

802.11ac(HT20)

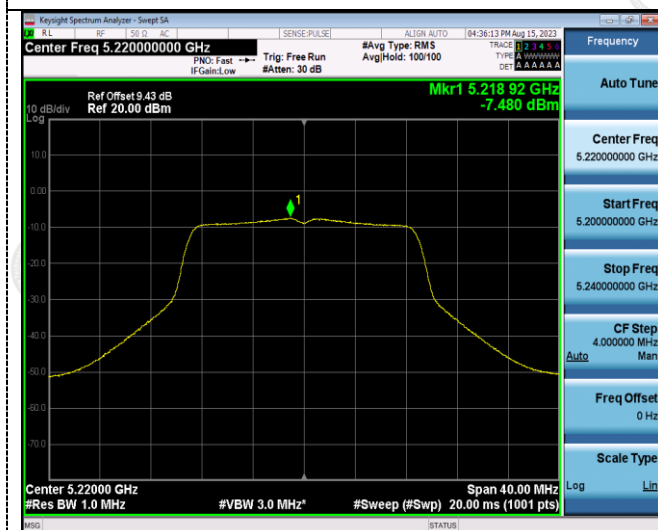
U-NII 1



U-NII 3



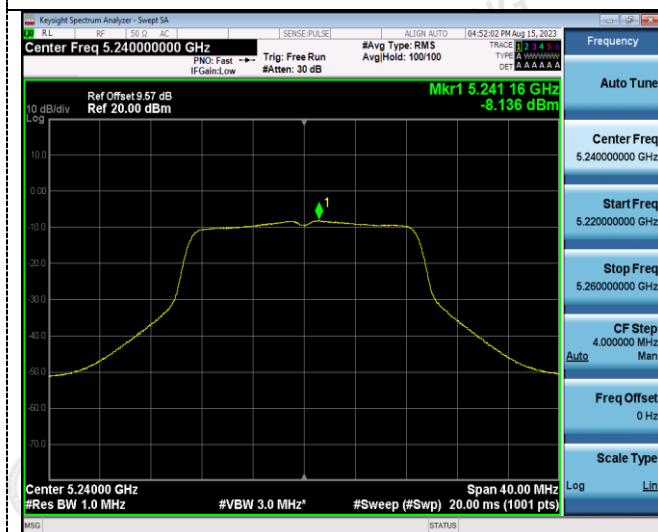
CH36



CH149



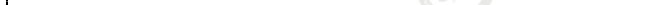
CH40



CH157



CH48



CH165



802.11ac(HT40)

U-NII 1



U-NII 3



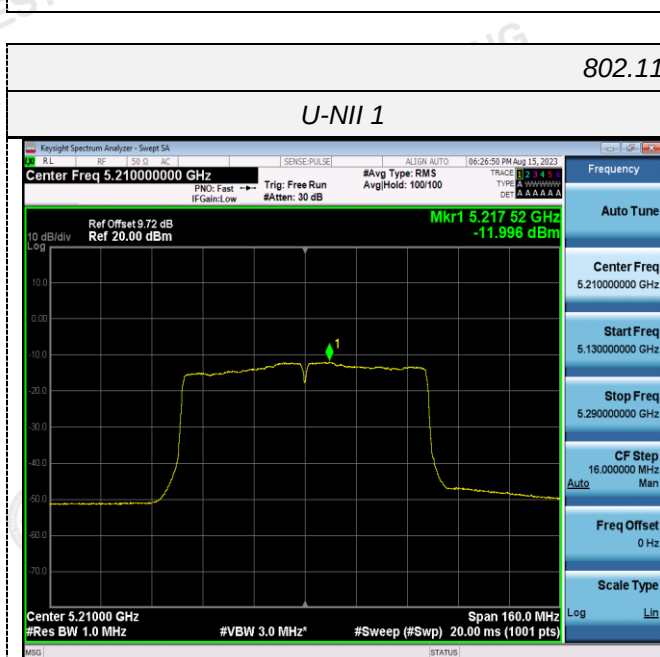
CH38



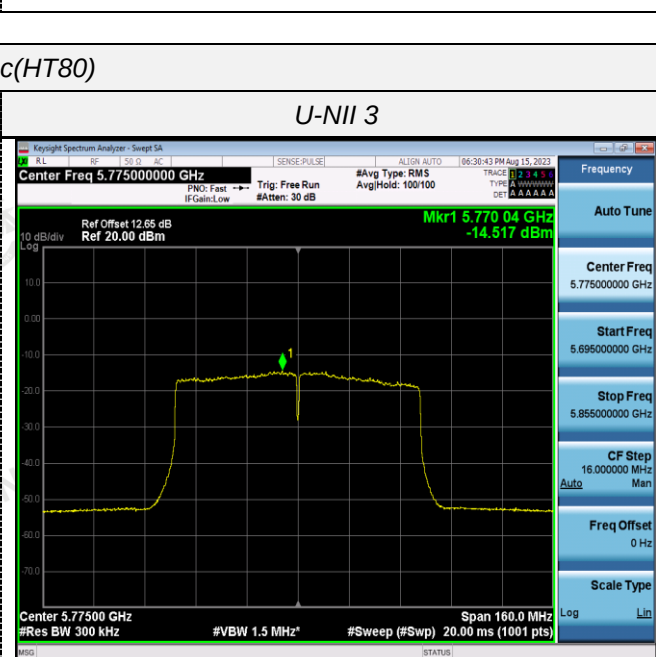
CH151



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

Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	22.480	N/A	Pass
		44	22.240		
		48	21.760		
802.11n(HT20)	U-NII 1	36	23.280		
		44	22.320		
		48	23.040		
802.11n(HT40)	U-NII 1	38	40.960		
		46	40.640		
802.11ac(HT20)	U-NII 1	36	22.600		
		44	21.880		
		48	23.200		
802.11ac(HT40)	U-NII 1	38	41.040		
		46	40.960		
802.11ac(HT80)	U-NII 1	42	82.240		

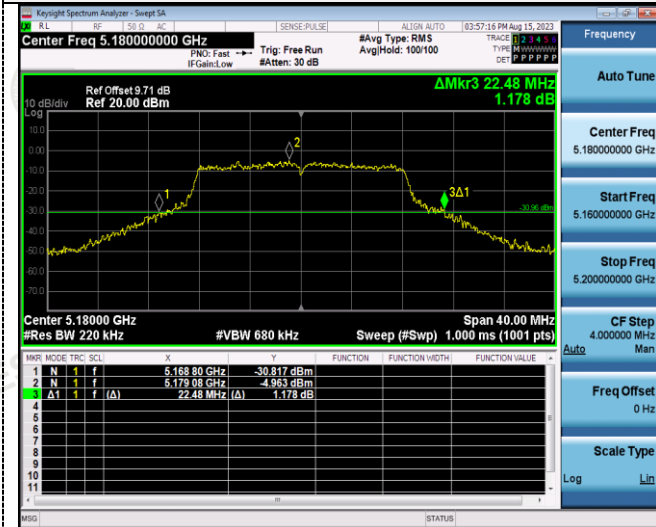
ANT 2

Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	21.560	N/A	Pass
		44	21.640		
		48	21.840		
802.11n(HT20)	U-NII 1	36	22.000		
		44	23.440		
		48	23.120		
802.11n(HT40)	U-NII 1	38	40.720		
		46	41.040		
802.11ac(HT20)	U-NII 1	36	22.320		
		44	23.320		
		48	22.560		
802.11ac(HT40)	U-NII 1	38	41.440		
		46	41.120		
802.11ac(HT80)	U-NII 1	42	82.400		

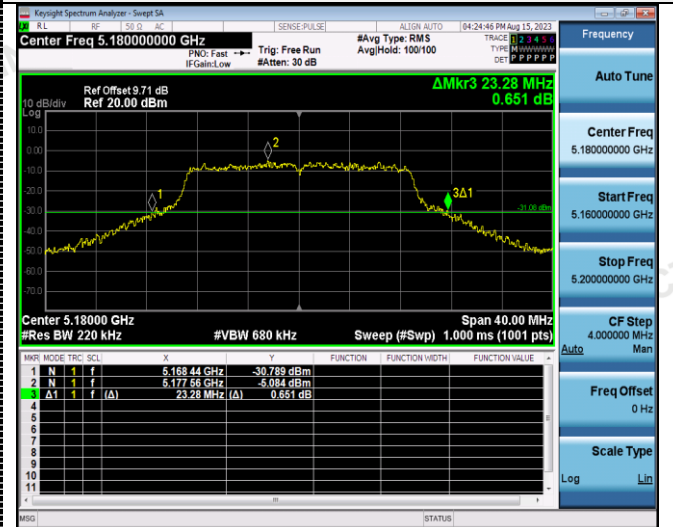
Test plot as follows:

ANT 1

802.11a



802.11n(HT20)



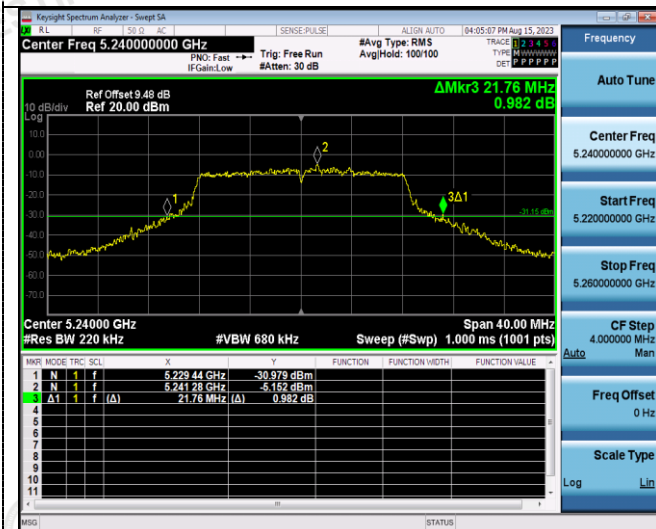
CH36



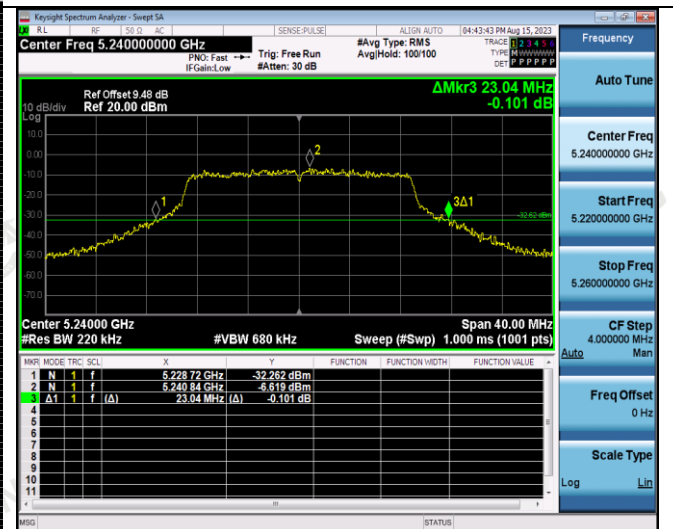
CH36



CH40

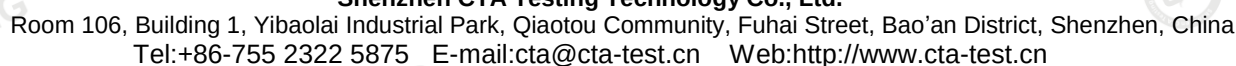


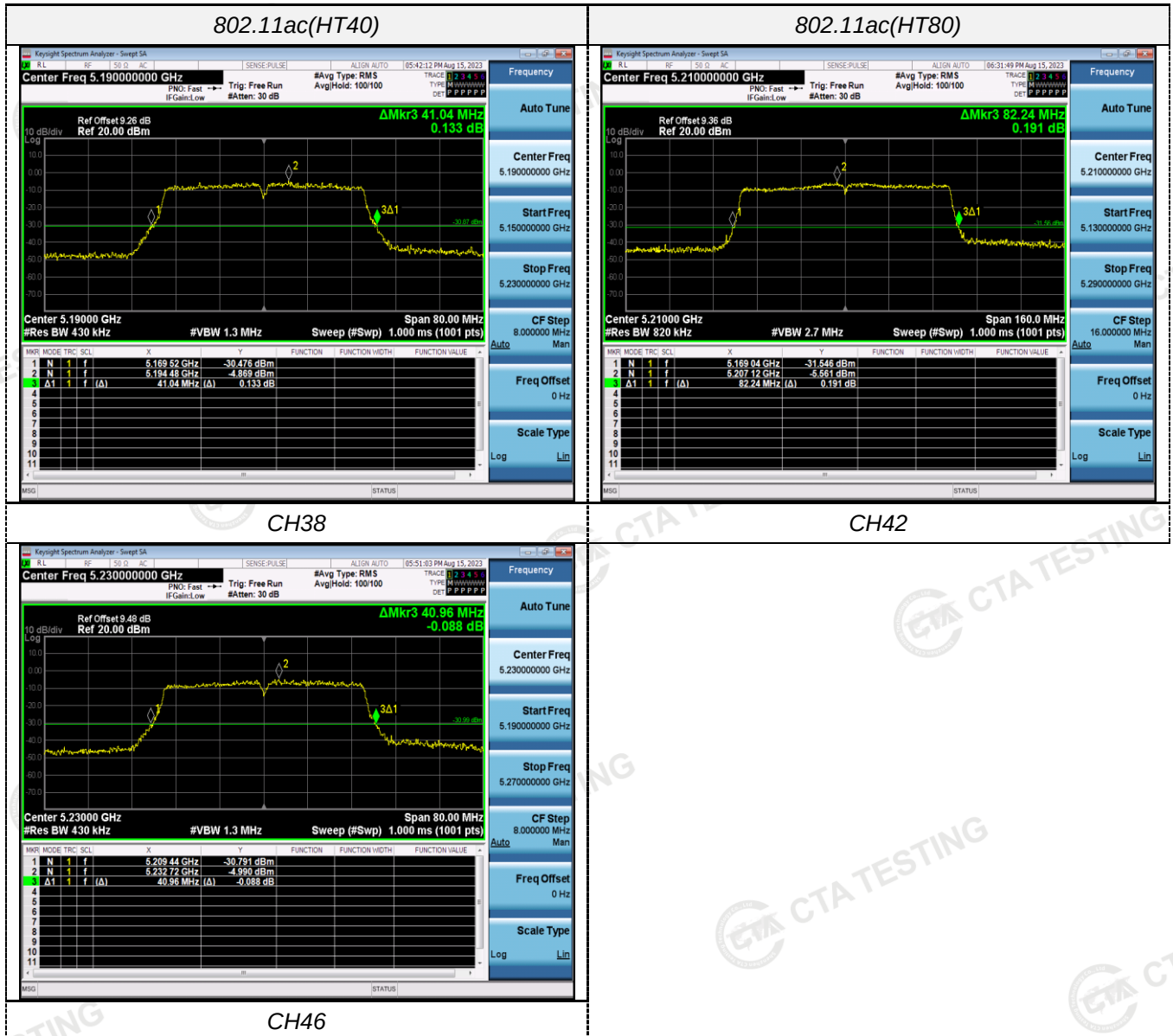
CH40



CH48

CH48





ANT 2

802.11a



802.11n(HT20)



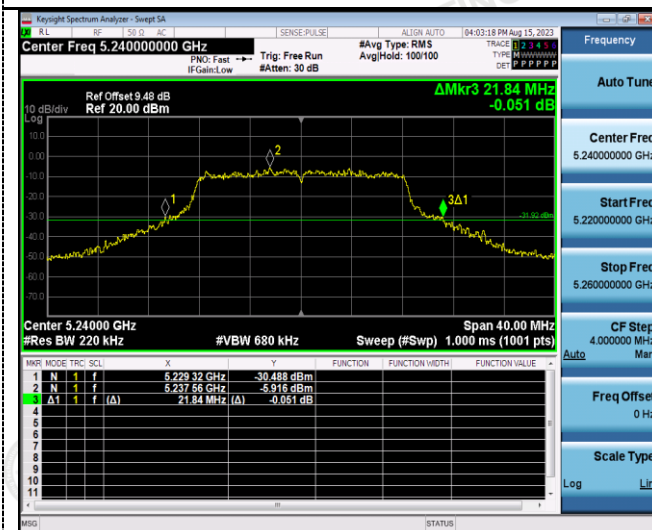
CH36



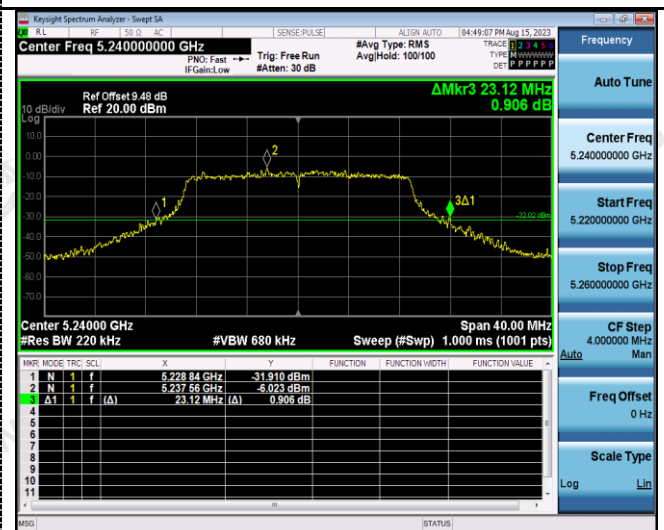
CH36



CH40



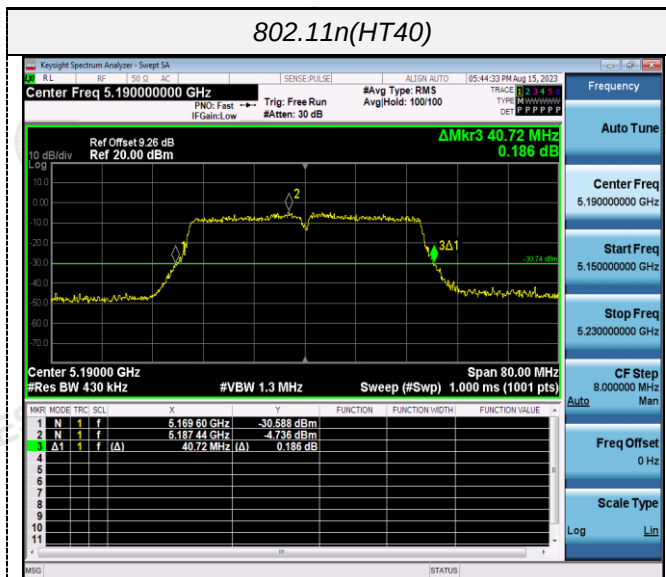
CH40



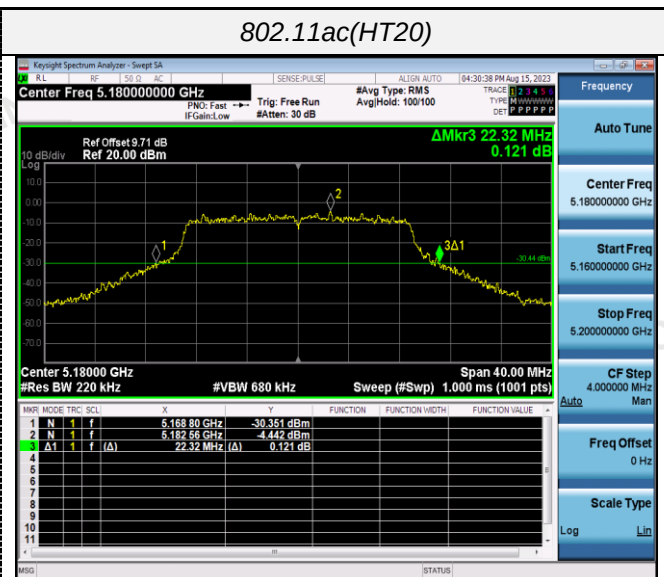
CH48

CH48

802.11n(HT40)



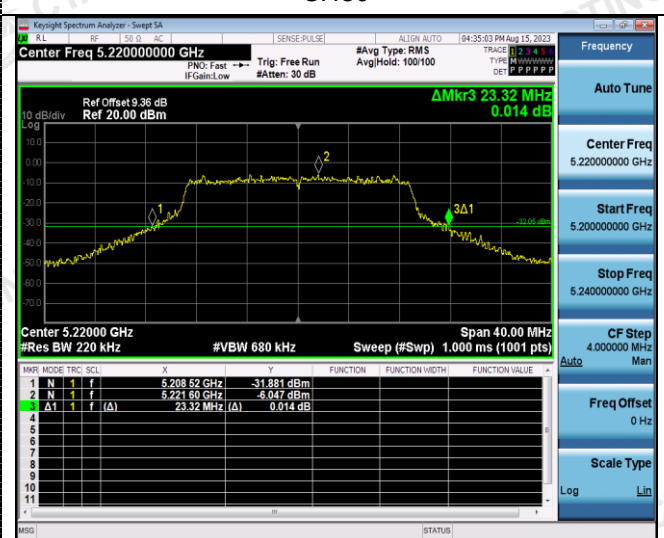
802.11ac(HT20)



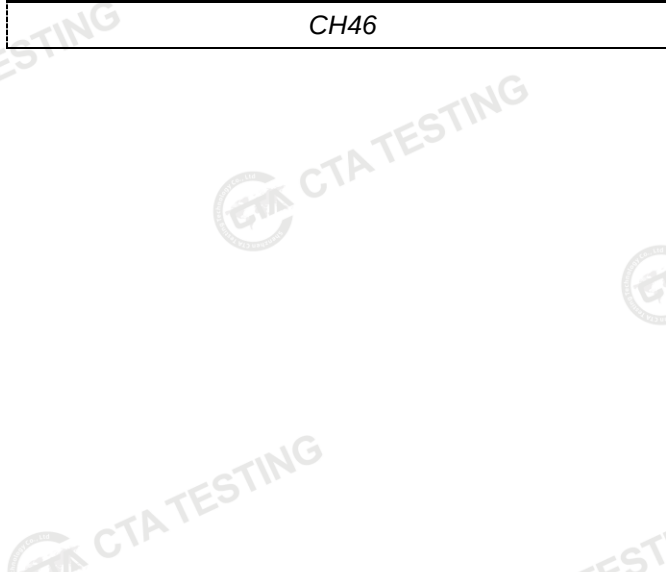
CH38



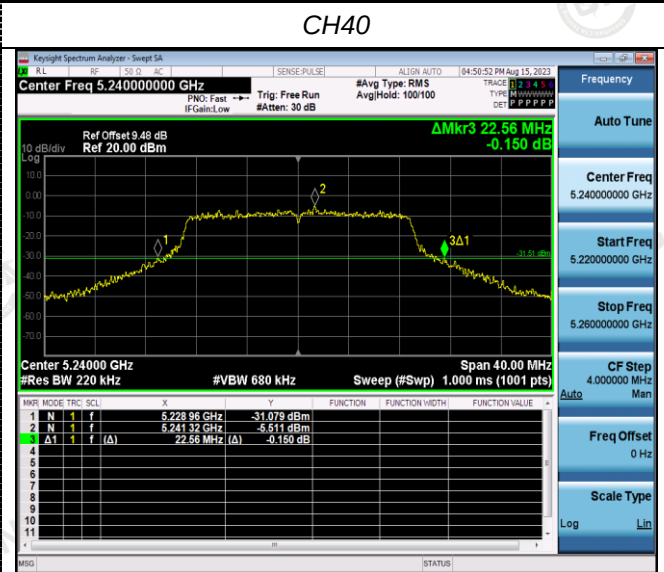
CH36



CH46

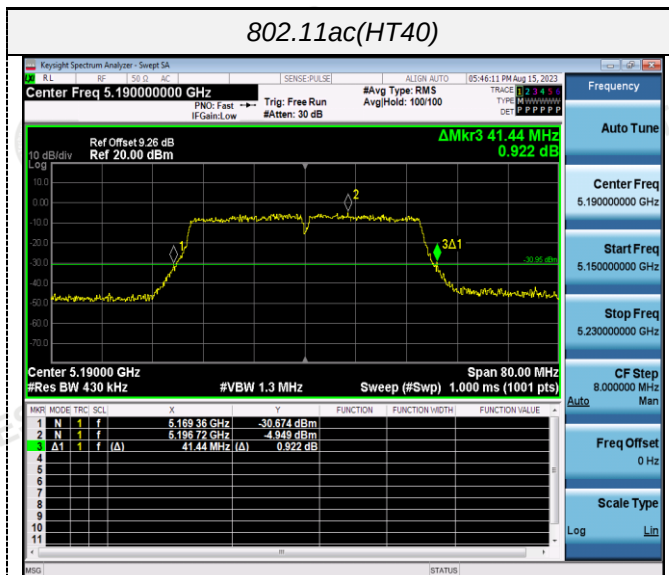


CH40

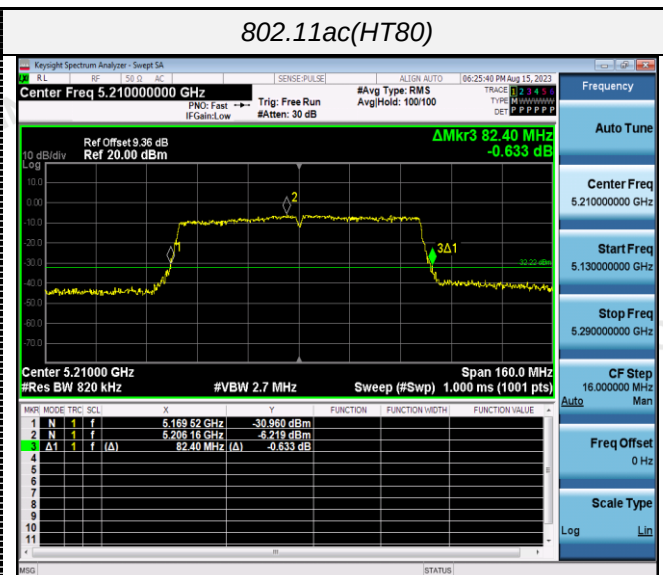


CH48

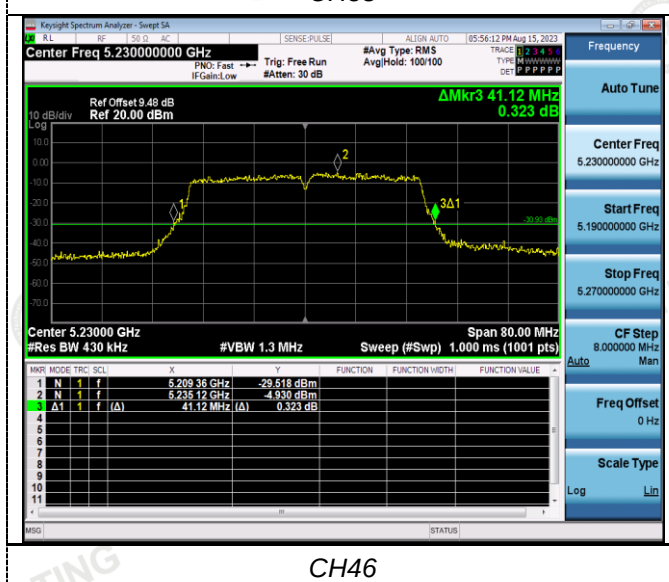
802.11ac(HT40)



802.11ac(HT80)



CH38



CH42



CH46

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	16.280	≥500KHz	Pass
		157	16.320		
		165	15.880		
802.11n(HT20)	U-NII 3	149	17.120		
		157	16.520		
		165	17.080		
802.11n(HT40)	U-NII 3	151	35.040		
		159	35.280		
802.11ac(HT20)	U-NII 3	149	14.960		
		157	16.240		
		165	15.880		
802.11ac(HT40)	U-NII 3	151	35.920		
		159	35.120		
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	15.600	≥500KHz	Pass
		157	16.360		
		165	13.480		
802.11n(HT20)	U-NII 3	149	13.880		
		157	17.240		
		165	16.840		
802.11n(HT40)	U-NII 3	151	35.760		
		159	35.120		
802.11ac(HT20)	U-NII 3	149	17.520		
		157	16.760		
		165	15.080		
802.11ac(HT40)	U-NII 3	151	36.320		
		159	35.680		
802.11ac(HT80)	U-NII 3	155	75.200		

Test plot as follows: