

802.11n(HT40)

U-NII 1



U-NII 3



CH38



CH151

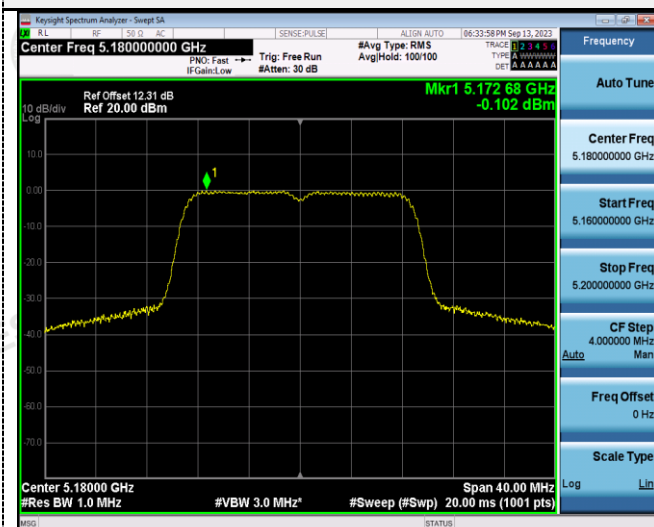


CH46

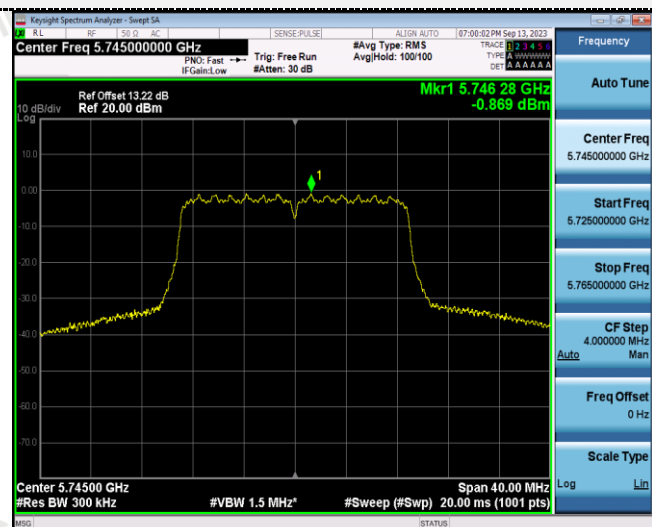
CH159

802.11ac(HT20)

U-NII 1



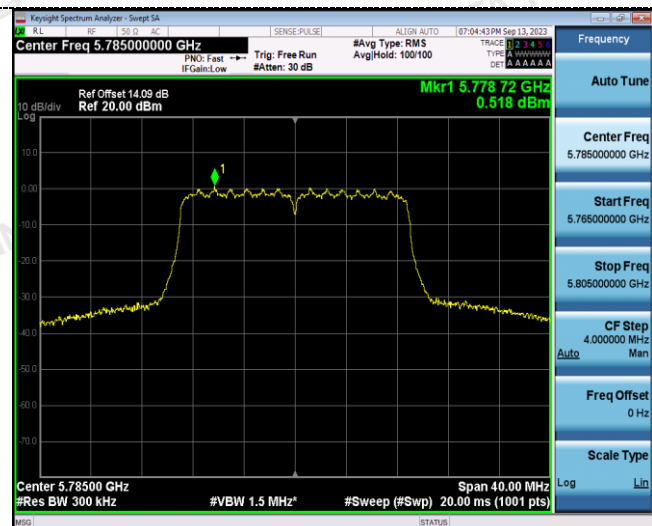
U-NII 3



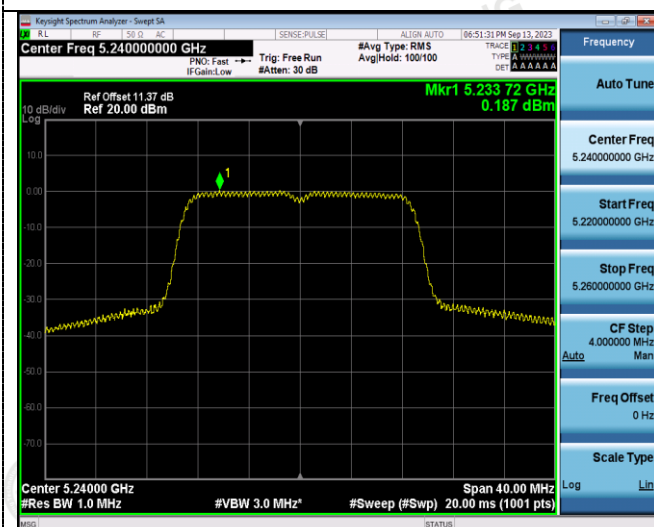
CH36



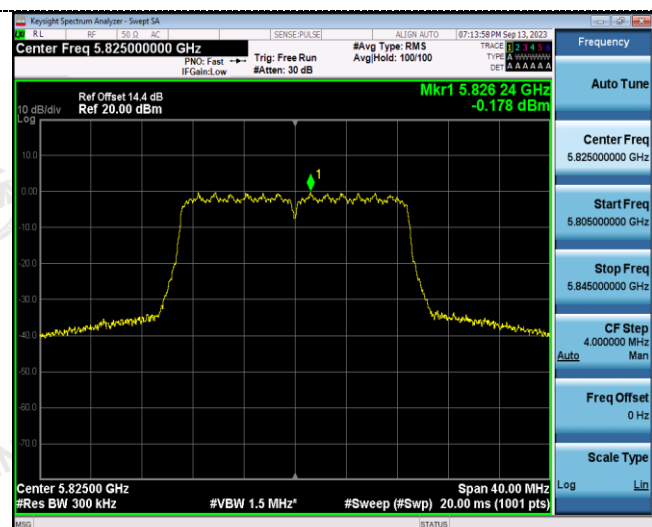
CH149



CH40



CH157



CH48

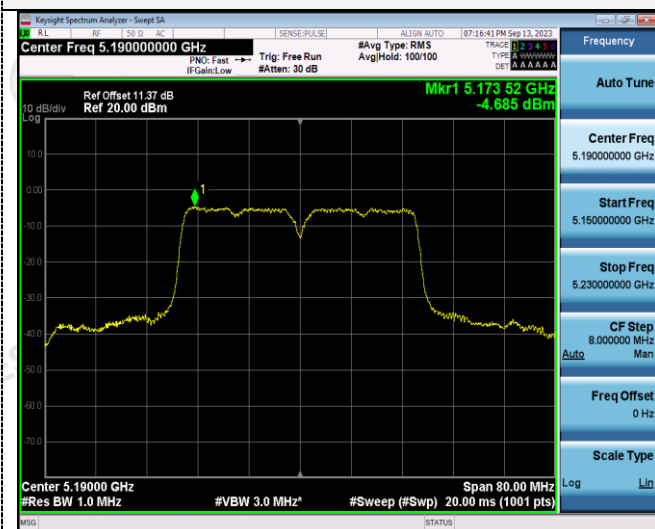


CH165



802.11ac(HT40)

U-NII 1



U-NII 3



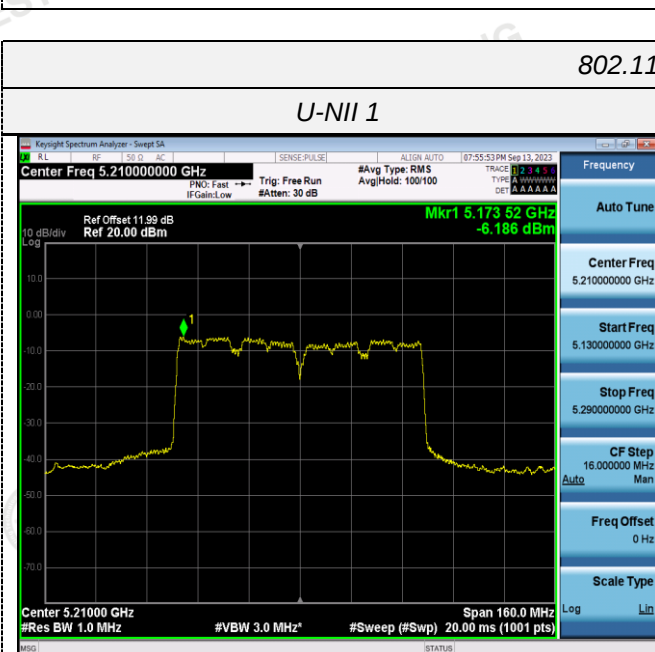
CH38



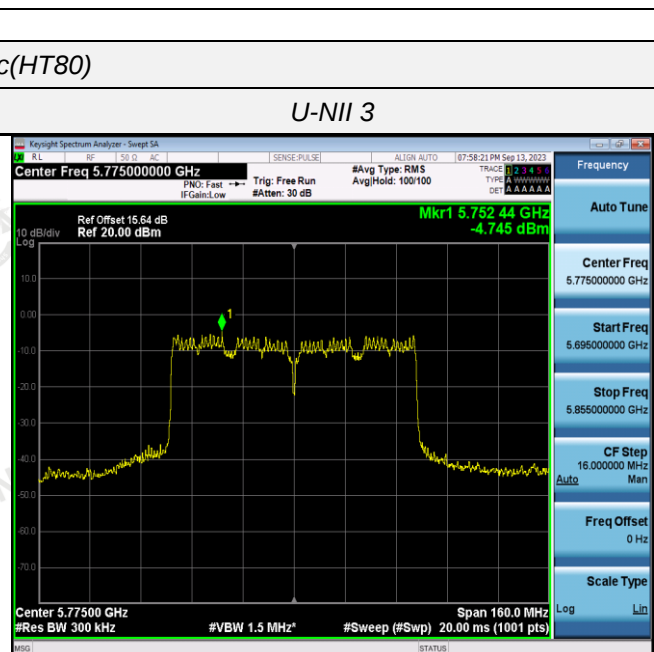
CH151



CH46



CH159



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	23.680	N/A	Pass
		44	24.200		
		48	21.520		
802.11n(HT20)	U-NII 1	36	24.840		
		44	25.720		
		48	24.000		
802.11n(HT40)	U-NII 1	38	51.600		
		46	54.080		
802.11ac(HT20)	U-NII 1	36	25.320		
		44	27.760		
		48	22.000		
802.11ac(HT40)	U-NII 1	38	64.560		
		46	48.080		
802.11ac(HT80)	U-NII 1	42	84.960		

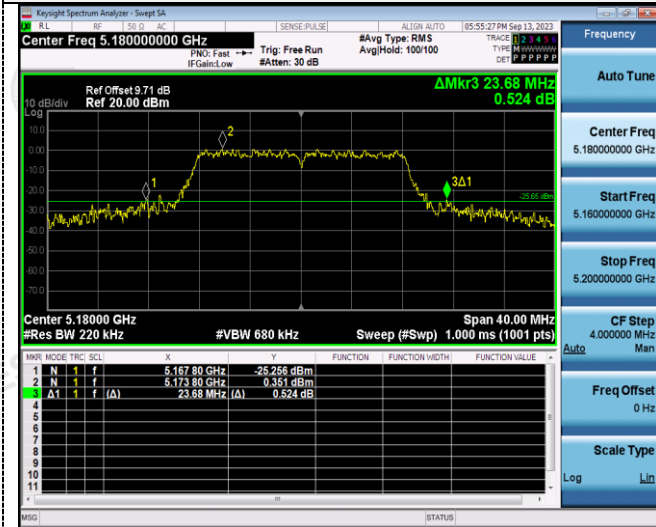
ANT 2

Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	24.880	N/A	Pass
		44	24.960		
		48	21.640		
802.11n(HT20)	U-NII 1	36	27.240		
		44	23.720		
		48	24.480		
802.11n(HT40)	U-NII 1	38	55.920		
		46	64.480		
802.11ac(HT20)	U-NII 1	36	26.720		
		44	24.720		
		48	22.160		
802.11ac(HT40)	U-NII 1	38	67.680		
		46	72.240		
802.11ac(HT80)	U-NII 1	42	85.600		

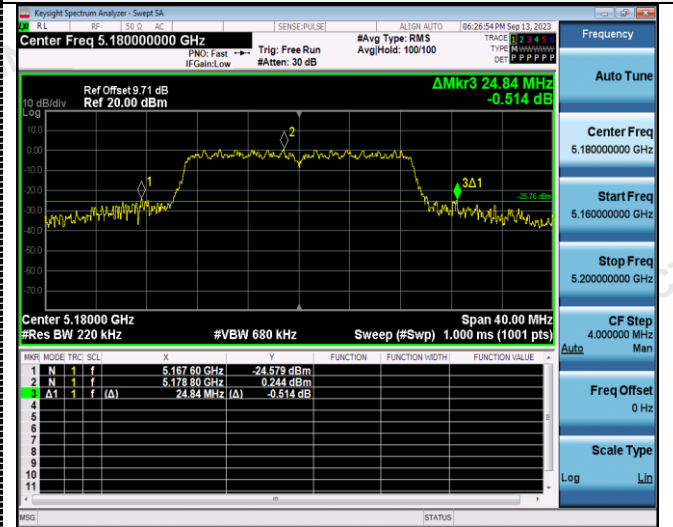
Test plot as follows:

ANT 1

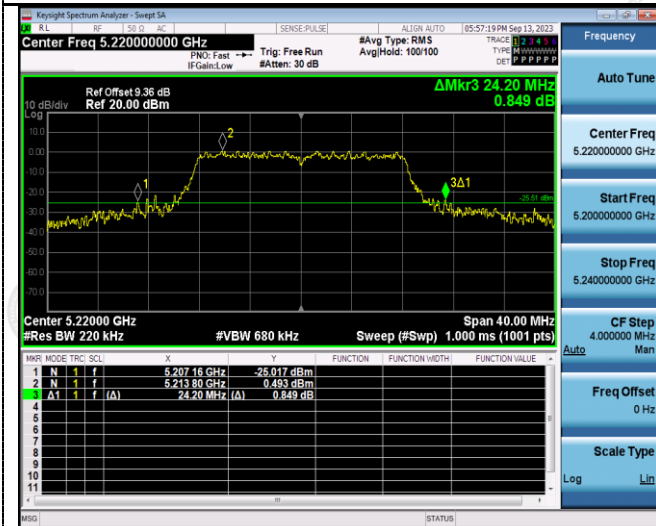
802.11a



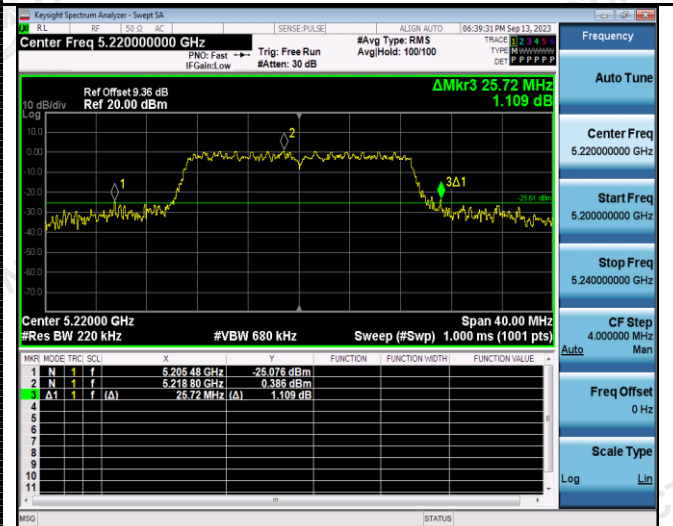
802.11n(HT20)



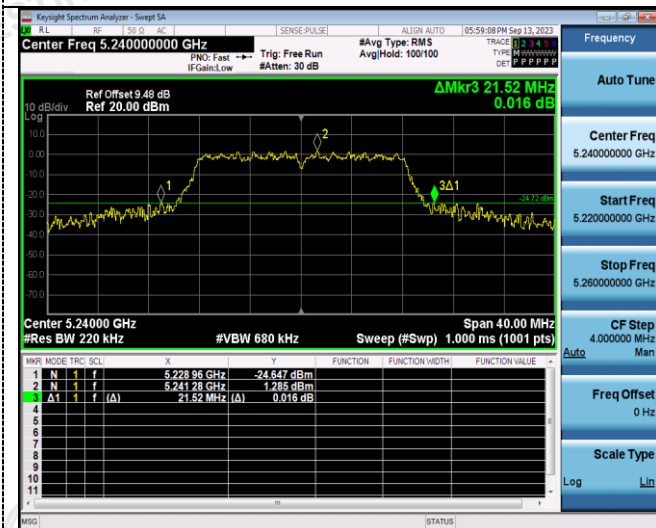
CH36



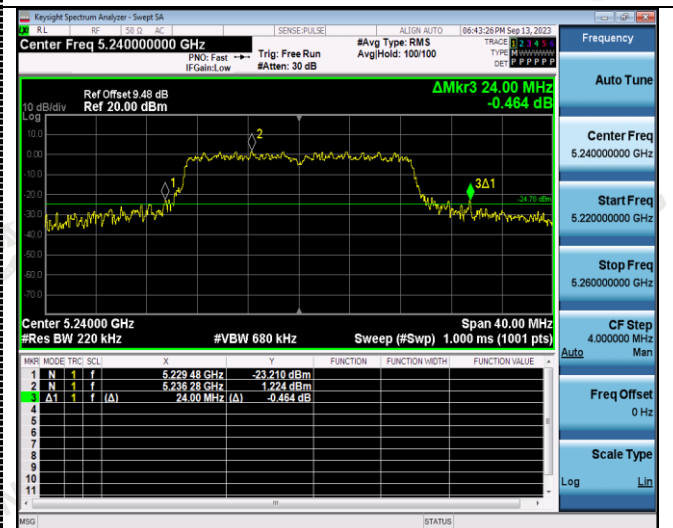
CH36



CH40



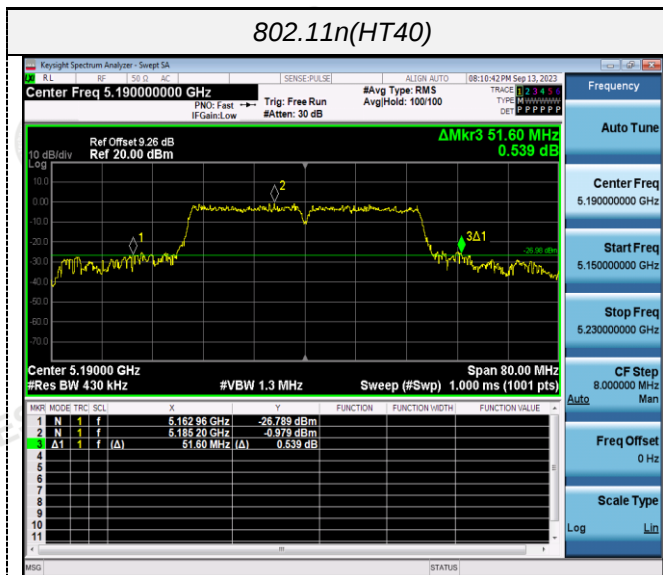
CH40



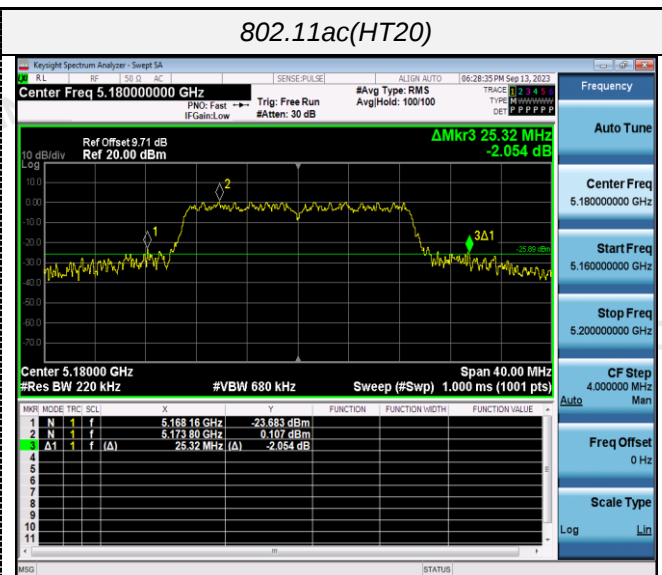
CH48

CH48

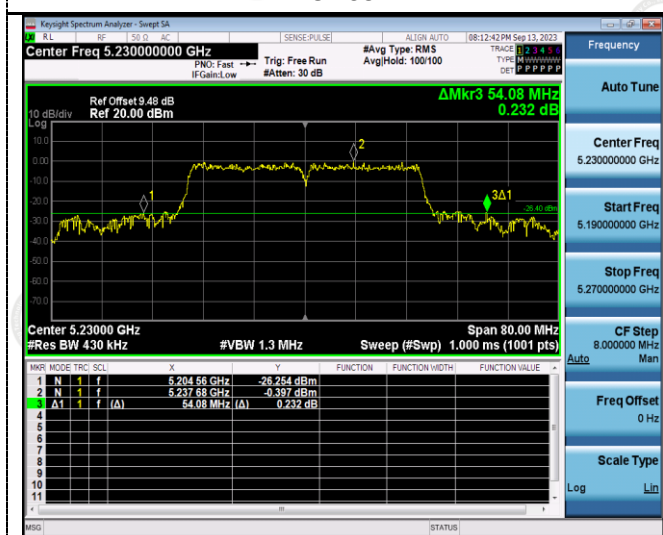
802.11n(HT40)



802.11ac(HT20)

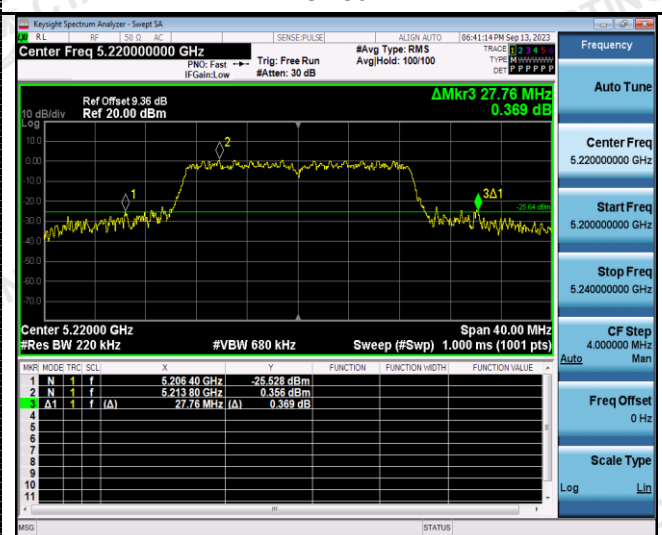


CH38

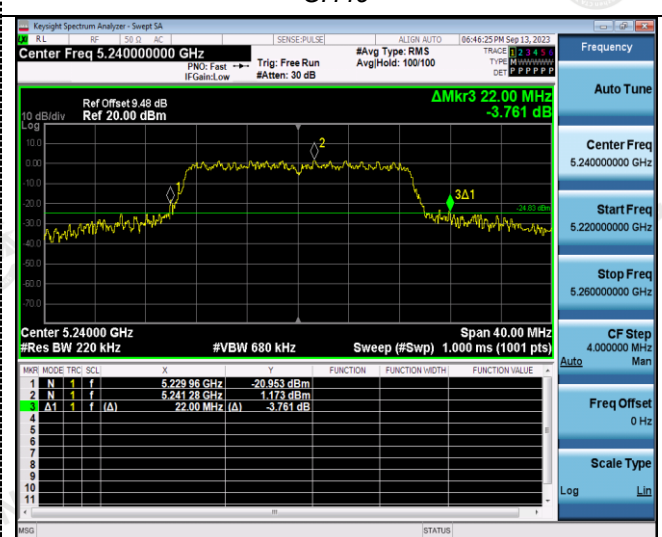


CH46

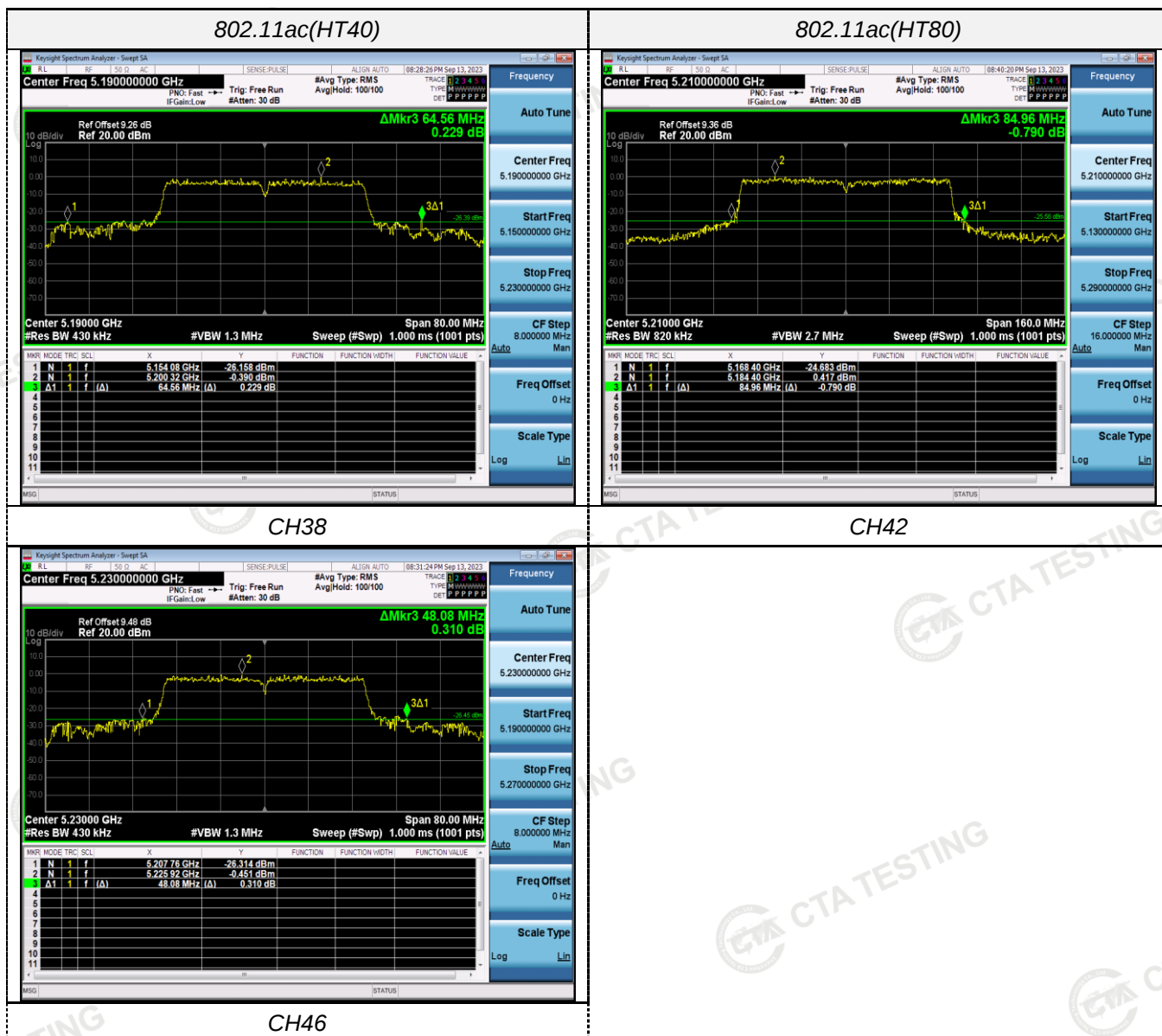
CH36



CH40



CH48



ANT 2

802.11a



802.11n(HT20)



CH36



CH36



CH40



CH40



CH48



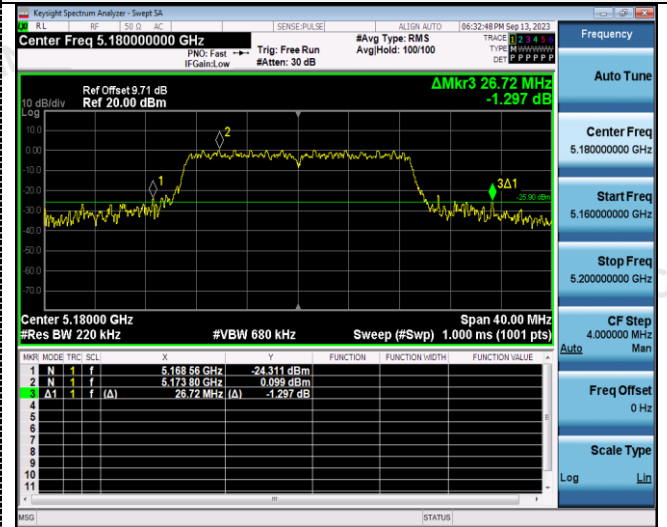
CH48



802.11n(HT40)



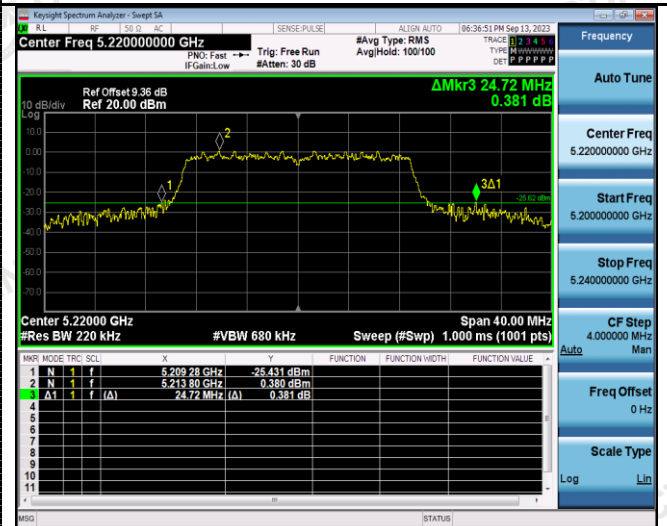
802.11ac(HT20)



CH38



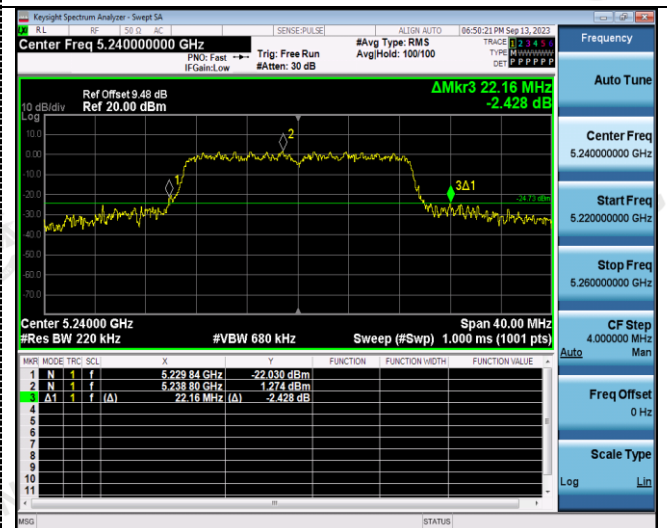
CH36



CH46

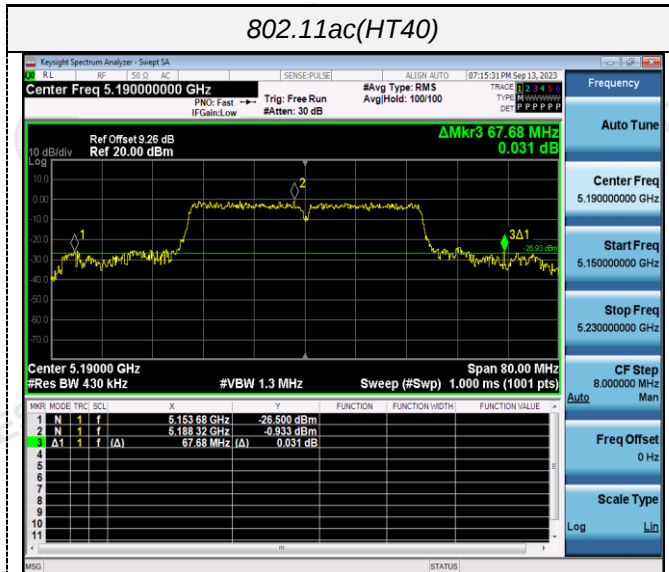


CH40



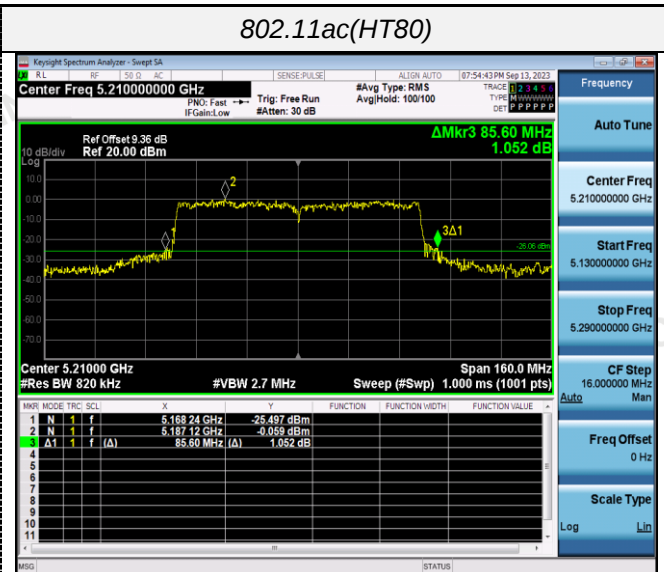
CH48

802.11ac(HT40)

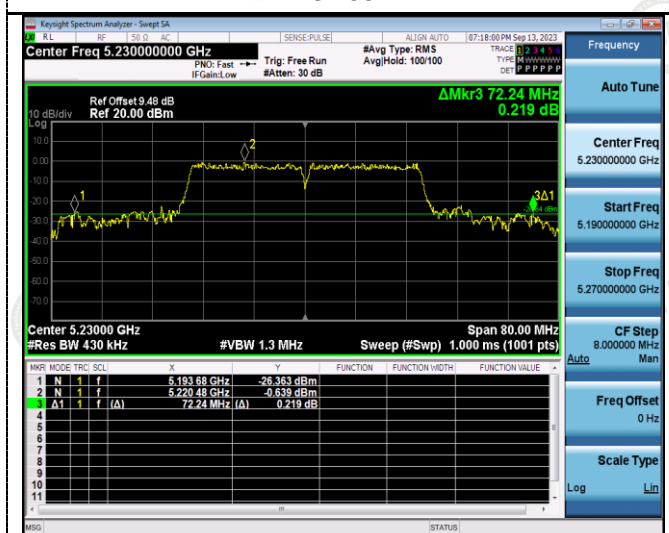


CH38

802.11ac(HT80)



CH42



CH46

4.6 Minimum Emission Bandwidth (6dB Bandwidth)

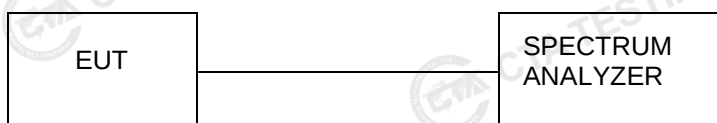
Limit

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	16.360	≥500KHz	Pass
		157	16.320		
		165	16.360		
802.11n(HT20)	U-NII 3	149	17.520		
		157	17.520		
		165	17.480		
802.11n(HT40)	U-NII 3	151	35.840		
		159	36.160		
802.11ac(HT20)	U-NII 3	149	17.560		
		157	17.560		
		165	17.400		
802.11ac(HT40)	U-NII 3	151	36.160		
		159	35.920		
802.11ac(HT80)	U-NII 3	155	75.680		