

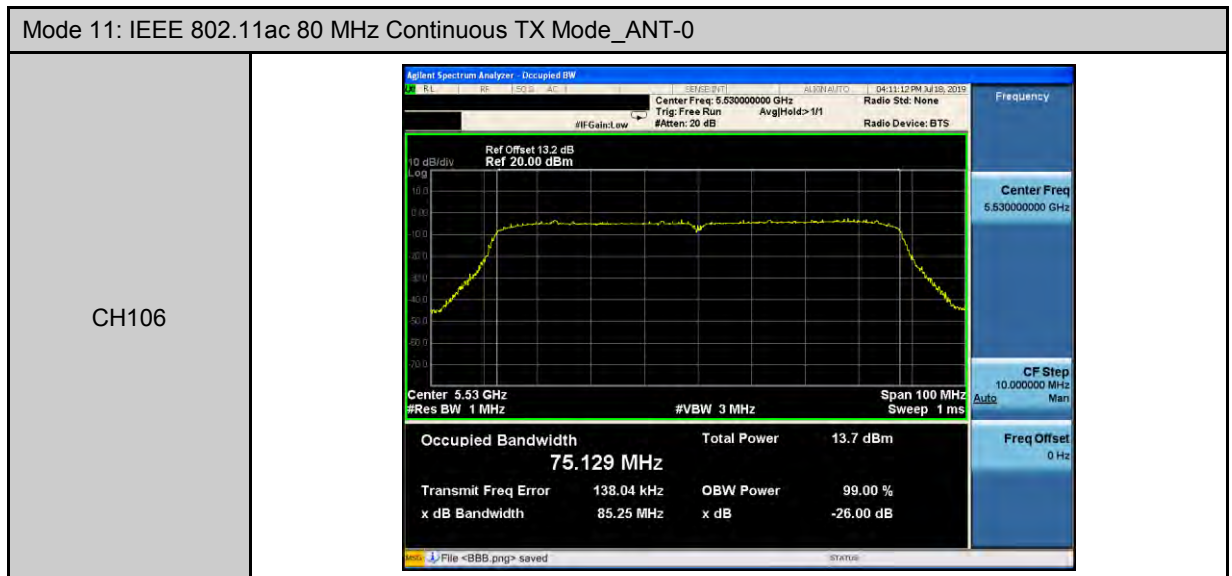
Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
CH100	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.500000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.5 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.725 MHz Total Power 15.7 dBm Transmit Freq Error 23.751 kHz OBW Power 99.00 % x dB Bandwidth 21.14 MHz x dB -26.00 dB File <BBB.png> saved
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 Offset 13.2 dB Ref 20.00 dBm Center 5.56 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.745 MHz Total Power 22.9 dBm Transmit Freq Error 20.169 kHz OBW Power 99.00 % x dB Bandwidth 21.52 MHz x dB -26.00 dB File <BBB.png> saved
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 Offset 13.2 dB Ref 20.00 dBm Center 5.7 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.711 MHz Total Power 16.9 dBm Transmit Freq Error 6.120 kHz OBW Power 99.00 % x dB Bandwidth 21.08 MHz x dB -26.00 dB File <BBB.png> saved

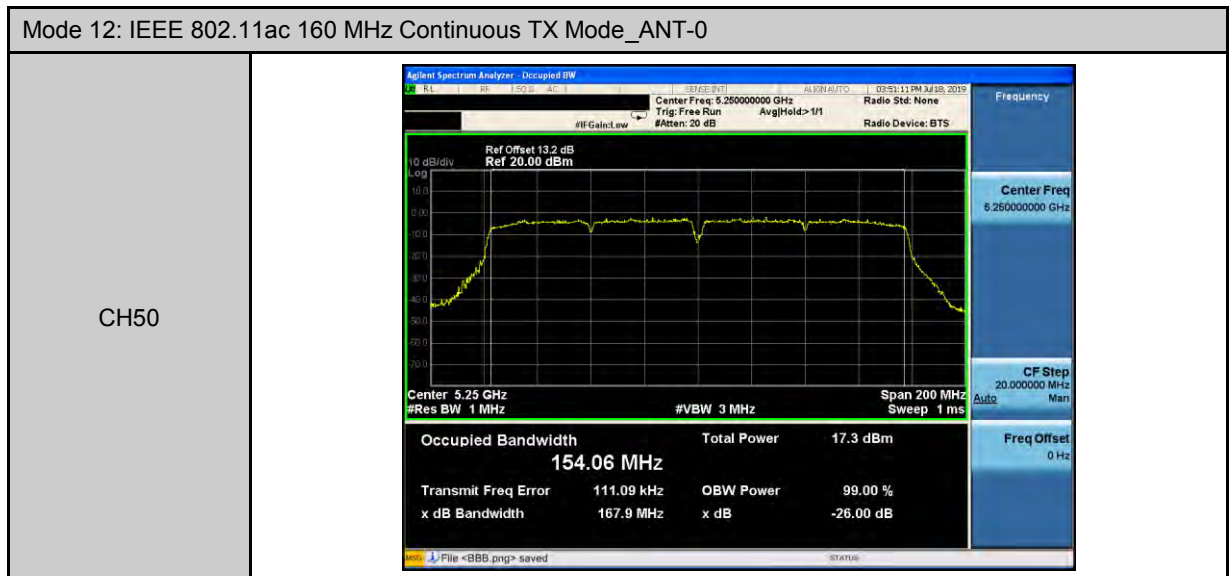


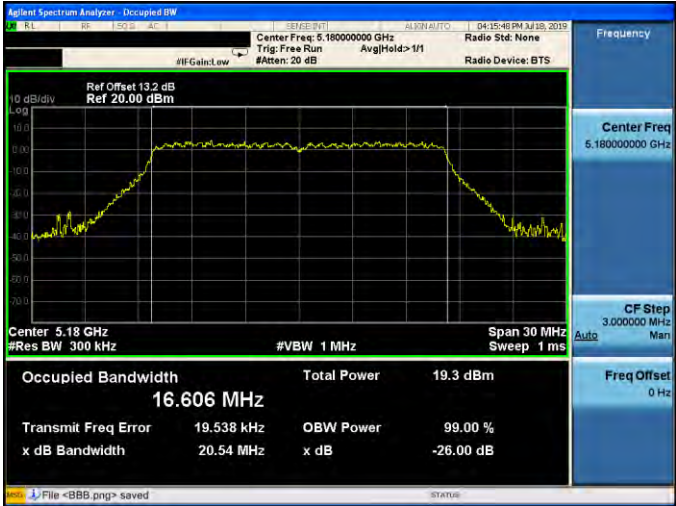
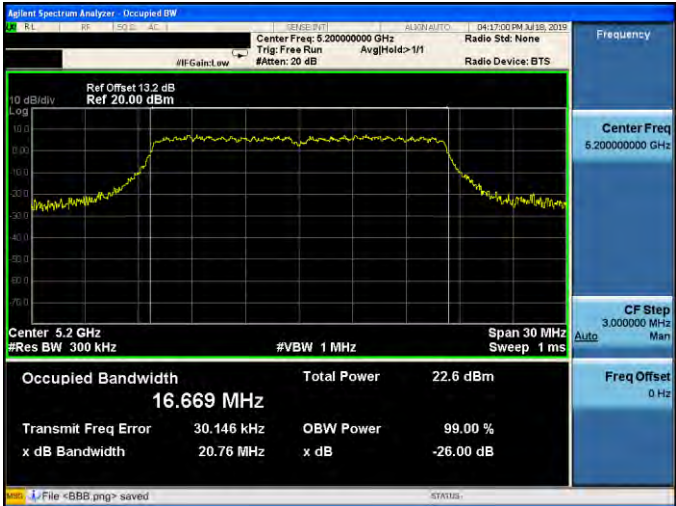


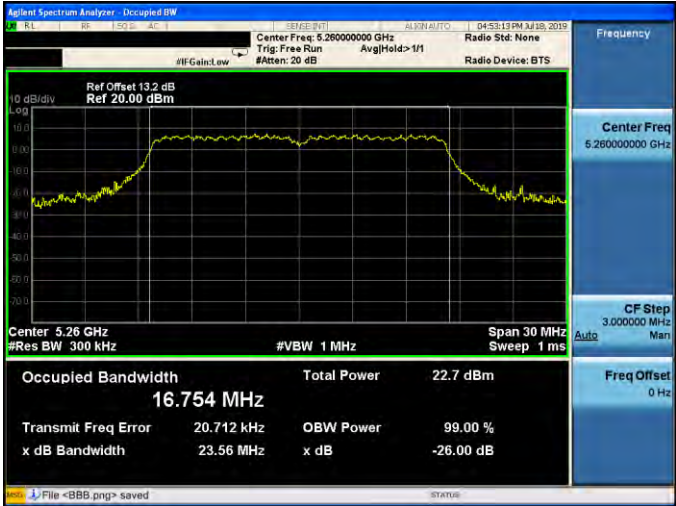
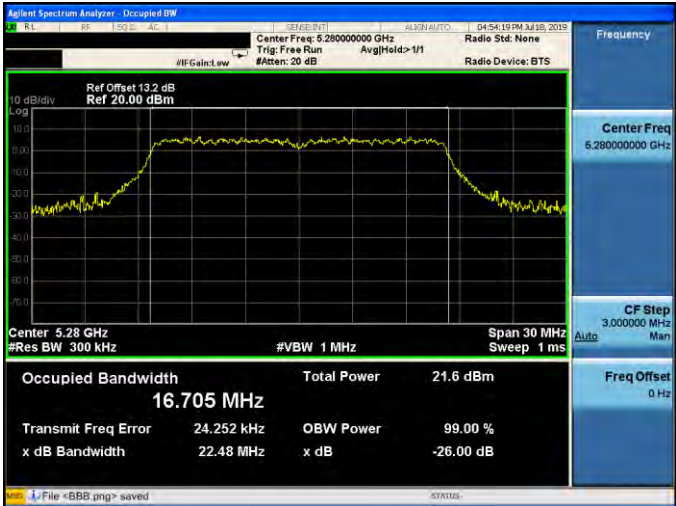
Mode 10: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0	
CH102	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.51000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.51 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms Occupied Bandwidth 36.604 MHz Total Power 15.4 dBm Transmit Freq Error 89.547 kHz OBW Power 99.00 % x dB Bandwidth 42.96 MHz x dB -26.00 dB File <BBB.png> saved
CH110	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.55000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.55 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms Occupied Bandwidth 36.549 MHz Total Power 24.0 dBm Transmit Freq Error 27.248 kHz OBW Power 99.00 % x dB Bandwidth 43.09 MHz x dB -26.00 dB File <BBB.png> saved
CH134	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.67000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.67 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms Occupied Bandwidth 36.705 MHz Total Power 17.0 dBm Transmit Freq Error -10.560 kHz OBW Power 99.00 % x dB Bandwidth 43.39 MHz x dB -26.00 dB File <BBB.png> saved

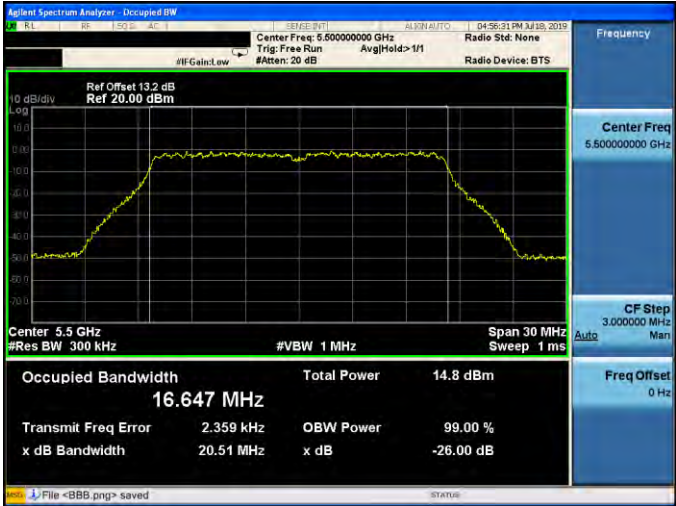
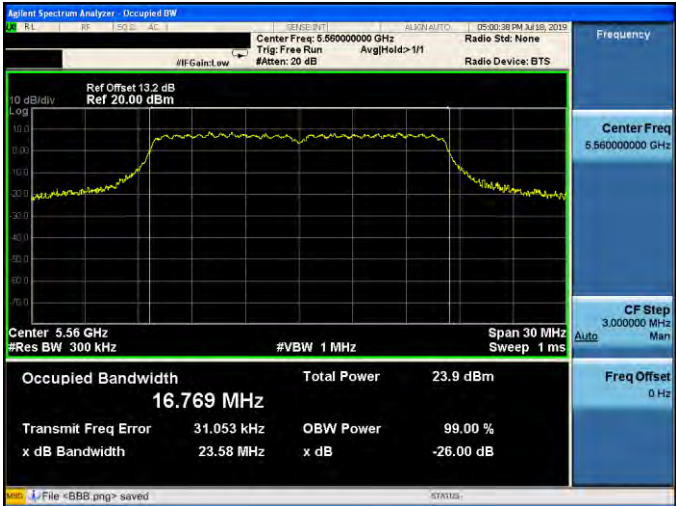
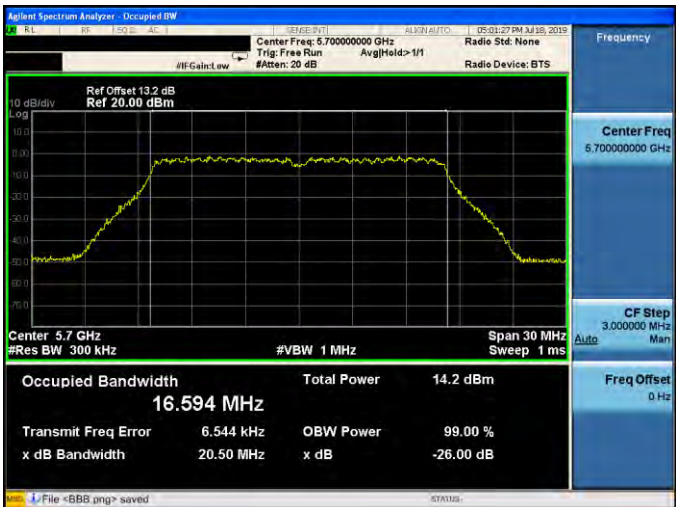


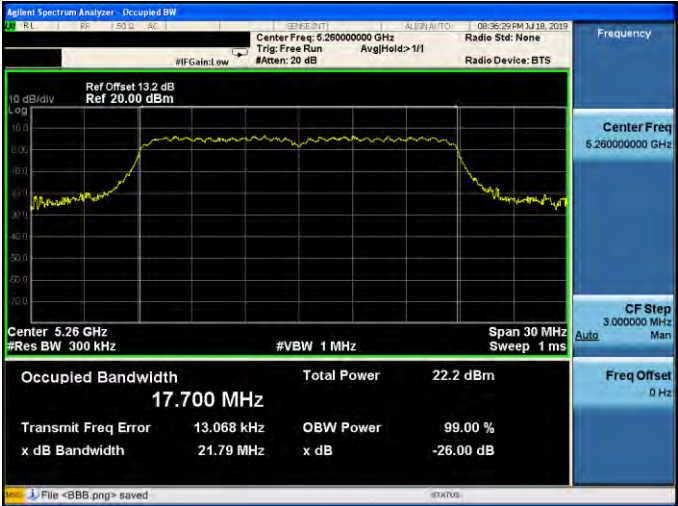
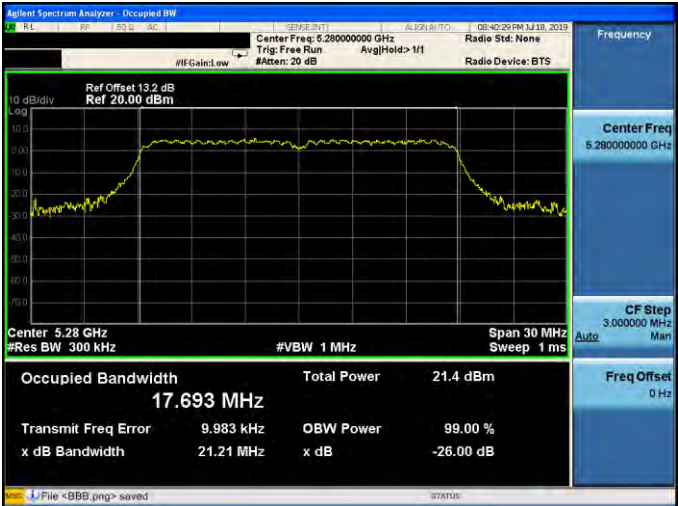




Mode 6: IEEE 802.11a Continuous TX Mode_ANT-1	
CH36	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.180000000 GHz Trig: Free Run Avg/Hold: > 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.606 MHz Total Power 19.3 dBm Transmit Freq Error 19.538 kHz OBW Power 99.00 % x dB Bandwidth 20.54 MHz x dB -26.00 dB Center Freq 5.180000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz 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 Ref Offset 13.2 dB Ref 20.00 dBm Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.669 MHz Total Power 22.6 dBm Transmit Freq Error 30.146 kHz OBW Power 99.00 % x dB Bandwidth 20.76 MHz x dB -26.00 dB Center Freq 5.200000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz 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 Ref Offset 13.2 dB Ref 20.00 dBm Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.704 MHz Total Power 22.7 dBm Transmit Freq Error 23.814 kHz OBW Power 99.00 % x dB Bandwidth 22.68 MHz x dB -26.00 dB Center Freq 5.240000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz File <BBB.png> saved

Mode 6: IEEE 802.11a Continuous TX Mode_ANT-1	
CH52	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.26000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.26 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.754 MHz Total Power 22.7 dBm Transmit Freq Error 20.712 kHz OBW Power 99.00 % x dB Bandwidth 23.56 MHz x dB -26.00 dB Center Freq 5.26000000 GHz CF Step 3.00000 MHz Freq Offset 0 Hz
CH56	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.28000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.705 MHz Total Power 21.6 dBm Transmit Freq Error 24.252 kHz OBW Power 99.00 % x dB Bandwidth 22.48 MHz x dB -26.00 dB Center Freq 5.28000000 GHz CF Step 3.00000 MHz Freq Offset 0 Hz
CH64	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.32000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.32 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 16.621 MHz Total Power 18.2 dBm Transmit Freq Error 25.406 kHz OBW Power 99.00 % x dB Bandwidth 20.49 MHz x dB -26.00 dB Center Freq 5.32000000 GHz CF Step 3.00000 MHz Freq Offset 0 Hz

Mode 6: IEEE 802.11a Continuous TX Mode_ANT-1	
CH100	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.50000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.5 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth: 16.647 MHz Total Power: 14.8 dBm Transmit Freq Error: 2.359 kHz OBW Power: 99.00 % x dB Bandwidth: 20.51 MHz x dB: -26.00 dB Center Freq: 5.50000000 GHz CF Step: 3.00000 MHz Freq Offset: 0 Hz
CH112	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.56000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.56 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth: 16.769 MHz Total Power: 23.9 dBm Transmit Freq Error: 31.053 kHz OBW Power: 99.00 % x dB Bandwidth: 23.58 MHz x dB: -26.00 dB Center Freq: 5.56000000 GHz CF Step: 3.00000 MHz Freq Offset: 0 Hz
CH140	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.70000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.7 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth: 16.594 MHz Total Power: 14.2 dBm Transmit Freq Error: 6.544 kHz OBW Power: 99.00 % x dB Bandwidth: 20.50 MHz x dB: -26.00 dB Center Freq: 5.70000000 GHz CF Step: 3.00000 MHz Freq Offset: 0 Hz

Mode 7: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-0	
CH52	
CH56	
CH64	

Mode 7: 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 Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset: 13.2 dB Ref: 20.00 dBm Center: 5.5 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms Occupied Bandwidth: 17.658 MHz Total Power: 15.4 dBm Transmit Freq Error: -1.842 kHz OBW Power: 99.00 % x dB Bandwidth: 20.97 MHz x dB: -26.00 dB File <BBB.png> saved
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 Offset: 13.2 dB Ref: 20.00 dBm Center: 5.56 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms Occupied Bandwidth: 17.683 MHz Total Power: 22.0 dBm Transmit Freq Error: 5.915 kHz OBW Power: 99.00 % x dB Bandwidth: 21.51 MHz x dB: -26.00 dB File <BBB.png> saved
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 Offset: 13.2 dB Ref: 20.00 dBm Center: 5.7 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms Occupied Bandwidth: 17.651 MHz Total Power: 14.9 dBm Transmit Freq Error: -8.193 kHz OBW Power: 99.00 % x dB Bandwidth: 20.81 MHz x dB: -26.00 dB File <BBB.png> saved

Mode 8: IEEE 802.11n 5 GHz 24 MHz Continuous TX Mode_ANT-0

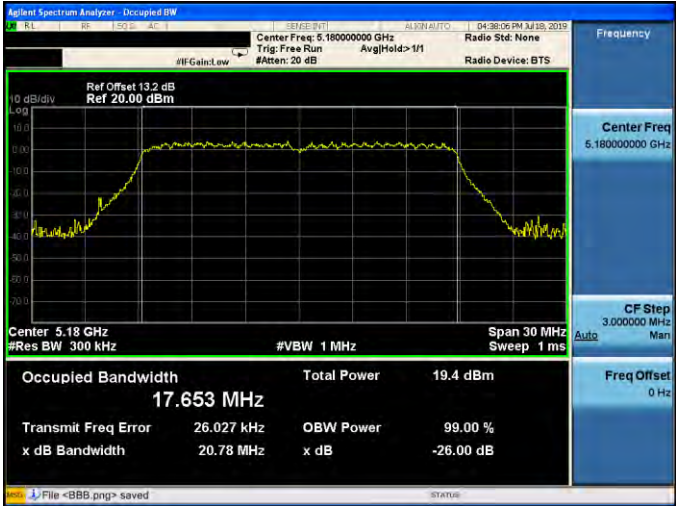
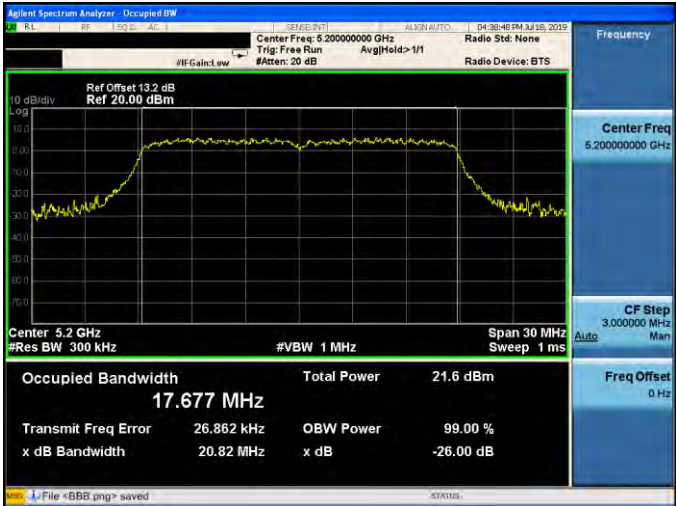
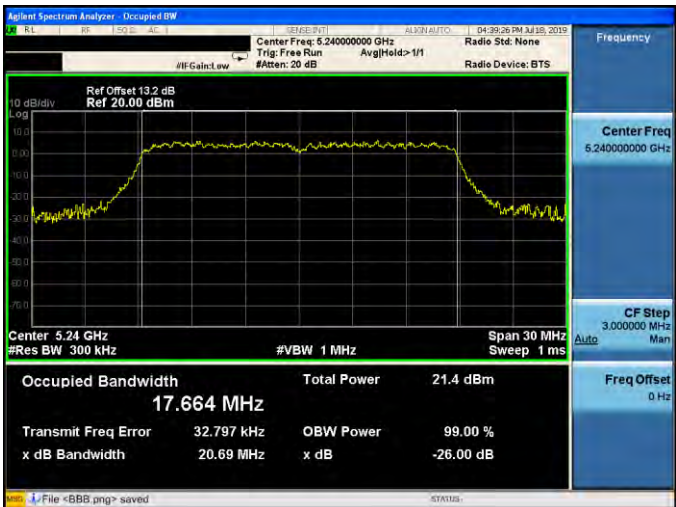
CH54

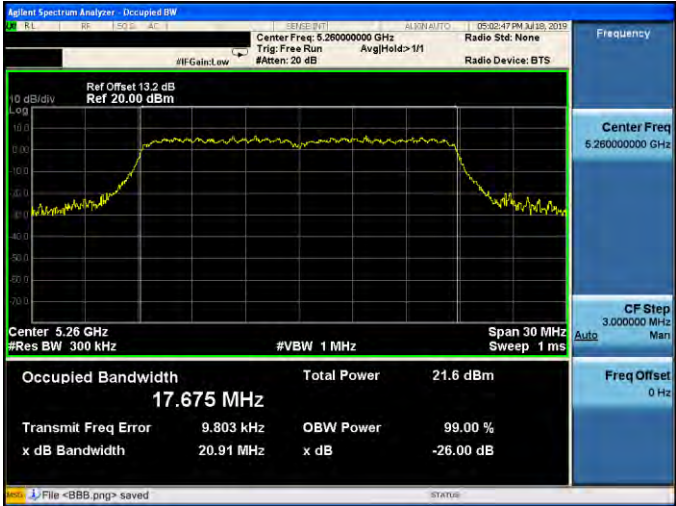
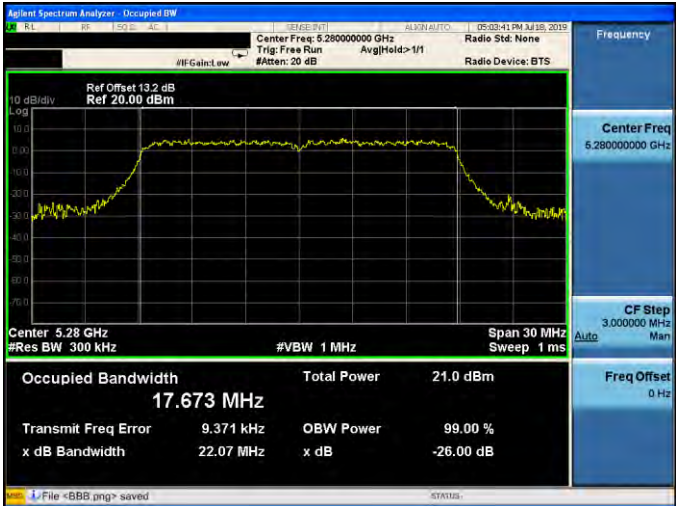
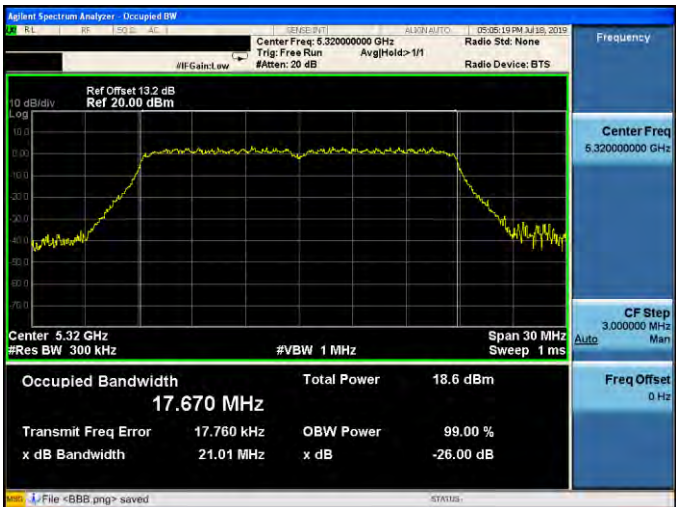


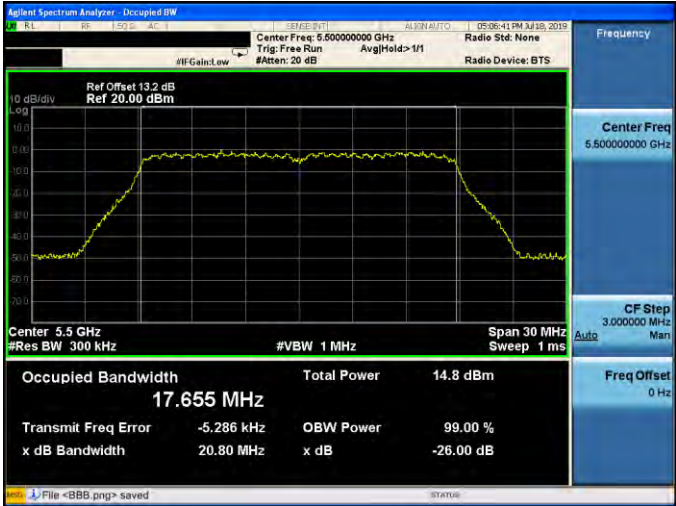
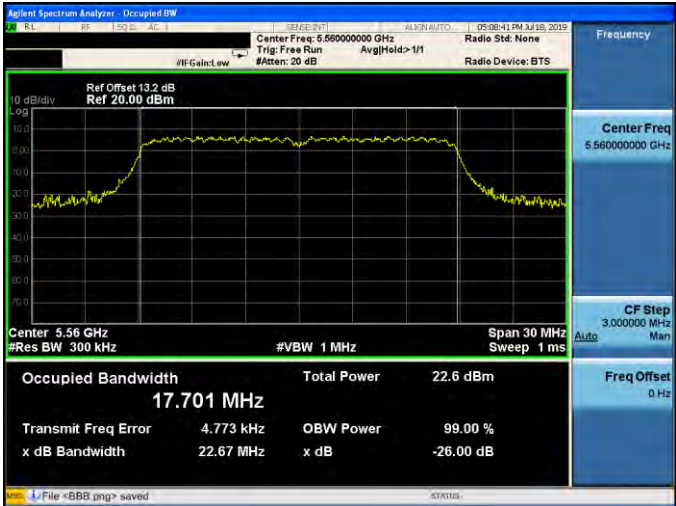
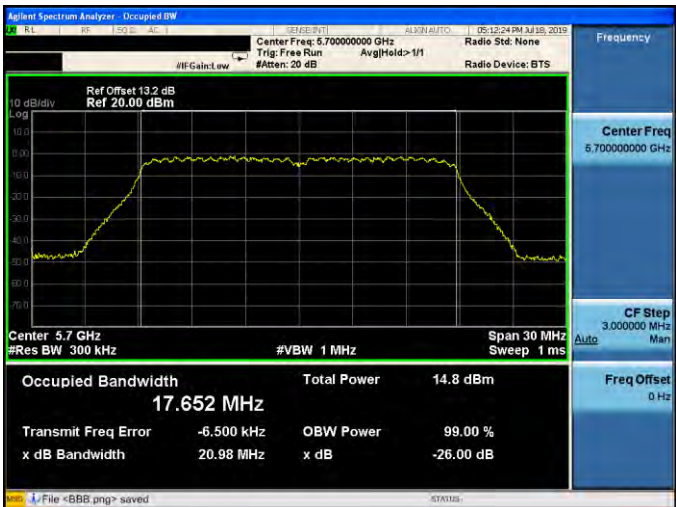
CH62



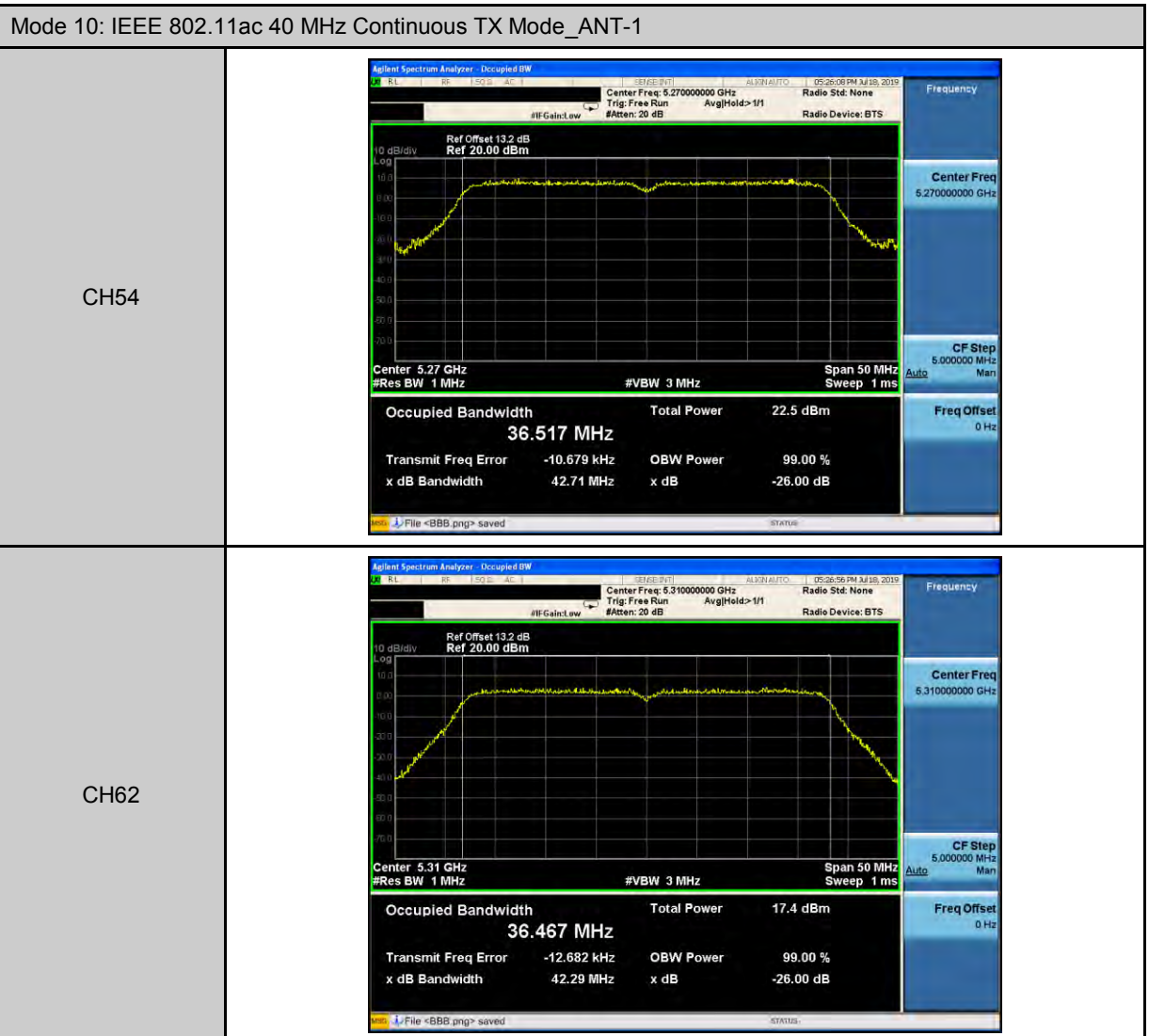
Mode 8: IEEE 802.11n 5 GHz 24 MHz Continuous TX Mode_ANT-0	
CH102	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.51000000 GHz Ref Offset: 13.2 dB Ref: 20.00 dBm Occupied Bandwidth: 36.502 MHz Total Power: 13.6 dBm Transmit Freq Error: -34.974 kHz OBW Power: 99.00 % x dB Bandwidth: 42.73 MHz x dB: -26.00 dB
CH110	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.55000000 GHz Ref Offset: 13.2 dB Ref: 20.00 dBm Occupied Bandwidth: 36.543 MHz Total Power: 23.9 dBm Transmit Freq Error: -1.943 kHz OBW Power: 99.00 % x dB Bandwidth: 43.21 MHz x dB: -26.00 dB
CH134	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.67000000 GHz Ref Offset: 13.2 dB Ref: 20.00 dBm Occupied Bandwidth: 36.444 MHz Total Power: 14.4 dBm Transmit Freq Error: -47.645 kHz OBW Power: 99.00 % x dB Bandwidth: 41.99 MHz x dB: -26.00 dB

Mode 9: IEEE 802.11ac 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 Ref Offset 13.2 dB Ref 20.00 dBm Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.653 MHz Total Power 19.4 dBm Transmit Freq Error 26.027 kHz OBW Power 99.00 % x dB Bandwidth 20.78 MHz x dB -26.00 dB Center Freq 5.180000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz 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 Ref Offset 13.2 dB Ref 20.00 dBm Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.677 MHz Total Power 21.6 dBm Transmit Freq Error 26.862 kHz OBW Power 99.00 % x dB Bandwidth 20.82 MHz x dB -26.00 dB Center Freq 5.200000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz 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 Ref Offset 13.2 dB Ref 20.00 dBm Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.664 MHz Total Power 21.4 dBm Transmit Freq Error 32.797 kHz OBW Power 99.00 % x dB Bandwidth 20.69 MHz x dB -26.00 dB Center Freq 5.240000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz File <BBB.png> saved

Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1	
CH52	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.26000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.26 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.675 MHz Total Power 21.6 dBm Transmit Freq Error 9.803 kHz OBW Power 99.00 % x dB Bandwidth 20.91 MHz x dB -26.00 dB Center Freq 5.26000000 GHz CF Step 3.00000 MHz Freq Offset 0 Hz File <BBB.png> saved
CH56	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.28000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.673 MHz Total Power 21.0 dBm Transmit Freq Error 9.371 kHz OBW Power 99.00 % x dB Bandwidth 22.07 MHz x dB -26.00 dB Center Freq 5.28000000 GHz CF Step 3.00000 MHz Freq Offset 0 Hz File <BBB.png> saved
CH64	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.32000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm Center 5.32 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.670 MHz Total Power 18.6 dBm Transmit Freq Error 17.760 kHz OBW Power 99.00 % x dB Bandwidth 21.01 MHz x dB -26.00 dB Center Freq 5.32000000 GHz CF Step 3.00000 MHz Freq Offset 0 Hz File <BBB.png> saved

Mode 9: IEEE 802.11ac 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 Offset 13.2 dB Ref 20.00 dBm Center 5.5 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.655 MHz Total Power 14.8 dBm Transmit Freq Error -5.286 kHz OBW Power 99.00 % x dB Bandwidth 20.80 MHz x dB -26.00 dB Center Freq 5.500000000 GHz CF Step 3.00000 MHz Freq Offset 0 Hz File <BBB.png> saved
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 Offset 13.2 dB Ref 20.00 dBm Center 5.56 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.701 MHz Total Power 22.6 dBm Transmit Freq Error 4.773 kHz OBW Power 99.00 % x dB Bandwidth 22.67 MHz x dB -26.00 dB Center Freq 5.560000000 GHz CF Step 3.00000 MHz Freq Offset 0 Hz File <BBB.png> saved
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 Offset 13.2 dB Ref 20.00 dBm Center 5.7 GHz #Res BW 300 kHz #VBW 1 MHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 17.652 MHz Total Power 14.8 dBm Transmit Freq Error -6.500 kHz OBW Power 99.00 % x dB Bandwidth 20.98 MHz x dB -26.00 dB Center Freq 5.700000000 GHz CF Step 3.00000 MHz Freq Offset 0 Hz File <BBB.png> saved





Mode 10: 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 Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.51 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms Occupied Bandwidth 36.434 MHz Total Power 13.5 dBm Transmit Freq Error 3.780 kHz OBW Power 99.00 % x dB Bandwidth 42.61 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 Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.55 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms Occupied Bandwidth 36.516 MHz Total Power 23.7 dBm Transmit Freq Error -17.295 kHz OBW Power 99.00 % x dB Bandwidth 42.93 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 Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.67 GHz #Res BW 1 MHz #VBW 3 MHz Span 50 MHz Sweep 1 ms Occupied Bandwidth 36.453 MHz Total Power 14.6 dBm Transmit Freq Error -10.249 kHz OBW Power 99.00 % x dB Bandwidth 42.39 MHz x dB -26.00 dB File <BBB.png> saved



Mode 11: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-1

CH106



Mode 12: IEEE 802.11ac 160 MHz Continuous TX Mode_ANT-1

CH50

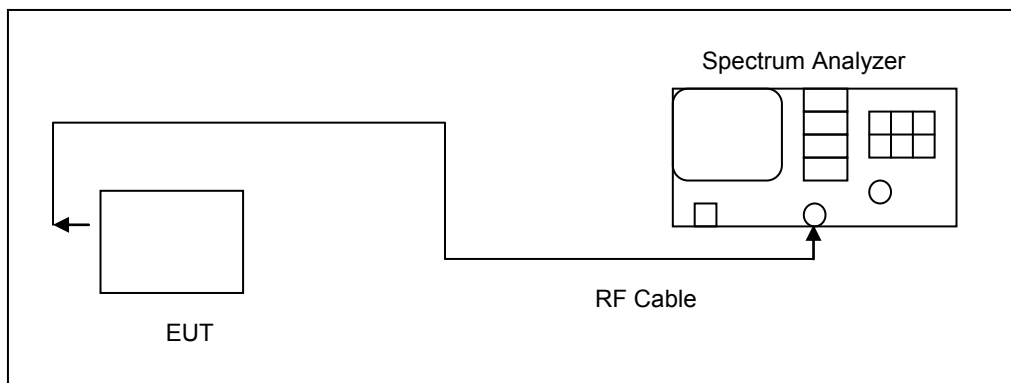


4.3.5 6 dB頻寬之要求

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：



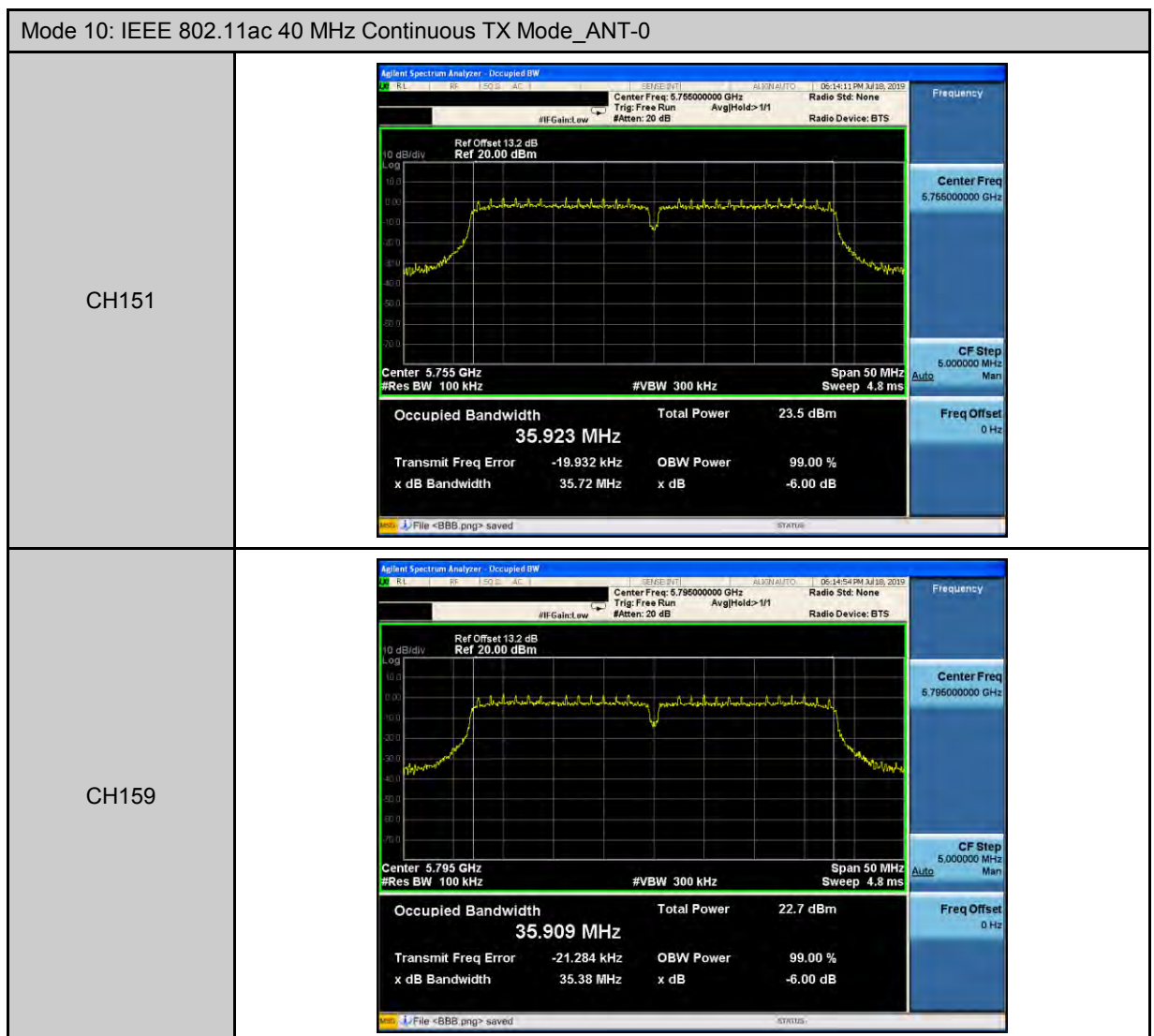
測試結果:

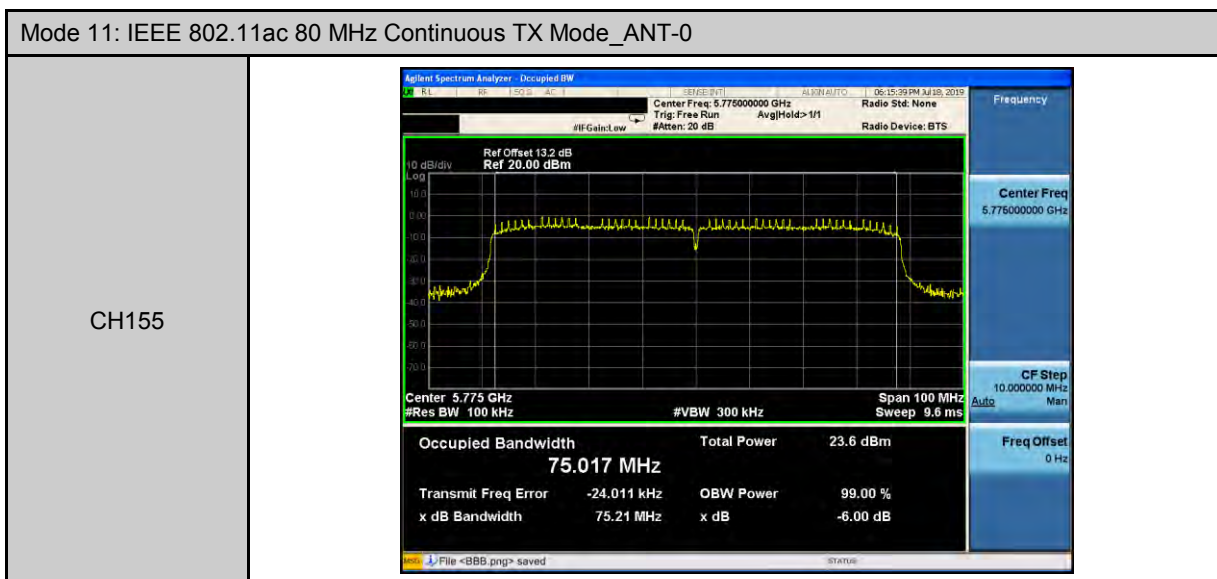
操作模式	: Mode 6 / Mode 9 / Mode 10 / Mode 11
測試結果	: 合格

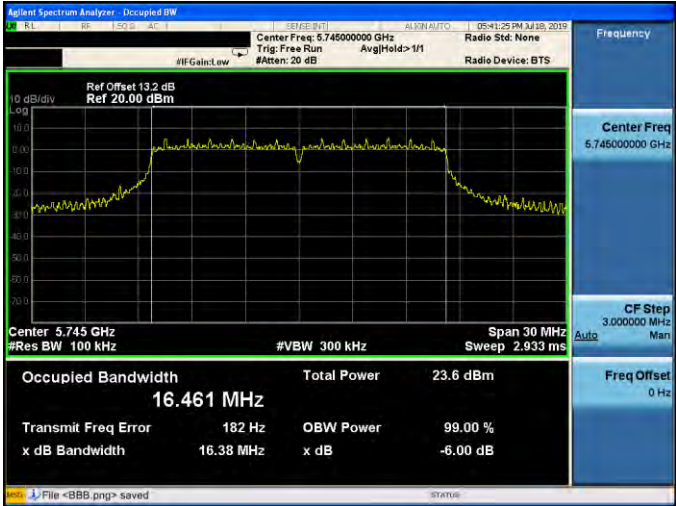
操作模式	頻道 (CH)	頻率 (MHz)	6 dB 頻寬量測值 (kHz)		限制值 (kHz)
			ANT-0	ANT-1	
Mode 6	149	5745.0	16370	16380	≥ 500
	157	5785.0	16360	16390	≥ 500
	165	5825.0	16380	16390	≥ 500
Mode 9	149	5745.0	17170	17270	≥ 500
	157	5785.0	17120	17310	≥ 500
	165	5825.0	17170	17580	≥ 500
Mode 10	151	5755.0	35720	35690	≥ 500
	159	5795.0	35380	35190	≥ 500
Mode 11	155	5775.0	75210	75150	≥ 500

Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0	
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 Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 16.478 MHz Total Power 24.4 dBm Transmit Freq Error -3.440 kHz OBW Power 99.00 % x dB Bandwidth 16.37 MHz x dB -6.00 dB File <BBB.png> saved Frequency Center Freq 5.745000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz
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 Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 16.468 MHz Total Power 23.9 dBm Transmit Freq Error 56 Hz OBW Power 99.00 % x dB Bandwidth 16.36 MHz x dB -6.00 dB File <BBB.png> saved Frequency Center Freq 5.785000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz
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 Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 16.462 MHz Total Power 23.4 dBm Transmit Freq Error 887 Hz OBW Power 99.00 % x dB Bandwidth 16.38 MHz x dB -6.00 dB File <BBB.png> saved Frequency Center Freq 5.825000000 GHz CF Step 3.000000 MHz Freq Offset 0 Hz

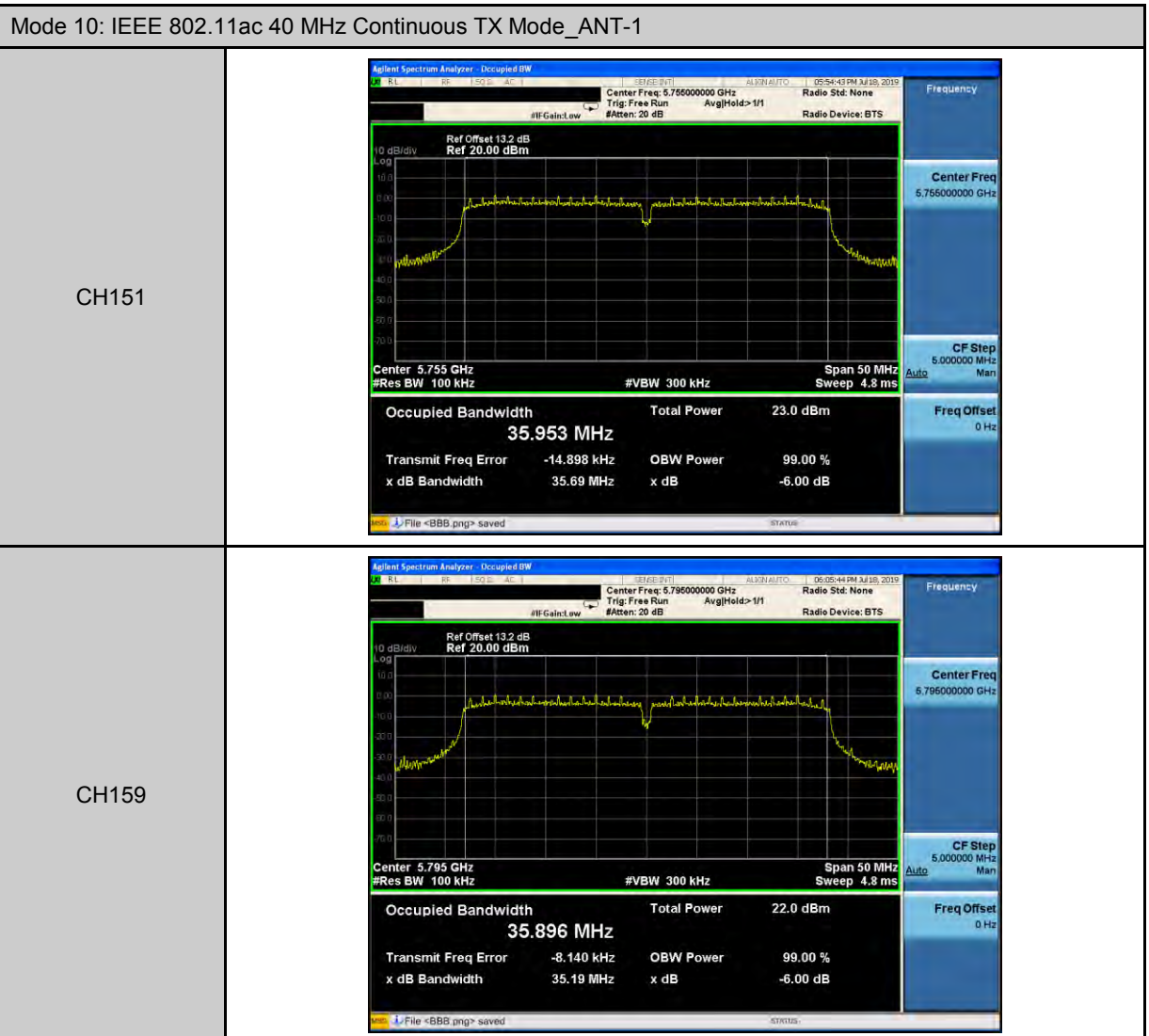
Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
CH149	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.745000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.564 MHz Total Power 23.2 dBm Transmit Freq Error 4.572 kHz OBW Power 99.00 % x dB Bandwidth 17.17 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 Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.578 MHz Total Power 23.2 dBm Transmit Freq Error 226 Hz OBW Power 99.00 % x dB Bandwidth 17.12 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 Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.574 MHz Total Power 22.7 dBm Transmit Freq Error 3.571 kHz OBW Power 99.00 % x dB Bandwidth 17.17 MHz x dB -6.00 dB File <BBB.png> saved STATUS

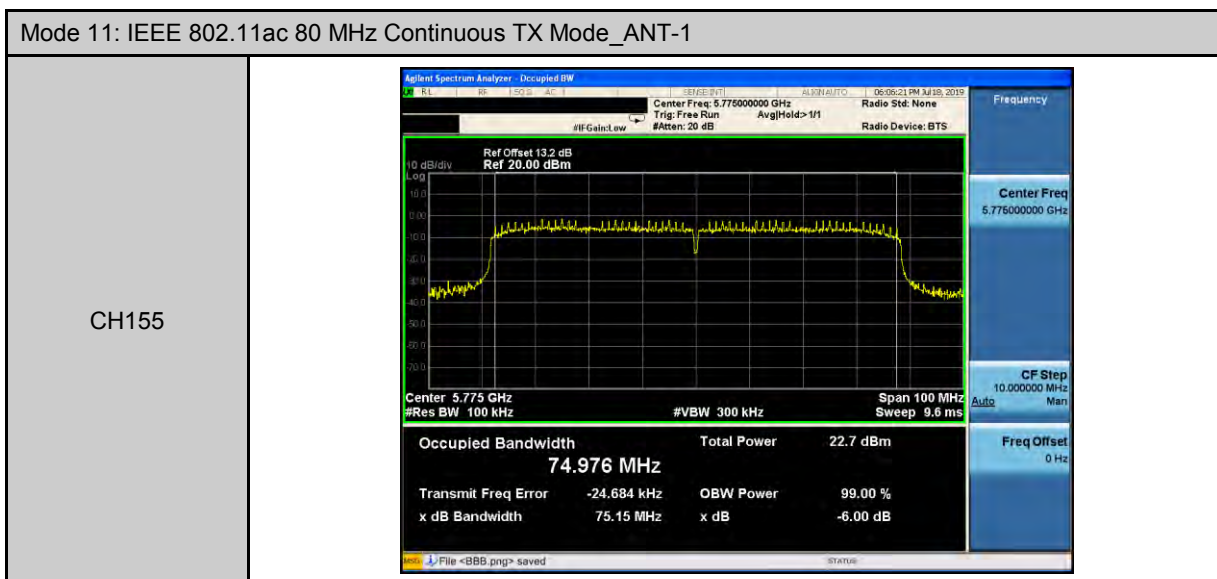




Mode 6: IEEE 802.11a Continuous TX Mode_ANT-1	
CH149	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.745000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 16.461 MHz Total Power 23.6 dBm Transmit Freq Error 182 Hz OBW Power 99.00 % x dB Bandwidth 16.38 MHz x dB -6.00 dB File <BBB.png> saved STATUS Frequency Center Freq 5.745000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
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 Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 16.465 MHz Total Power 23.5 dBm Transmit Freq Error 4.946 kHz OBW Power 99.00 % x dB Bandwidth 16.39 MHz x dB -6.00 dB File <BBB.png> saved STATUS Frequency Center Freq 5.785000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
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 Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 16.457 MHz Total Power 22.4 dBm Transmit Freq Error -2.069 kHz OBW Power 99.00 % x dB Bandwidth 16.39 MHz x dB -6.00 dB File <BBB.png> saved STATUS Frequency Center Freq 5.825000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz

Mode 9: IEEE 802.11ac 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 Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.579 MHz Total Power 22.7 dBm Transmit Freq Error 1.002 kHz OBW Power 99.00 % x dB Bandwidth 17.27 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 Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.574 MHz Total Power 22.1 dBm Transmit Freq Error 9.811 kHz OBW Power 99.00 % x dB Bandwidth 17.31 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 Offset 13.2 dB Ref 20.00 dBm 10 dB/div Log Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.578 MHz Total Power 21.6 dBm Transmit Freq Error 3.615 kHz OBW Power 99.00 % x dB Bandwidth 17.58 MHz x dB -6.00 dB File <BBB.png> saved STATUS



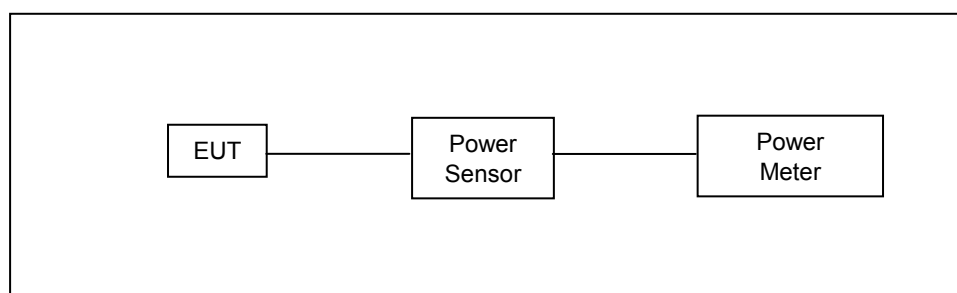


4.3.6 發射功率控制(TPC)之量測

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 = 66.475 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 7: EIRP = 101.054 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 8: EIRP = 91.604 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 8: EIRP = 103.859 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 8: EIRP = 95.433 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 8: EIRP = 18.272 mW < 500 mW , 故不需評估發射功率控制(TPC)。 Mode 8: EIRP = 17.988 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:

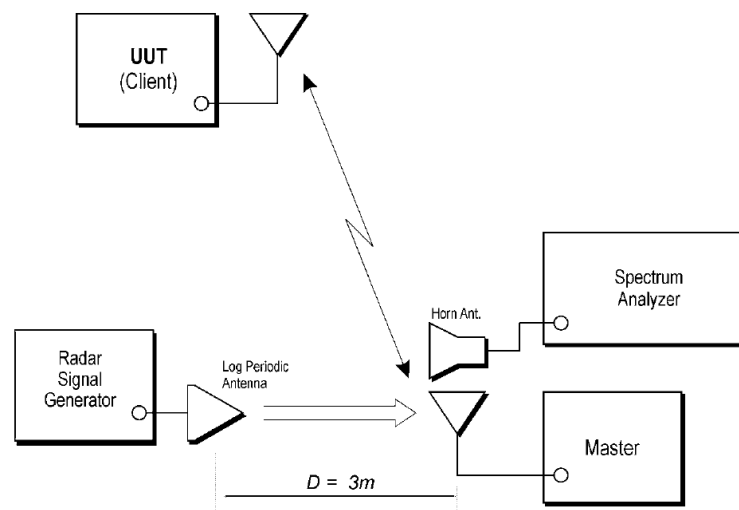
最低動態頻率選擇的偵測門檻

- 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:

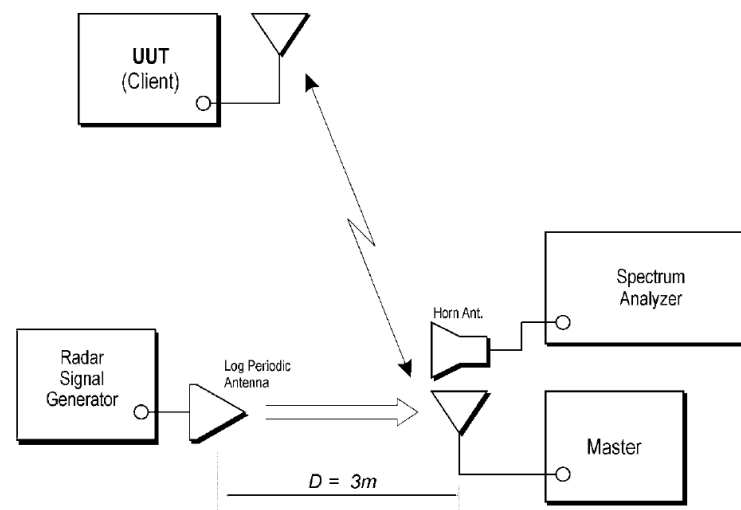
操作模式	: Mode 9 / Mode 10 / Mode 11 / Mode 12
測試結果	: 不適用, 此產品為受控裝置, 因此不須評估動態頻率選擇(DFS)

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：

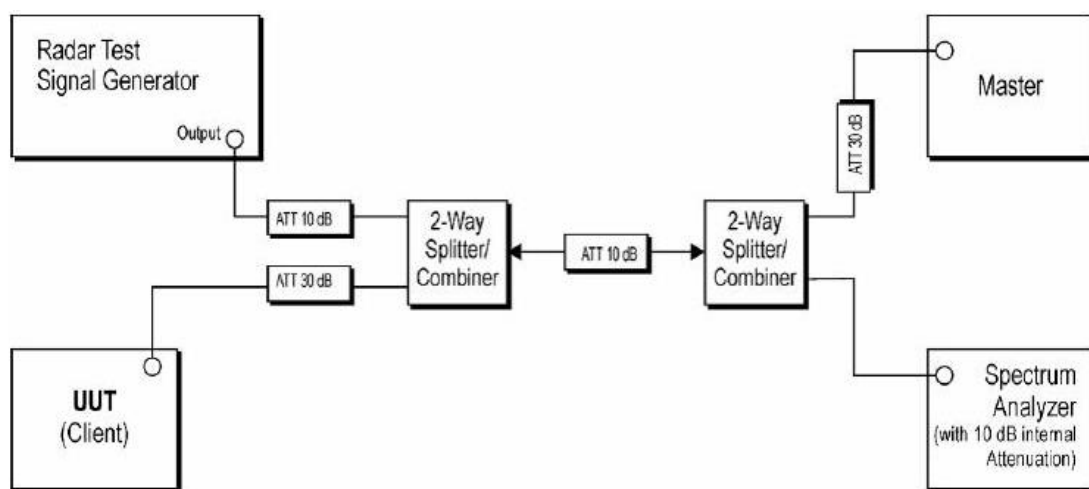
操作模式	: Mode 9
測試結果	: 不適用；此產品為受控裝置，因此不須評估頻道可用性檢查時間

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：



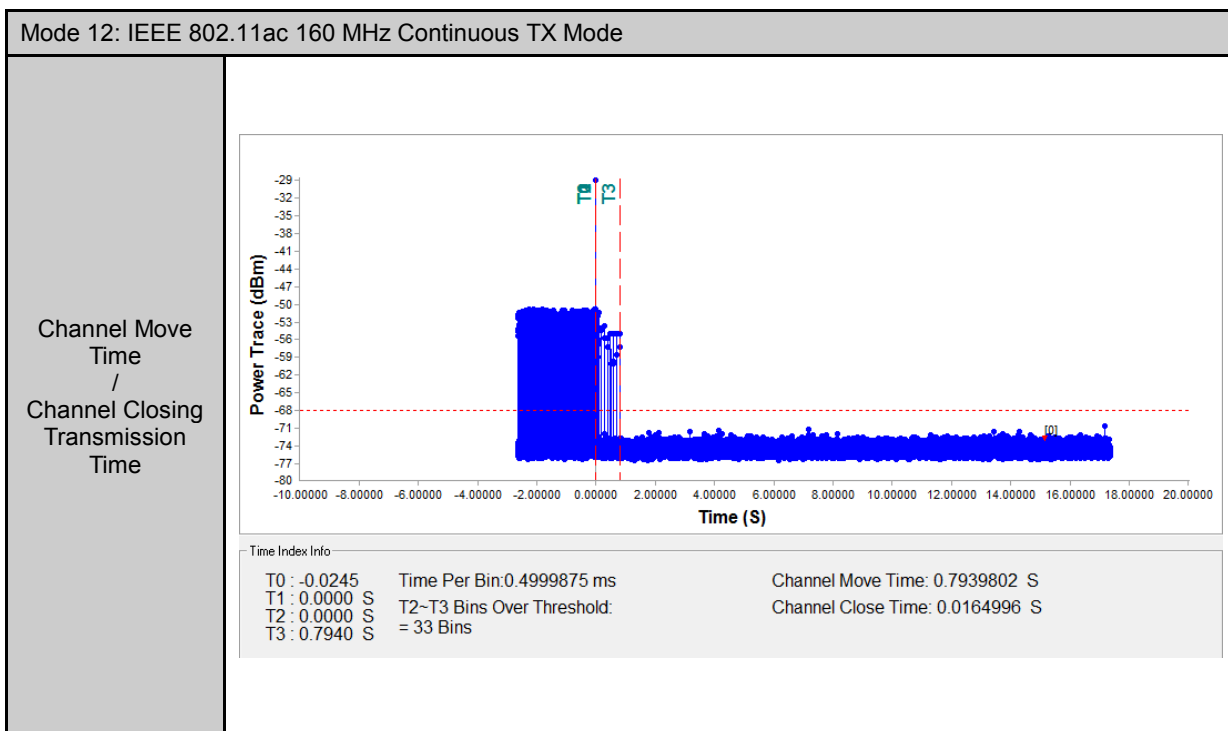
	Product	Manufacturer	Model No.	ID
1.	ASUS Wireless-AX6000 Dual Band Gigabit Router	ASUS	RT-AX88U	FCC : MSQ-RTAXHP00

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)
5250	Type 0	0.7940	10

Frequency (MHz)	Radar Type	Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
5250	Type 0	16.4996	200

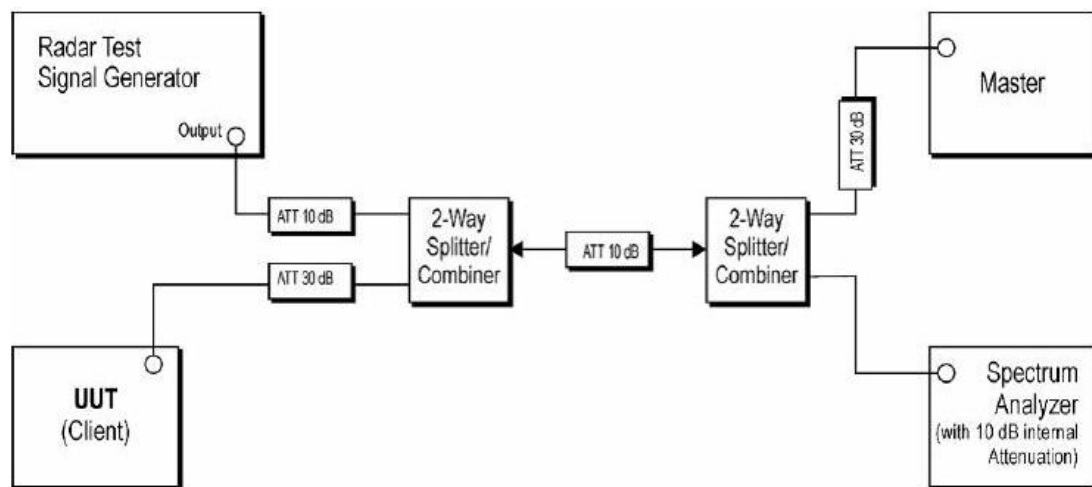


4.3.10 不可佔用時間之量測

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	廠牌	型號	型態	增益值(dBi)
ANT-0	睿翔	SCM_RX/SCM_KX	內建式天線	-0.9
ANT-1	睿翔	SCM_RX/SCM_KX	內建式天線	-1.99

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	16.17	-1.41	0.72	1	29.801	0.0059
	5200.0	1.0	20	19.32	-1.41	0.72	1	61.546	0.0122
	5220.0	1.0	20	19.25	-1.41	0.72	1	60.637	0.0121
	5240.0	1.0	20	19.36	-1.41	0.72	1	62.149	0.0124
	5260.0	1.0	20	19.54	-1.41	0.72	1	64.698	0.0129
	5280.0	1.0	20	19.08	-1.41	0.72	1	58.207	0.0116
	5300.0	1.0	20	19.13	-1.41	0.72	1	58.961	0.0117
	5320.0	1.0	20	15.56	-1.41	0.72	1	25.910	0.0052
	5500.0	1.0	20	11.49	-1.41	0.72	1	10.145	0.0020
	5520.0	1.0	20	19.61	-1.41	0.72	1	65.851	0.0131
	5540.0	1.0	20	19.64	-1.41	0.72	1	66.233	0.0132
	5560.0	1.0	20	19.61	-1.41	0.72	1	65.810	0.0131
	5580.0	1.0	20	19.47	-1.41	0.72	1	63.776	0.0127
	5660.0	1.0	20	19.40	-1.41	0.72	1	62.729	0.0125
	5680.0	1.0	20	19.52	-1.41	0.72	1	64.405	0.0128
	5700.0	1.0	20	11.14	-1.41	0.72	1	9.354	0.0019
	5745.0	1.0	20	19.39	-1.41	0.72	1	62.518	0.0124
	5765.0	1.0	20	19.53	-1.41	0.72	1	64.665	0.0129
	5785.0	1.0	20	19.37	-1.41	0.72	1	62.299	0.0124
	5805.0	1.0	20	19.06	-1.41	0.72	1	57.982	0.0115
	5825.0	1.0	20	19.24	-1.41	0.72	1	60.463	0.0120

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 802.11ac 20 MHz	5180.0	1.0	20	16.10	1.58	1.44	1	58.671	0.0117
	5200.0	1.0	20	18.31	1.58	1.44	1	97.528	0.0194
	5220.0	1.0	20	18.40	1.58	1.44	1	99.555	0.0198
	5240.0	1.0	20	18.51	1.58	1.44	1	102.247	0.0203
	5260.0	1.0	20	18.58	1.58	1.44	1	103.945	0.0207
	5280.0	1.0	20	18.57	1.58	1.44	1	103.657	0.0206
	5300.0	1.0	20	18.35	1.58	1.44	1	98.408	0.0196
	5320.0	1.0	20	16.11	1.58	1.44	1	58.739	0.0117
	5500.0	1.0	20	11.55	1.58	1.44	1	20.575	0.0041
	5520.0	1.0	20	18.35	1.58	1.44	1	98.454	0.0196
	5540.0	1.0	20	18.37	1.58	1.44	1	99.043	0.0197
	5560.0	1.0	20	18.38	1.58	1.44	1	99.197	0.0197
	5580.0	1.0	20	18.29	1.58	1.44	1	97.053	0.0193
	5660.0	1.0	20	18.47	1.58	1.44	1	101.267	0.0201
	5680.0	1.0	20	18.58	1.58	1.44	1	103.797	0.0206
	5700.0	1.0	20	11.02	1.58	1.44	1	18.220	0.0036
	5745.0	1.0	20	18.57	1.58	1.44	1	103.616	0.0206
	5765.0	1.0	20	18.42	1.58	1.44	1	99.992	0.0199
	5785.0	1.0	20	18.43	1.58	1.44	1	100.203	0.0199
	5805.0	1.0	20	18.18	1.58	1.44	1	94.707	0.0188
	5825.0	1.0	20	18.28	1.58	1.44	1	96.855	0.0193

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 802.11ac 40 MHz	5190.0	1.0	20	13.55	1.58	1.44	1	32.599	0.0065
	5230.0	1.0	20	18.43	1.58	1.44	1	100.384	0.0200
	5270.0	1.0	20	18.07	1.58	1.44	1	92.362	0.0184
	5310.0	1.0	20	13.65	1.58	1.44	1	33.357	0.0066
	5510.0	1.0	20	9.62	1.58	1.44	1	13.187	0.0026
	5550.0	1.0	20	18.22	1.58	1.44	1	95.513	0.0190
	5670.0	1.0	20	10.05	1.58	1.44	1	14.569	0.0029
	5755.0	1.0	20	17.93	1.58	1.44	1	89.395	0.0178
	5795.0	1.0	20	17.76	1.58	1.44	1	85.891	0.0171
IEEE 802.11ac 80 MHz	5210.0	1.0	20	11.01	1.58	1.44	1	18.152	0.0036
	5290.0	1.0	20	11.04	1.58	1.44	1	18.288	0.0036
	5530.0	1.0	20	7.52	1.58	1.44	1	8.141	0.0016
	5775.0	1.0	20	17.92	1.58	1.44	1	89.182	0.0177
IEEE 802.11ac 160 MHz	5250.0	1.0	20	10.97	1.58	1.44	1	18.003	0.0036

Simultaneous MPE = 2.4G MPE+5G MPE+ BT MPE = 0.0198+0.0207+0.0012 = 0.0417 mW/cm²

--- END---