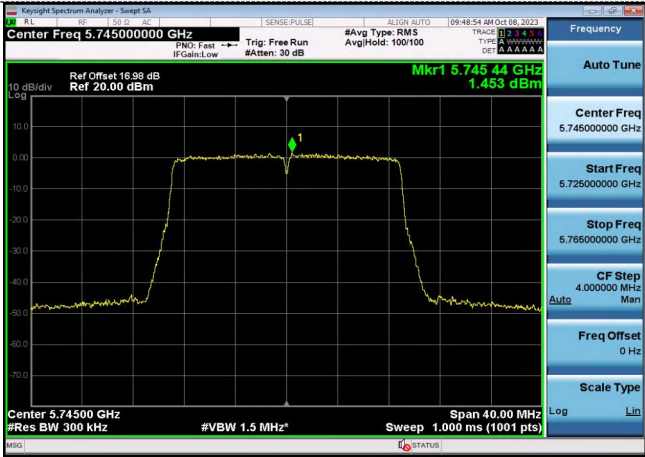


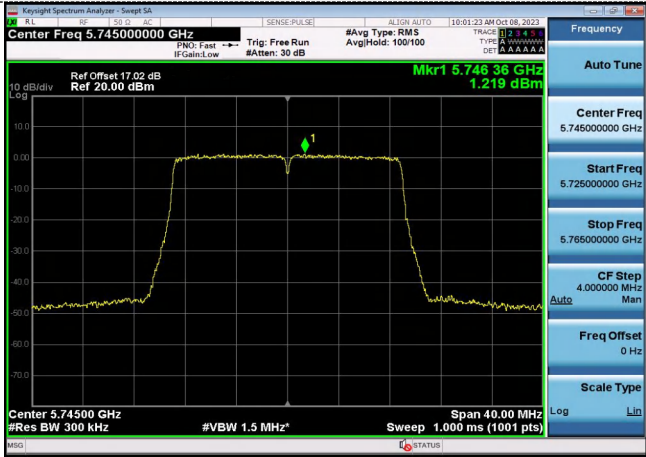
802.11a

U-NII 3

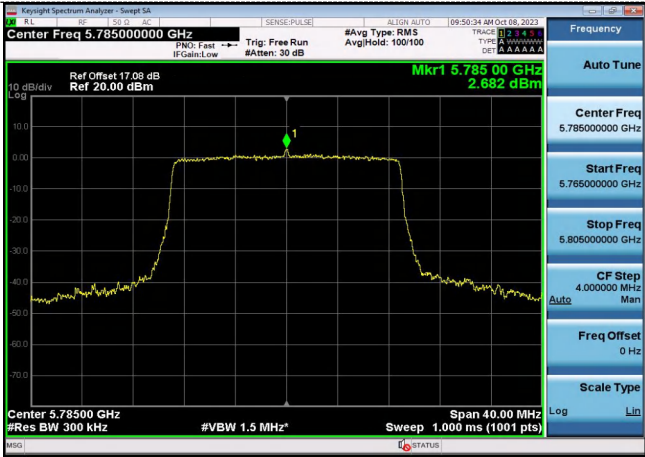


802.11n(HT20)

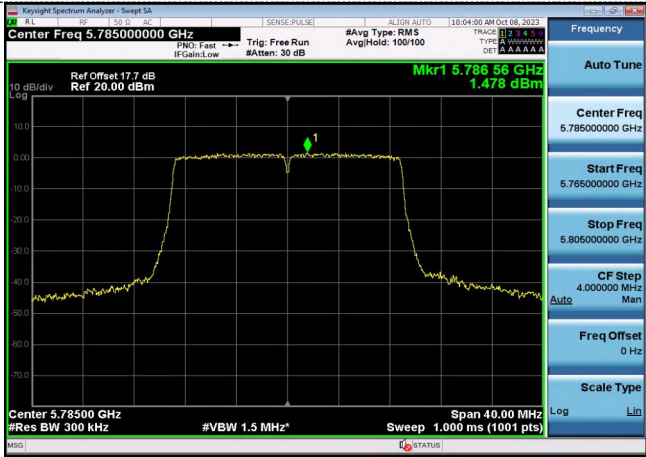
U-NII 3



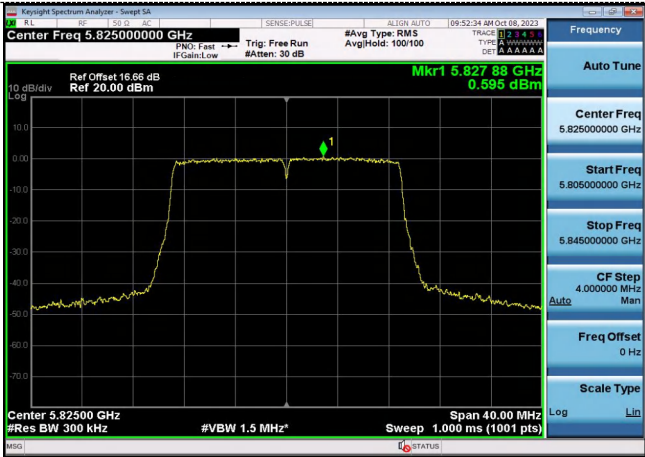
CH149



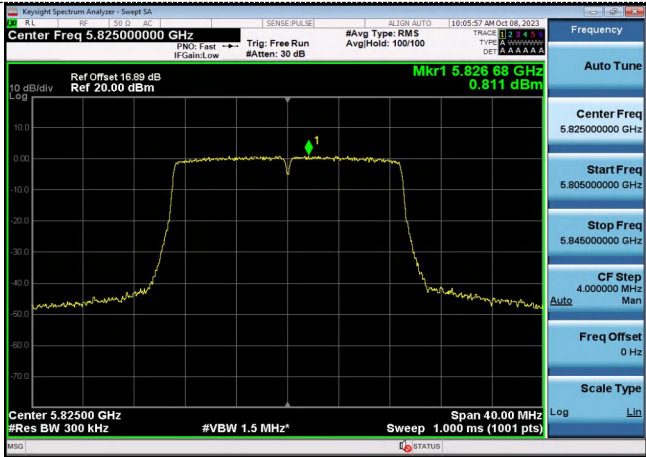
CH149



CH157



CH157

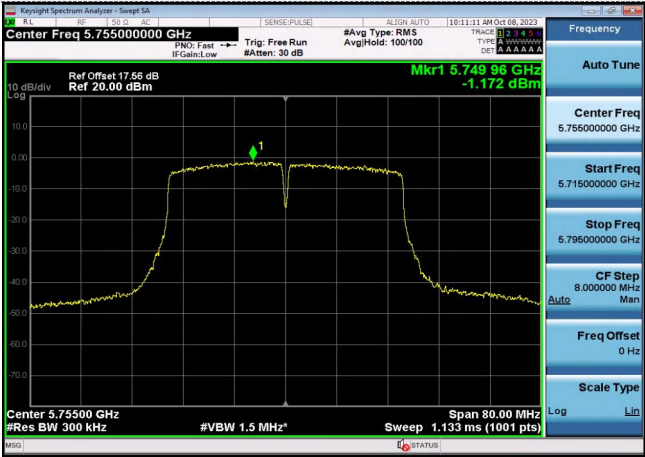


CH165

CH165

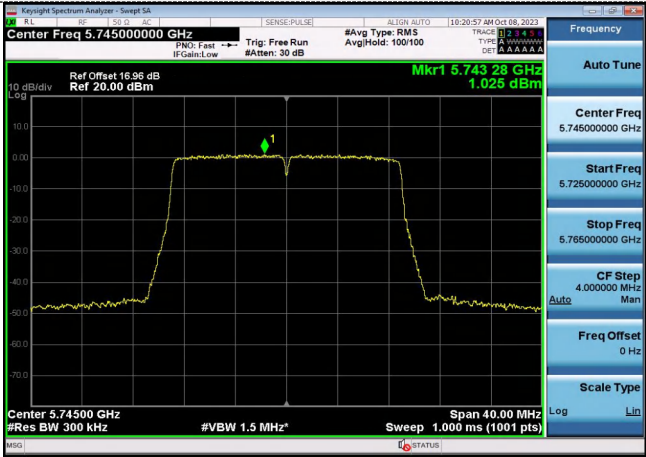
802.11n(HT40)

U-NII 3

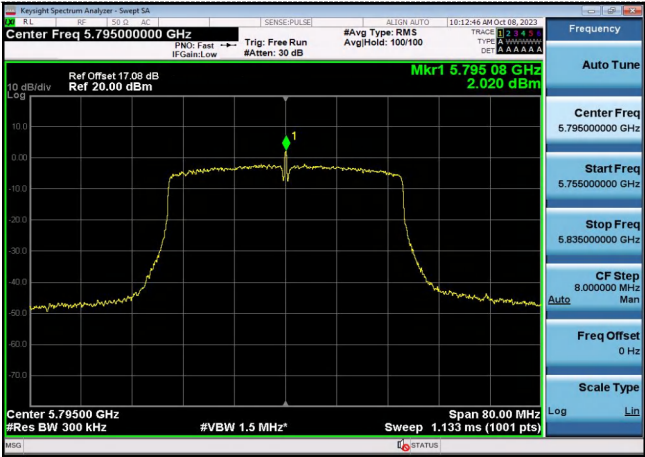


802.11ac(VHT20)

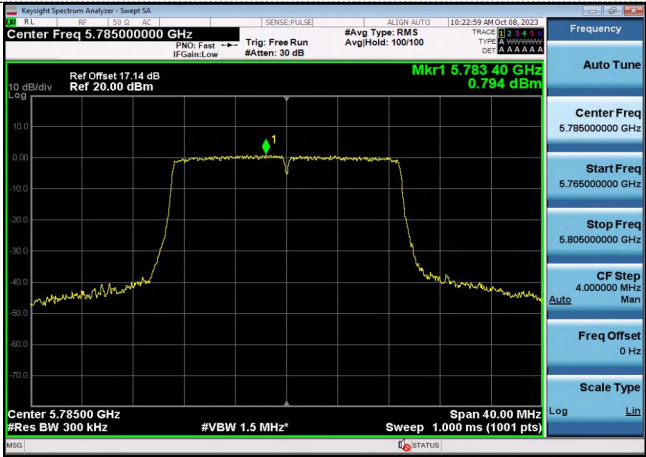
U-NII 3



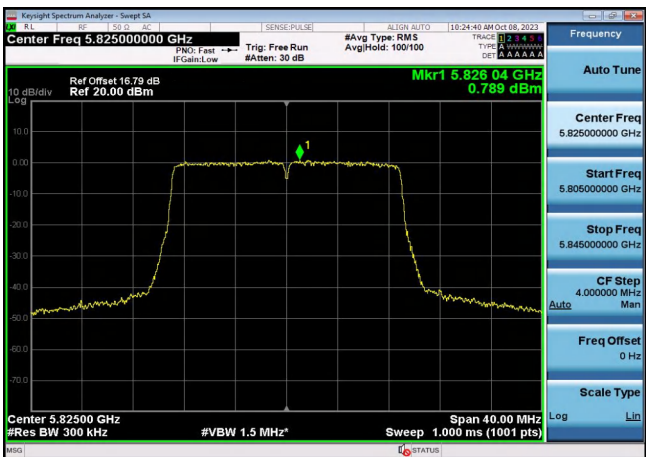
CH151



CH149



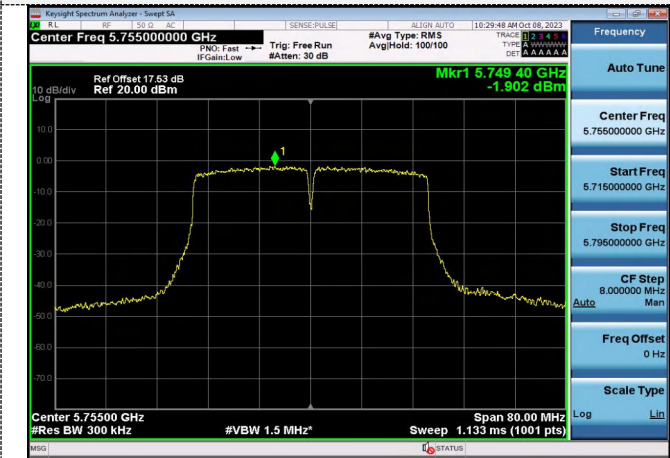
CH159



CH165

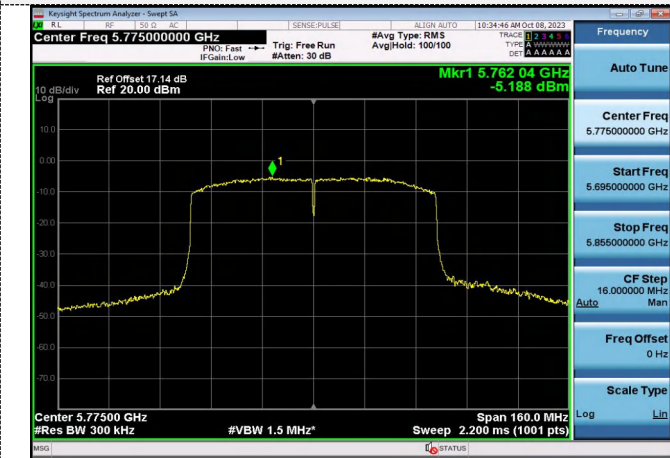
802.11ac(VHT40)

U-NII 3

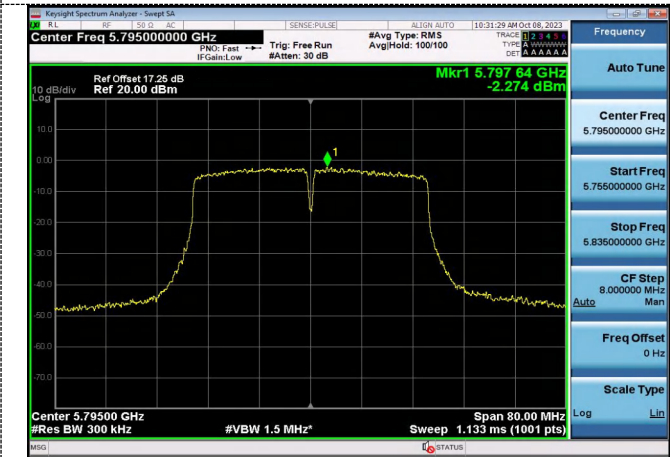


802.11ac(VHT80)

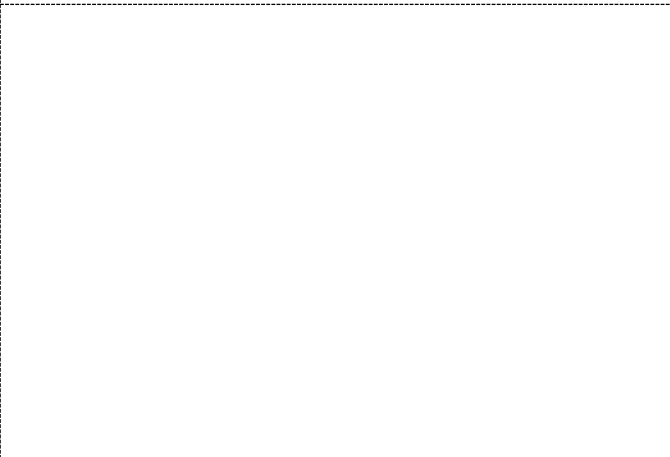
U-NII 3



CH151



CH155



CH159



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	18.98	N/A	Pass
		40	19.01		
		48	19.02		
802.11n(HT20)	U-NII 1	36	19.79		
		40	79.88		
		48	79.78		
802.11n(HT40)	U-NII 1	38	41.49		
		46	41.97		
802.11ac(VHT20)	U-NII 1	36	19.87		
		40	19.85		
		48	19.94		
802.11ac(VHT40)	U-NII 1	38	42.16		
		46	42.37		
802.11ac(VHT80)	U-NII 1	42	81.89		

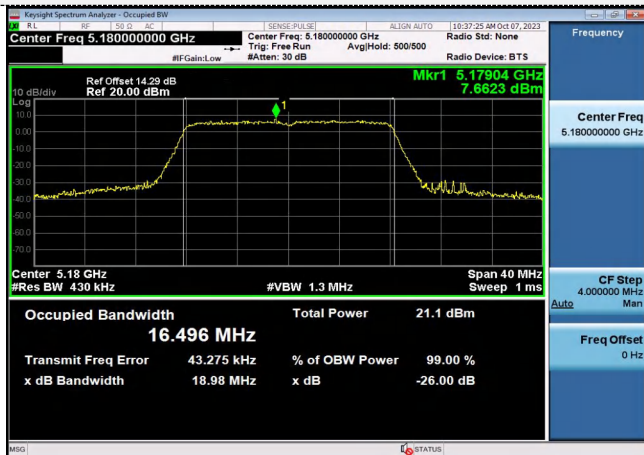
Ant 2

Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	20.06	N/A	Pass
		40	19.91		
		48	19.93		
802.11n(HT20)	U-NII 1	36	19.72		
		40	19.78		
		48	19.80		
802.11n(HT40)	U-NII 1	38	41.68		
		46	43.10		
802.11ac(VHT20)	U-NII 1	36	19.93		
		40	19.90		
		48	19.88		
802.11ac(VHT40)	U-NII 1	38	41.67		
		46	42.31		
802.11ac(VHT80)	U-NII 1	42	89.13		

Test plot as follows:

Ant 1

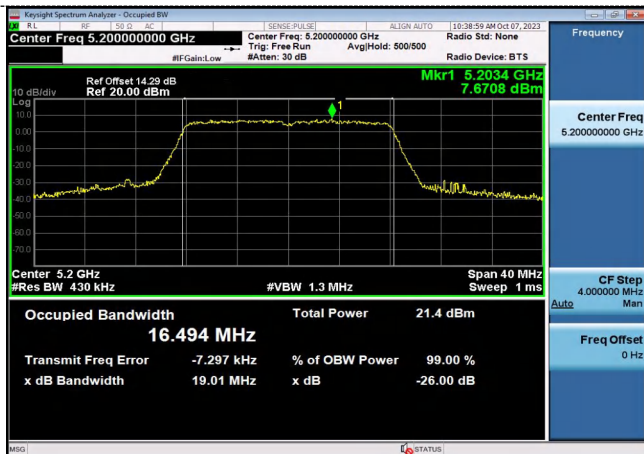
802.11a



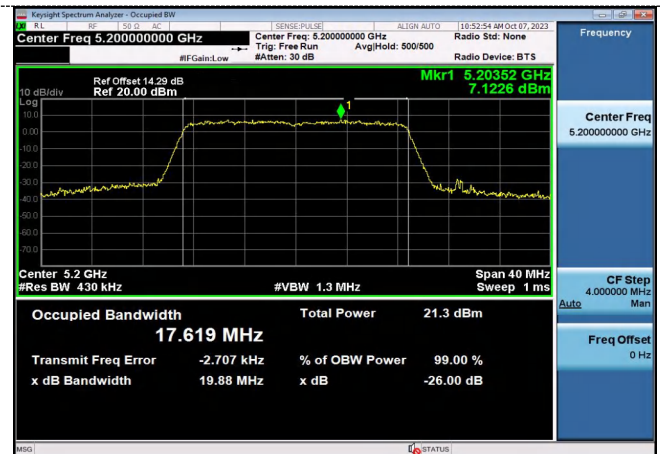
802.11n(HT20)



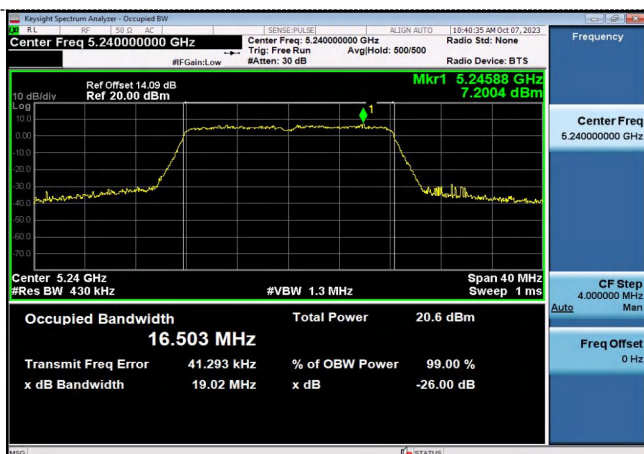
CH36



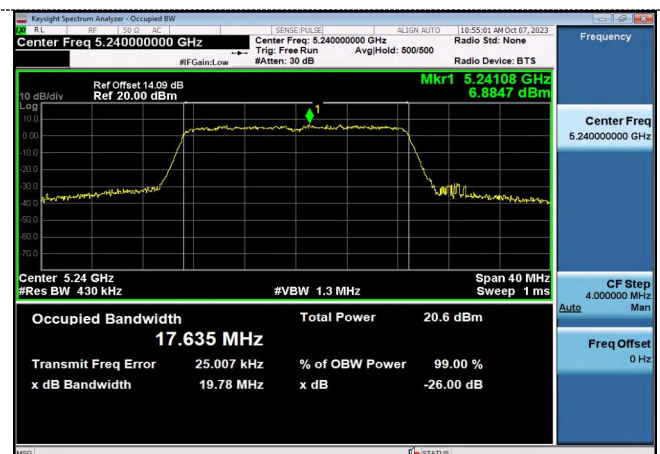
CH36



CH40



CH40



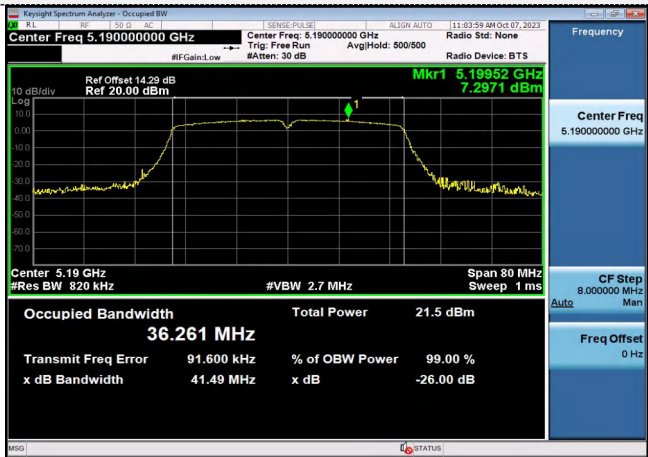
CH48



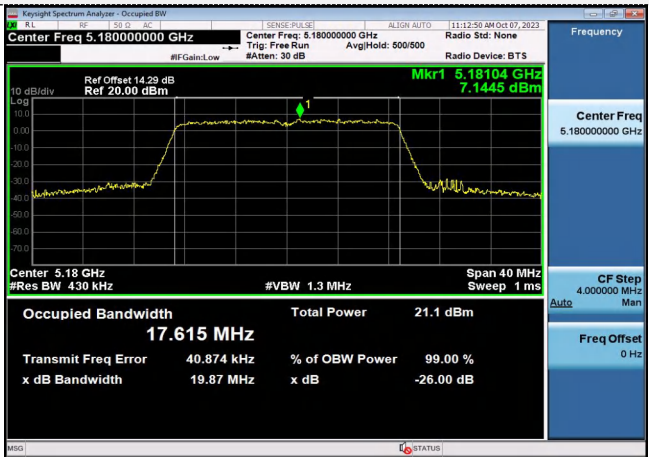
CH48



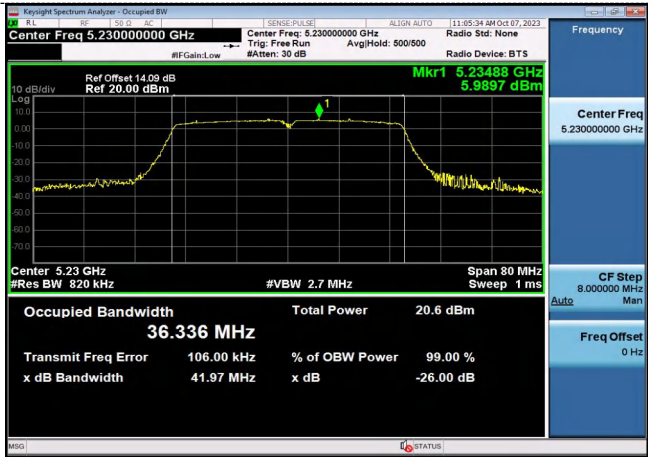
802.11n(HT40)



802.11ac(VHT20)



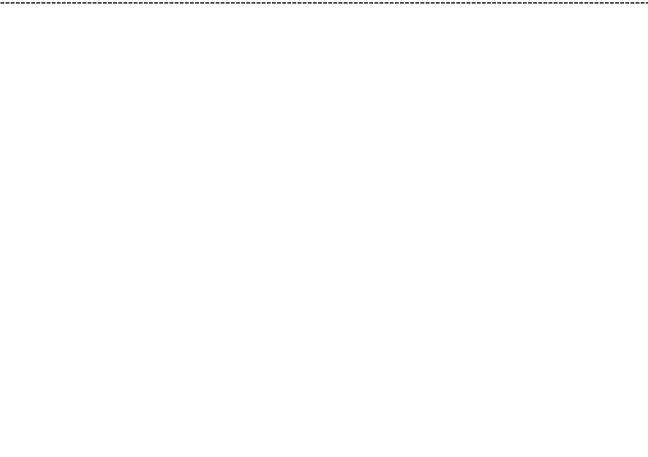
CH38



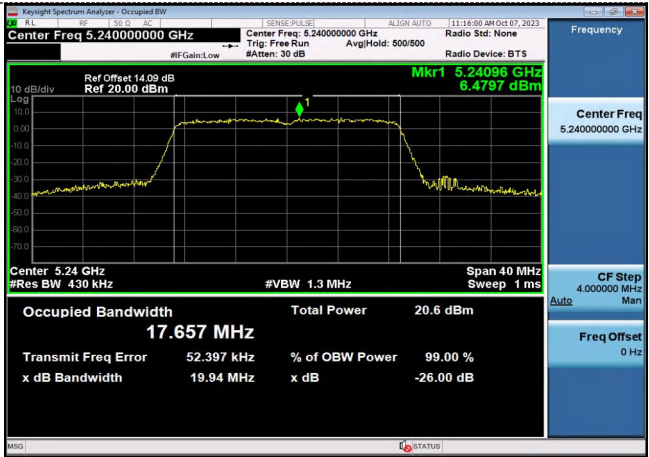
CH36



CH46

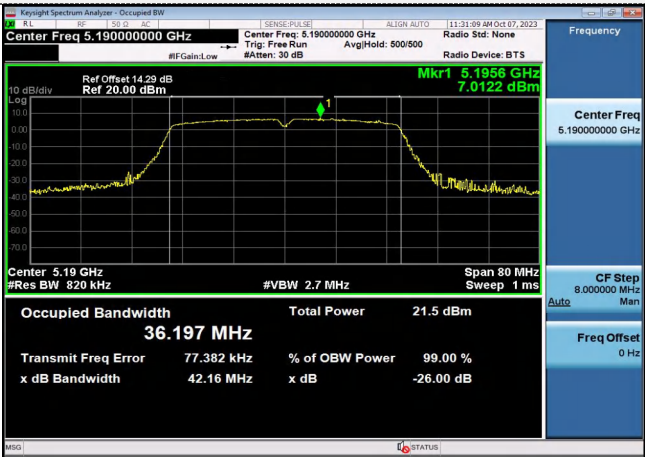


CH40

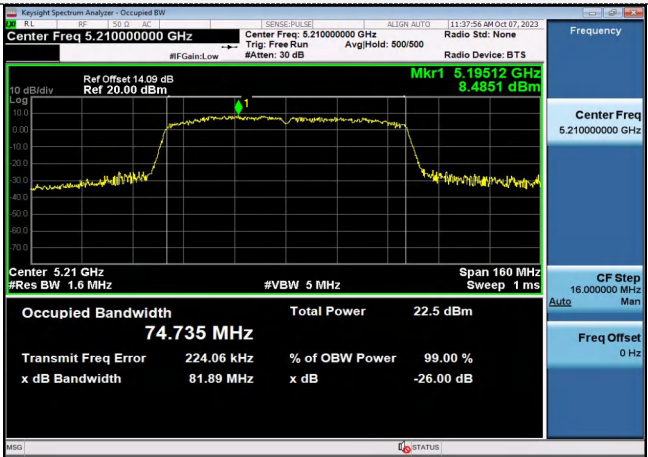


CH48

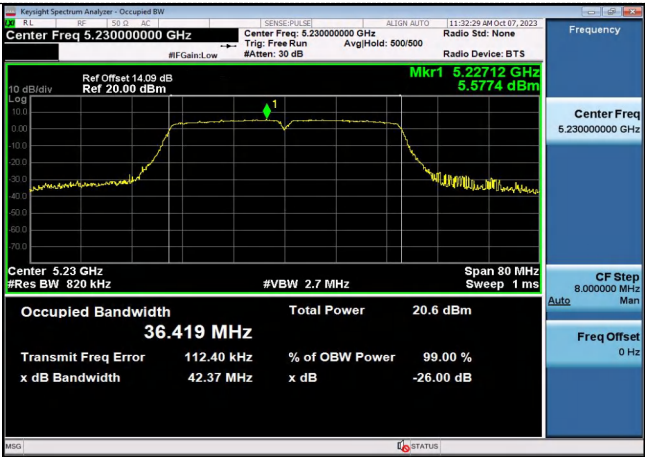
802.11ac(VHT40)



802.11ac(VHT80)



CH38



CH42

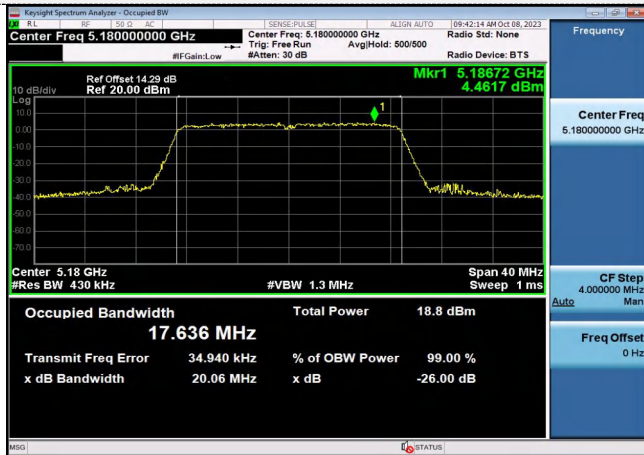


CH46

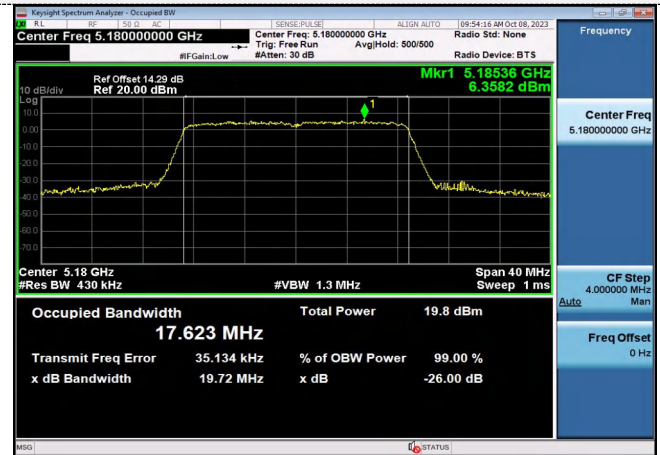


Ant 2

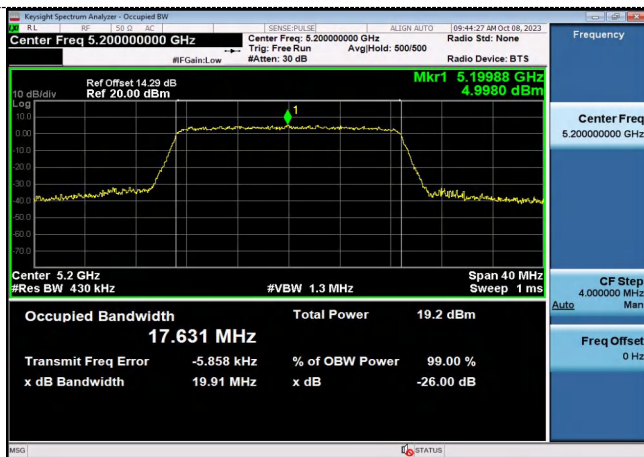
802.11a



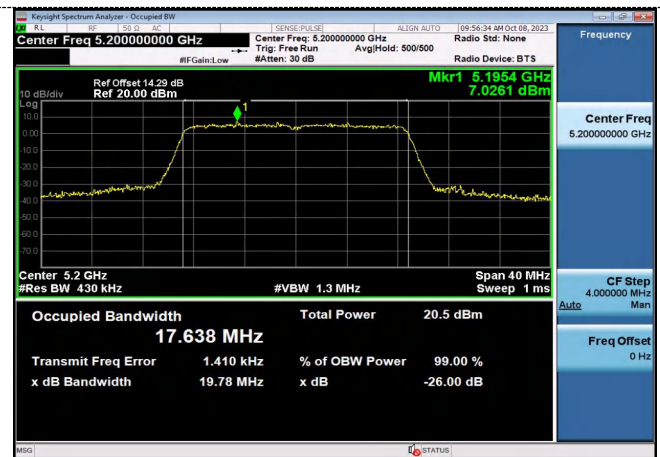
802.11n(HT20)



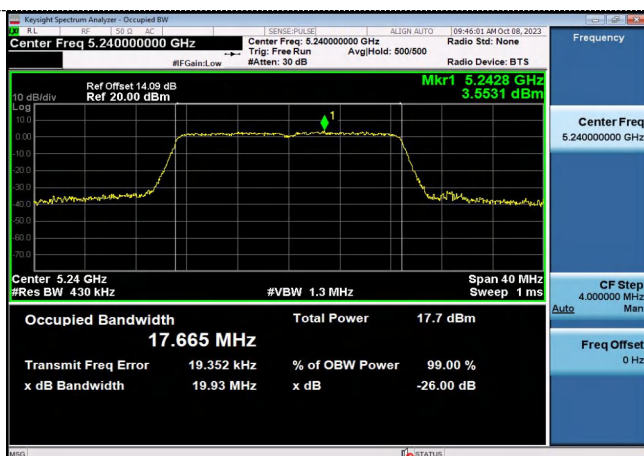
CH36



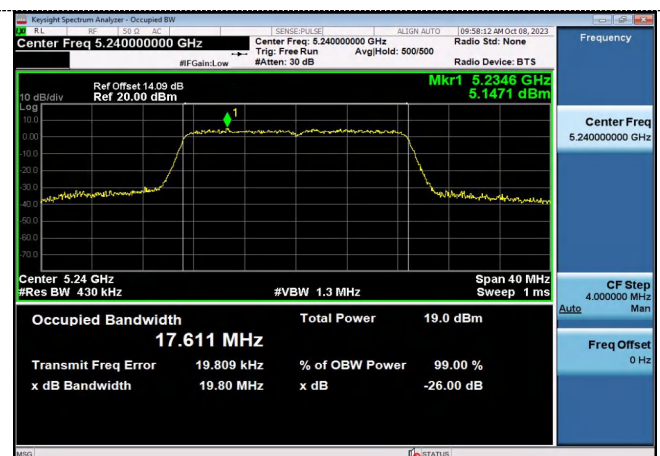
CH36



CH40



CH40



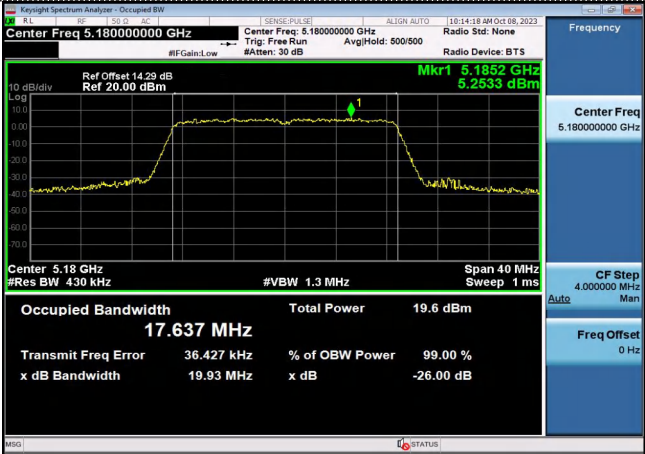
CH48

CH48

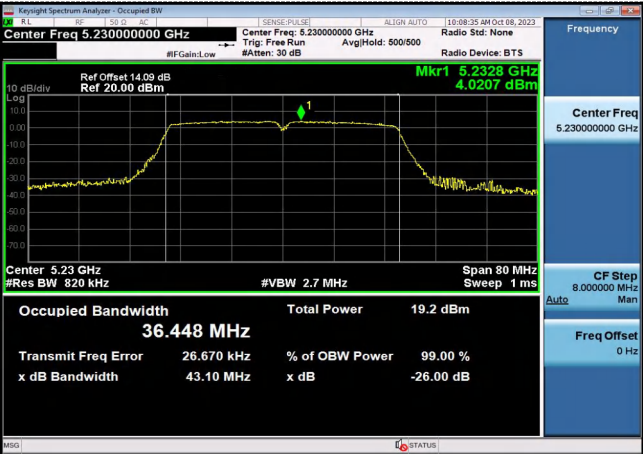
802.11n(HT40)



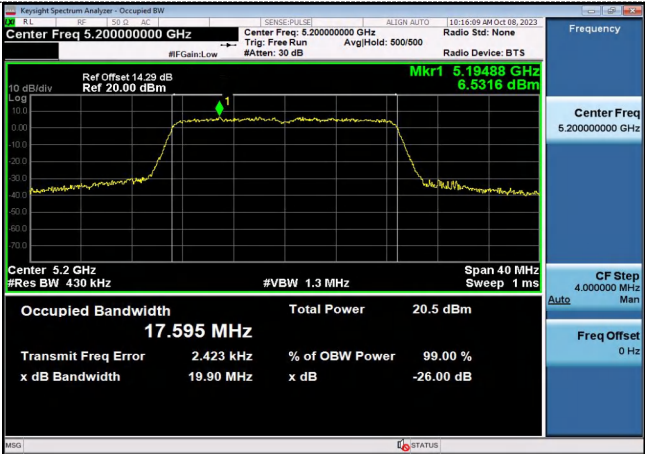
802.11ac(VHT20)



CH38



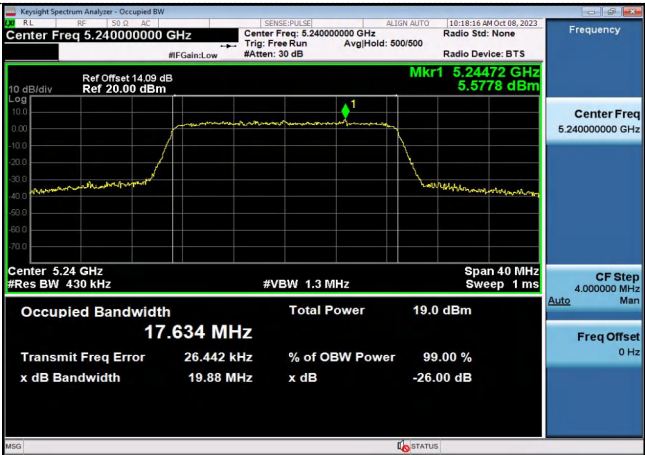
CH36



CH46

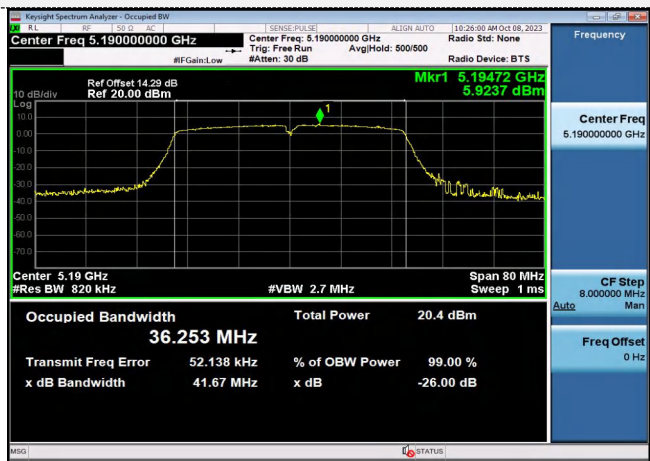


CH40

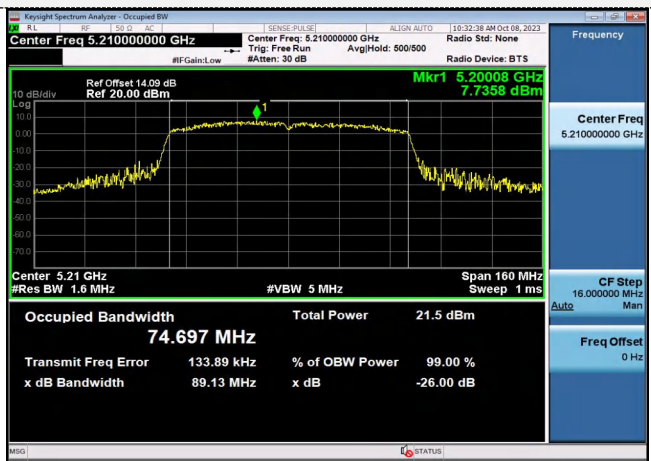


CH48

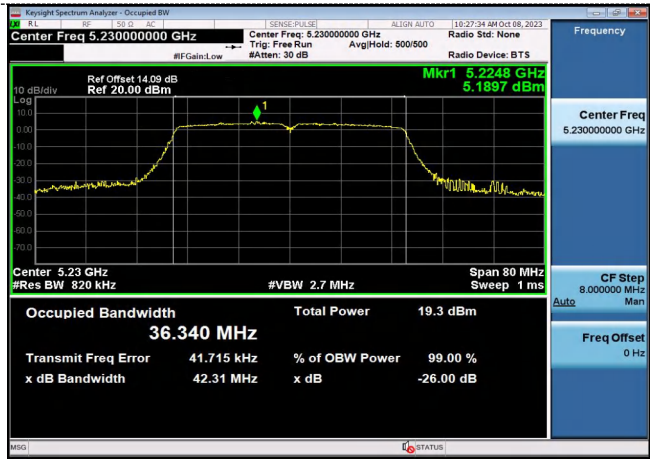
802.11ac(VHT40)



802.11ac(VHT80)



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	16.32	≥500KHz	Pass
		157	16.28		
		165	16.36		
802.11n(HT20)	U-NII 3	149	17.56		
		157	17.20		
		165	17.56		
802.11n(HT40)	U-NII 3	151	35.12		
		159	33.84		
802.11ac(VHT20)	U-NII 3	149	17.56		
		157	17.28		
		165	17.56		
802.11ac(VHT40)	U-NII 3	151	35.12		
		159	35.04		
802.11ac(VHT80)	U-NII 3	155	68.80		

Ant 2

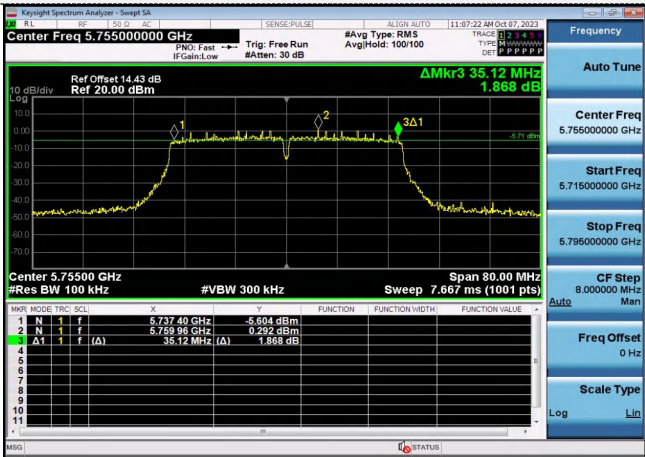
Type	Bands	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	U-NII 3	149	17.24	≥500KHz	Pass
		157	17.52		
		165	17.52		
802.11n(HT20)	U-NII 3	149	17.56		
		157	17.56		
		165	17.56		
802.11n(HT40)	U-NII 3	151	35.04		
		159	34.00		
802.11ac(VHT20)	U-NII 3	149	16.84		
		157	17.56		
		165	17.56		
802.11ac(VHT40)	U-NII 3	151	35.12		
		159	35.04		
802.11ac(VHT80)	U-NII 3	155	75.20		

Test plot as follows:

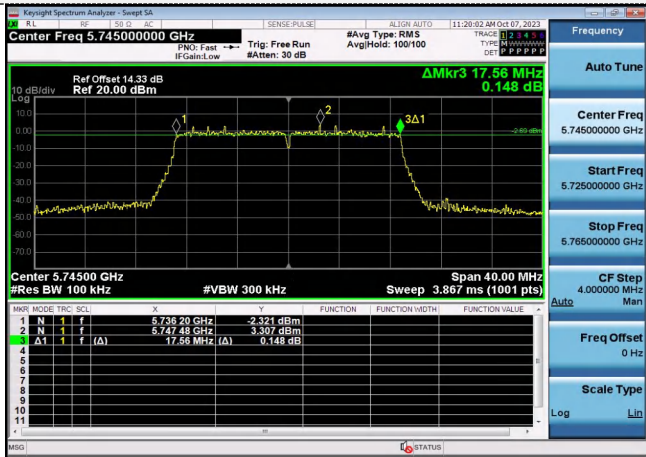
Ant 1



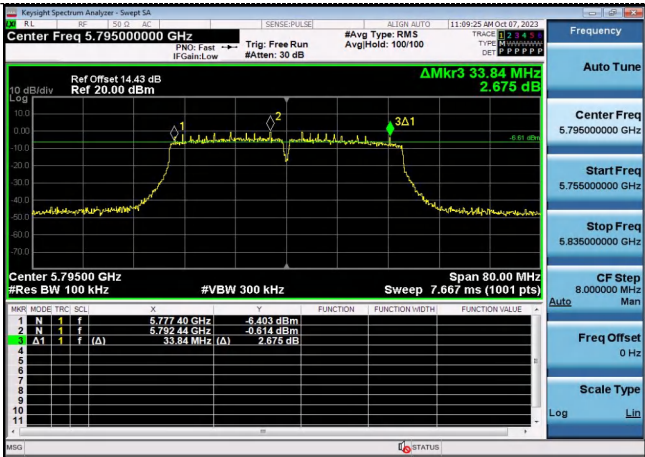
802.11n(HT40)



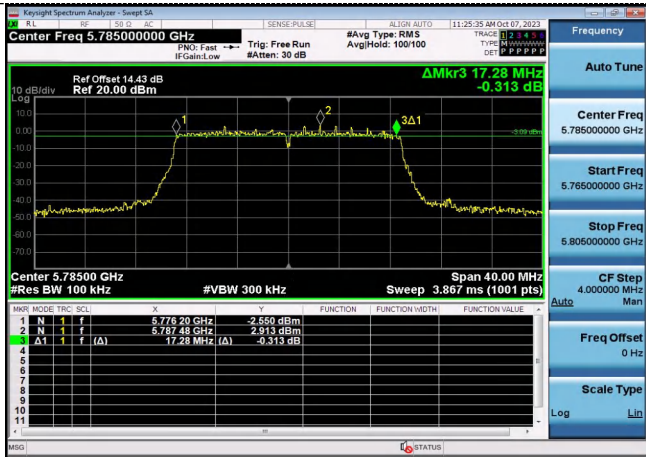
802.11ac(VHT20)



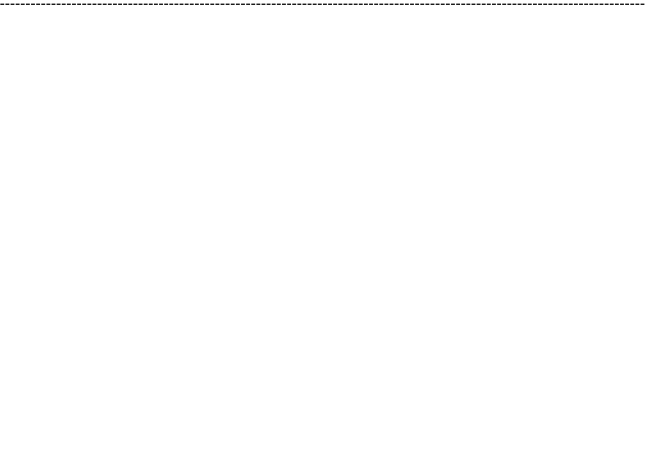
CH151



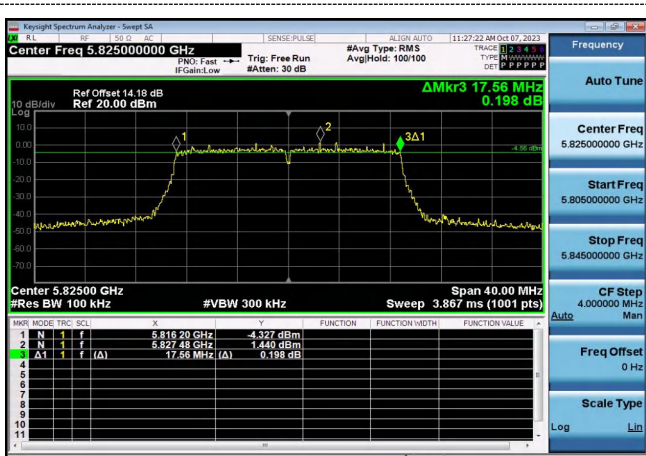
CH149



CH159

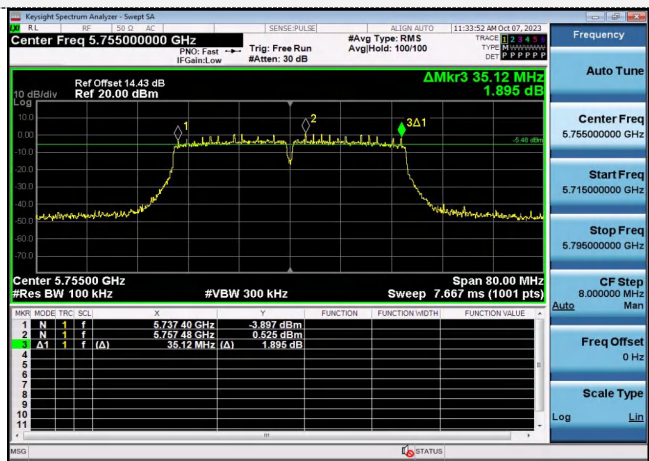


CH157



CH165

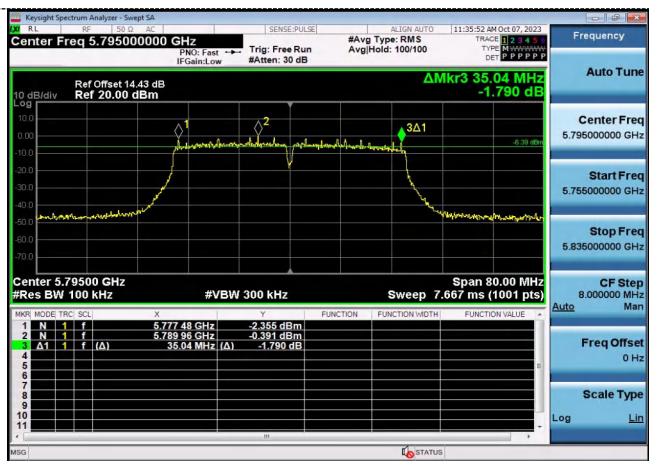
802.11ac(VHT40)



802.11ac(VHT80)



CH151



CH155

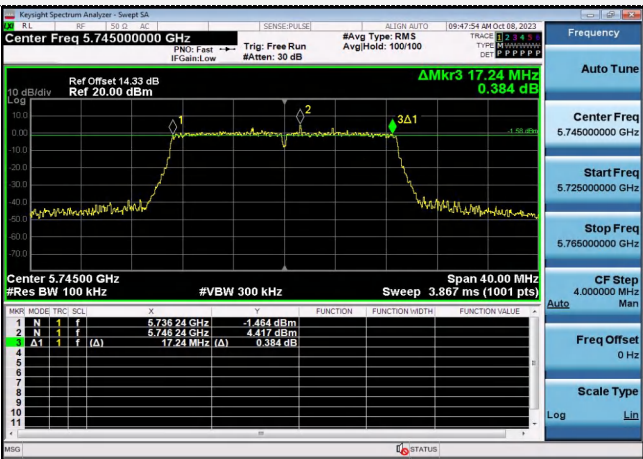


CH159

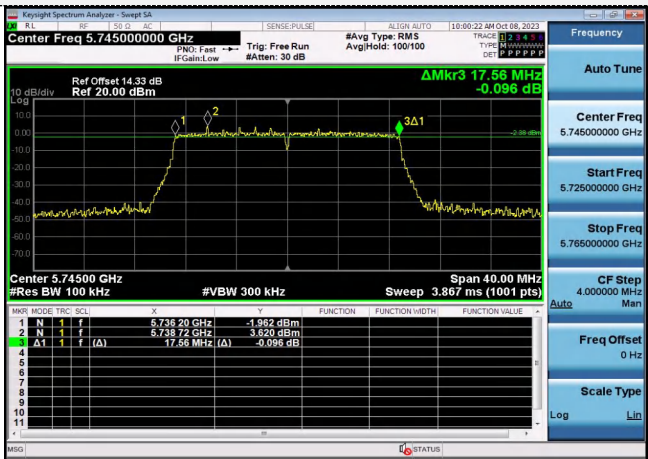


Ant 2

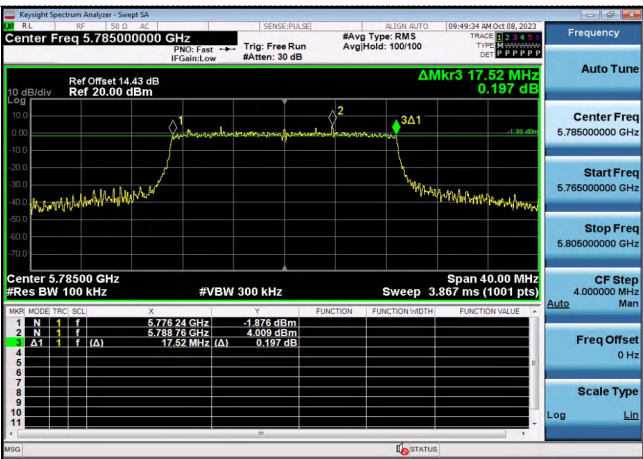
802.11a



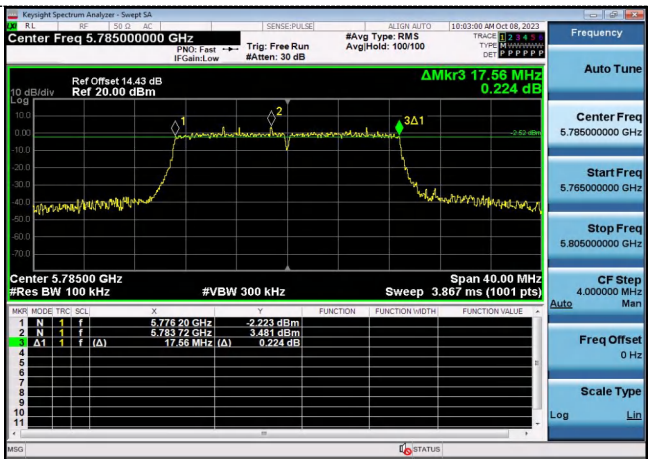
802.11n(HT20)



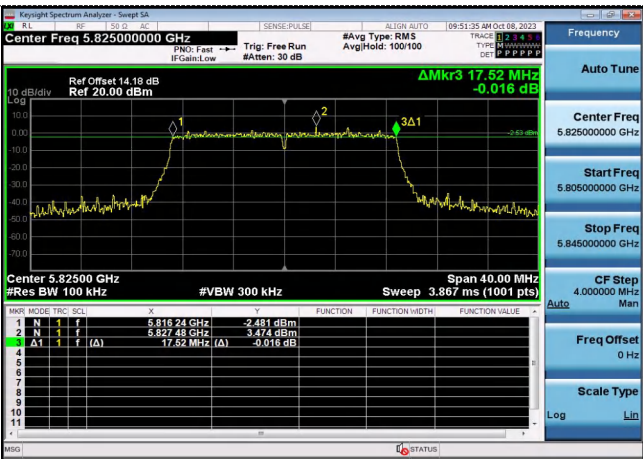
CH149



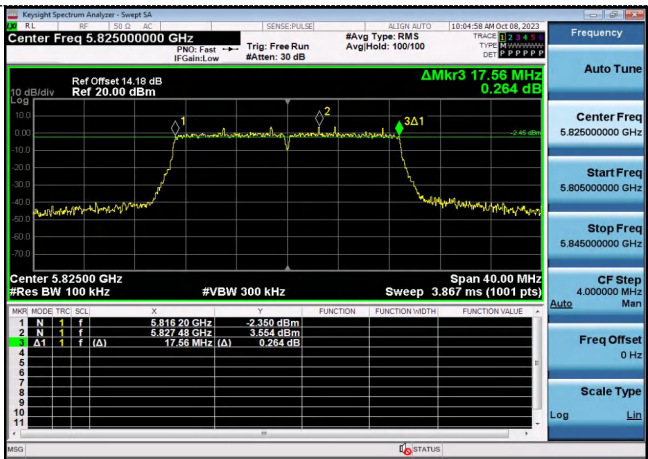
CH149



CH157



CH157



CH165



CH165

