

802.11ac(HT20)

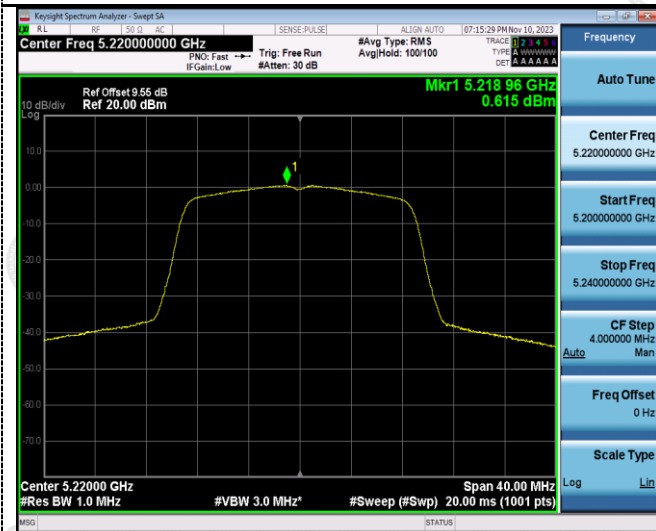
U-NII 1



U-NII 3



CH36



CH149



CH40



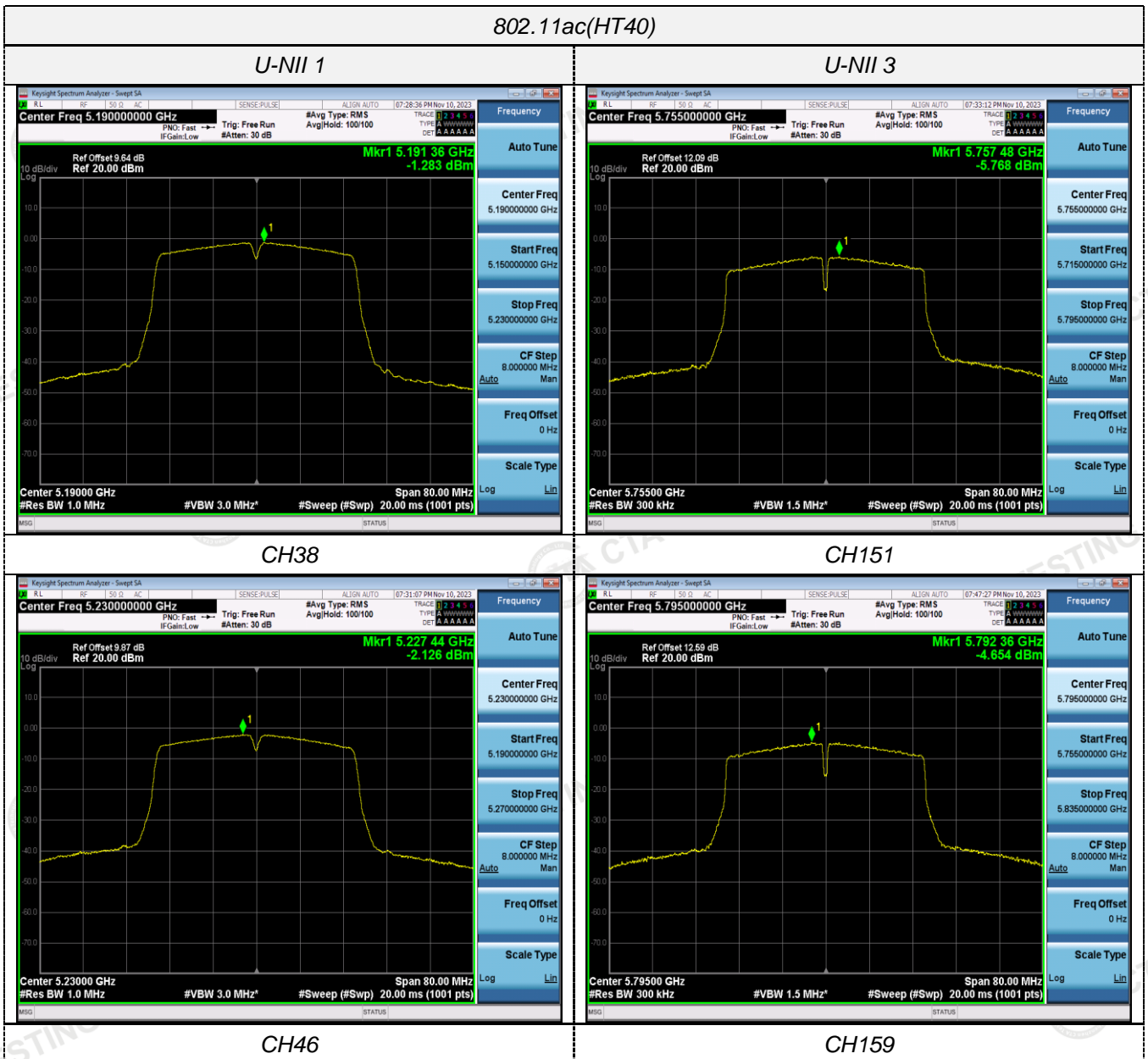
CH157



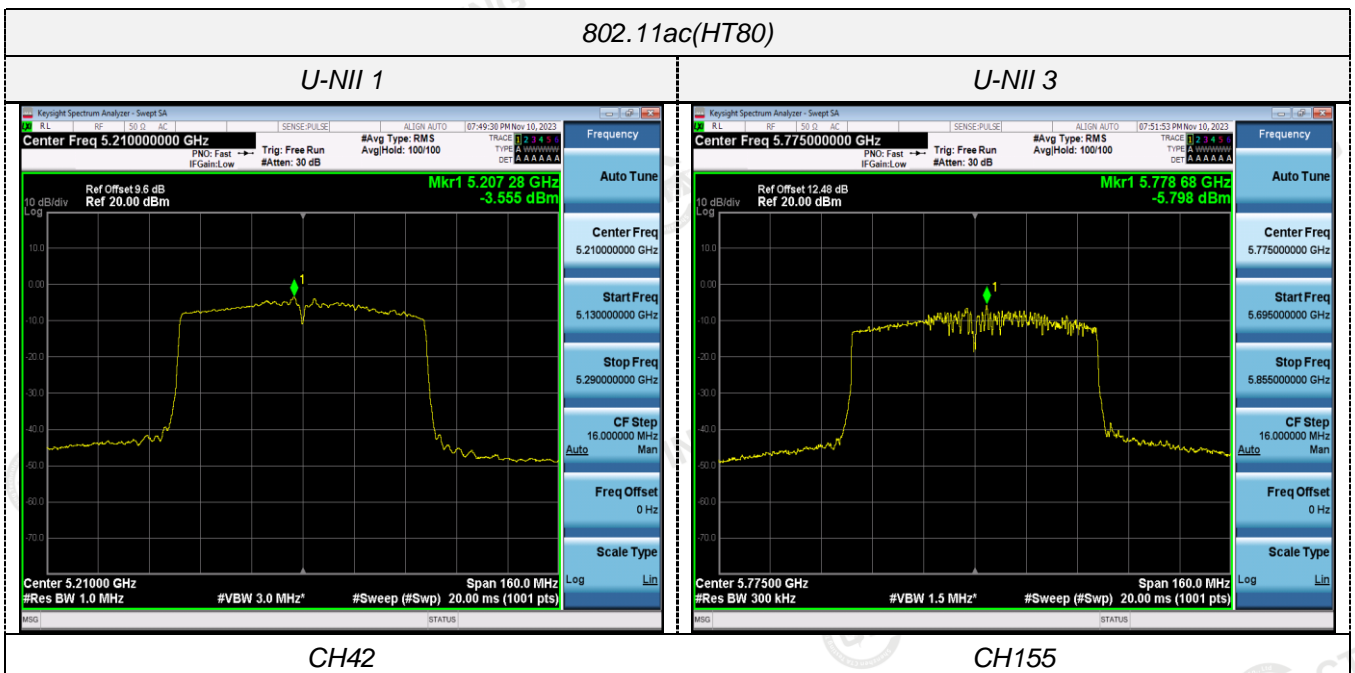
CH48

CH165

802.11ac(HT40)



802.11ac(HT80)



4.5 Emission Bandwidth (26dB Bandwidth)

Limit

N/A

Test Procedure

1. Set resolution bandwidth (RBW) = approximately 1 % of the EBW.
2. Set the video bandwidth (VBW) > RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW / EBW ratio is approximately 1 %.

Test Configuration



Test Results

ANT 1

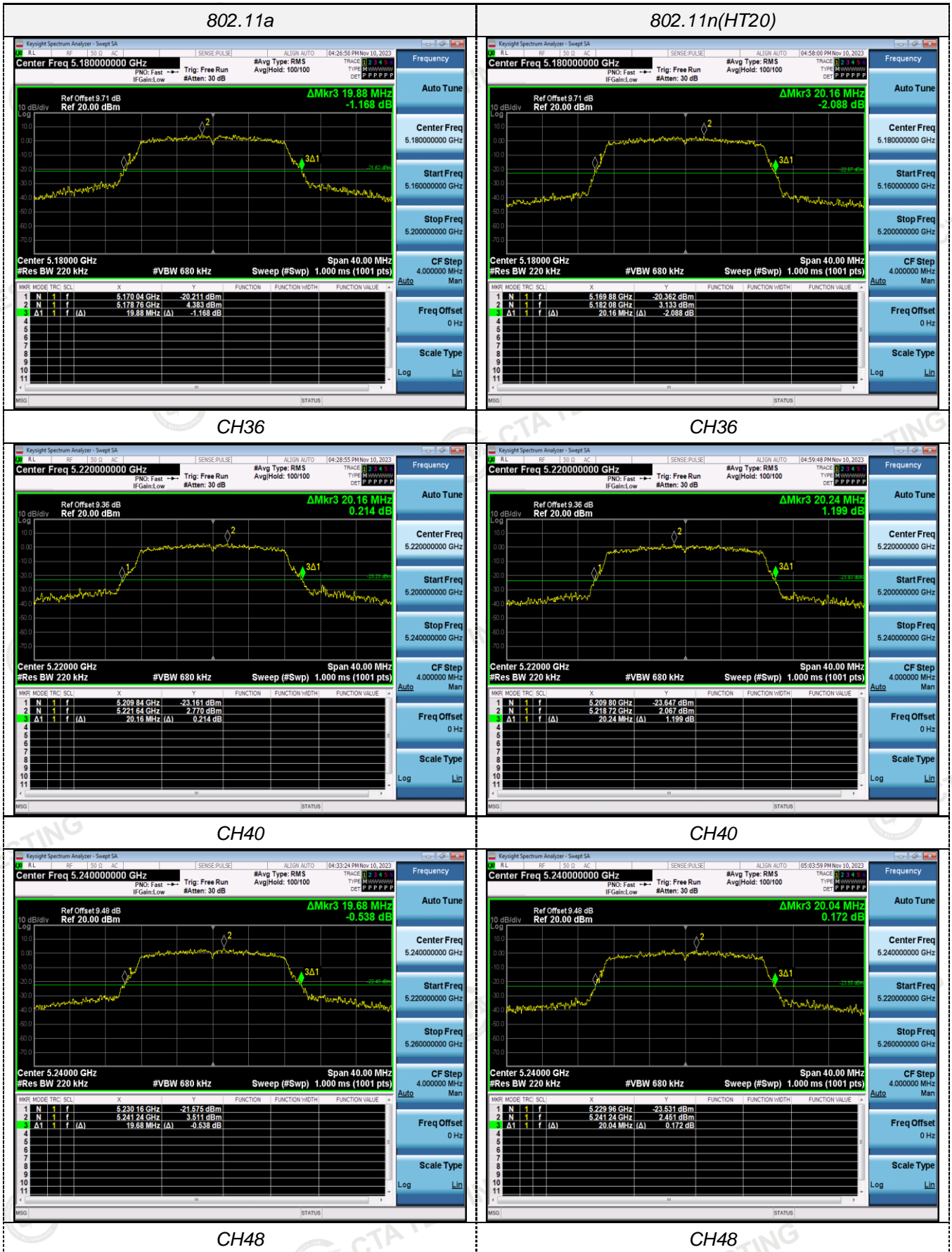
Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	19.880	N/A	Pass
		44	20.160		
		48	19.680		
802.11n(HT20)	U-NII 1	36	20.160		
		44	20.240		
		48	20.040		
802.11n(HT40)	U-NII 1	38	40.640		
		46	40.240		
802.11ac(HT20)	U-NII 1	36	19.800		
		44	20.160		
		48	20.240		
802.11ac(HT40)	U-NII 1	38	40.080		
		46	40.160		
802.11ac(HT80)	U-NII 1	42	81.120		

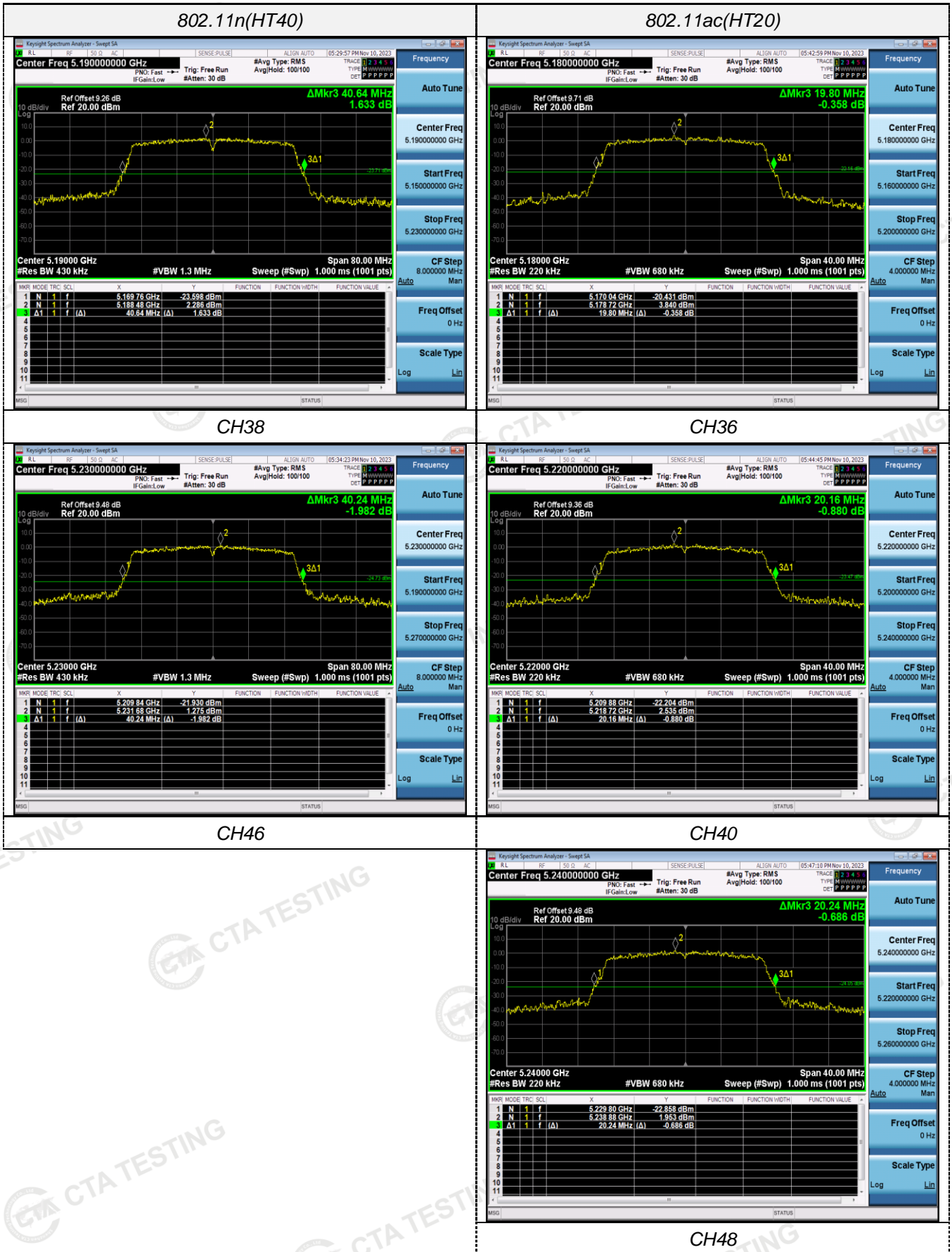
ANT 2

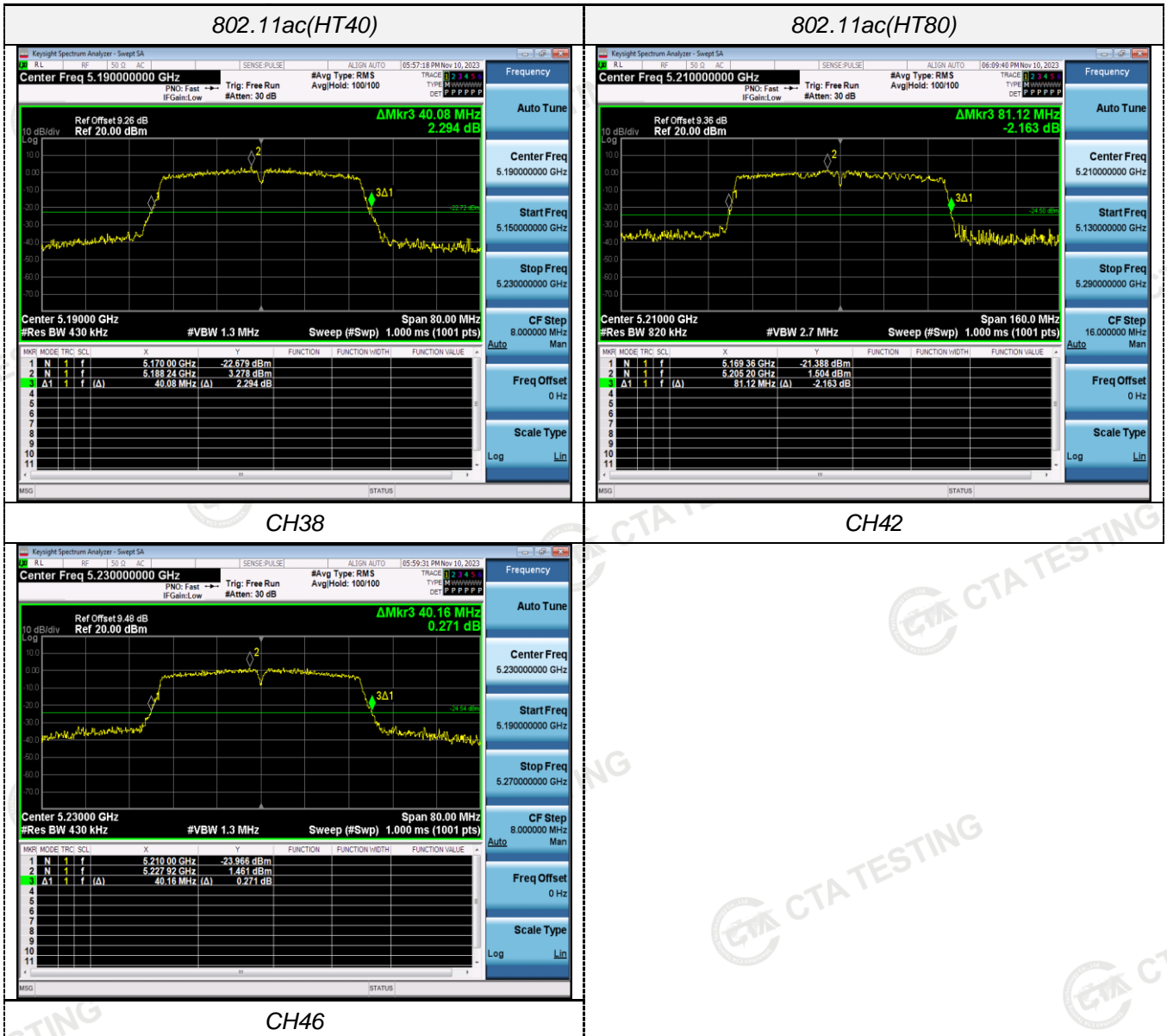
Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	19.960	N/A	Pass
		44	20.200		
		48	19.880		
802.11n(HT20)	U-NII 1	36	20.120		
		44	20.320		
		48	20.000		
802.11n(HT40)	U-NII 1	38	40.160		
		46	40.560		
802.11ac(HT20)	U-NII 1	36	20.080		
		44	20.000		
		48	19.880		
802.11ac(HT40)	U-NII 1	38	40.240		
		46	40.720		
802.11ac(HT80)	U-NII 1	42	85.280		

Test plot as follows:

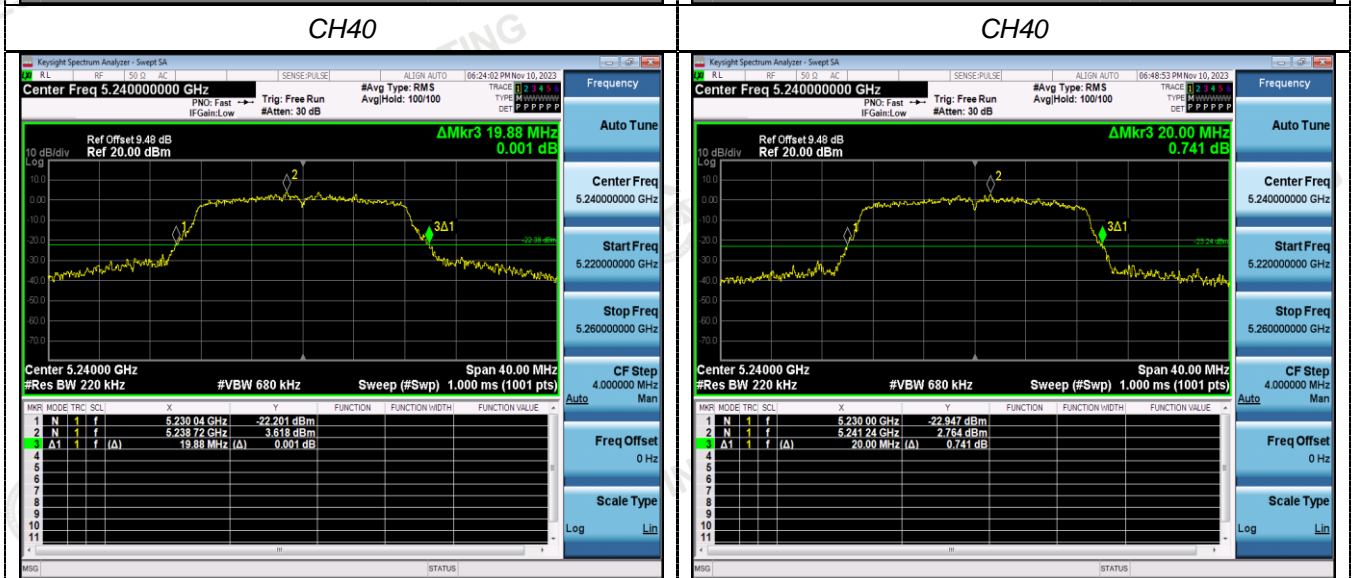
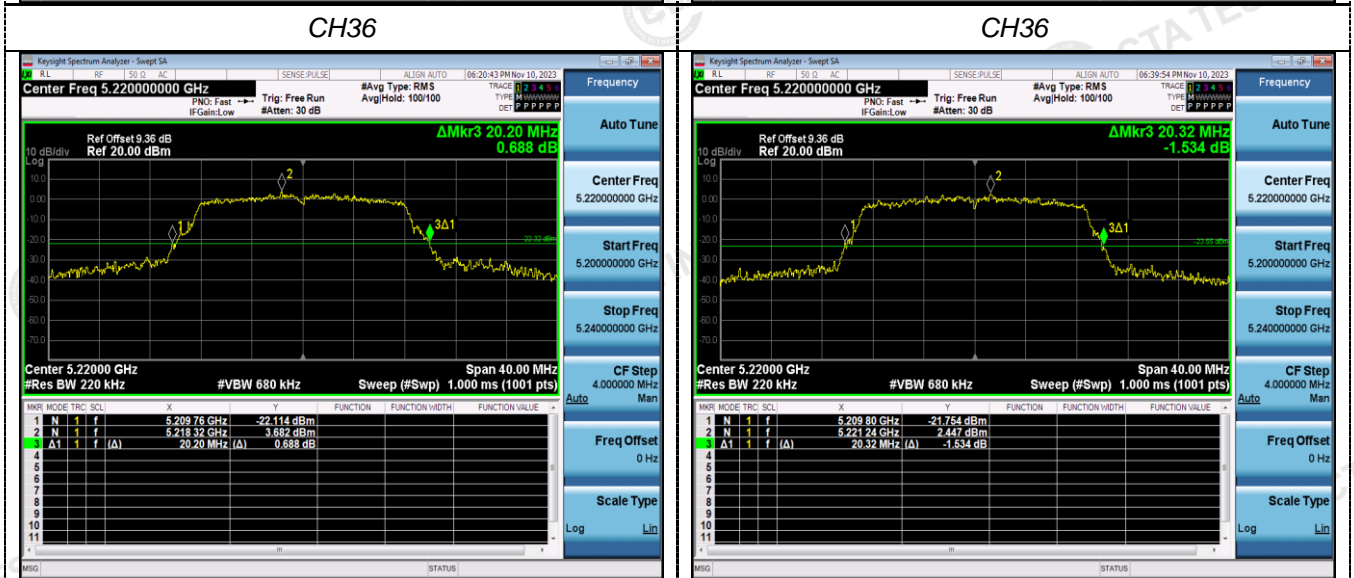
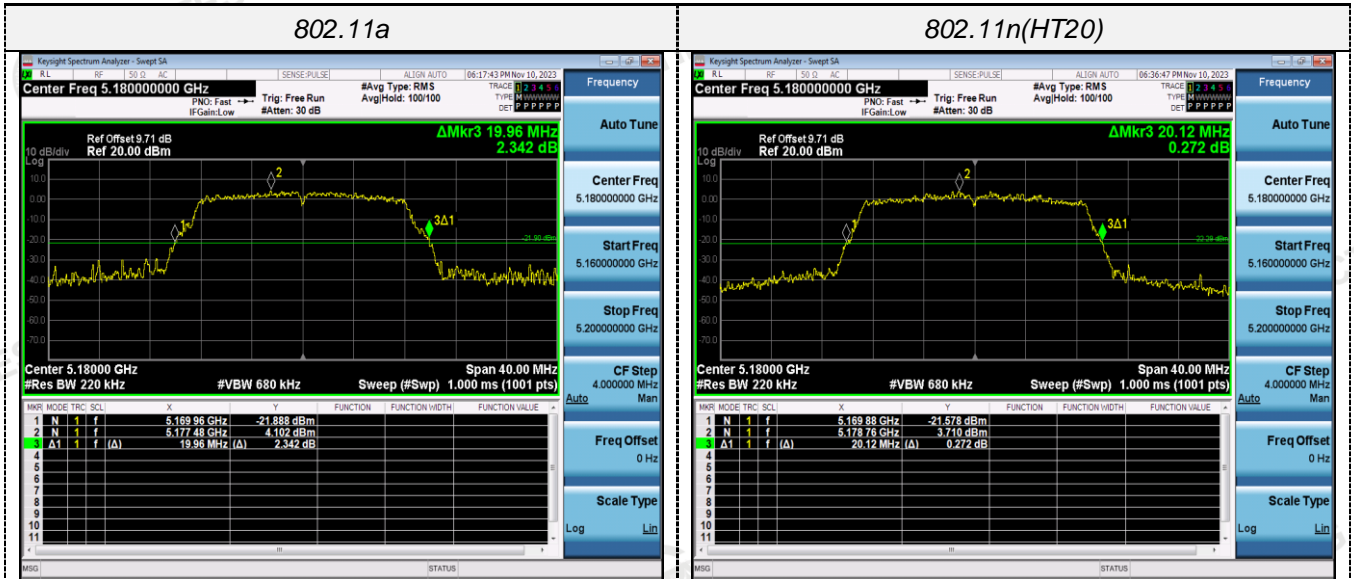
ANT 1





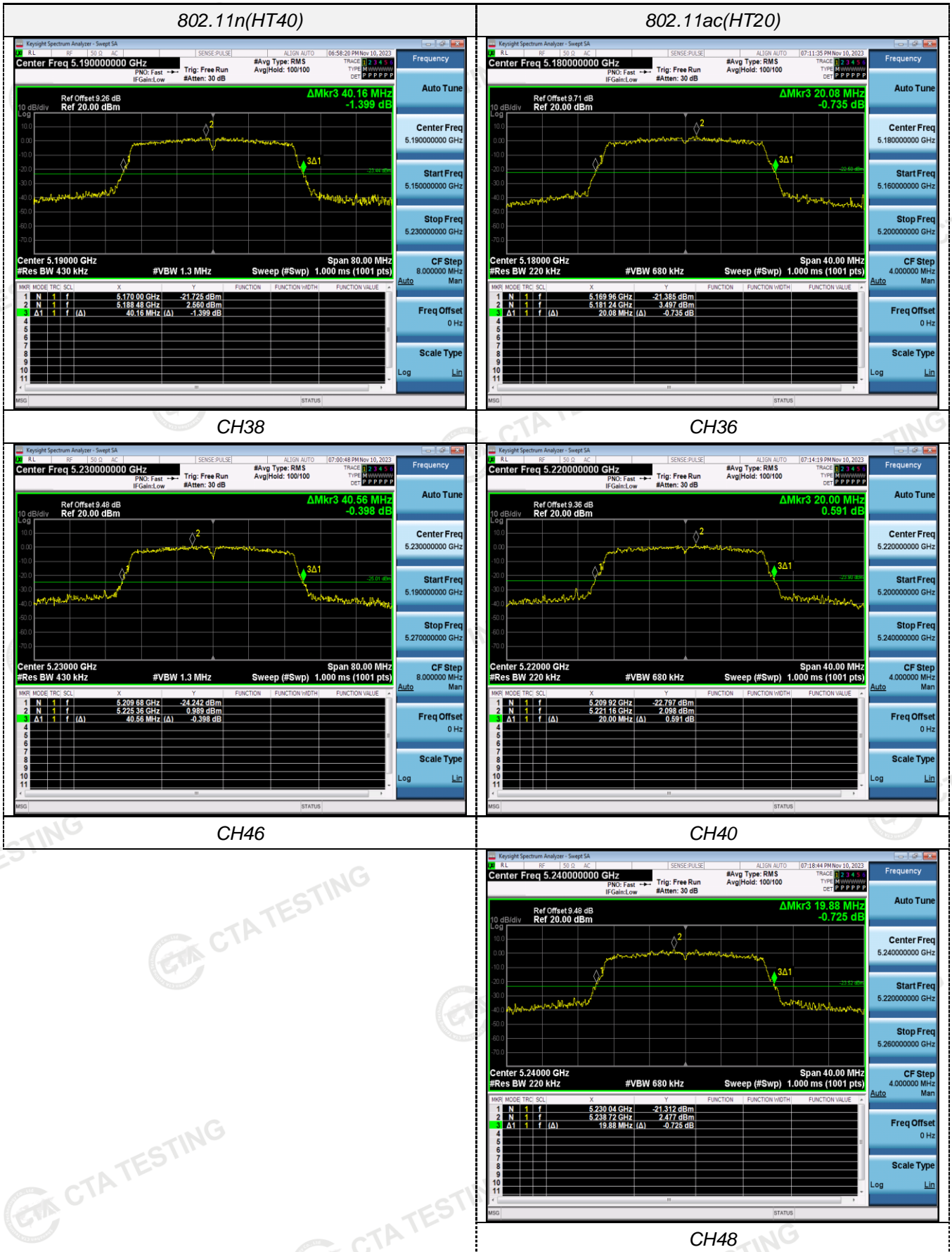


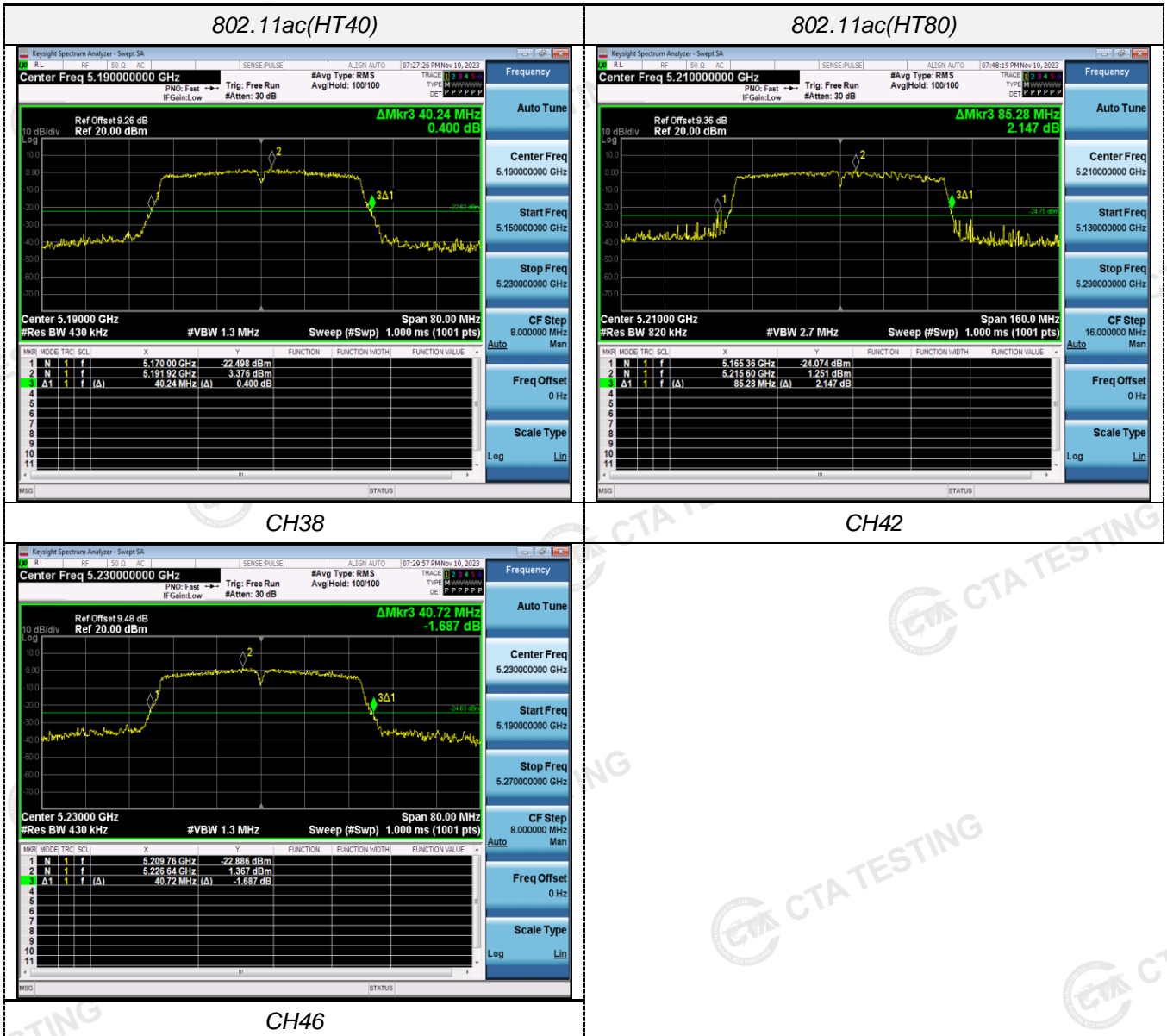
ANT 2



CH48

CH48





4.6 Minimum Emission Bandwidth (6dB Bandwidth)

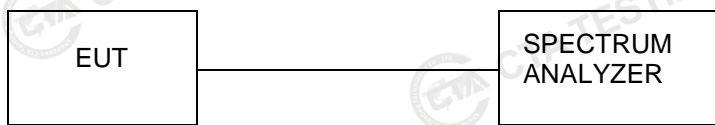
Limit

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth 3 x RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. 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.

Test Configuration



Test Results

ANT 1

Type	Bands	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	U-NII 3	149	15.120	≥500KHz	Pass
		157	15.520		
		165	15.120		
802.11n(HT20)	U-NII 3	149	15.280		
		157	14.120		
		165	13.760		
802.11n(HT40)	U-NII 3	151	35.040		
		159	35.040		
802.11ac(HT20)	U-NII 3	149	13.200		
		157	16.920		
		165	13.880		
802.11ac(HT40)	U-NII 3	151	35.040		
		159	35.040		
802.11ac(HT80)	U-NII 3	155	75.040		

ANT 2

Type	Bands	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	U-NII 3	149	14.440	≥500KHz	Pass
		157	15.040		
		165	13.560		
802.11n(HT20)	U-NII 3	149	14.400		
		157	12.800		
		165	15.080		
802.11n(HT40)	U-NII 3	151	35.120		
		159	33.920		
802.11ac(HT20)	U-NII 3	149	15.080		
		157	13.800		
		165	14.440		
802.11ac(HT40)	U-NII 3	151	35.040		
		159	35.120		
802.11ac(HT80)	U-NII 3	155	72.640		

Test plot as follows: