

802.11n(HT40)

U-NII 1



U-NII 3



CH38



CH151



CH46

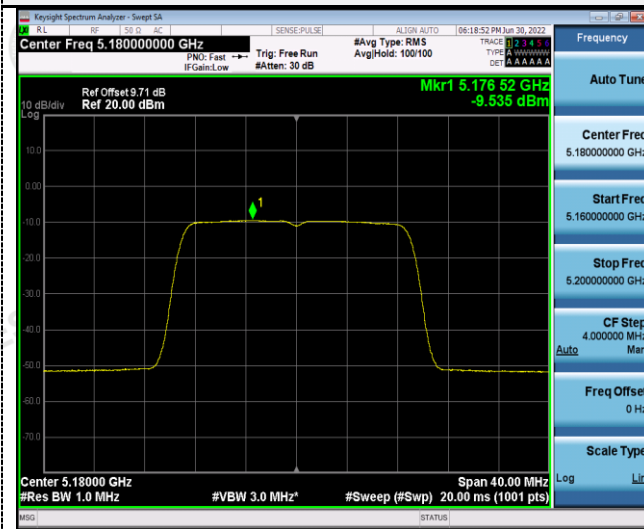


CH159



802.11ac(HT20)

U-NII 1



U-NII 3



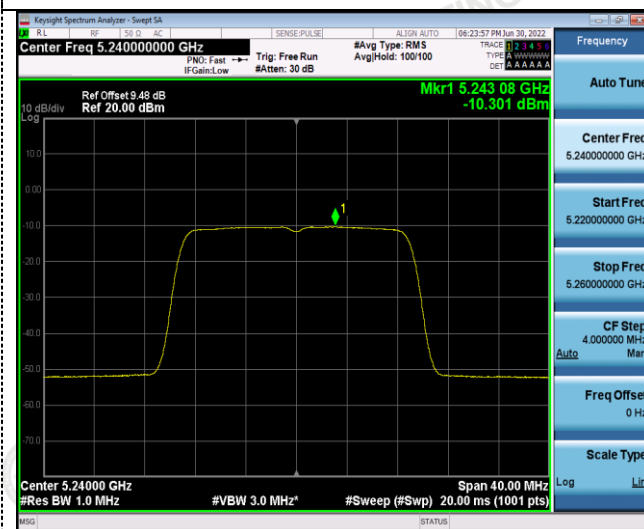
CH36



CH149



CH40



CH157



CH48

CH165

802.11ac(HT40)

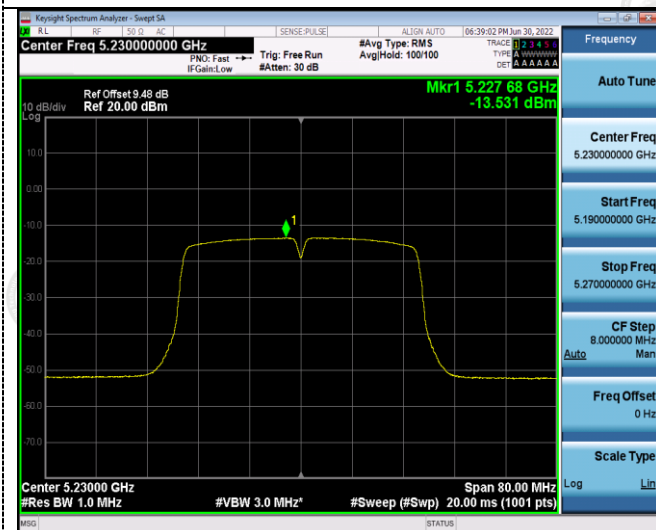
U-NII 1



U-NII 3



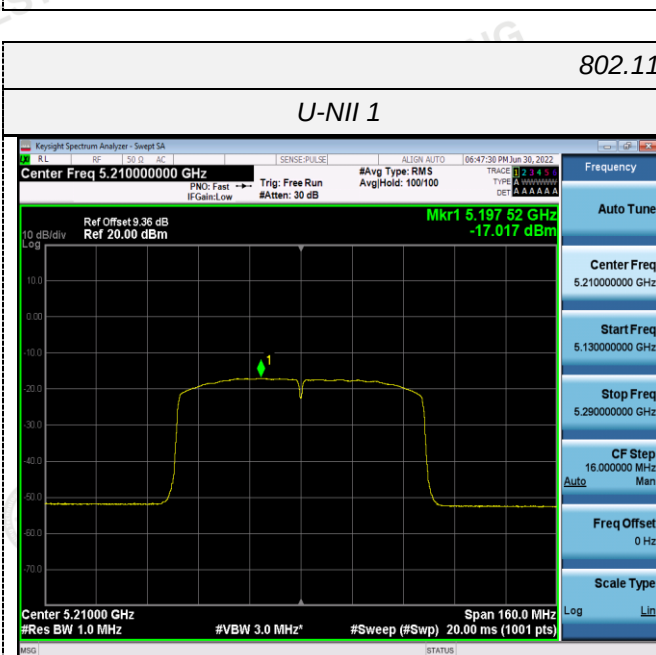
CH38



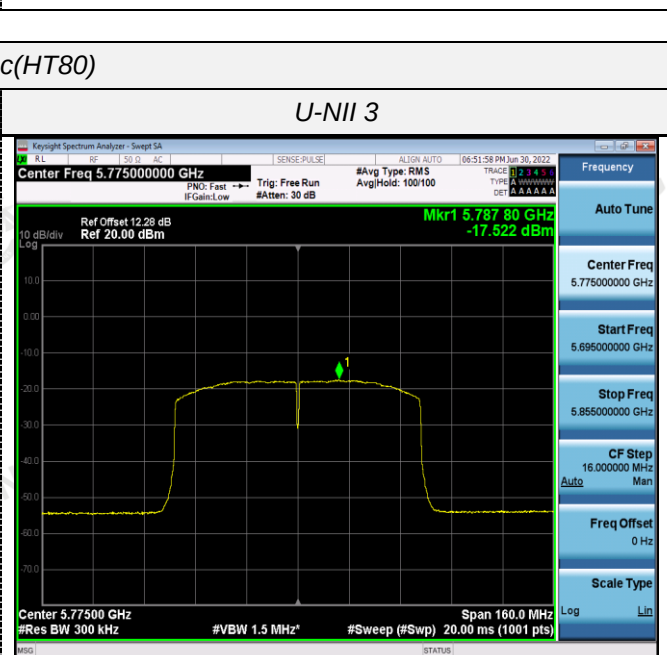
CH151



CH46

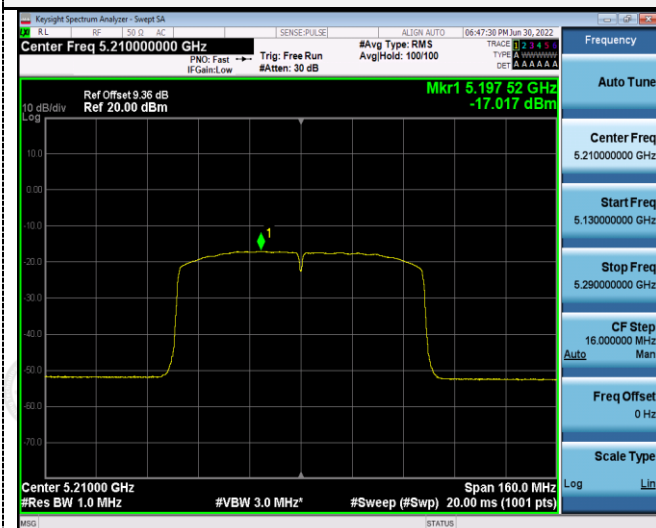


CH159

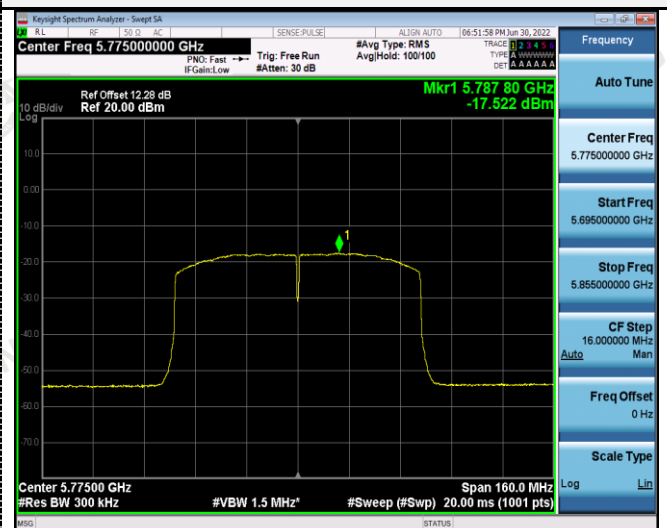


802.11ac(HT80)

U-NII 1



U-NII 3



CH42

CH155

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

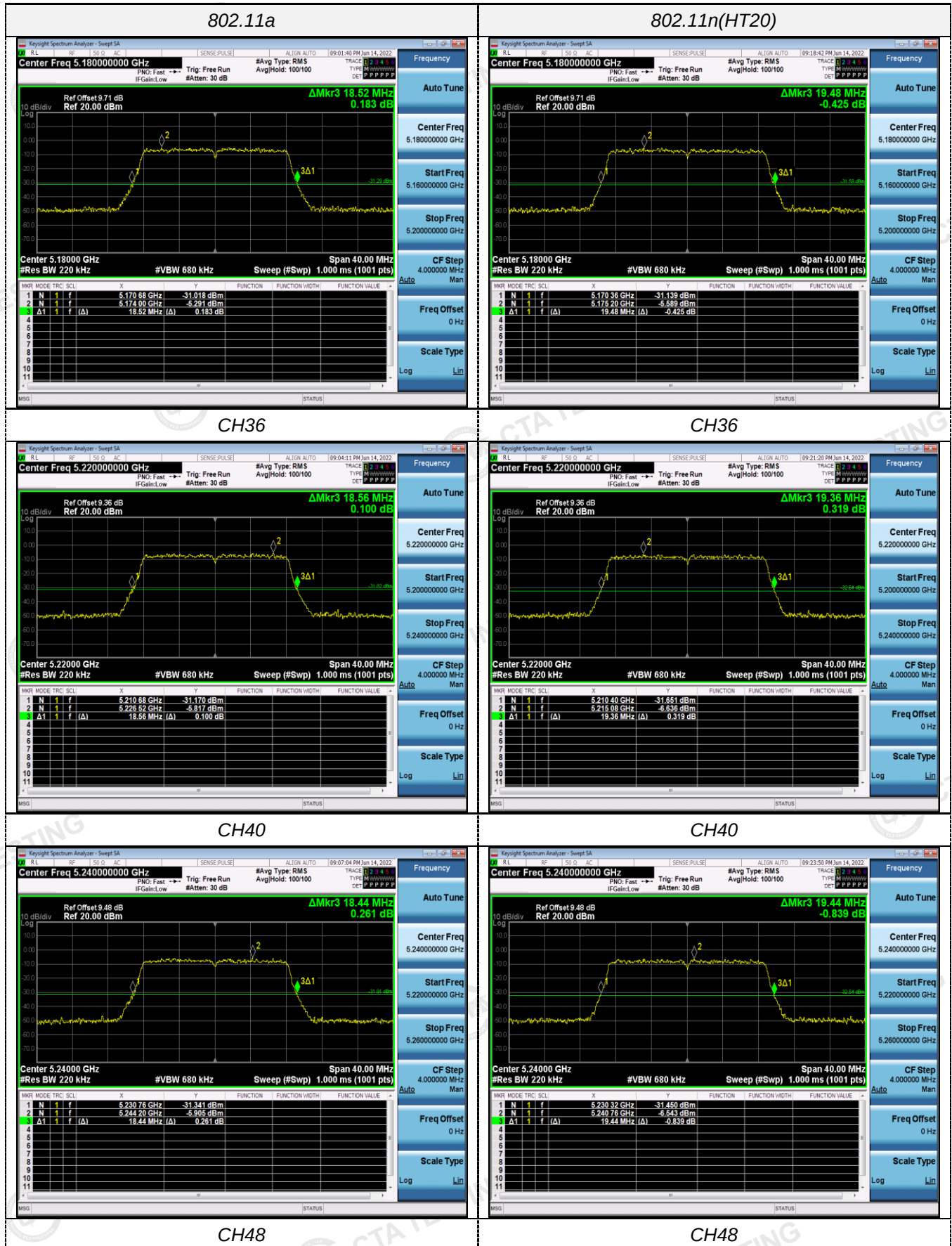
C	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	18.520	N/A	Pass
		44	18.560		
		48	18.440		
802.11n(HT20)	U-NII 1	36	19.480		
		44	19.360		
		48	19.440		
802.11n(HT40)	U-NII 1	38	41.200		
		46	41.120		
802.11ac(HT20)	U-NII 1	36	19.480		
		44	19.440		
		48	19.400		
802.11ac(HT40)	U-NII 1	38	41.040		
		46	41.040		
802.11ac(HT80)	U-NII 1	42	81.440		

ANT 2

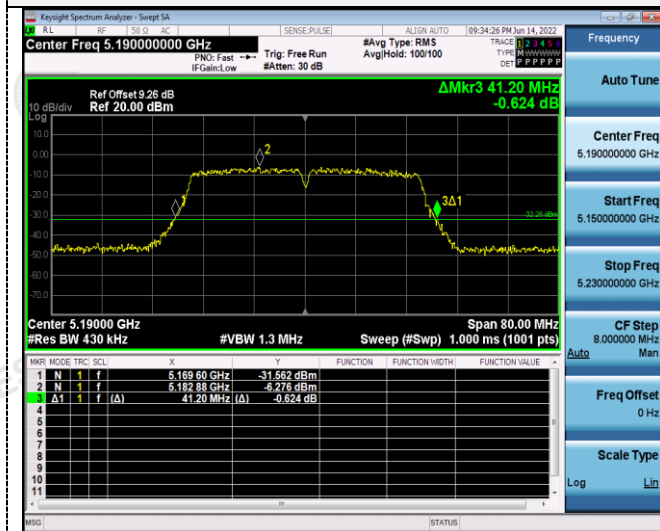
Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	18.280	N/A	Pass
		44	18.400		
		48	18.320		
802.11n(HT20)	U-NII 1	36	19.360		
		44	19.400		
		48	19.320		
802.11n(HT40)	U-NII 1	38	41.040		
		46	41.200		
802.11ac(HT20)	U-NII 1	36	19.400		
		44	19.400		
		48	19.320		
802.11ac(HT40)	U-NII 1	38	41.200		
		46	41.360		
802.11ac(HT80)	U-NII 1	42	81.440		

Test plot as follows:

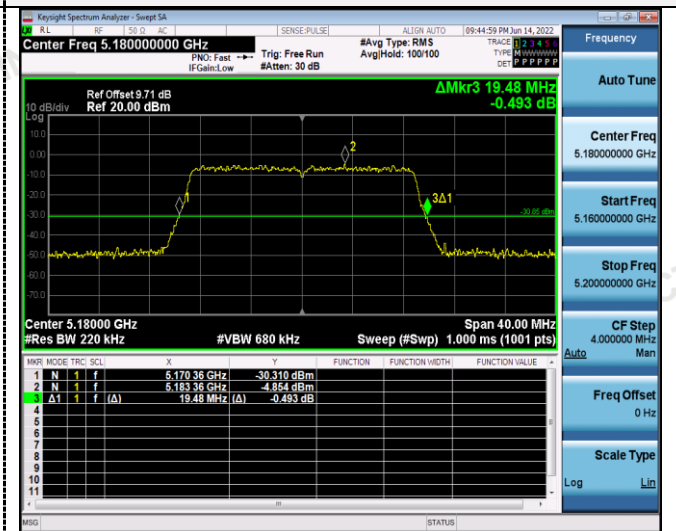
ANT 1



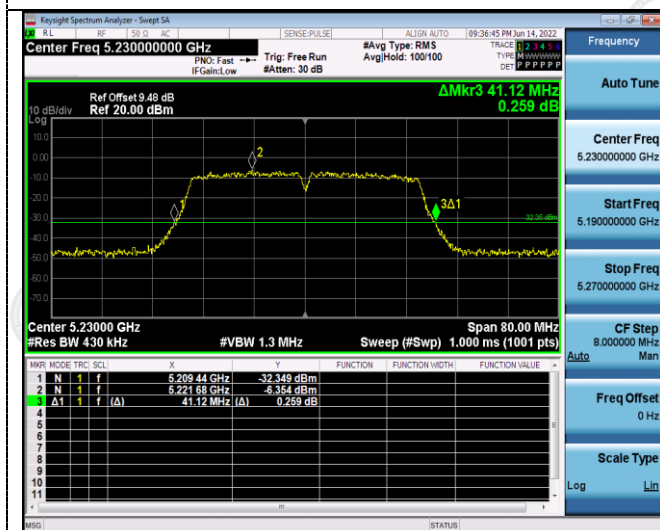
802.11n(HT40)



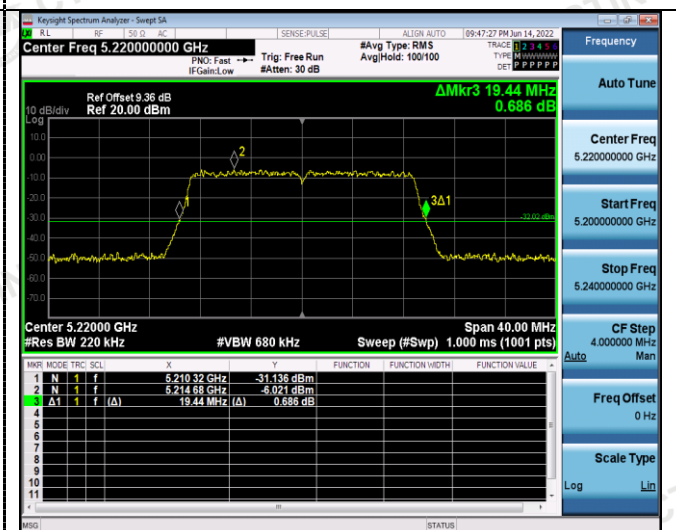
802.11ac(HT20)



CH38



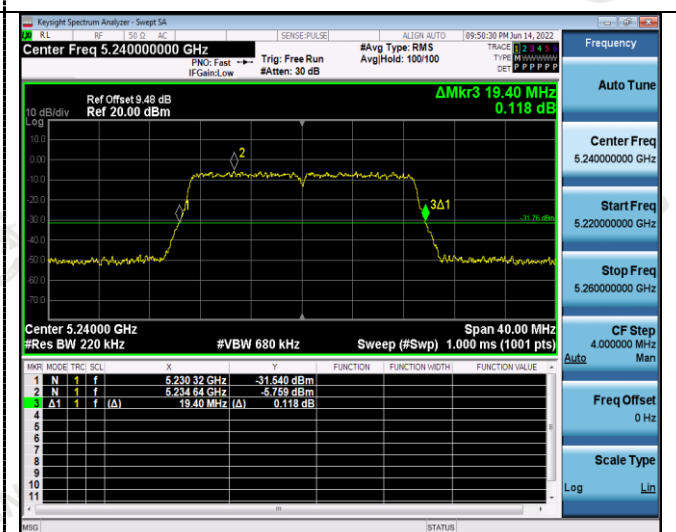
CH36



CH46

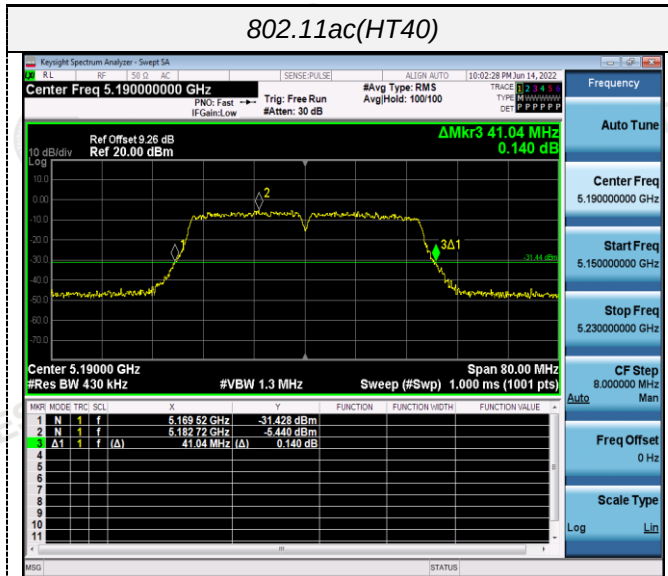


CH40

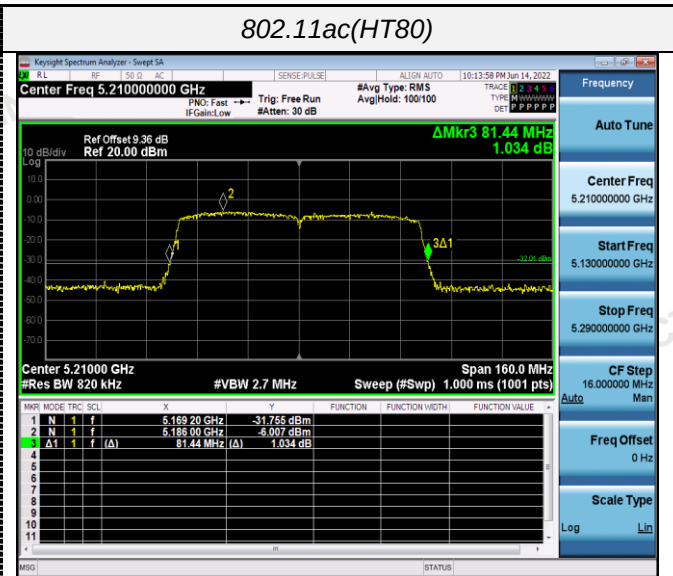


CH48

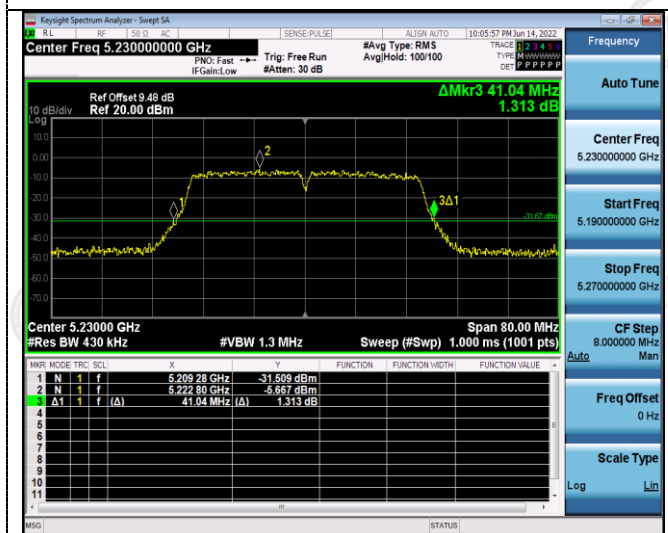
802.11ac(HT40)



802.11ac(HT80)



CH38



CH46

CH42

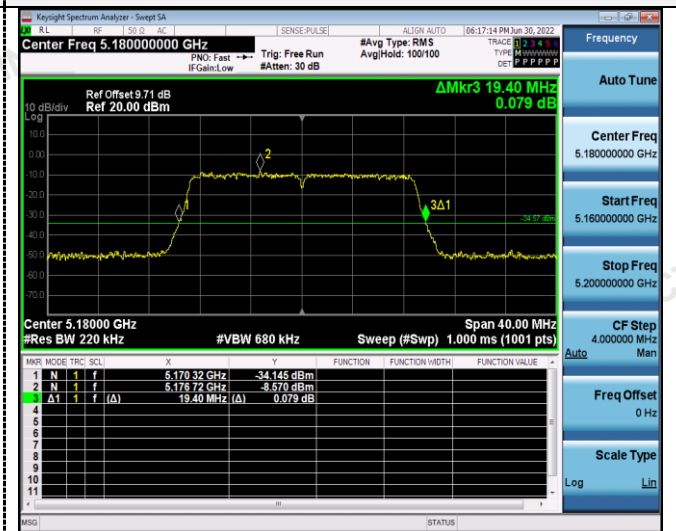
ANT 2



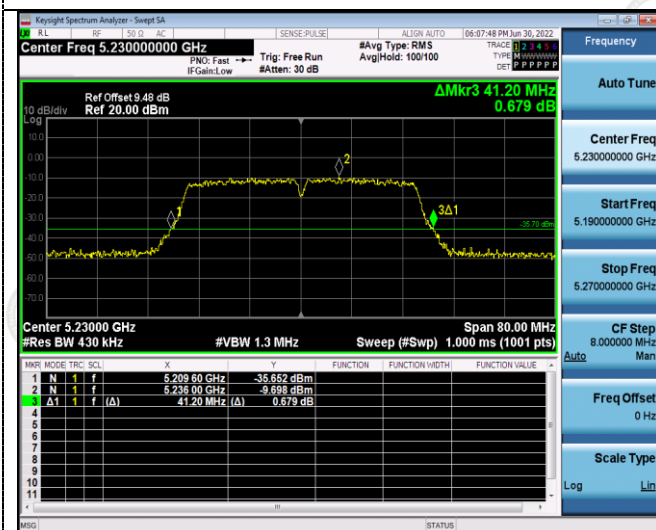
802.11n(HT40)



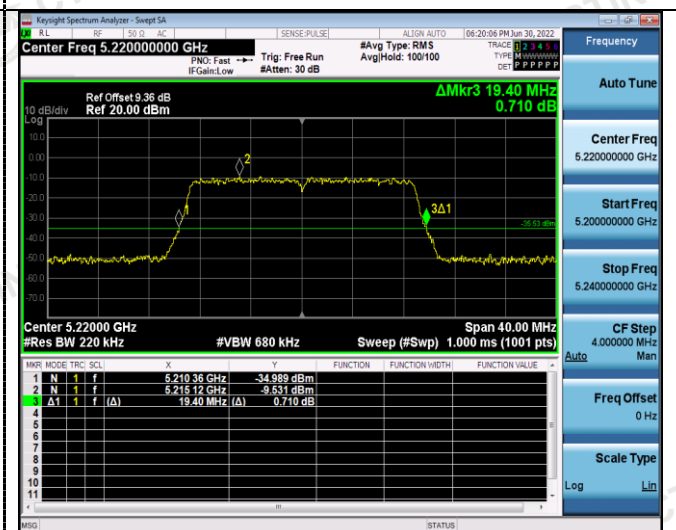
802.11ac(HT20)



CH38



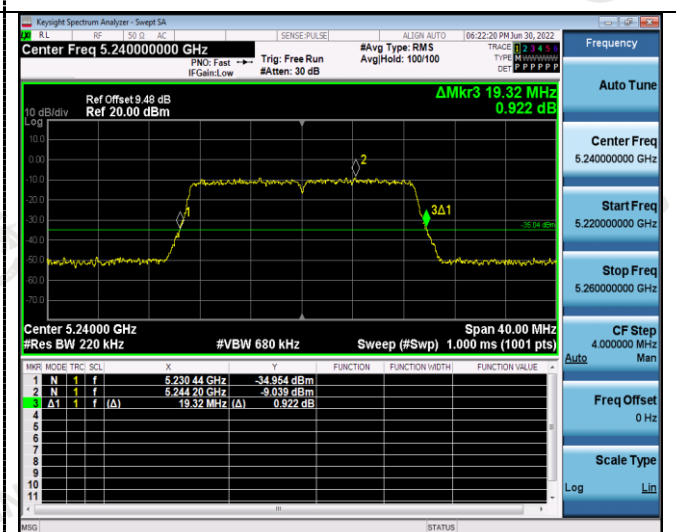
CH36



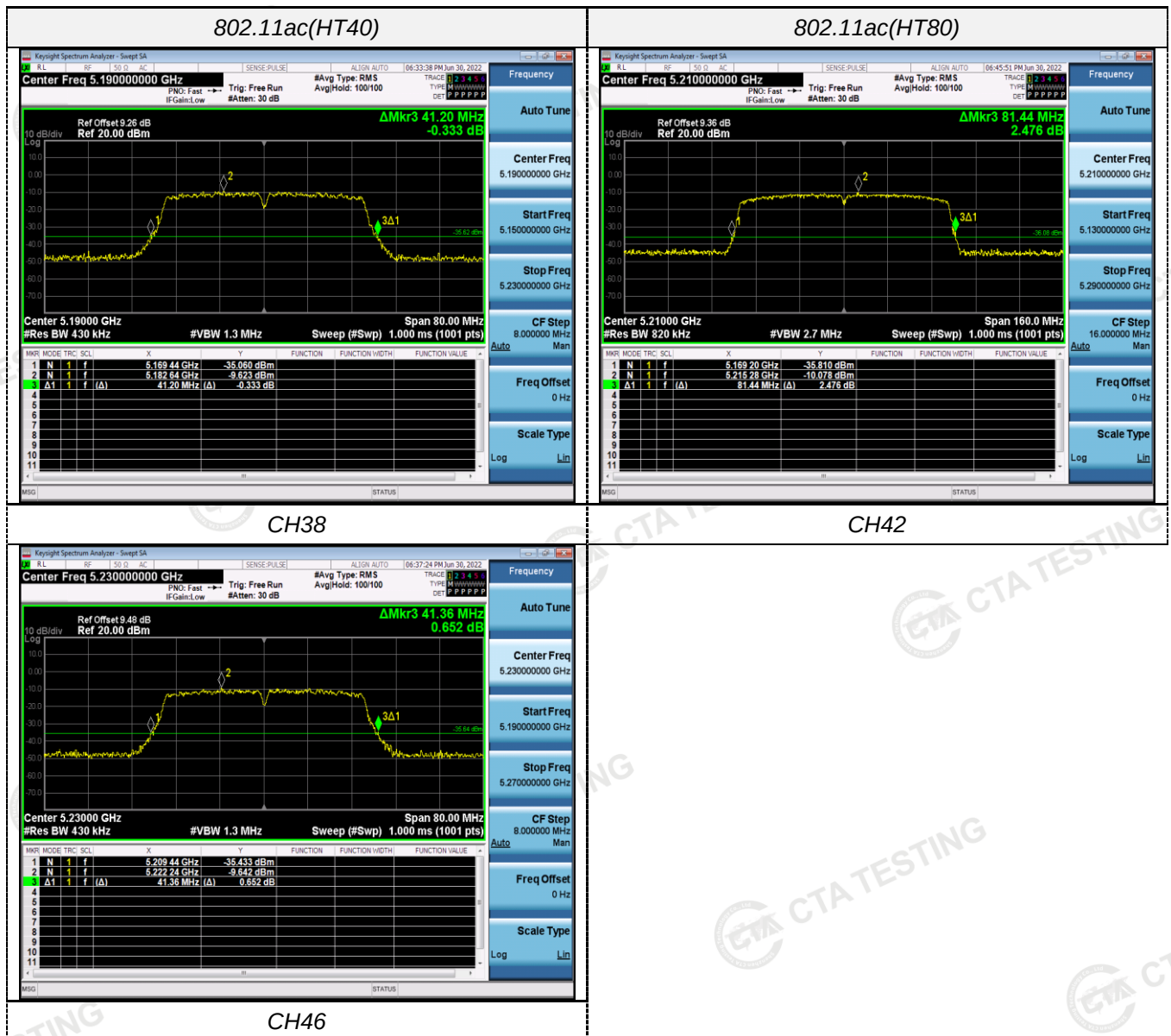
CH46



CH40



CH48



4.6 Minimum Emission Bandwidth (6dB Bandwidth)

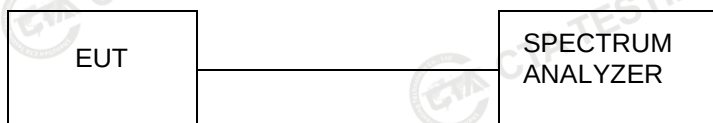
Limit

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	18.320	≥500KHz	Pass
		157	18.400		
		165	18.440		
802.11n(HT20)	U-NII 3	149	19.520		
		157	19.360		
		165	19.520		
802.11n(HT40)	U-NII 3	151	41.440		
		159	40.960		
802.11ac(HT20)	U-NII 3	149	19.400		
		157	19.400		
		165	19.480		
802.11ac(HT40)	U-NII 3	151	41.040		
		159	40.960		
802.11ac(HT80)	U-NII 3	155	81.120		

ANT 2

Type	Bands	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	U-NII 3	149	18.320	≥500KHz	Pass
		157	18.360		
		165	18.400		
802.11n(HT20)	U-NII 3	149	19.400		
		157	19.600		
		165	19.360		
802.11n(HT40)	U-NII 3	151	41.120		
		159	40.960		
802.11ac(HT20)	U-NII 3	149	19.360		
		157	19.320		
		165	19.480		
802.11ac(HT40)	U-NII 3	151	40.800		
		159	41.200		
802.11ac(HT80)	U-NII 3	155	80.480		

Test plot as follows: