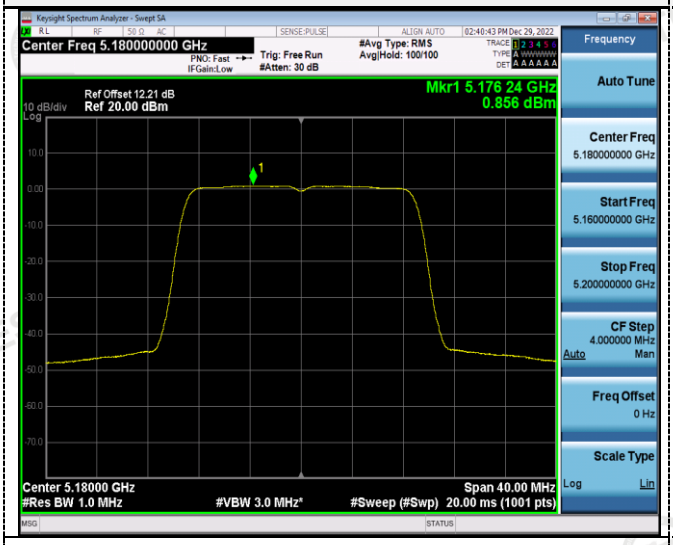
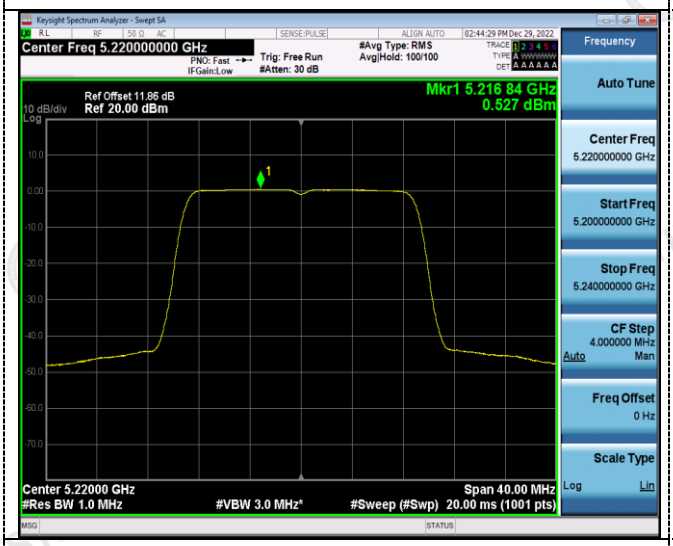
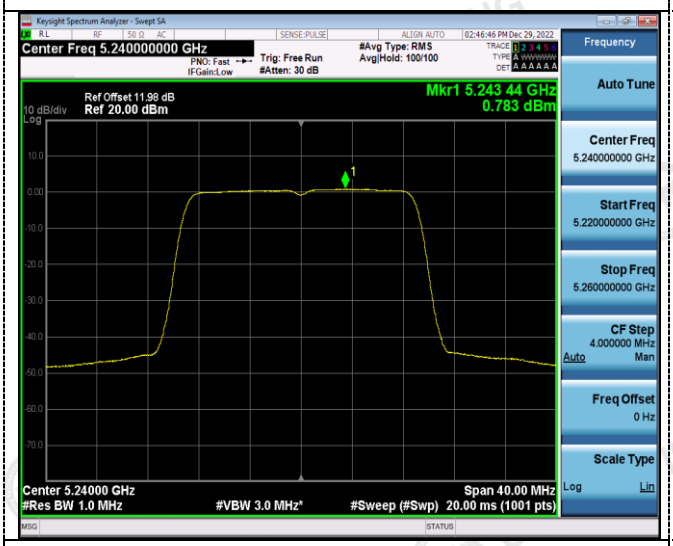
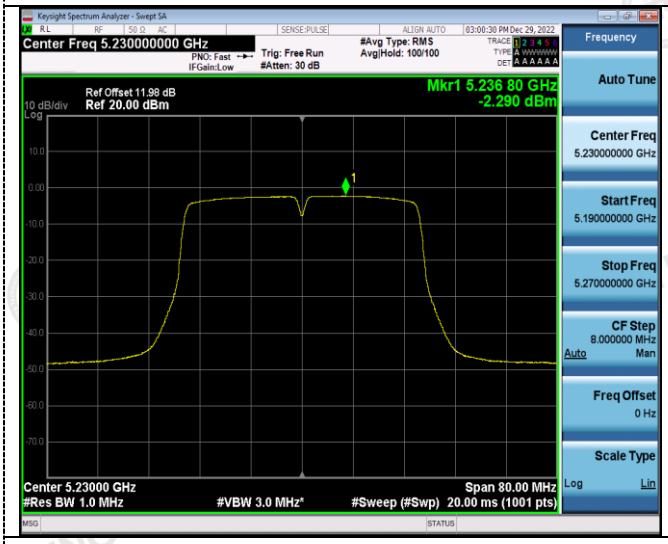
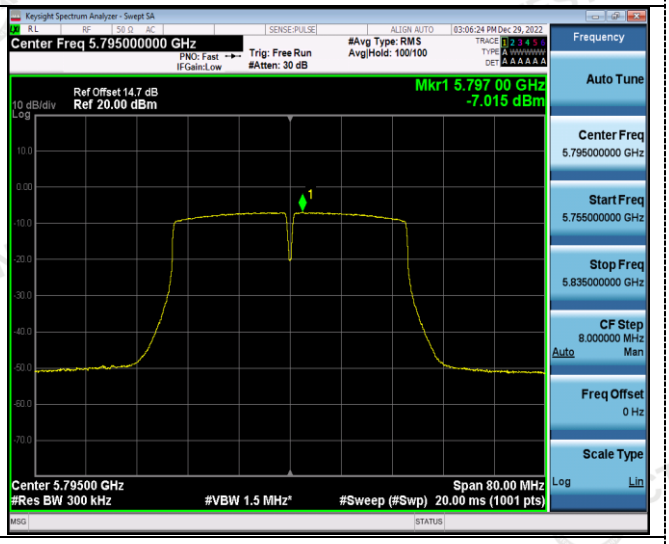
802.11n(HT40)	
U-NII 1	U-NII 3
	
CH38	CH151
	
CH46	CH159

802.11ac(HT20)	
U-NII 1	U-NII 3
	
CH36	CH149
	
CH44	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)

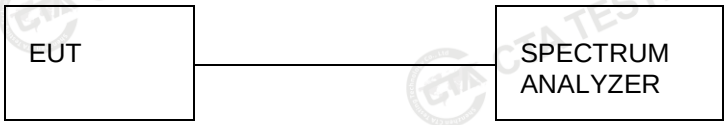
Limit

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

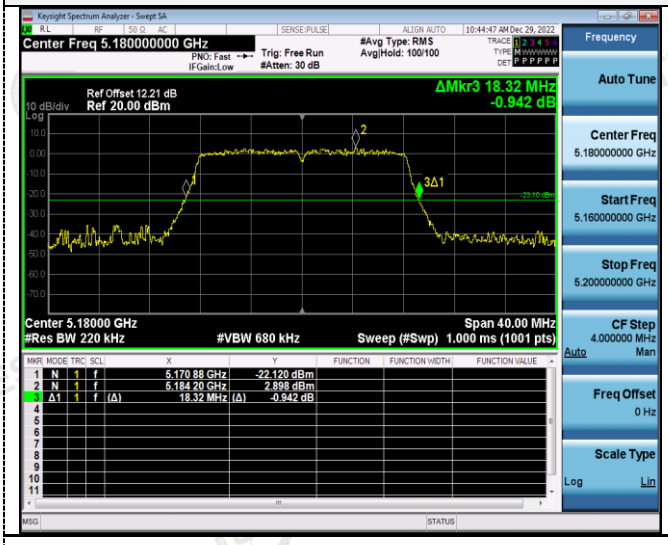
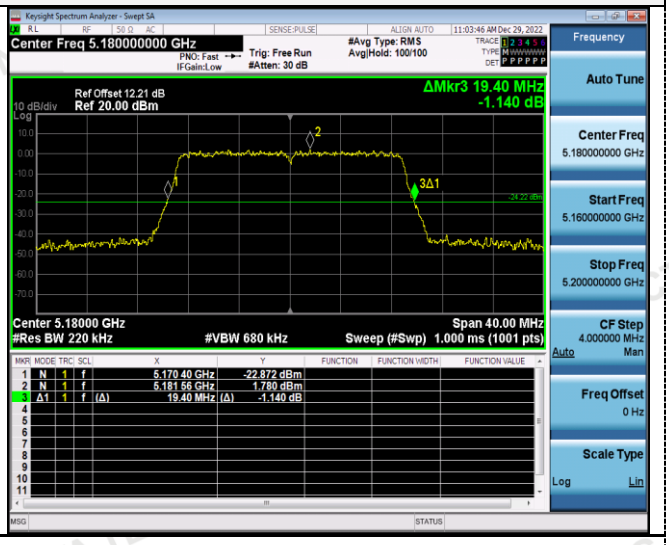
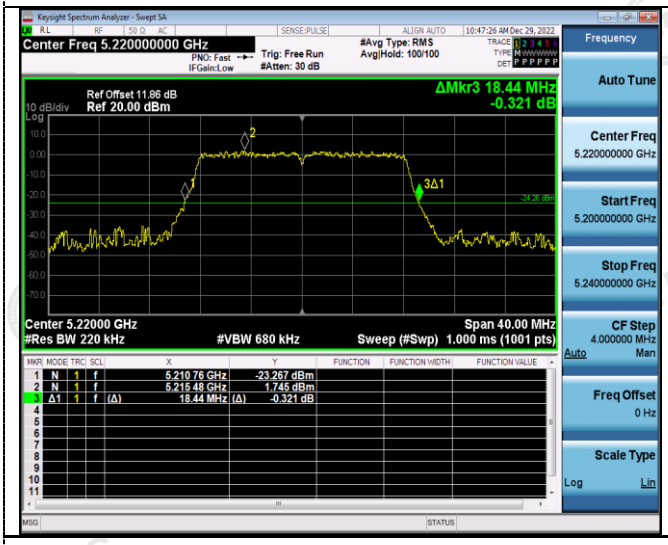
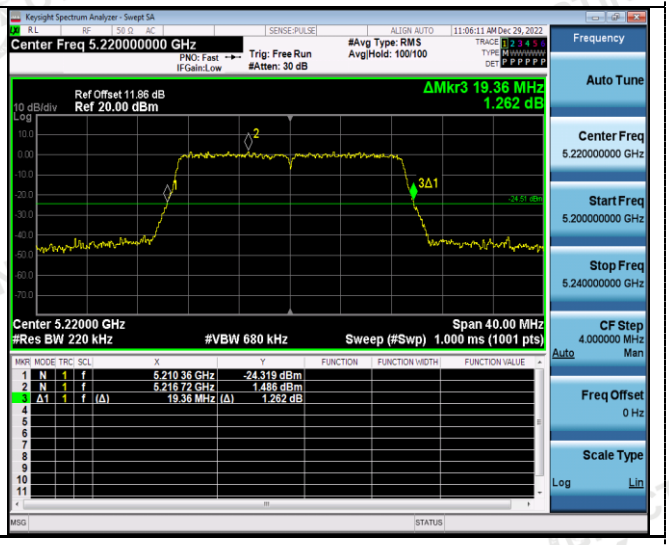
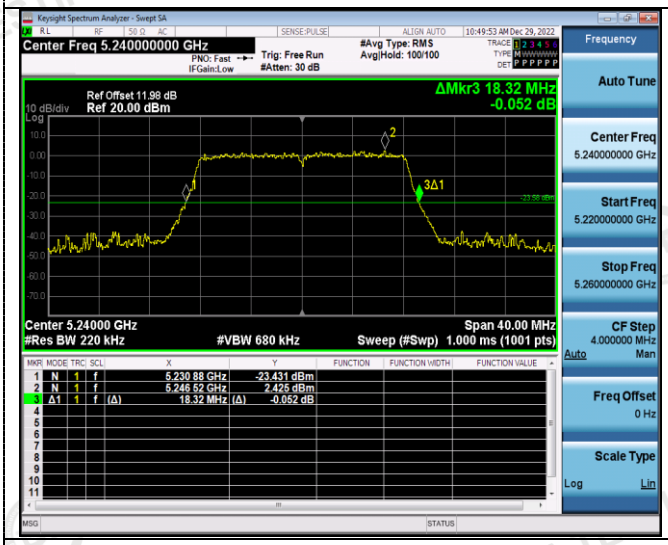
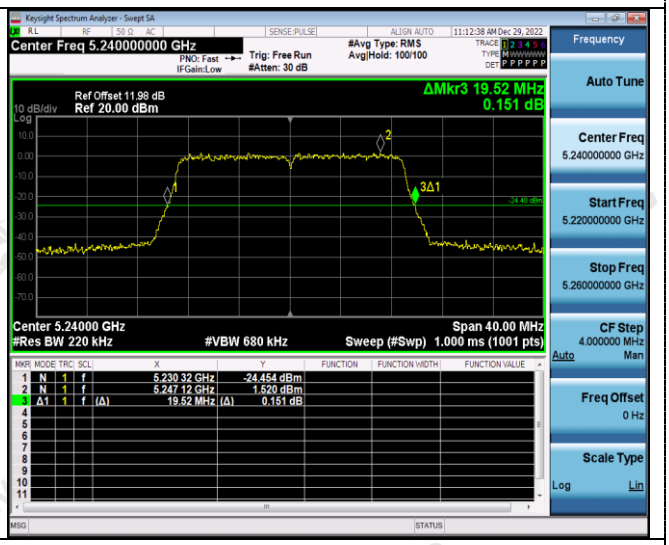
Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	18.320	N/A	Pass
		44	18.440		
		48	18.320		
802.11n(HT20)	U-NII 1	36	19.400		
		44	19.360		
		48	19.520		
802.11n(HT40)	U-NII 1	38	41.040		
		46	41.360		
802.11ac(HT20)	U-NII 1	36	19.400		
		44	19.480		
		48	19.400		
802.11ac(HT40)	U-NII 1	38	41.120		
		46	41.120		
802.11ac(HT80)	U-NII 1	42	80.480		

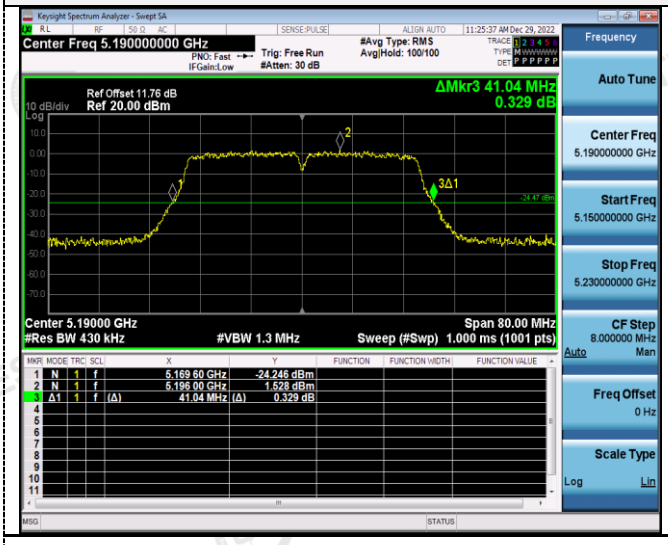
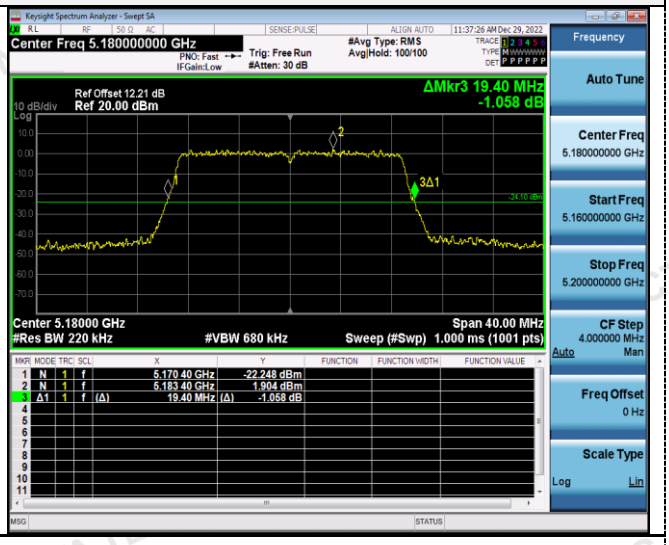
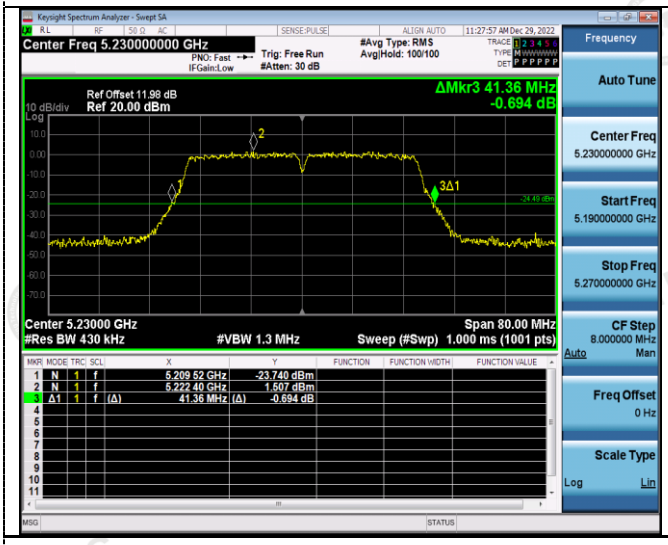
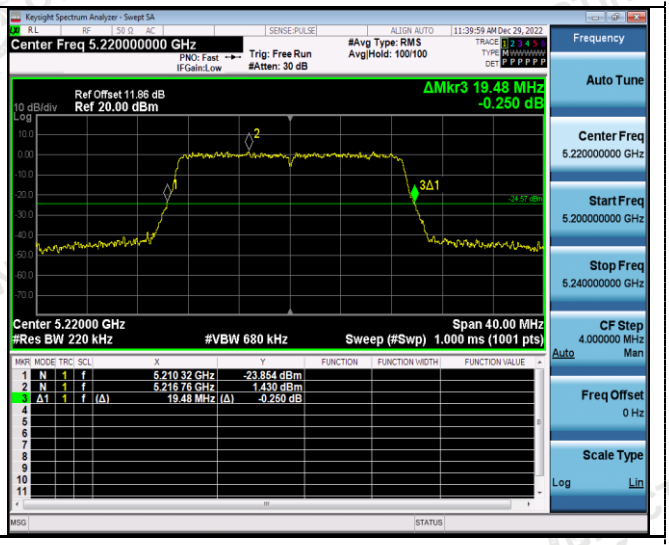
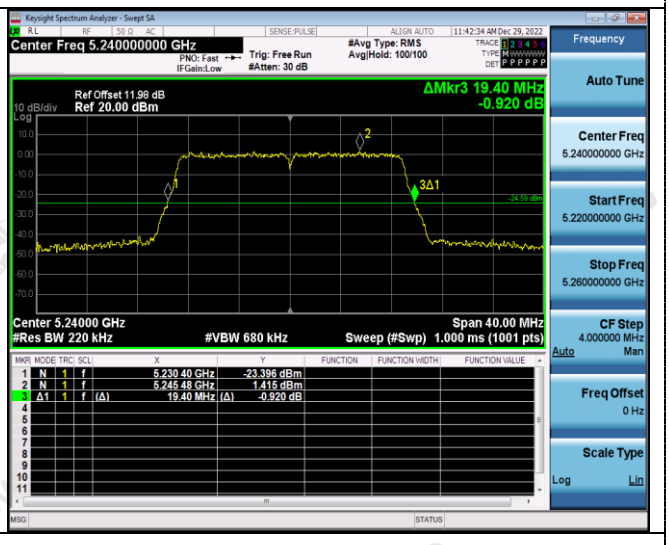
ANT 2

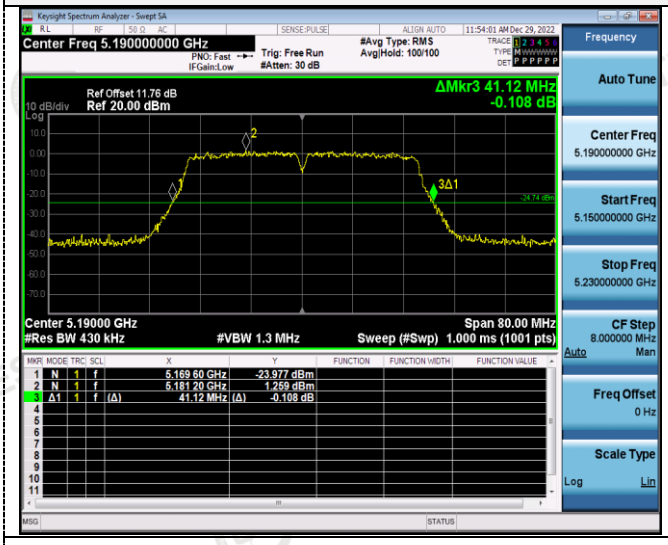
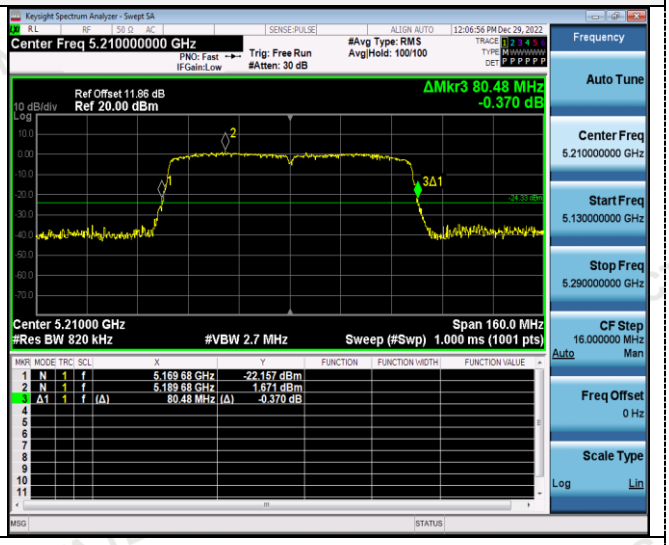
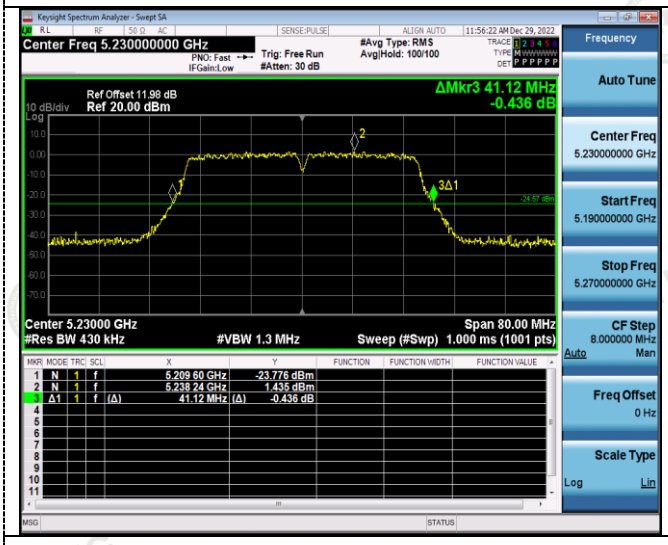
Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	18.480	N/A	Pass
		44	18.240		
		48	18.400		
802.11n(HT20)	U-NII 1	36	19.480		
		44	19.440		
		48	19.400		
802.11n(HT40)	U-NII 1	38	41.280		
		46	41.280		
802.11ac(HT20)	U-NII 1	36	19.480		
		44	19.400		
		48	19.400		
802.11ac(HT40)	U-NII 1	38	41.040		
		46	41.120		
802.11ac(HT80)	U-NII 1	42	80.800		

Test plot as follows:

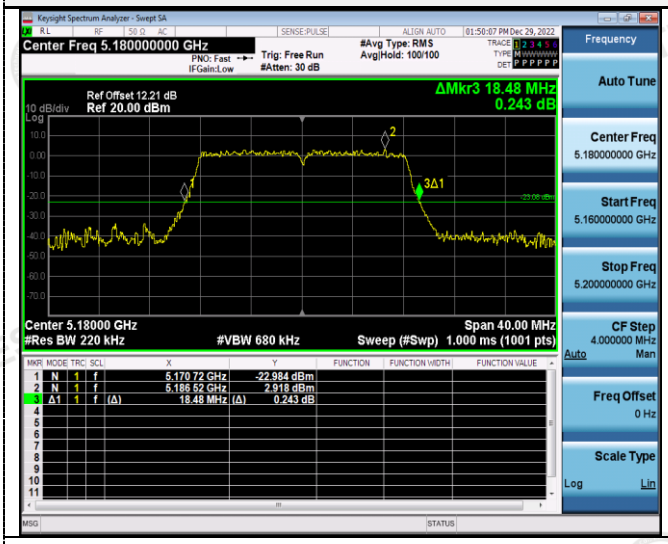
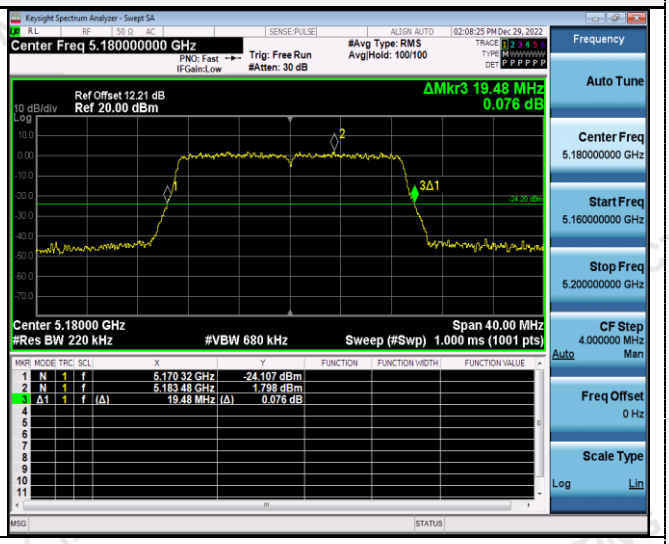
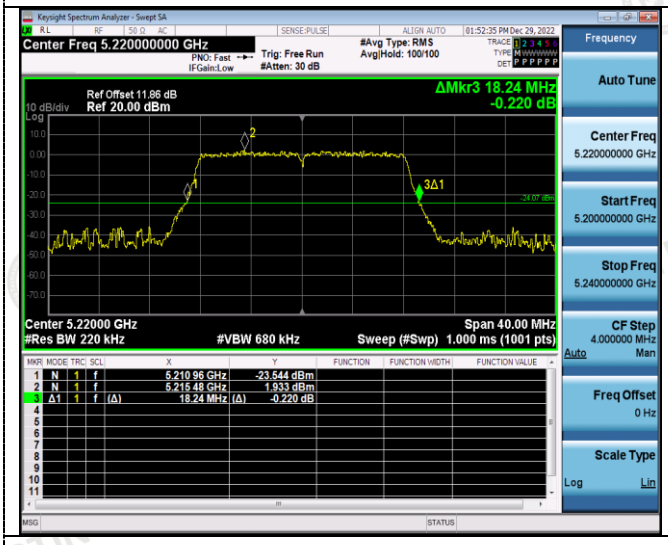
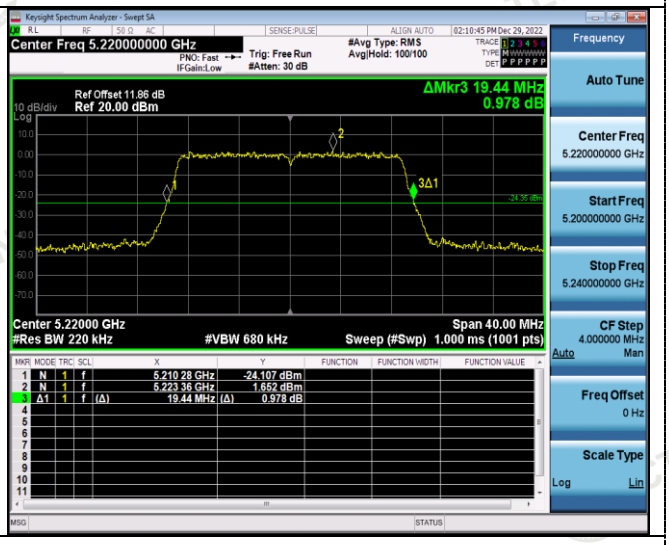
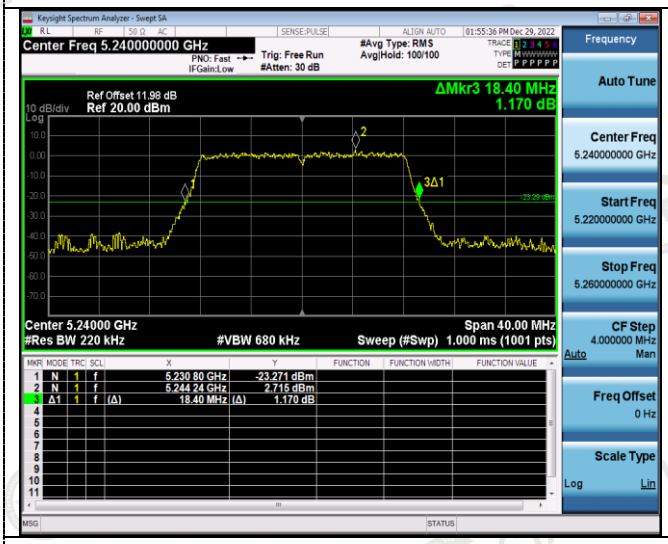
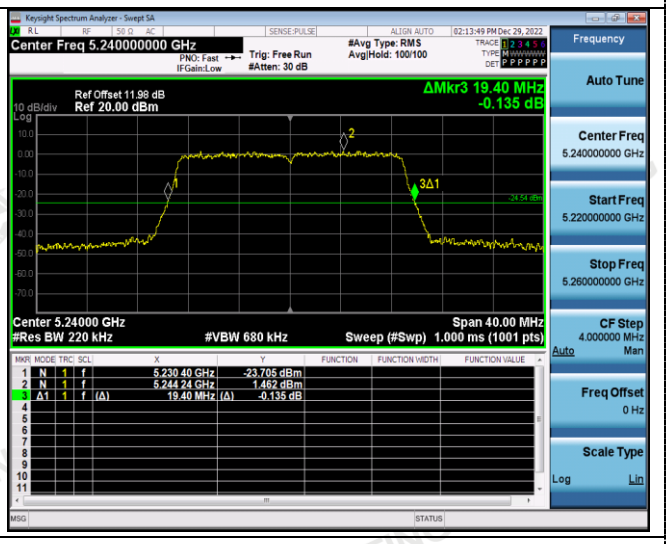
ANT 1

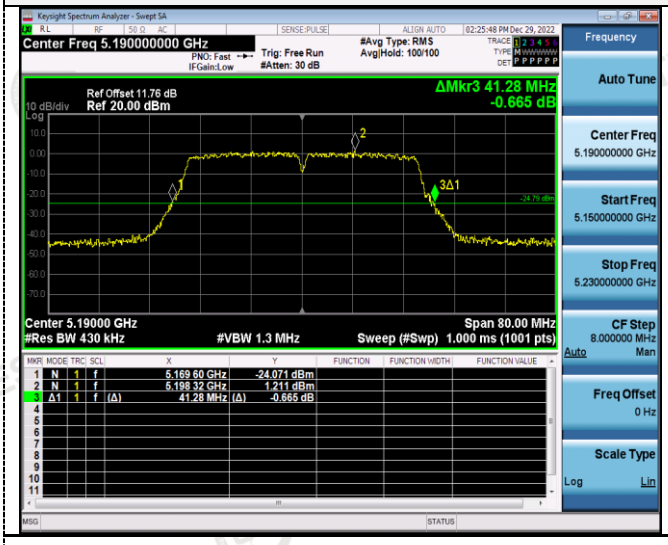
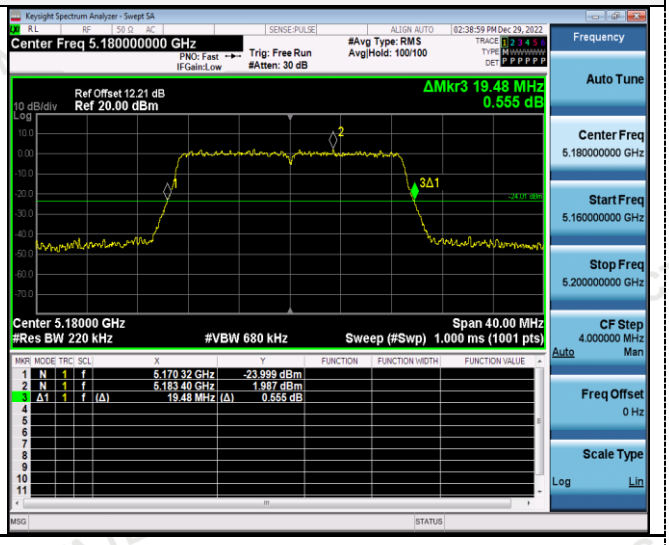
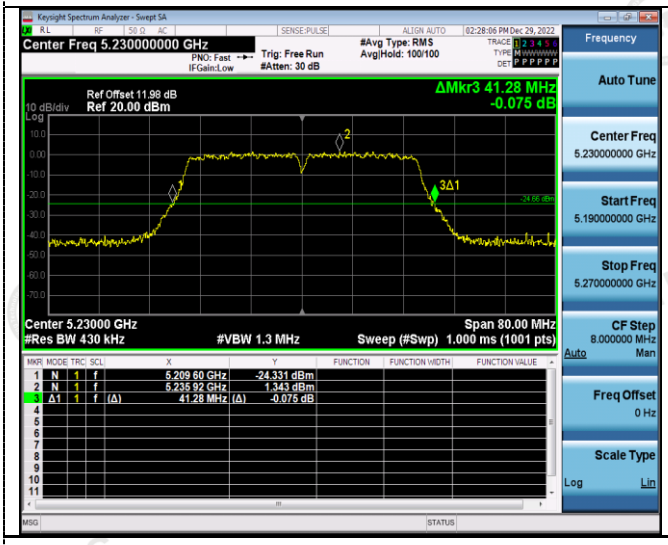
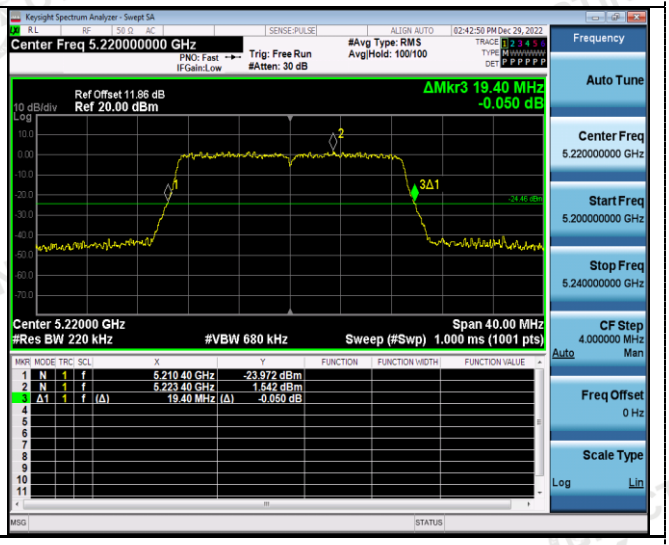
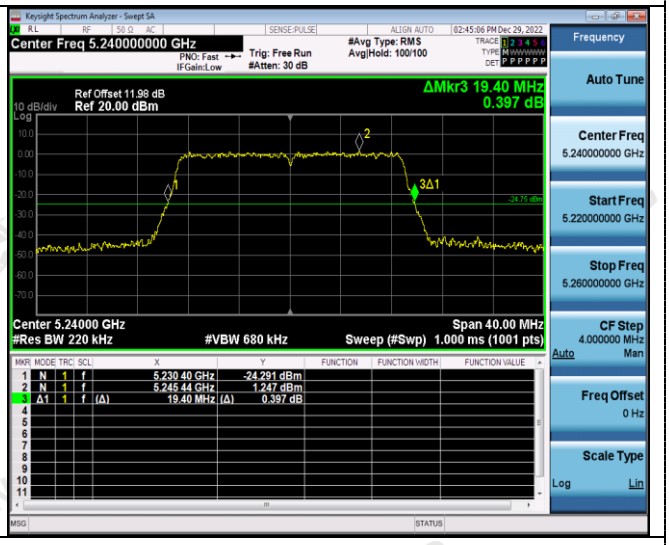
802.11a	802.11n(HT20)
	
CH36	CH36
	
CH44	CH44
	
CH48	CH48

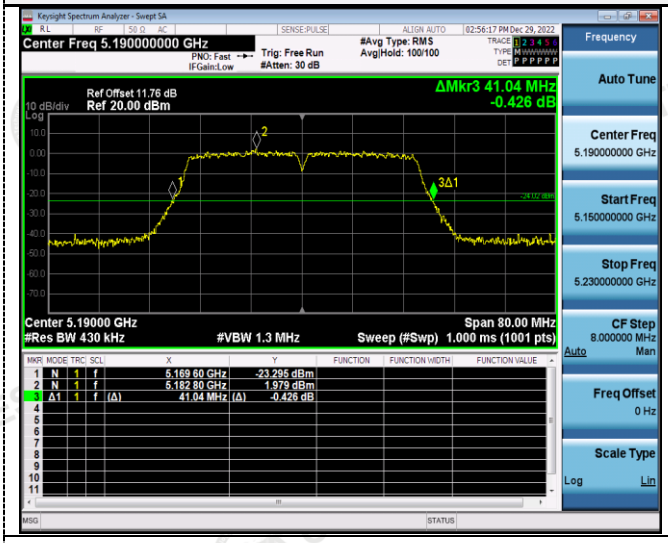
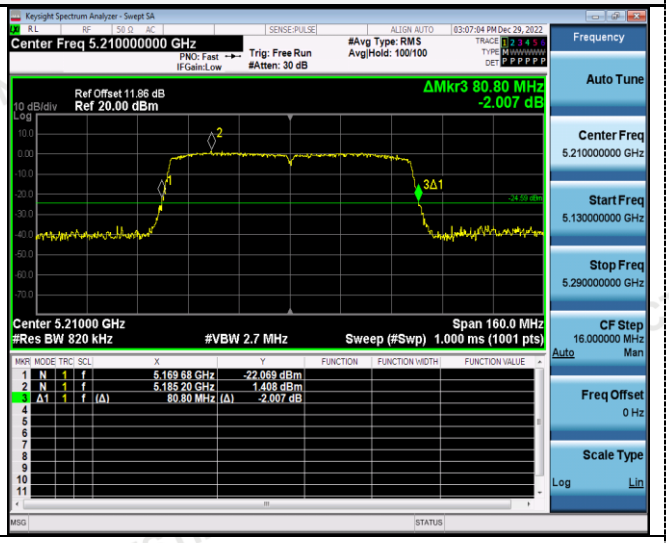
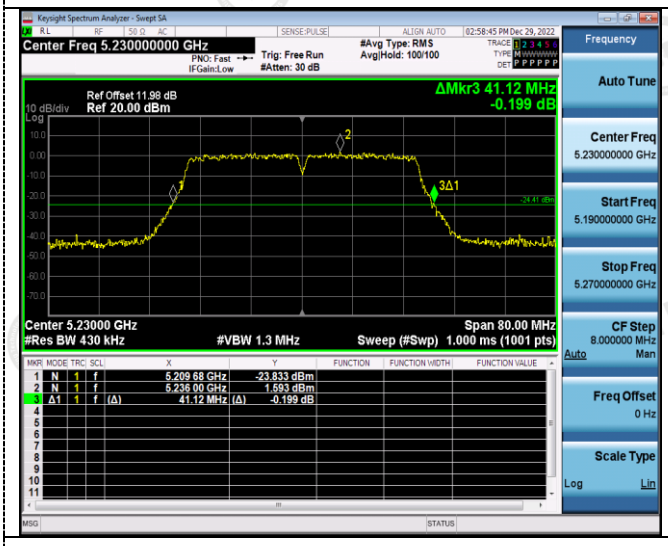
802.11n(HT40)	802.11ac(HT20)
	
CH38	CH36
	
CH46	CH44
	
	CH48

802.11ac(HT40)	802.11ac(HT80)
	
CH38	CH42
	/
CH46	/

ANT 2

802.11a	802.11n(HT20)
	
CH36	CH36
	
CH44	CH44
	
CH48	CH48

802.11n(HT40)	802.11ac(HT20)
	
CH38	CH36
	
CH46	CH44
	
	CH48

802.11ac(HT40)	802.11ac(HT80)
	
CH38	CH42
	/
CH46	/

4.6 Minimum Emission Bandwidth (6dB Bandwidth)

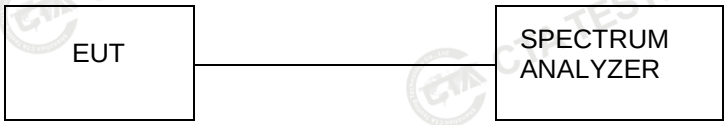
Limit

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	16.480	≥500KHz	Pass
		157	16.520		
		165	16.520		
802.11n(HT20)	U-NII 3	149	17.640		
		157	17.680		
		165	17.680		
802.11n(HT40)	U-NII 3	151	36.400		
		159	36.400		
802.11ac(HT20)	U-NII 3	149	17.720		
		157	17.680		
		165	17.680		
802.11ac(HT40)	U-NII 3	151	36.400		
		159	36.400		
802.11ac(HT80)	U-NII 3	155	76.000		

ANT 2

	Bands	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	U-NII 3	149	16.480	≥500KHz	Pass
		157	16.480		
		165	16.480		
802.11n(HT20)	U-NII 3	149	17.720		
		157	17.720		
		165	17.680		
802.11n(HT40)	U-NII 3	151	36.400		
		159	36.400		
802.11ac(HT20)	U-NII 3	149	17.720		
		157	17.640		
		165	17.720		
802.11ac(HT40)	U-NII 3	151	36.400		
		159	36.400		
802.11ac(HT80)	U-NII 3	155	76.000		

Test plot as follows: