

Appendix A_Conduction Data for WiFi 5GHz WIFI:

A1.Emission Bandwidth

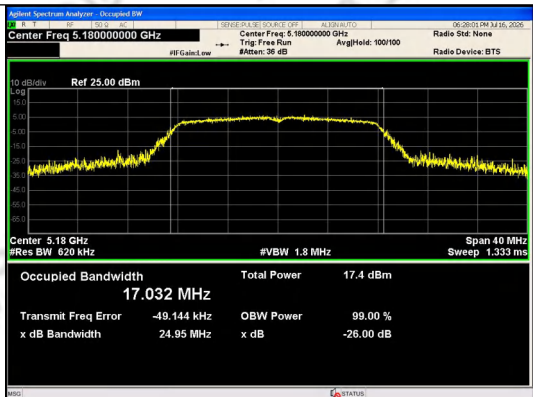
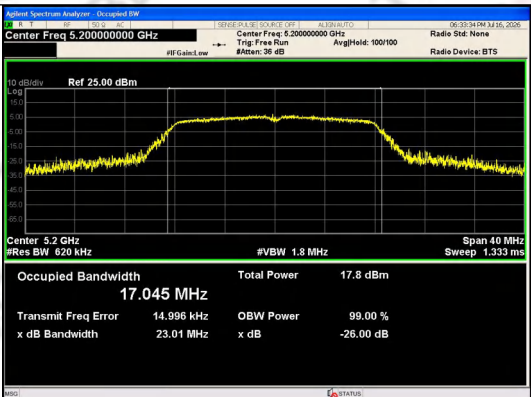
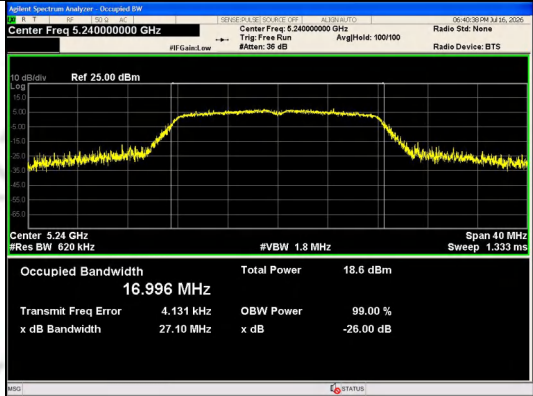
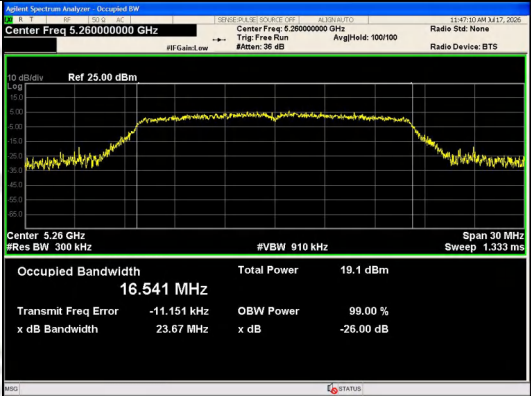
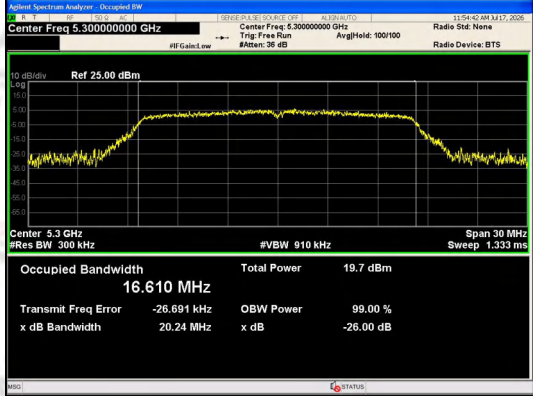
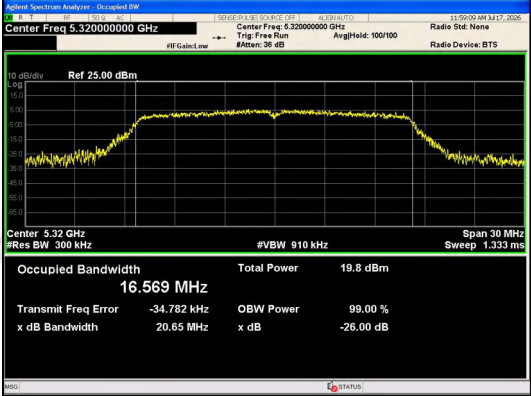
26dB Bandwidth

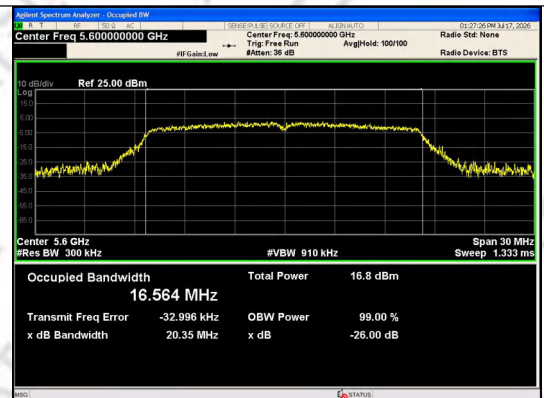
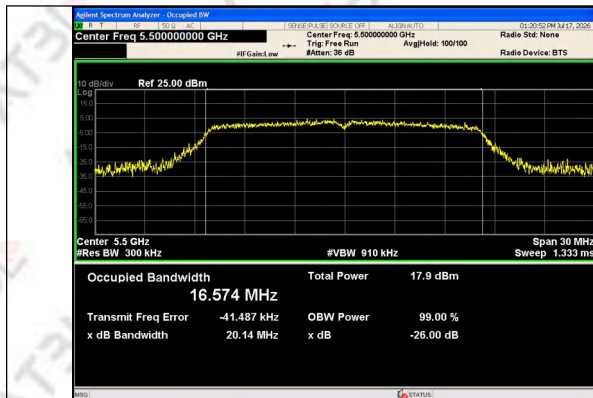
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)
IEEE 802.11a	36	0	5180.0	24.95
	40		5200.0	23.01
	48		5240.0	27.10
	52		5260.0	23.67
	60		5300.0	20.24
	64		5320.0	20.65
	100		5500.0	20.14
	120		5600.0	20.35
	140		5700.0	20.41
IEEE 802.11n_20	36	0	5180.0	27.78
	40		5200.0	32.63
	48		5240.0	29.40
	52		5260.0	20.32
	60		5300.0	20.30
	64		5320.0	20.25
	100		5500.0	25.08
	120		5600.0	24.10
	140		5700.0	24.04
IEEE 802.11n_40	38	0	5190.0	59.80
	46		5230.0	58.62
	54		5270.0	40.25
	62		5310.0	40.23
	102		5510.0	54.32
	118		5590.0	58.57
	134		5670.0	58.68
IEEE 802.11ac_20	36	0	5180.0	25.18
	40		5200.0	27.25
	48		5240.0	27.68
	52		5260.0	25.77
	60		5300.0	20.28
	64		5320.0	20.40
	100		5500.0	23.02
	120		5600.0	24.68
	140		5700.0	21.44
IEEE 802.11ac_40	38	0	5190.0	45.14
	46		5230.0	46.89
	54		5270.0	40.27

IEEE 802.11ac_80	62	5310.0	40.50
	102	5510.0	40.78
	118	5590.0	40.67
	134	5670.0	40.57
	42	5210.0	90.26
	58	5290.0	80.34
	106	5530.0	92.35
	122	5610.0	81.12

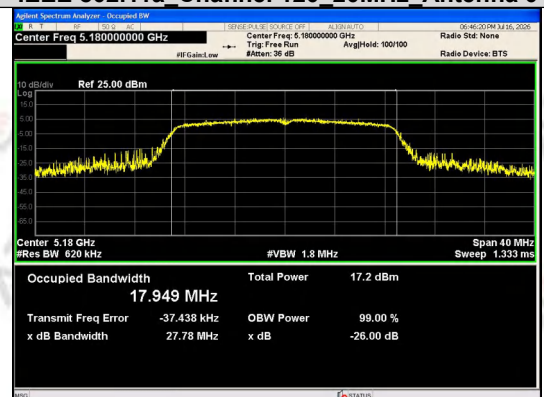
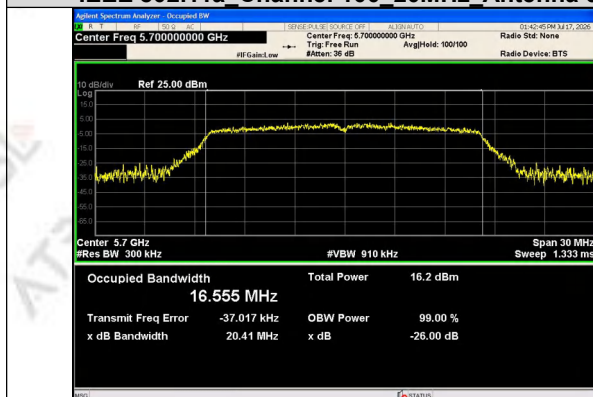
Test Graphs

 Center Freq 5.180000000 GHz #Res BW 620 kHz #VBW 1.3 MHz Span 40 MHz Sweep 1.333 ms Occupied Bandwidth 17.032 MHz Total Power 17.4 dBm Transmit Freq Error -49.144 kHz x dB Bandwidth 24.95 MHz OBW Power 99.00 % x dB -26.00 dB	 Center Freq 5.200000000 GHz #Res BW 620 kHz #VBW 1.3 MHz Span 40 MHz Sweep 1.333 ms Occupied Bandwidth 17.045 MHz Total Power 17.8 dBm Transmit Freq Error 14.996 kHz x dB Bandwidth 23.01 MHz OBW Power 99.00 % x dB -26.00 dB
IEEE 802.11a Channel 36 20MHz Antenna 0	IEEE 802.11a Channel 40 20MHz Antenna 0
 Center Freq 5.240000000 GHz #Res BW 620 kHz #VBW 1.3 MHz Span 40 MHz Sweep 1.333 ms Occupied Bandwidth 16.996 MHz Total Power 18.6 dBm Transmit Freq Error 4.131 kHz x dB Bandwidth 27.10 MHz OBW Power 99.00 % x dB -26.00 dB	 Center Freq 5.260000000 GHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz Sweep 1.333 ms Occupied Bandwidth 16.541 MHz Total Power 19.1 dBm Transmit Freq Error -11.151 kHz x dB Bandwidth 23.67 MHz OBW Power 99.00 % x dB -26.00 dB
IEEE 802.11a Channel 48 20MHz Antenna 0	IEEE 802.11a Channel 52 20MHz Antenna 0
 Center Freq 5.300000000 GHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz Sweep 1.333 ms Occupied Bandwidth 16.610 MHz Total Power 19.7 dBm Transmit Freq Error -26.691 kHz x dB Bandwidth 20.24 MHz OBW Power 99.00 % x dB -26.00 dB	 Center Freq 5.320000000 GHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz Sweep 1.333 ms Occupied Bandwidth 16.569 MHz Total Power 19.8 dBm Transmit Freq Error -34.782 kHz x dB Bandwidth 20.65 MHz OBW Power 99.00 % x dB -26.00 dB
IEEE 802.11a Channel 60 20MHz Antenna 0	IEEE 802.11a Channel 64 20MHz Antenna 0



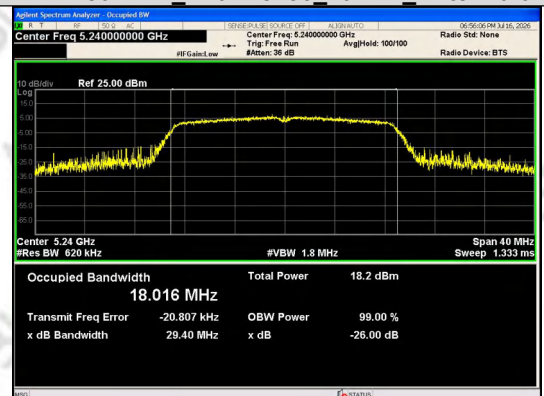
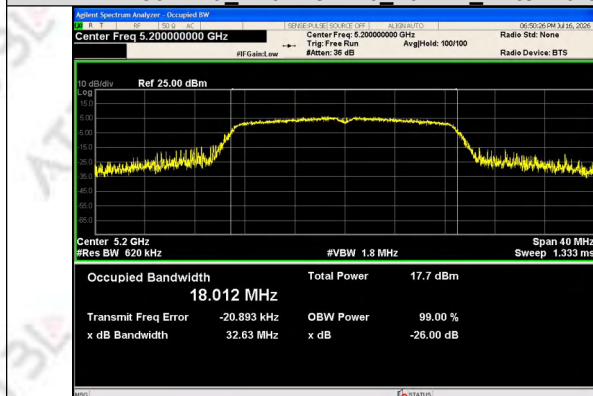
IEEE 802.11a Channel 100_20MHz_Antenna 0

IEEE 802.11a Channel 120_20MHz_Antenna 0



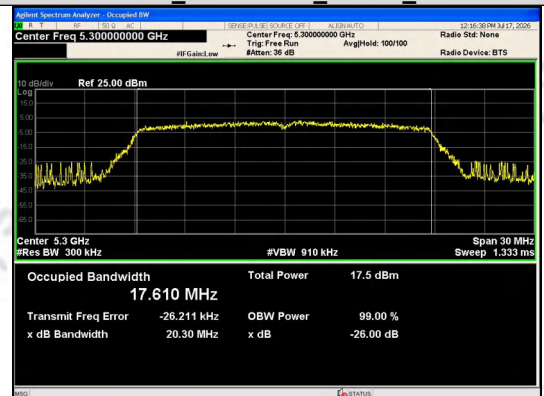
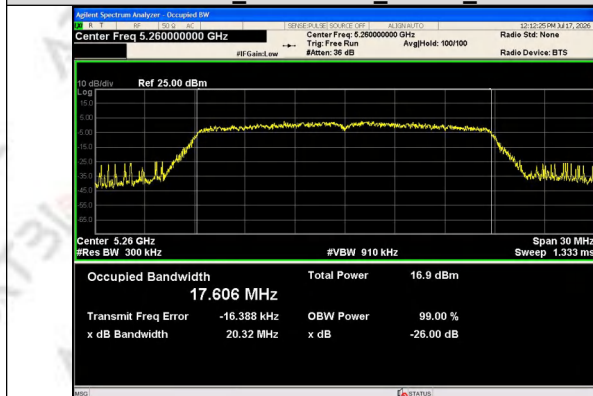
IEEE 802.11a Channel 140_20MHz_Antenna 0

IEEE 802.11n Channel 36_20MHz_Antenna 0



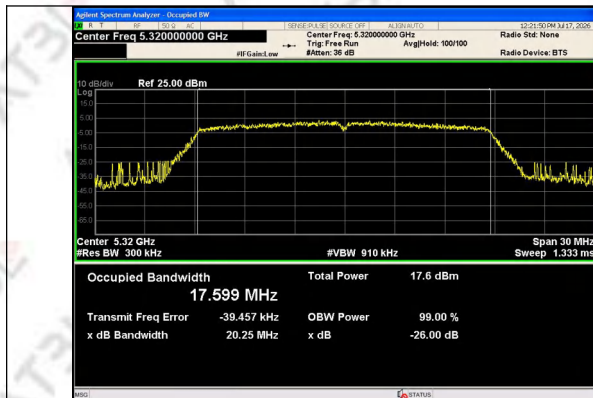
IEEE 802.11n Channel 40_20MHz_Antenna 0

IEEE 802.11n Channel 48_20MHz_Antenna 0



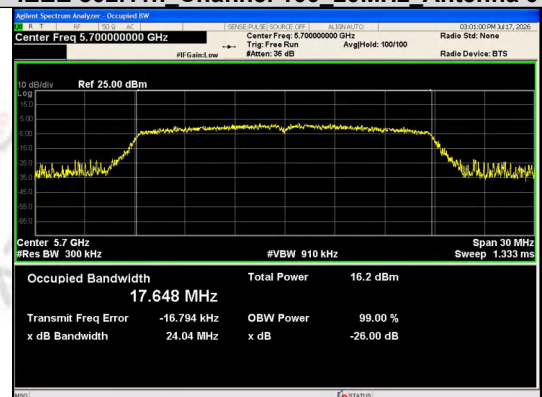
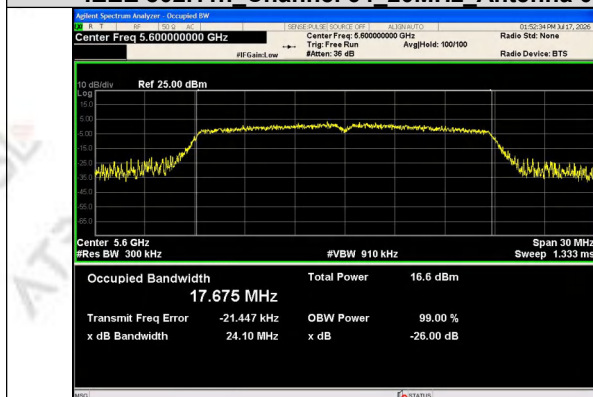
IEEE 802.11n Channel 52_20MHz_Antenna 0

IEEE 802.11n Channel 60_20MHz_Antenna 0



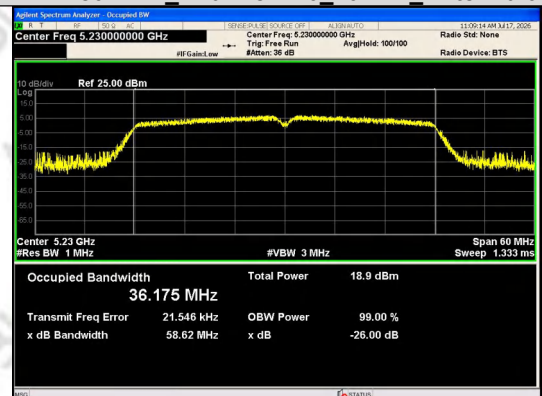
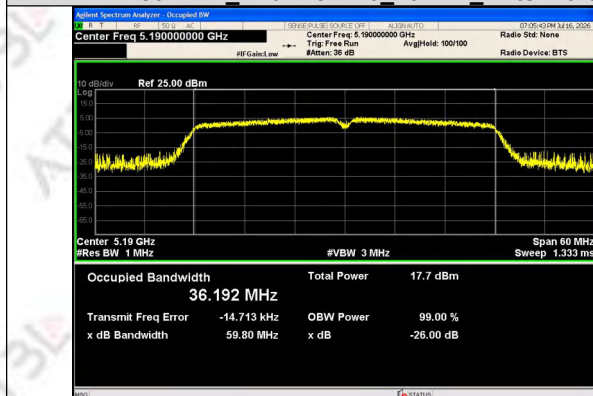
IEEE 802.11n Channel 64 20MHz Antenna 0

IEEE 802.11n Channel 100 20MHz Antenna 0



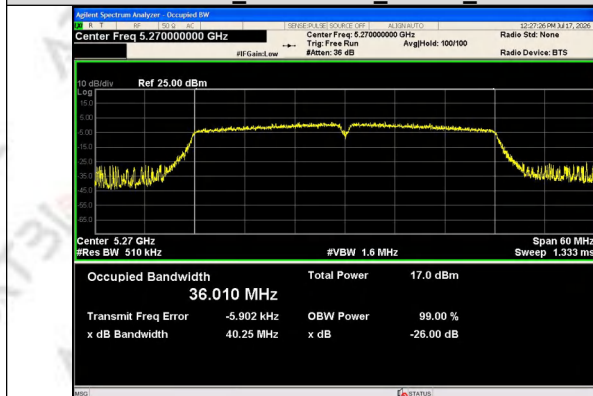
IEEE 802.11n Channel 120 20MHz Antenna 0

IEEE 802.11n Channel 140 20MHz Antenna 0



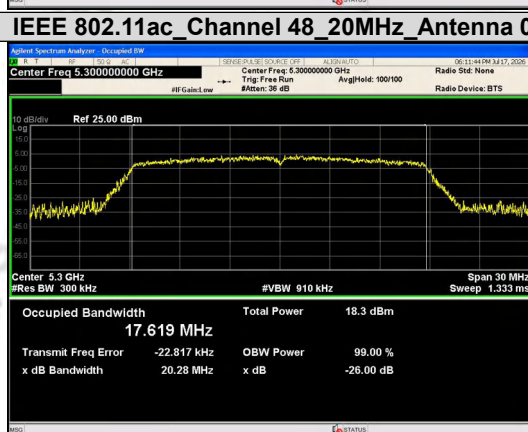
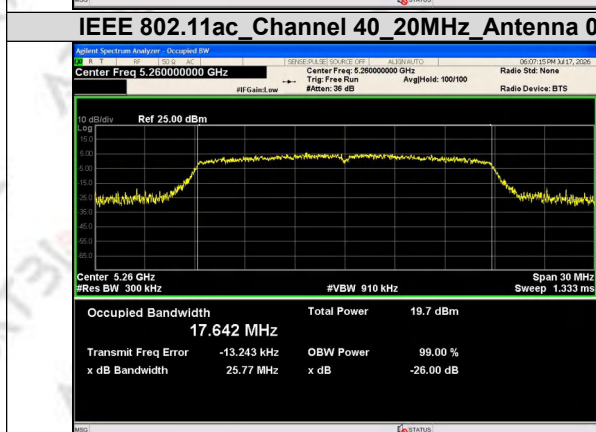
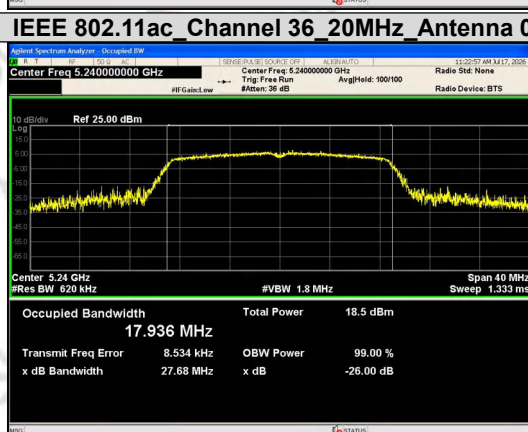
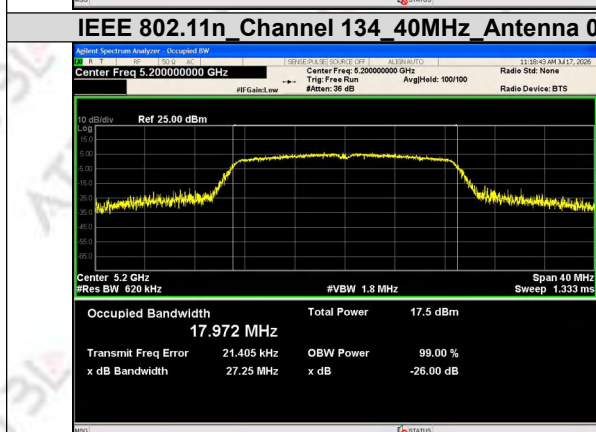
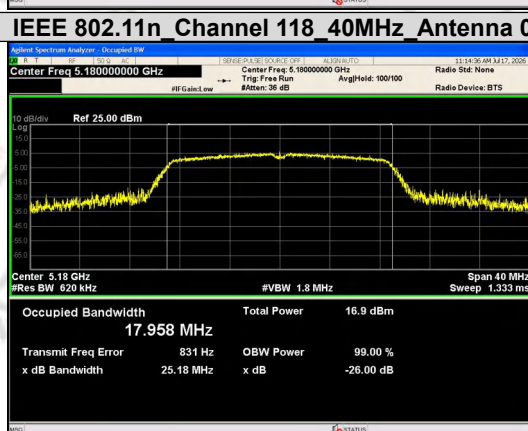
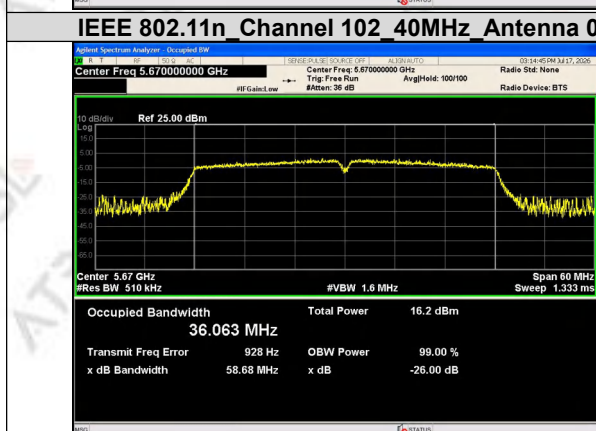
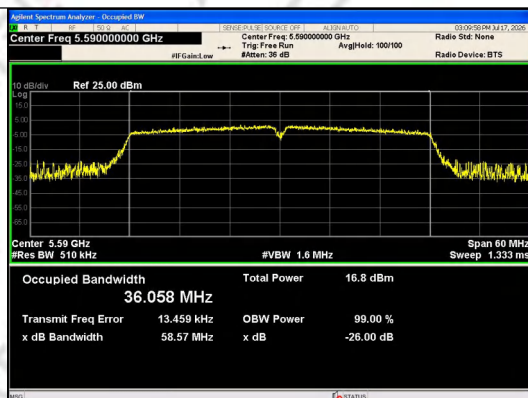
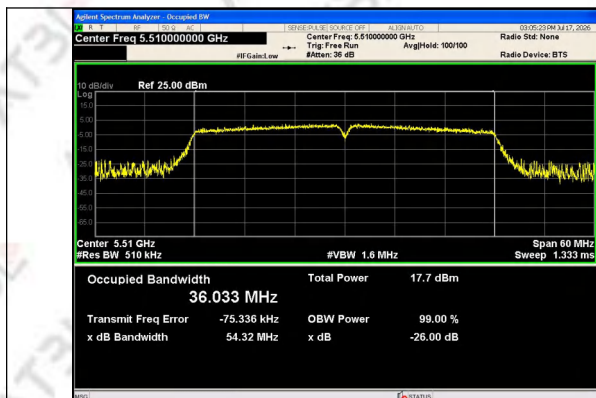
IEEE 802.11n Channel 38 40MHz Antenna 0

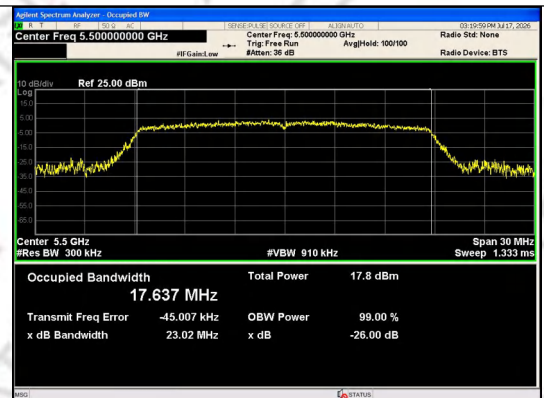
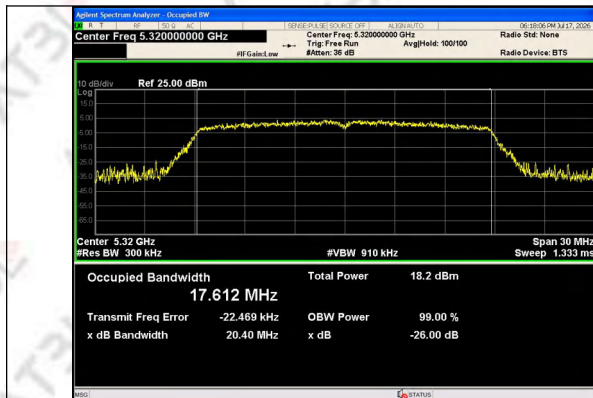
IEEE 802.11n Channel 46 40MHz Antenna 0



IEEE 802.11n Channel 54 40MHz Antenna 0

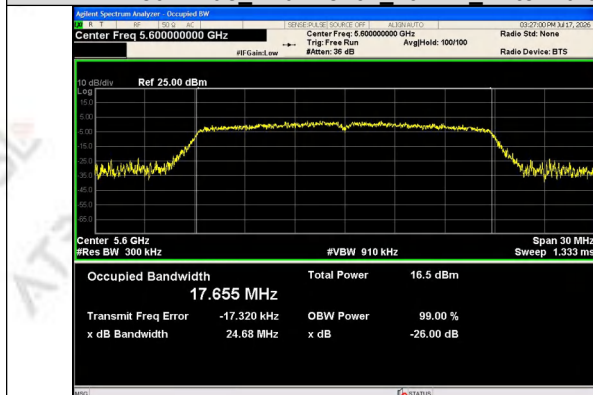
IEEE 802.11n Channel 62 40MHz Antenna 0





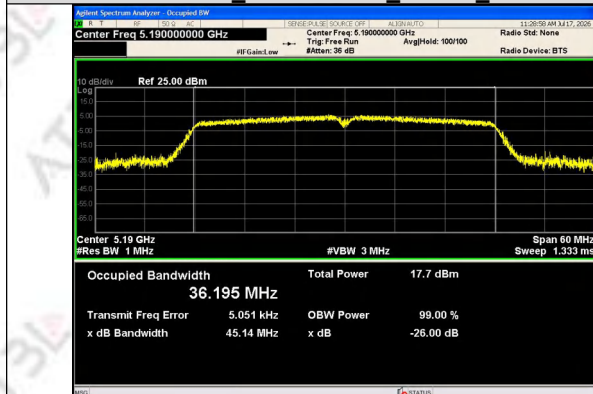
IEEE 802.11ac Channel 64 20MHz Antenna 0

IEEE 802.11ac Channel 100 20MHz Antenna 0



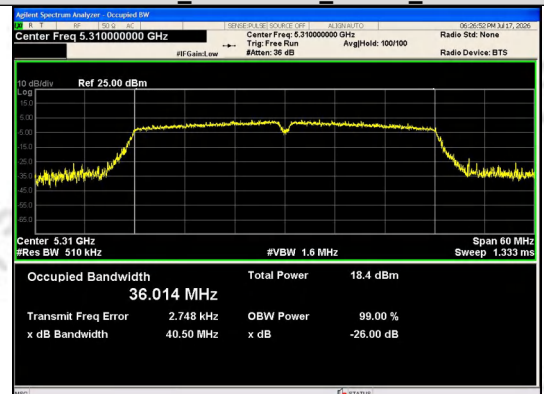
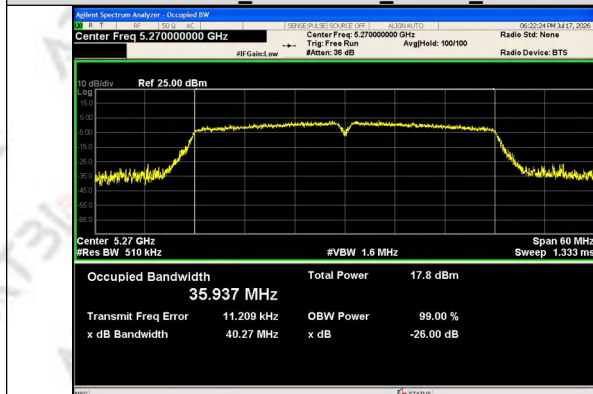
IEEE 802.11ac Channel 120 20MHz Antenna 0

IEEE 802.11ac Channel 140 20MHz Antenna 0



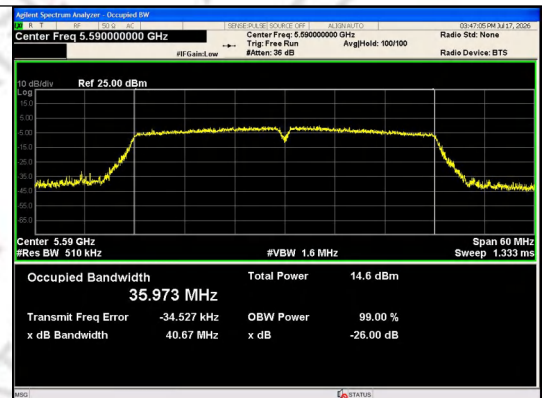
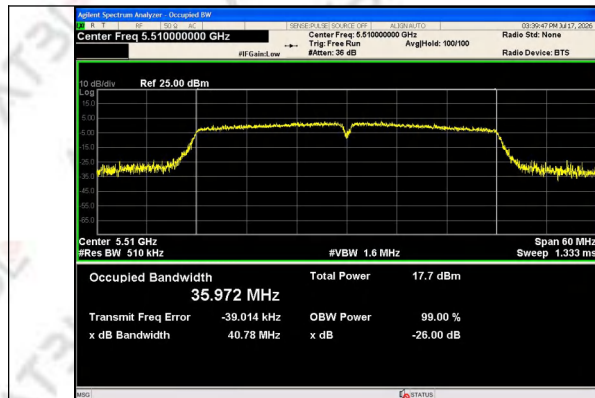
IEEE 802.11ac Channel 38 40MHz Antenna 0

IEEE 802.11ac Channel 140 40MHz Antenna 0



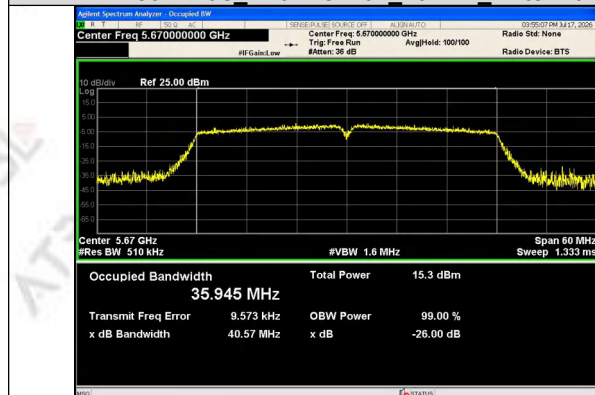
IEEE 802.11ac Channel 54 40MHz Antenna 0

IEEE 802.11ac Channel 62 40MHz Antenna 0



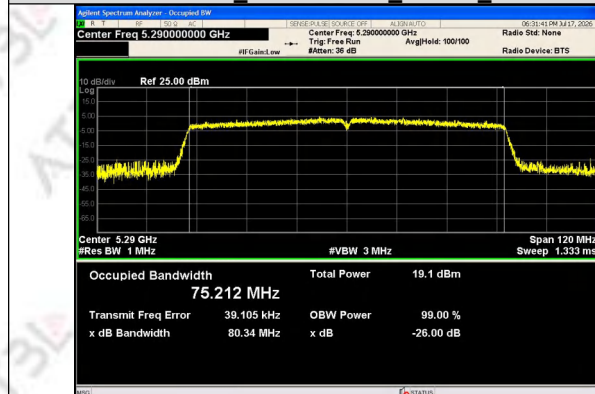
IEEE 802.11ac_Channel 102_40MHz_Antenna 0

IEEE 802.11ac_Channel 118_40MHz_Antenna 0



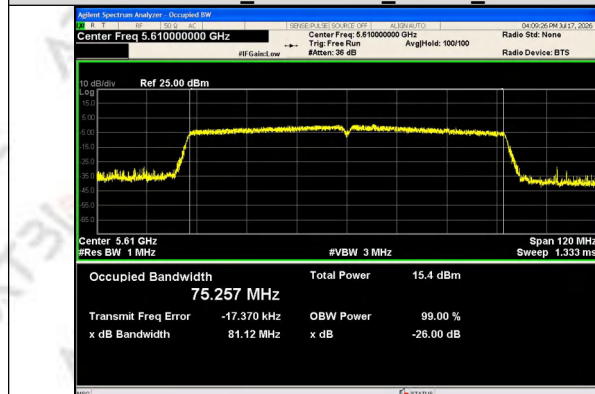
IEEE 802.11ac_Channel 134_40MHz_Antenna 0

IEEE 802.11ac_Channel 42_80MHz_Antenna 0



IEEE 802.11ac_Channel 58_80MHz_Antenna 0

IEEE 802.11ac_Channel 106_80MHz_Antenna 0



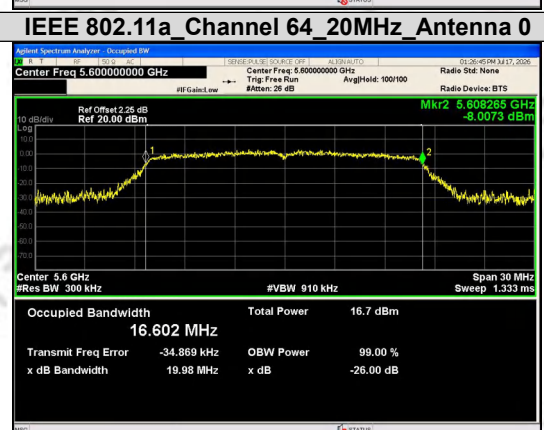
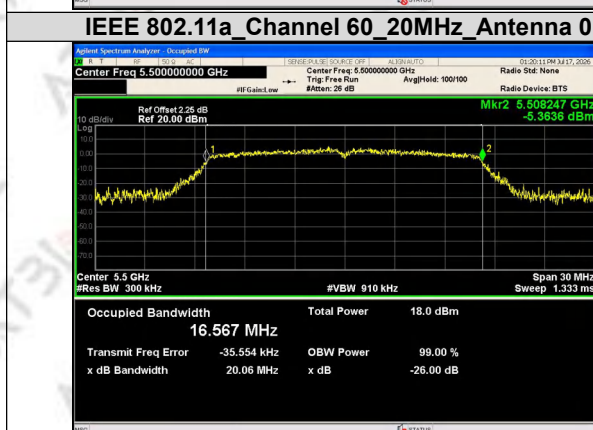
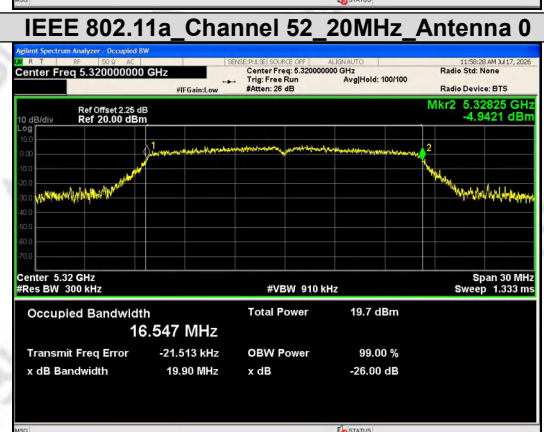
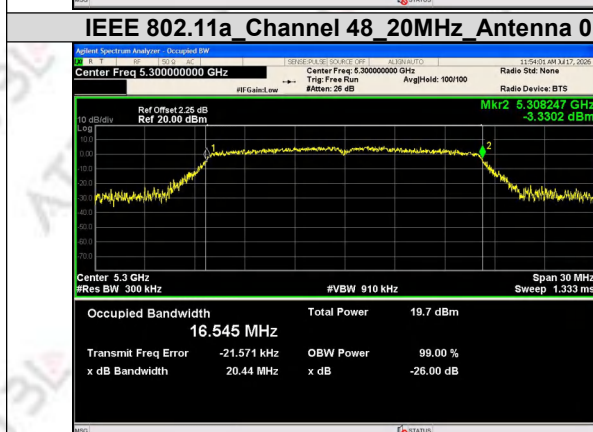
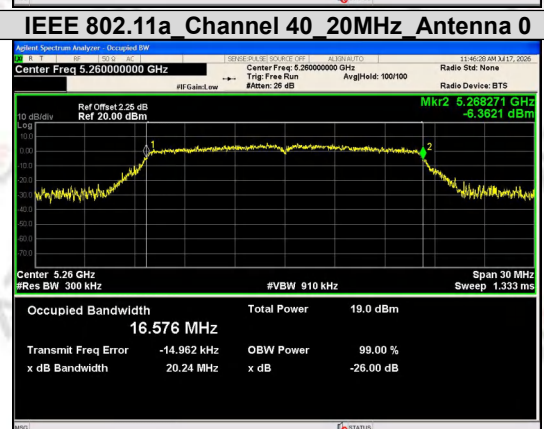
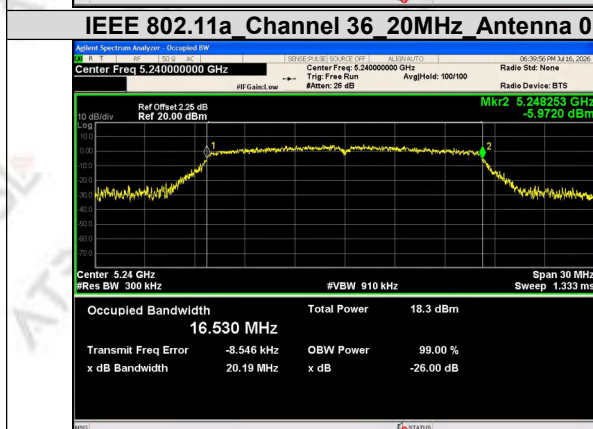
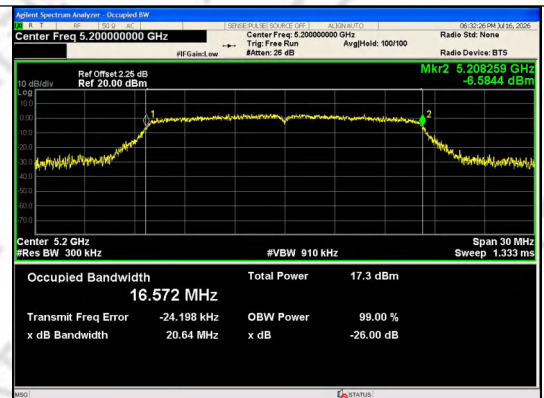
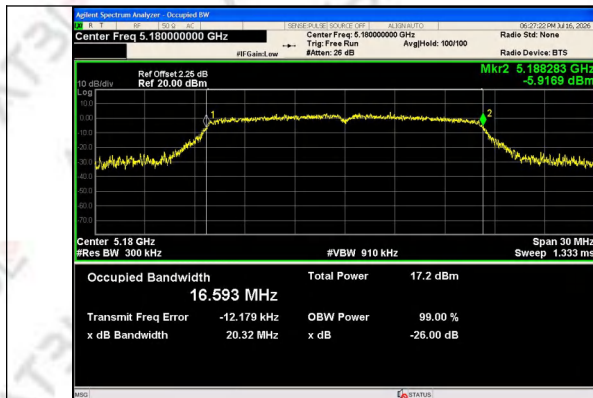
IEEE 802.11ac_Channel 122_80MHz_Antenna 0

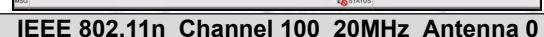
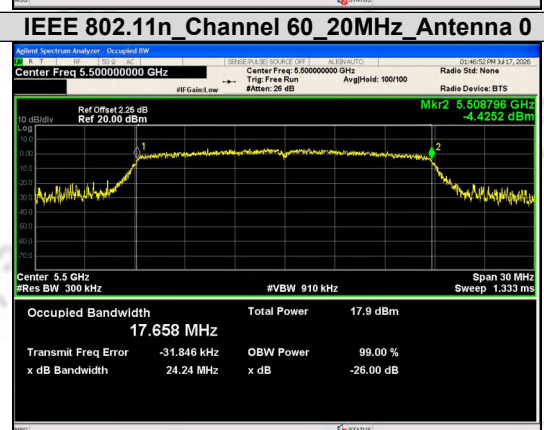
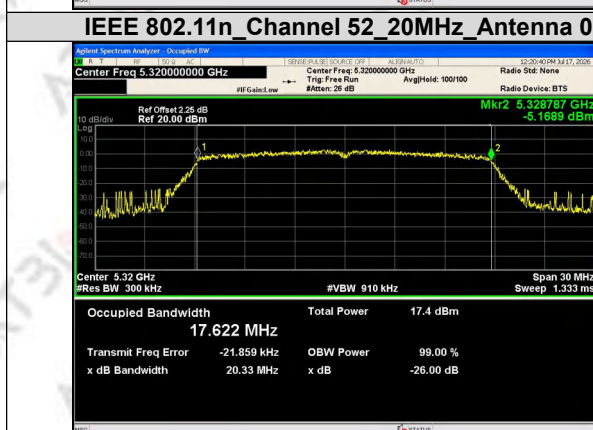
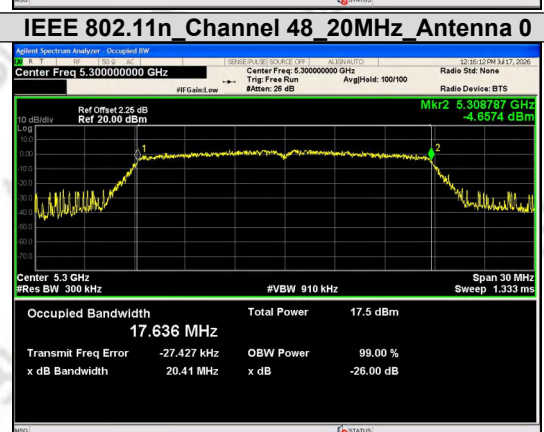
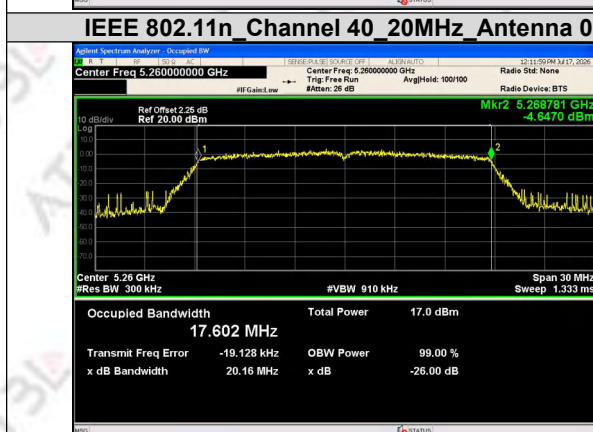
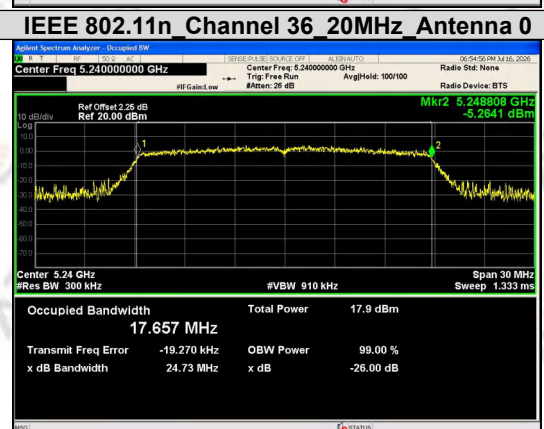
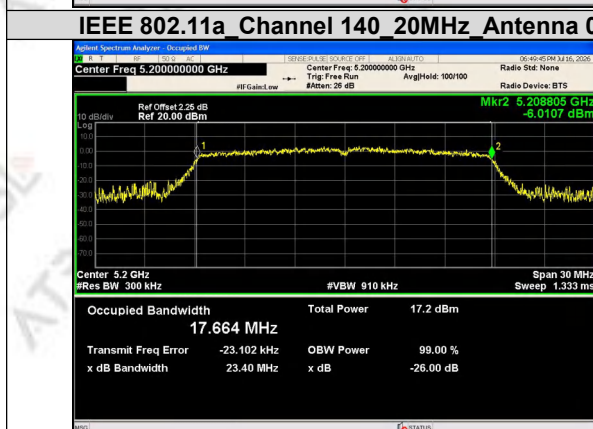
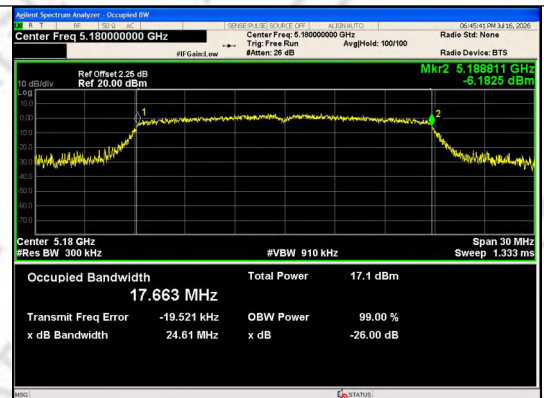
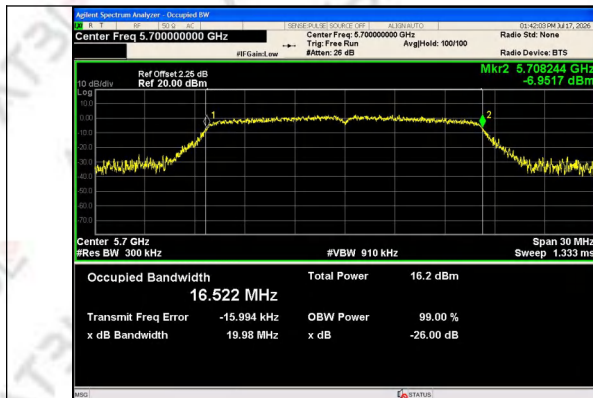
99%dB Bandwidth

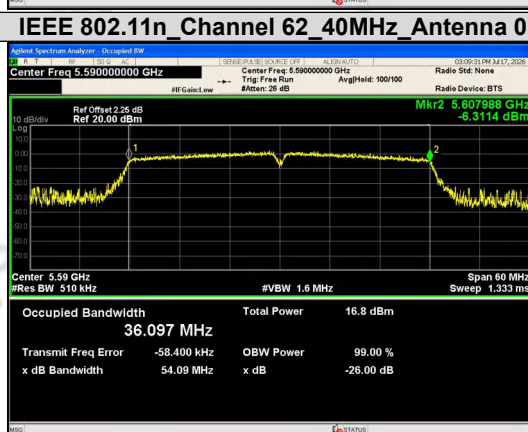
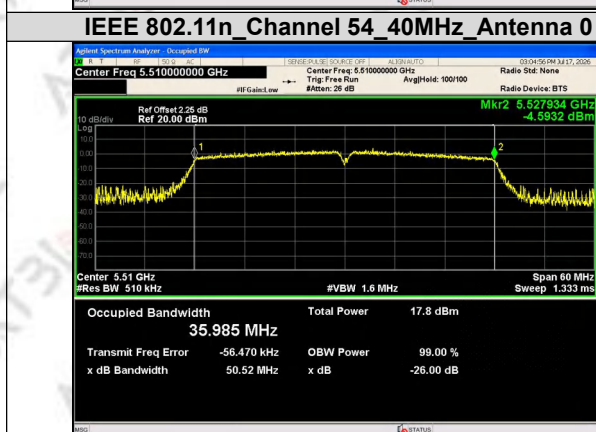
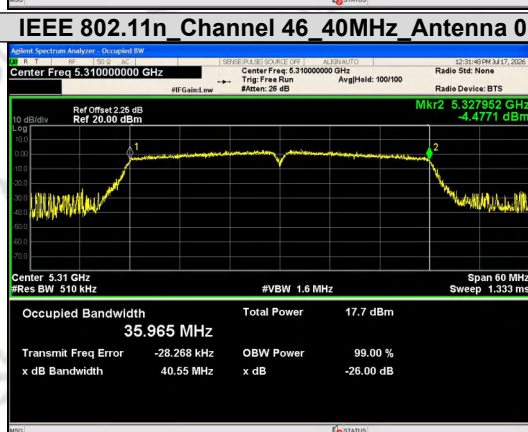
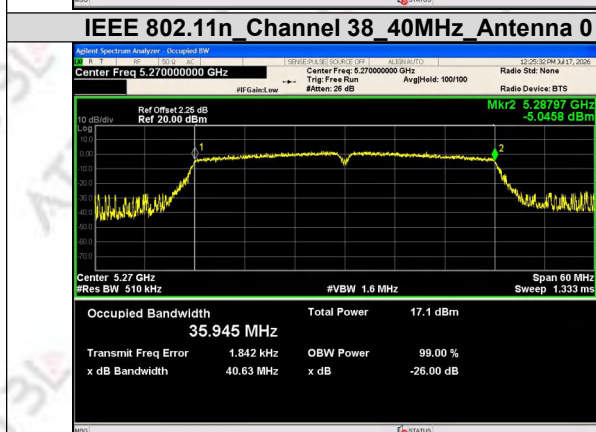
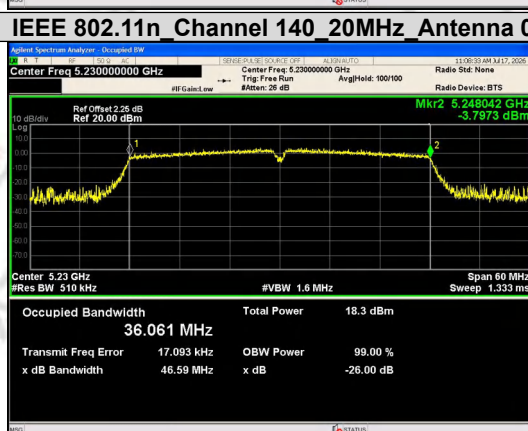
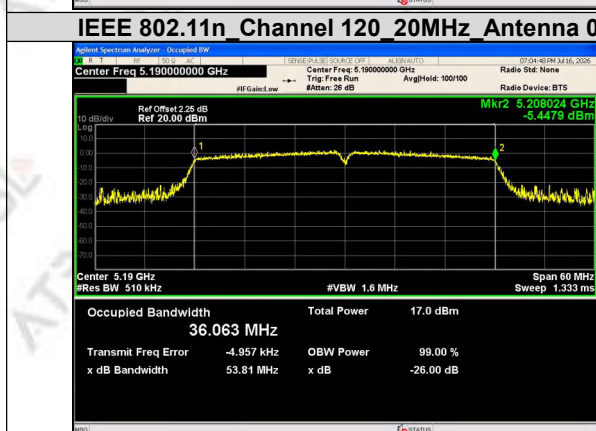
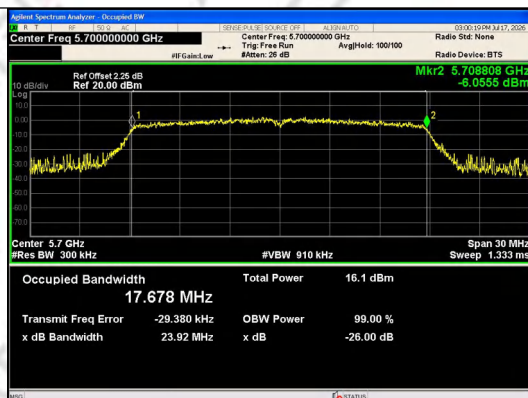
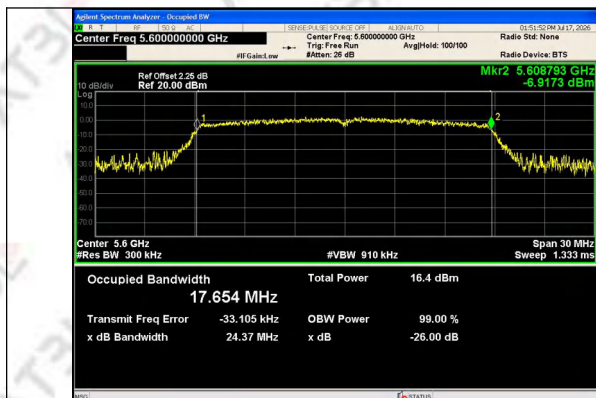
Test Result

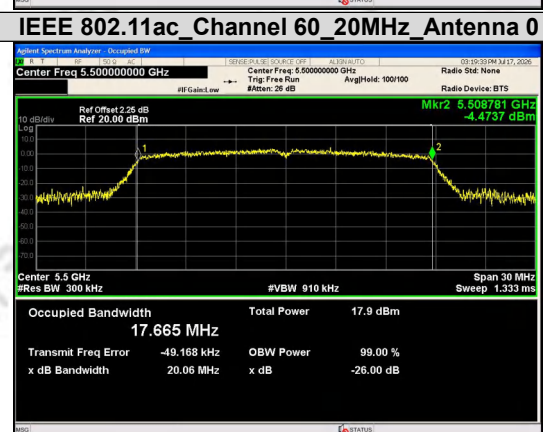
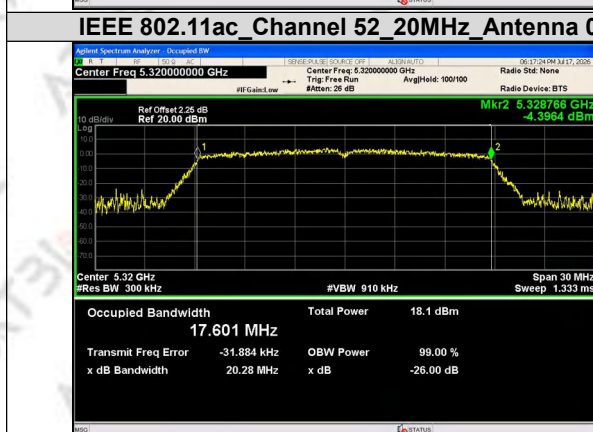
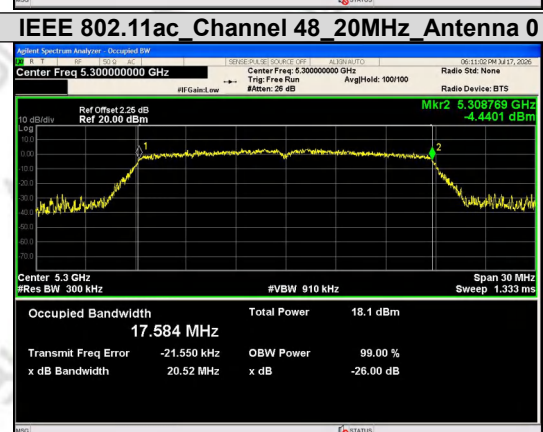
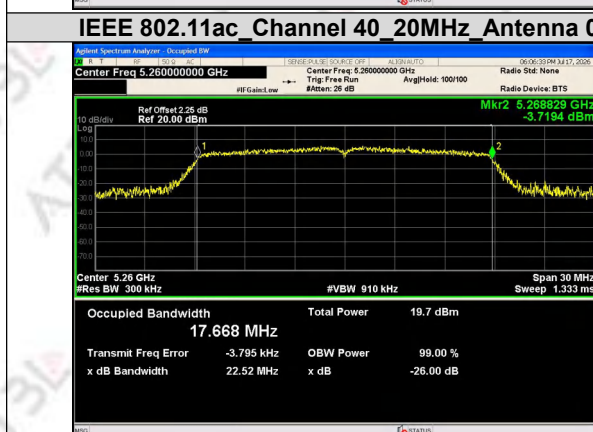
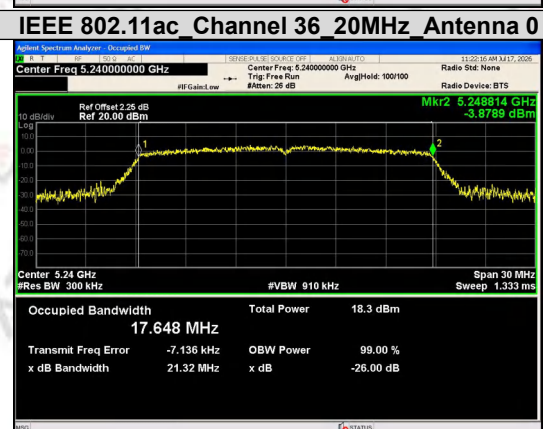
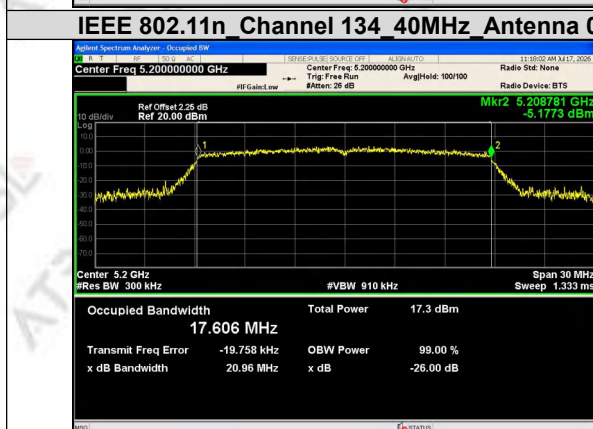
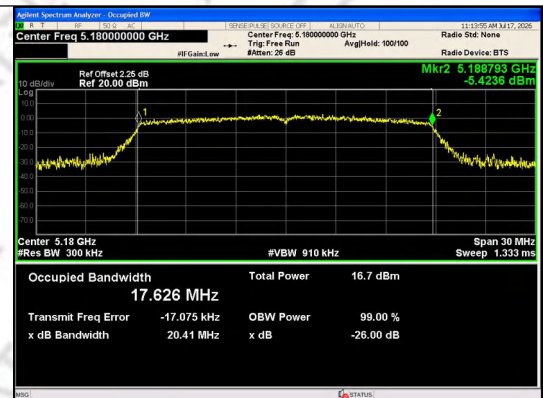
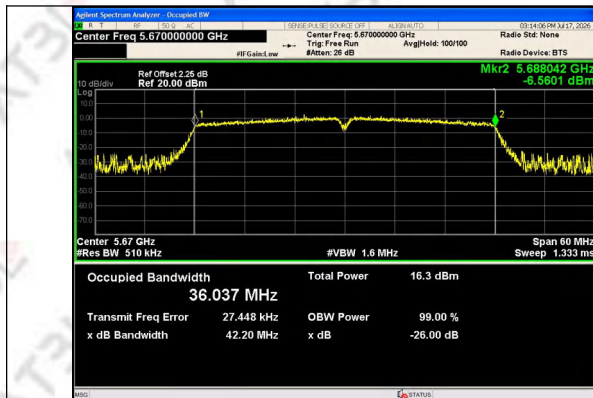
Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	36	0	5180	16.593
	40		5200	16.572
	48		5240	16.530
	52		5260	16.576
	60		5300	16.545
	64		5320	16.547
	100		5500	16.567
	120		5600	16.602
	140		5700	16.522
IEEE 802.11n_20	36	0	5180	17.663
	40		5200	17.664
	48		5240	17.657
	52		5260	17.602
	60		5300	17.636
	64		5320	17.622
	100		5500	17.658
	120		5600	17.654
	140		5700	17.678
IEEE 802.11n_40	38	0	5190	36.063
	46		5230	36.061
	54		5270	35.945
	62		5310	35.965
	102		5510	35.985
	118		5590	36.097
	134		5670	36.037
IEEE 802.11ac_20	36	0	5180	17.626
	40		5200	17.606
	48		5240	17.648
	52		5260	17.668
	60		5300	17.584
	64		5320	17.601
	100		5500	17.665
	120		5600	17.645
	140		5700	17.610
IEEE 802.11ac_40	38	0	5190	36.045
	46		5230	35.990
	54		5270	35.949
	62		5310	35.954
	102		5510	35.984
	118		5590	35.942
	134		5670	35.972
IEEE 802.11ac_80	42	0	5210	75.356
	58		5290	75.224
	106		5530	75.334
	122		5610	75.271

Test Graphs



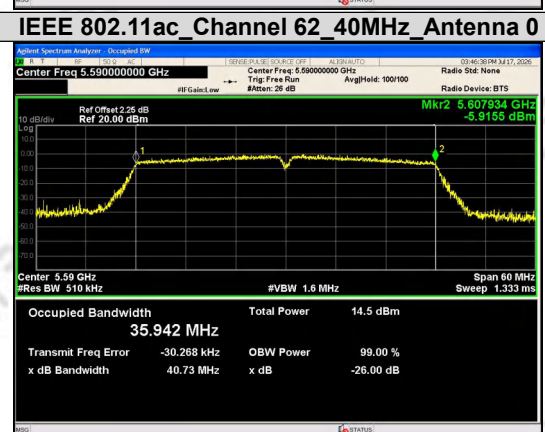
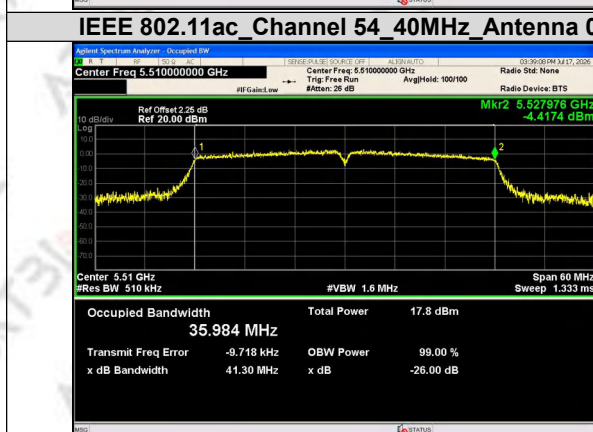
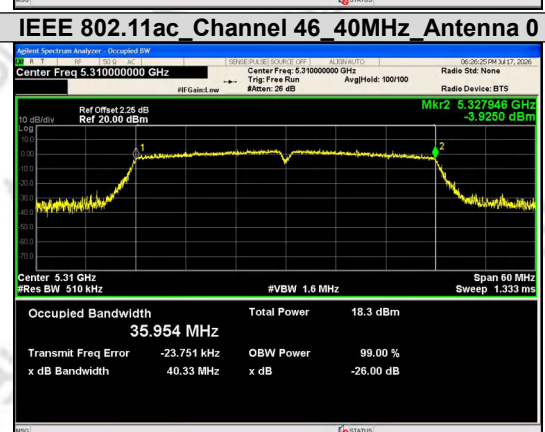
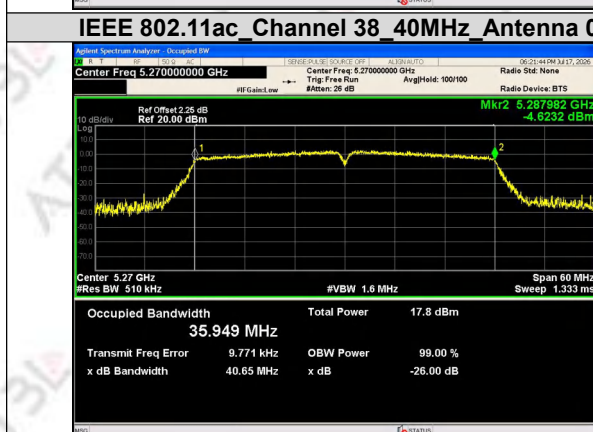
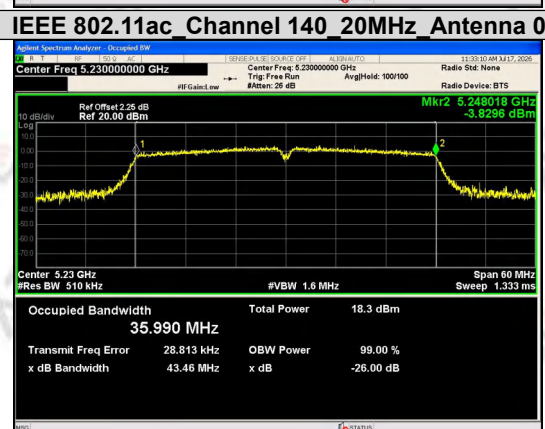
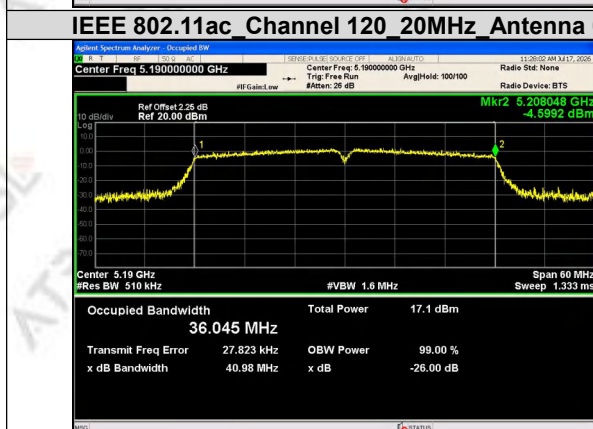
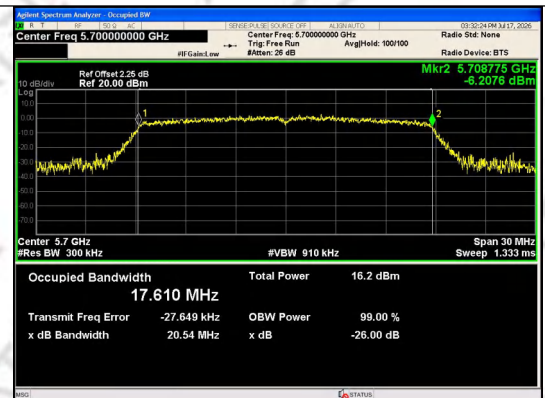
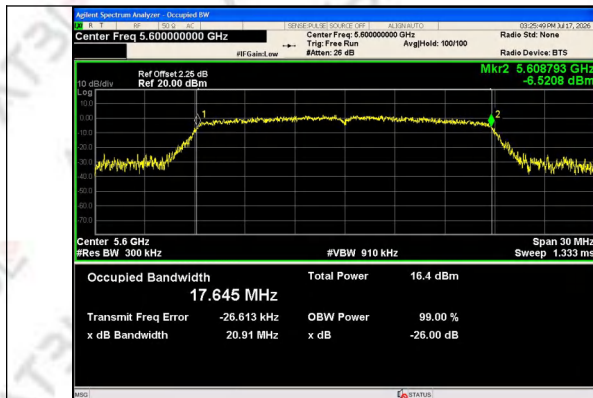


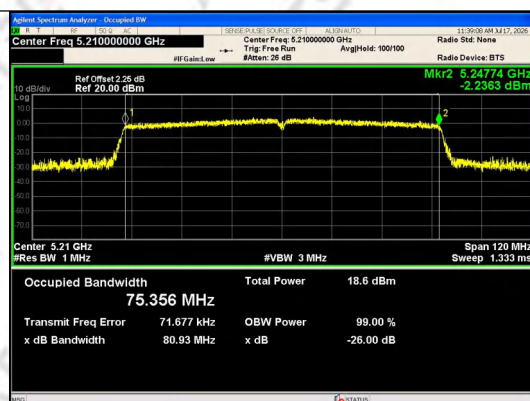
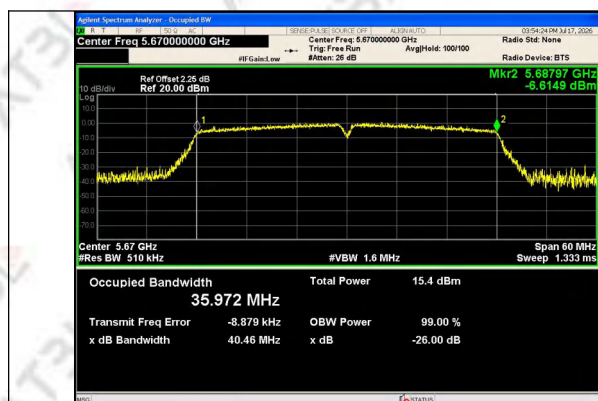




IEEE 802.11ac Channel 64 20MHz Antenna 0

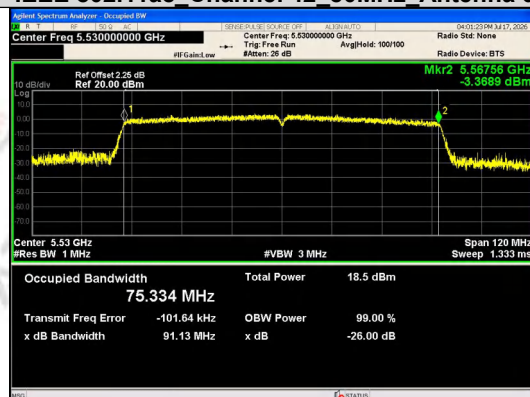
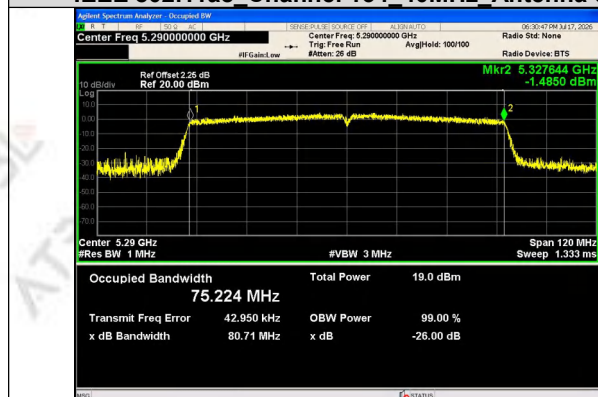
IEEE 802.11ac Channel 100 20MHz Antenna 0





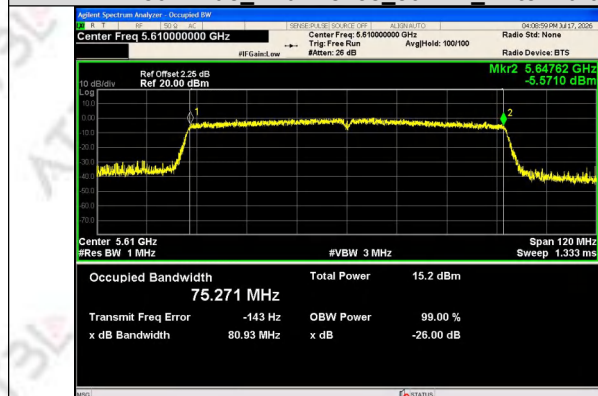
IEEE 802.11ac Channel 134 40MHz Antenna 0

IEEE 802.11ac Channel 42 80MHz Antenna 0



IEEE 802.11ac Channel 58 80MHz Antenna 0

IEEE 802.11ac Channel 106 80MHz Antenna 0



IEEE 802.11ac Channel 122 80MHz Antenna 0

A2.Minimum Emission Bandwidth for the band 5.725–5.85 GHz

6dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	14.43	≥0.5	PASS
	157		5785	15.11		PASS
	165		5825	14.97		PASS
IEEE 802.11n_20	149		5745	15.10		PASS
	157		5785	14.67		PASS
	165		5825	13.19		PASS
IEEE 802.11n_40	151		5755	33.81		PASS
	159		5795	31.12		PASS
IEEE 802.11ac_20	149		5745	12.55		PASS
	157		5785	14.36		PASS
	165		5825	15.11		PASS
IEEE 802.11ac_40	151		5755	34.86		PASS
	159		5795	34.95		PASS
IEEE 802.11ac_80	155		5775	69.98		PASS

Test Graphs

