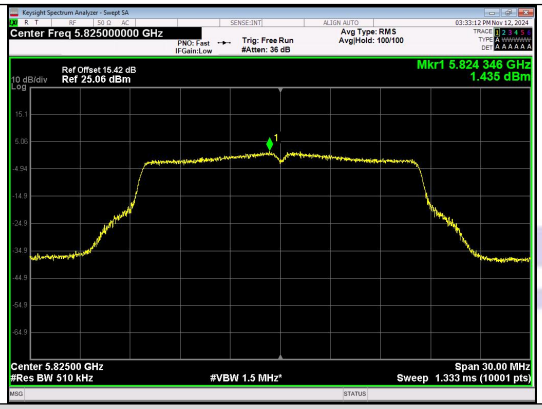
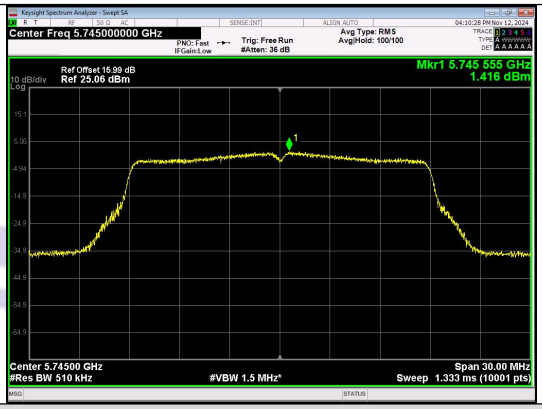


IEEE 802.11a_Channel 165_20MHz_Antenna 0



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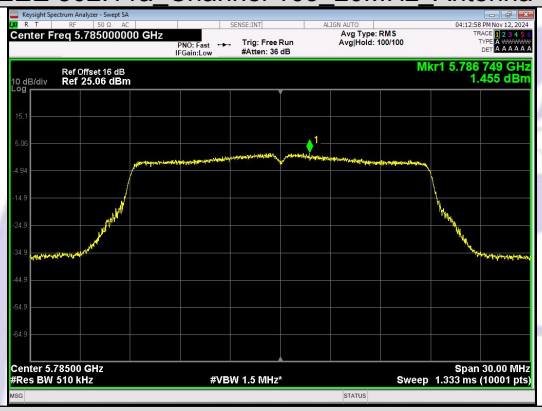
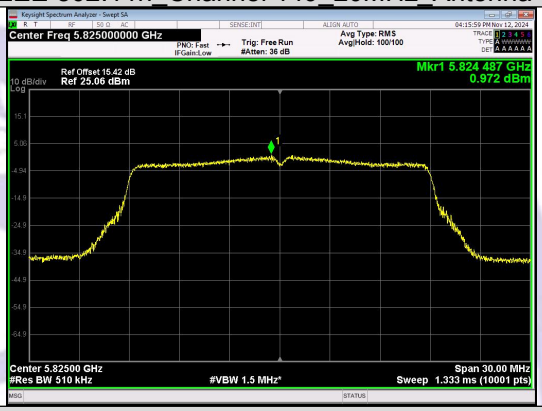


IEEE 802.11n_Channel 157_20MHz_Antenna 0



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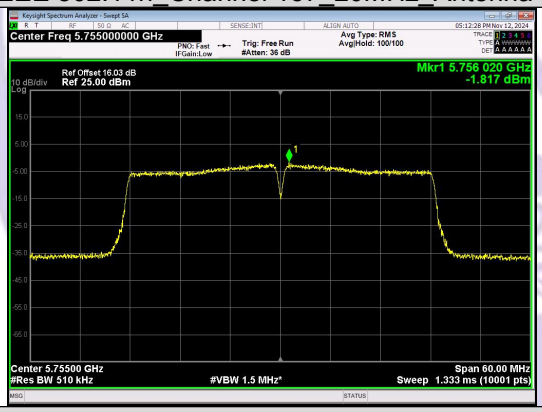

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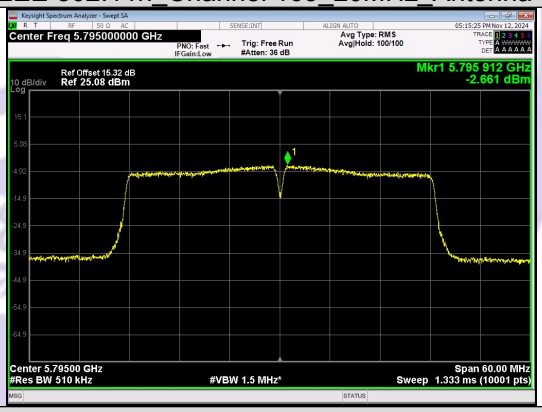
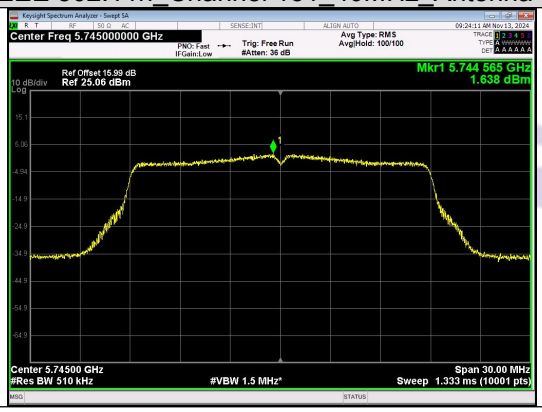
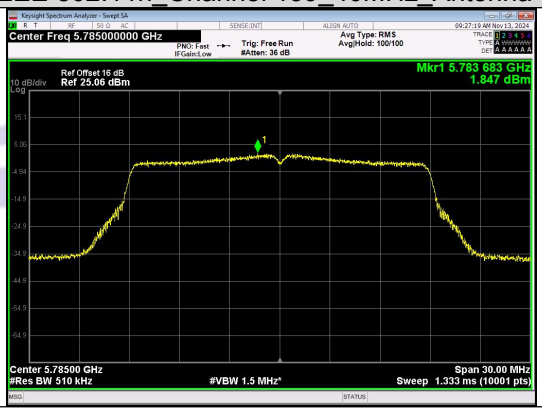
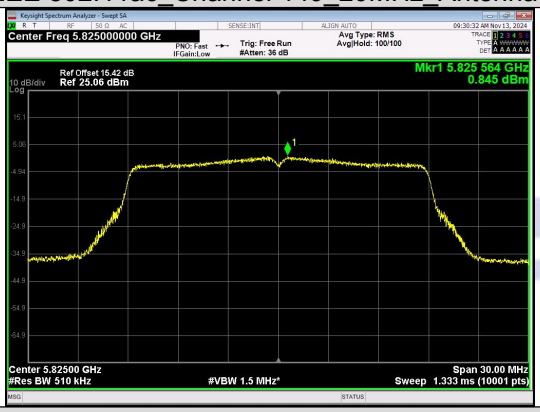
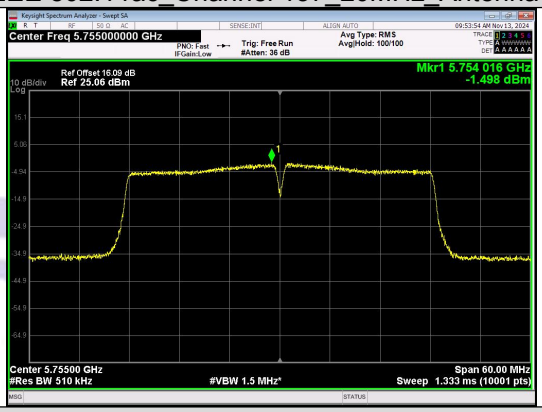
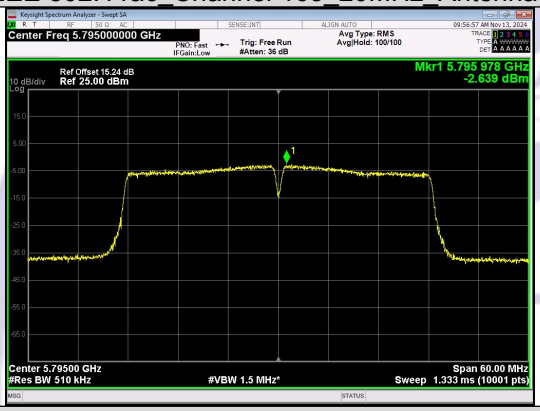


IEEE 802.11n_Channel 159_40MHz_Antenna 0





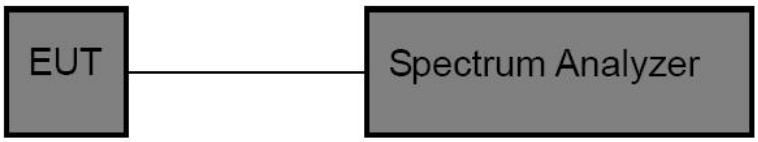
IEEE 802.11ac_Channel 149_20MHz_Antenna 0	IEEE 802.11ac_Channel 157_20MHz_Antenna 0
	
IEEE 802.11ac_Channel 165_20MHz_Antenna 0	IEEE 802.11ac_Channel 151_40MHz_Antenna 0
	
IEEE 802.11ac_Channel 159_40MHz_Antenna 0	IEEE 802.11ac_Channel 155_80MHz_Antenna 0

9 26DB & 6DB & 99% Emission Bandwidth Test

9.1 Test Standard

Test Standard	FCC Part15 C Section 15.407, RSS-247 6.2&RSS-Gen 6.7
	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band, the minimum bandwidth 6 dB bandwidth of U-NII devices shall be at least 500KHz. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

9.2 Test Setup



9.3 Test Procedure

a) Set RBW = 100KHz.
b) Set the VBW > RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.

2. Set span = 1.5 times to 3.3 times the OBW.

3. Set RBW = 1 % to 5 % of the OBW

4. Set VBW ≥ 3 · RBW

5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

6. Use the 99 % power bandwidth function of the instrument (if available).

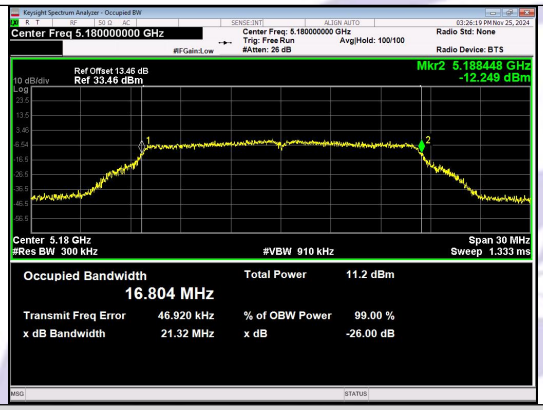
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

9.4 Test Data

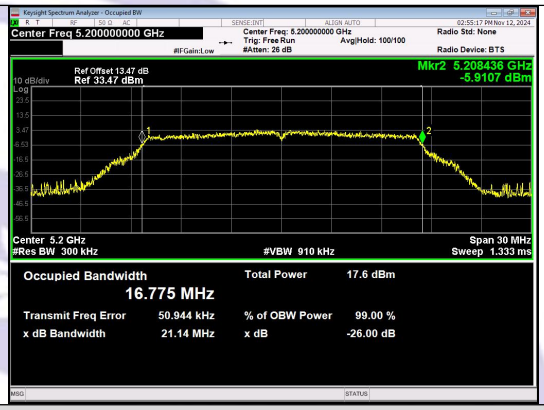
99% Bandwidth

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	36	0	5180	16.804
	40		5200	16.775
	48		5240	16.757
	52		5260	16.769
	56		5280	16.801
	64		5320	16.784
	100		5500	16.799
	116		5580	16.770
	140		5700	16.782
IEEE 802.11n_20	36		5180	17.878
	40		5200	17.863
	48		5240	17.880
	52		5260	17.878
	56		5280	17.919
	64		5320	17.912
	100		5500	17.875
	116		5580	17.902
	140		5700	17.870
IEEE 802.11n_40	38		5190	36.203
	46		5230	36.176
	54		5270	36.209
	62		5310	36.223
	102		5510	36.166
	134		5670	36.210
IEEE 802.11ac_20	36		5180	17.867
	40		5200	17.901
	48		5240	17.911
	52		5260	17.862
	56		5280	17.864
	64		5320	17.872
	100		5500	17.902
	116		5580	17.925
	140		5700	17.866
IEEE 802.11ac_40	38		5190	36.190
	46		5230	36.213

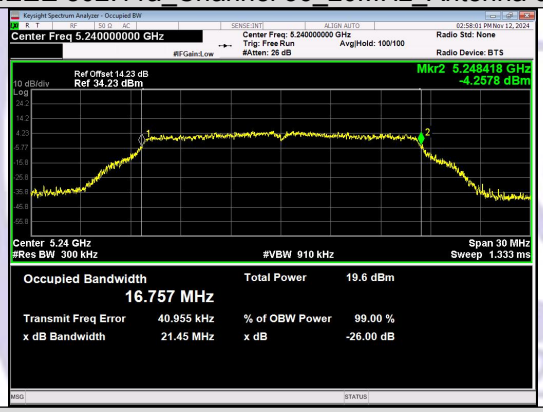
	54		5270	36.212
	62		5310	36.189
	102		5510	36.185
	134		5670	36.186
IEEE 802.11ac_80	42		5210	75.349
	58		5290	75.288
	106		5530	75.668



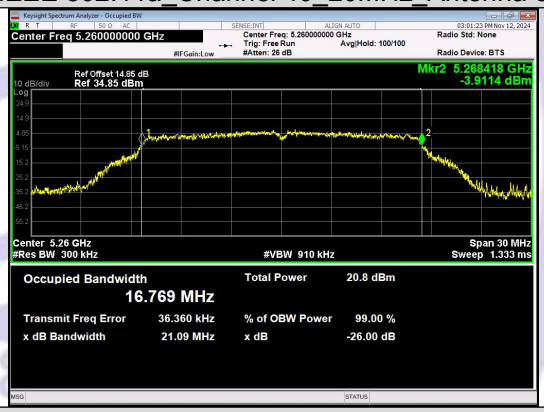
IEEE 802.11a_Channel 36_20MHz_Antenna 0



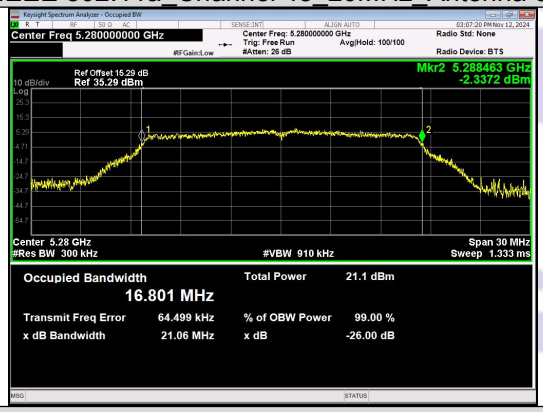
IEEE 802.11a_Channel 40_20MHz_Antenna 0



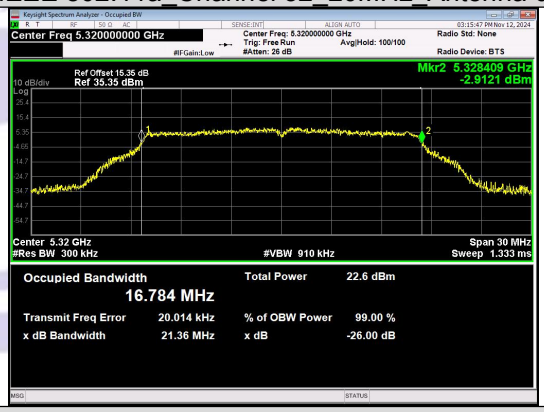
IEEE 802.11a_Channel 48_20MHz_Antenna 0



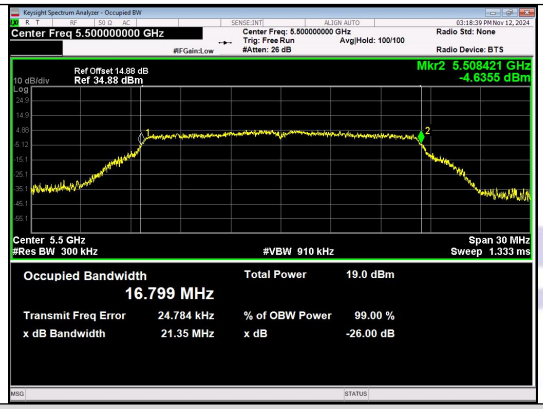
IEEE 802.11a_Channel 52_20MHz_Antenna 0



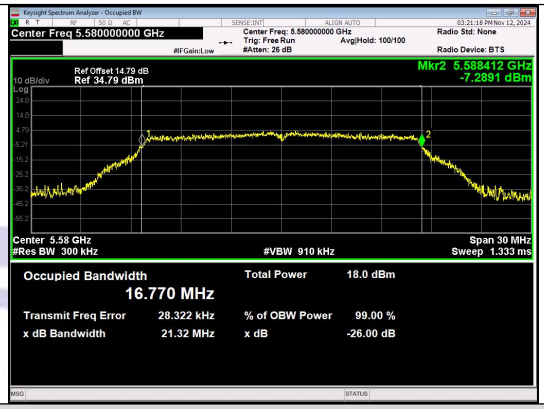
IEEE 802.11a_Channel 56_20MHz_Antenna 0



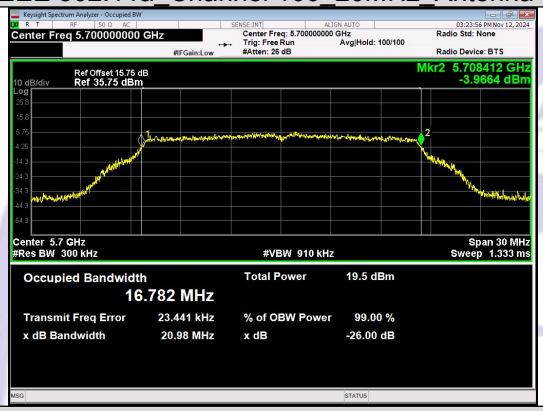
IEEE 802.11a_Channel 64_20MHz_Antenna 0



IEEE 802.11a_Channel 100_20MHz_Antenna 0



IEEE 802.11a_Channel 116_20MHz_Antenna 0



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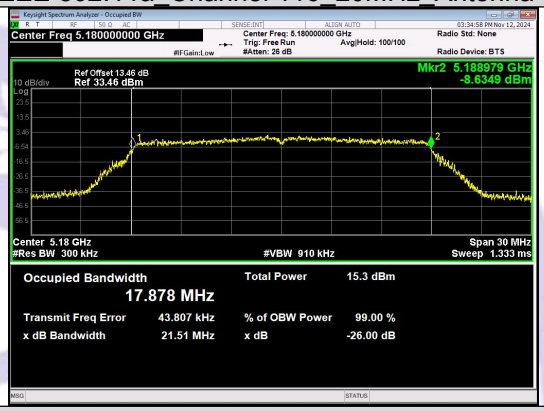
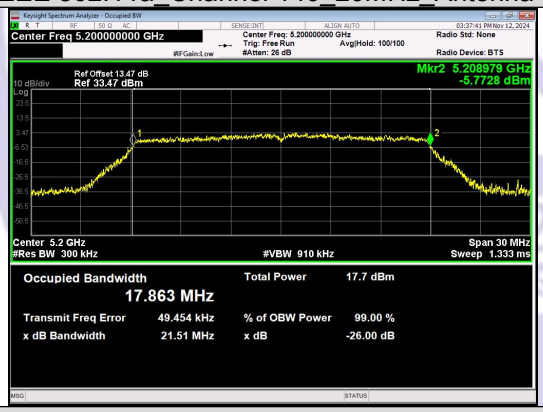
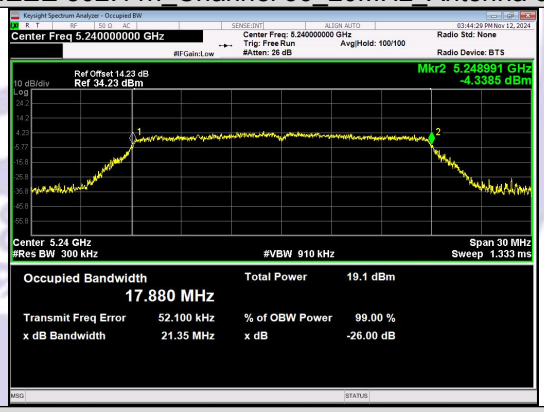


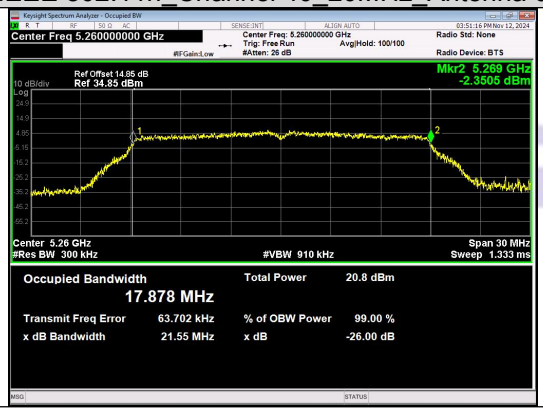
IEEE 802.11n_Channel 36_20MHz_Antenna 0

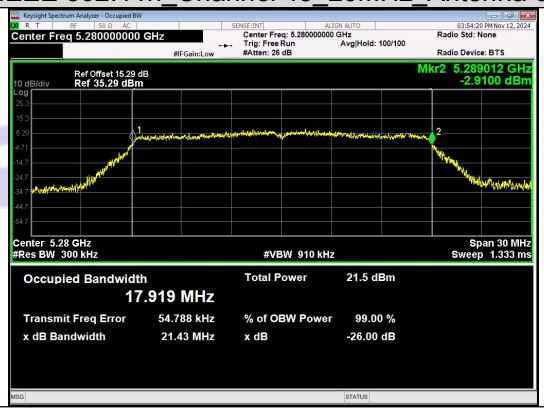


IEEE 802.11n_Channel 40_20MHz_Antenna 0

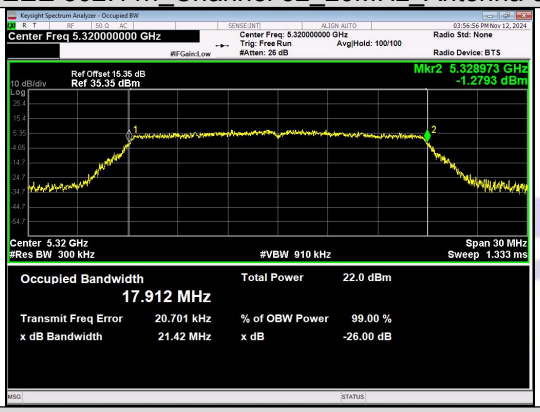


IEEE 802.11n_Channel 48_20MHz_Antenna 0

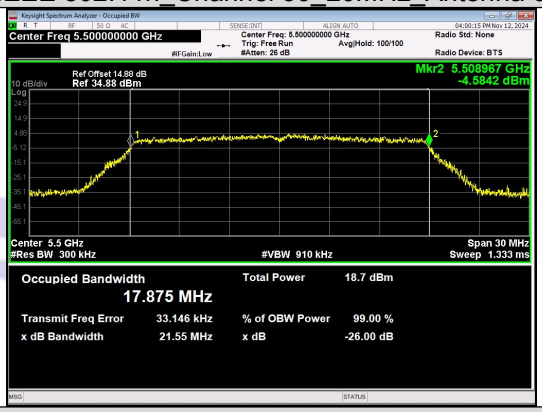




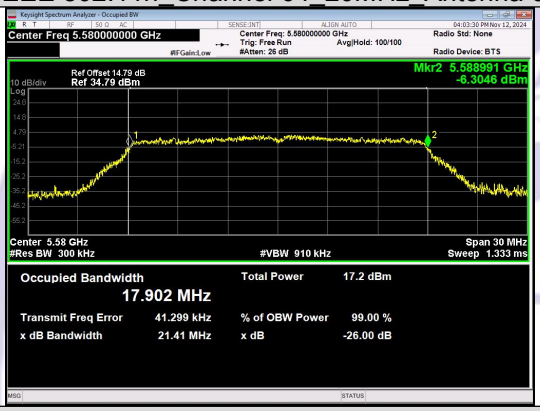
IEEE 802.11n_Channel 52_20MHz_Antenna 0



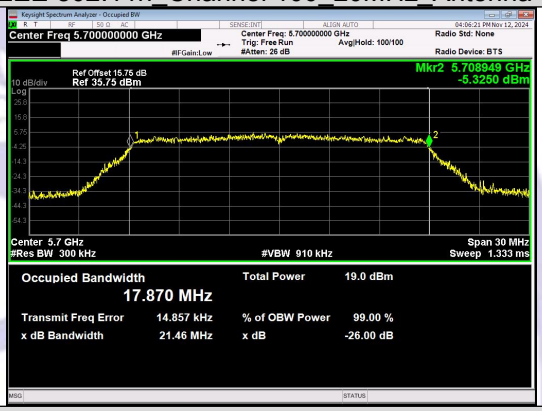
IEEE 802.11n_Channel 56_20MHz_Antenna 0



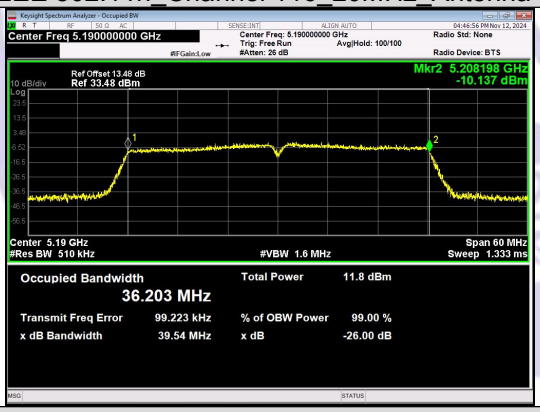
IEEE 802.11n_Channel 64_20MHz_Antenna 0



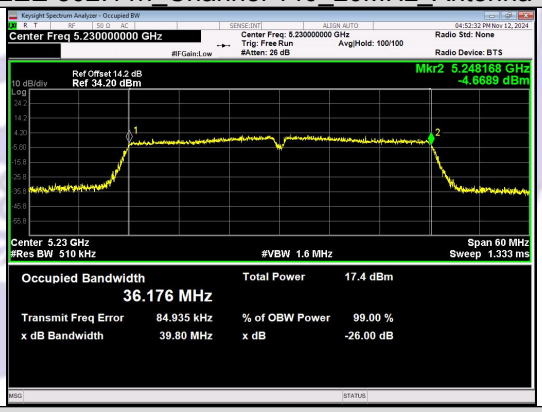
IEEE 802.11n_Channel 100_20MHz_Antenna 0



IEEE 802.11n_Channel 116_20MHz_Antenna 0

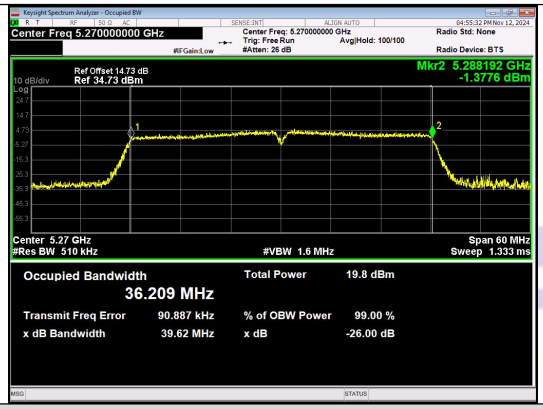


IEEE 802.11n_Channel 140_20MHz_Antenna 0



IEEE 802.11n_Channel 38_40MHz_Antenna 0

IEEE 802.11n_Channel 46_40MHz_Antenna 0



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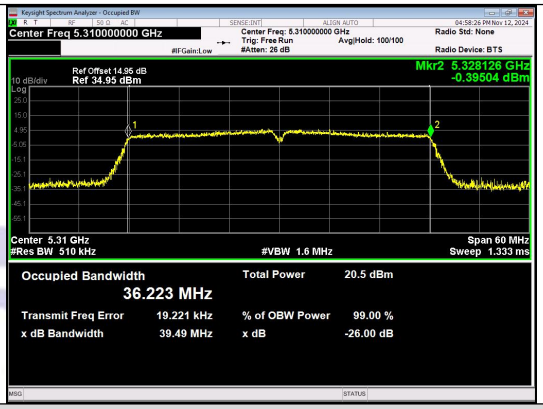
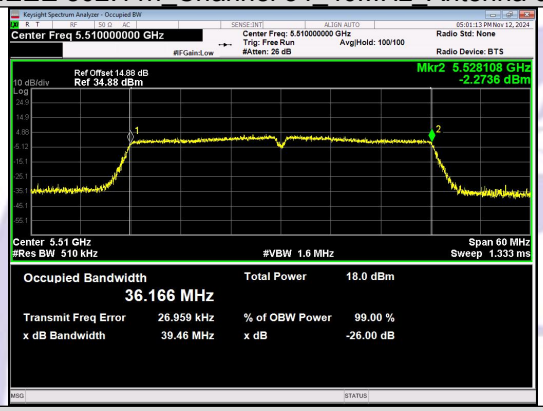


IEEE 802.11n_Channel 62_40MHz_Antenna 0



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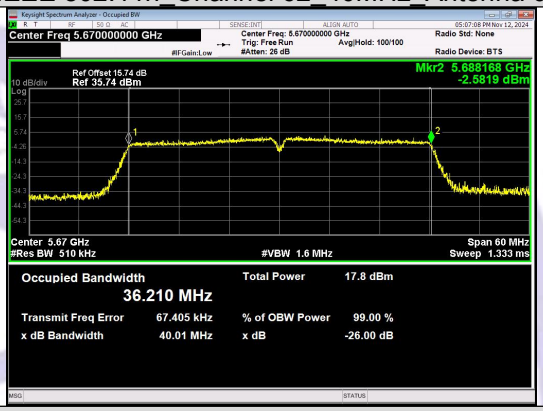

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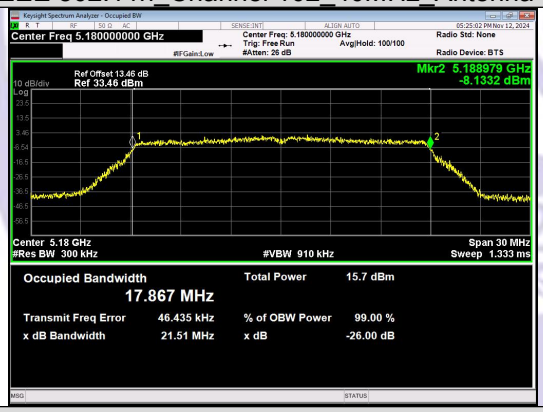
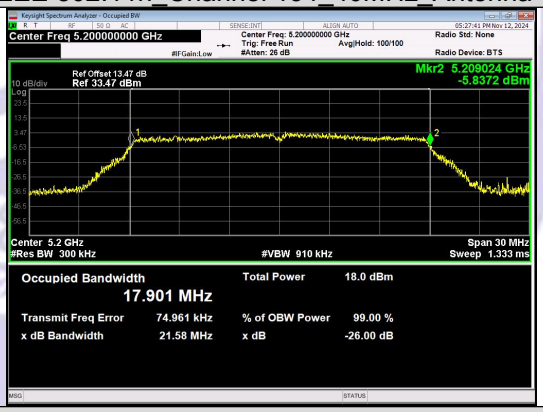


IEEE 802.11ac_Channel 36_20MHz_Antenna 0



IEEE 802.11ac_Channel 40_20MHz_Antenna 0