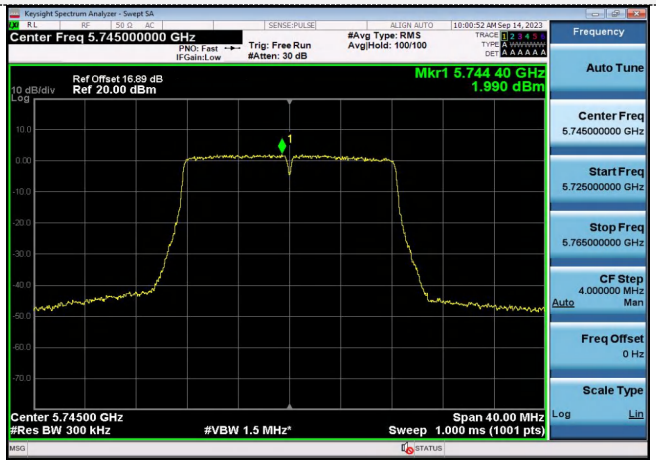
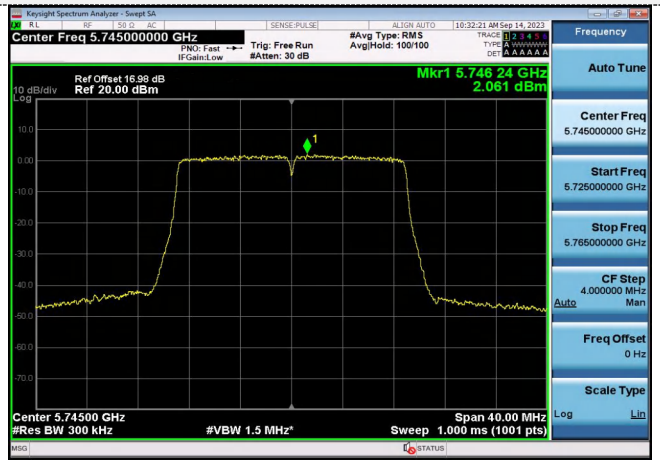
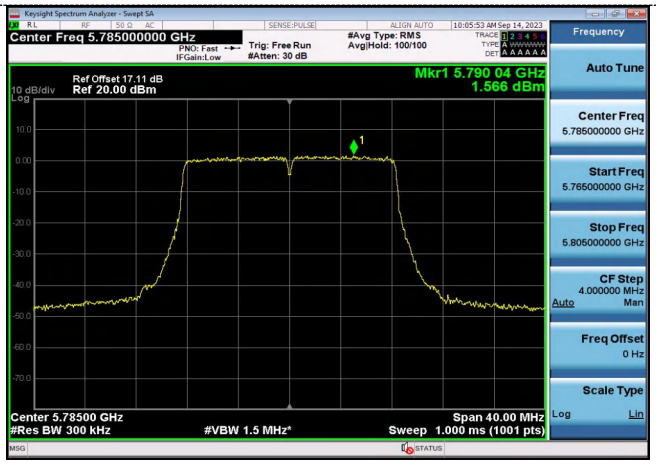
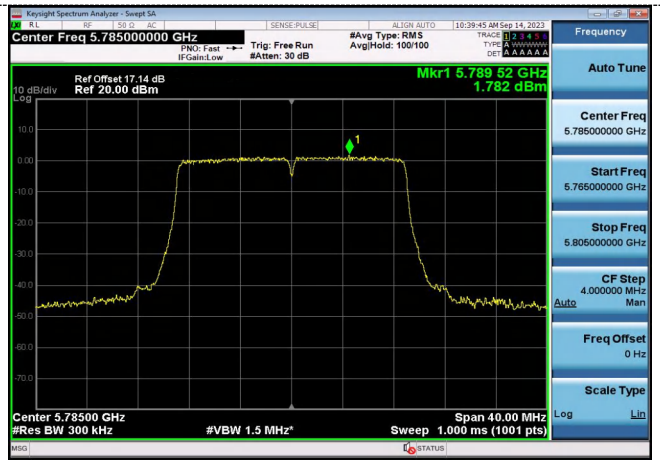
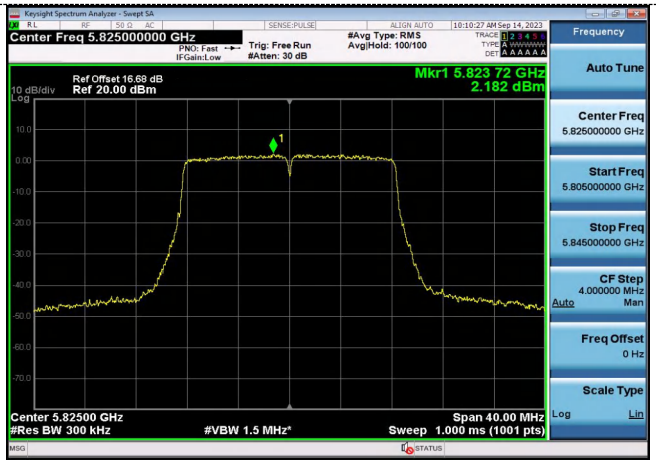
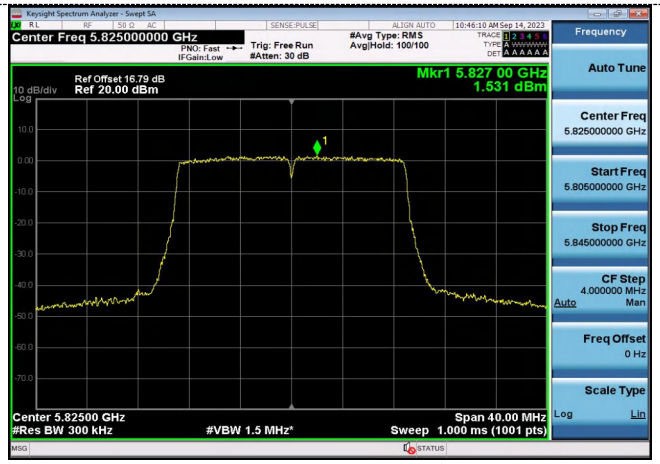
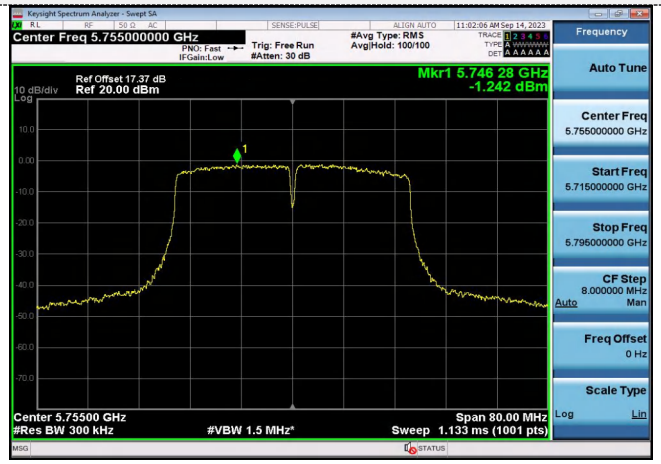
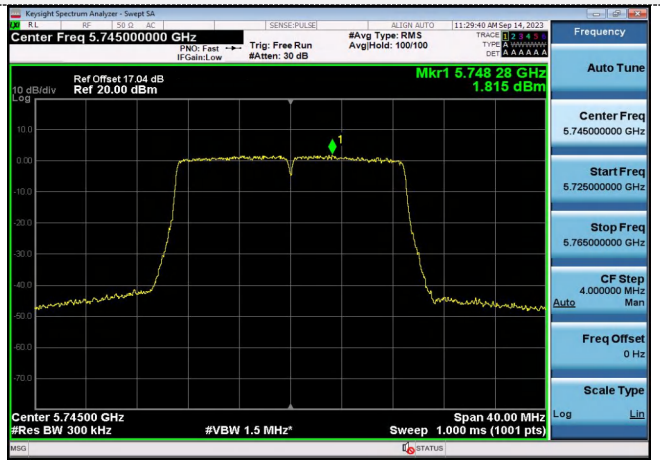
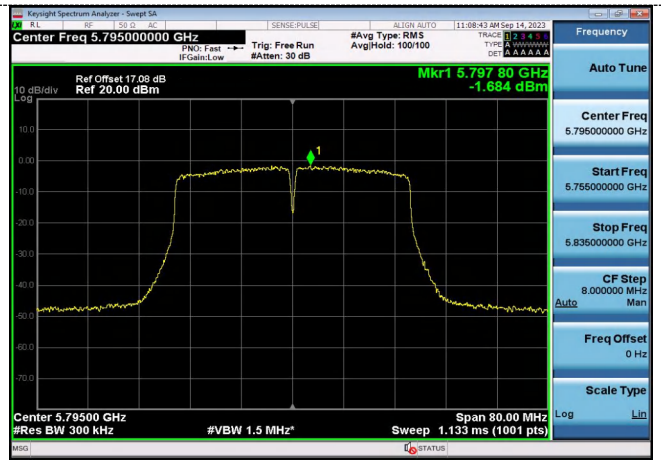
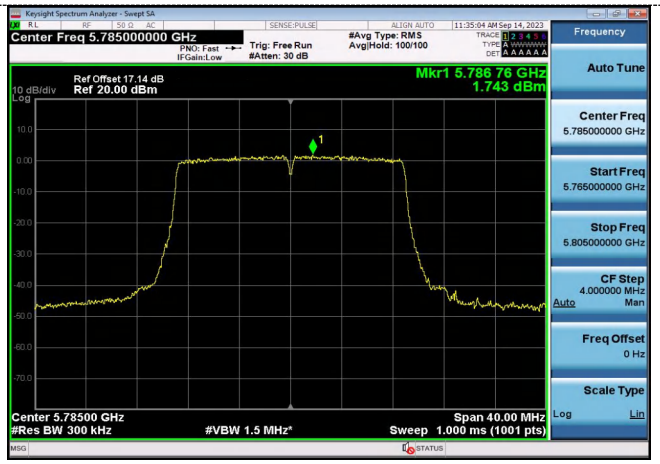
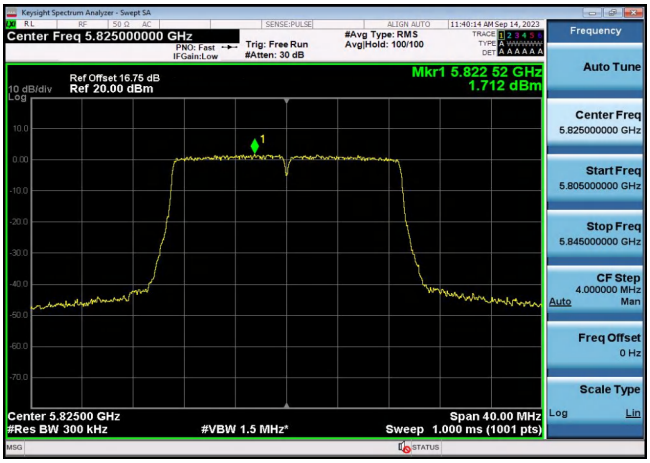
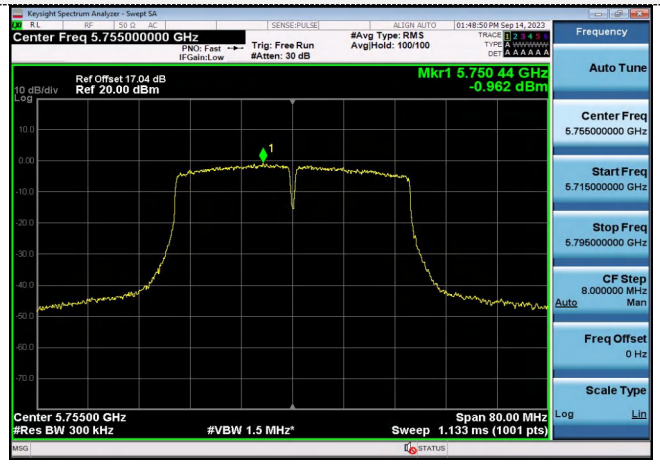
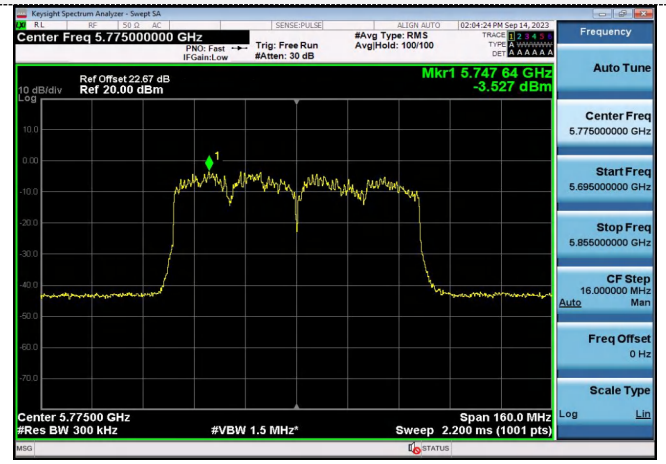
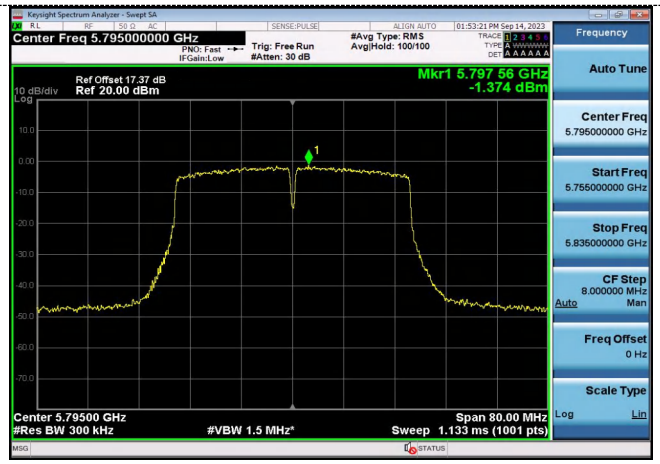
802.11a	*802.11n(HT20)*
U-NII 3	U-NII 3
	
CH149	*CH149*
	
CH157	*CH157*
	
CH165	*CH165*

802.11n(HT40)	802.11ac(HT20)
U-NII 3	U-NII 3
	
CH151	CH149
	
CH159	CH157
	
	CH165

802.11ac(HT40)	*802.11ac(HT80)*
U-NII 3	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

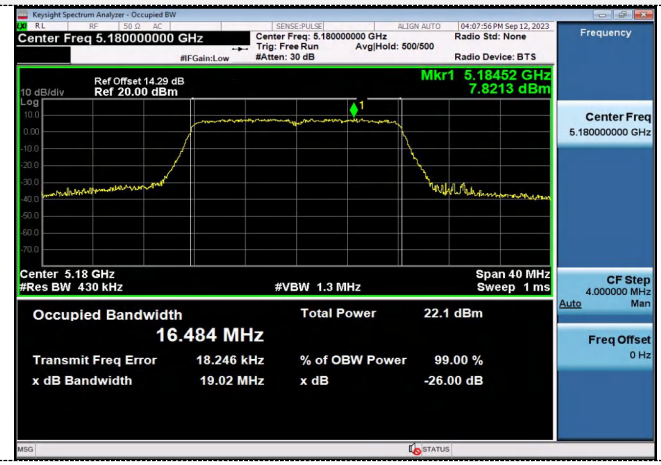
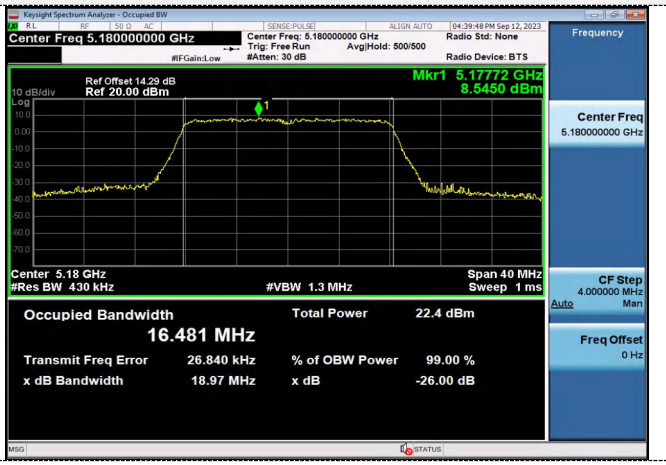
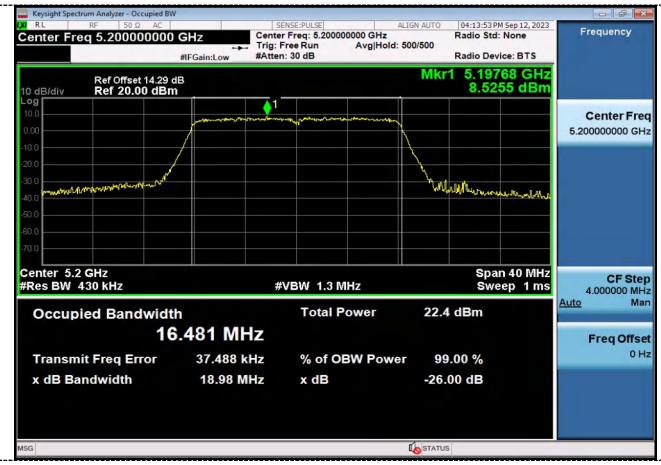
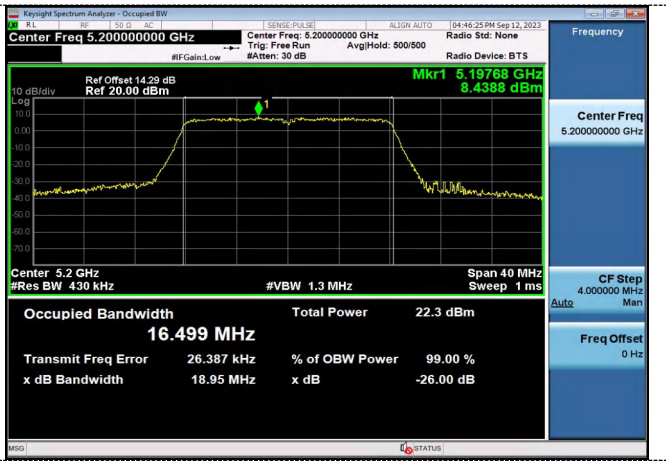
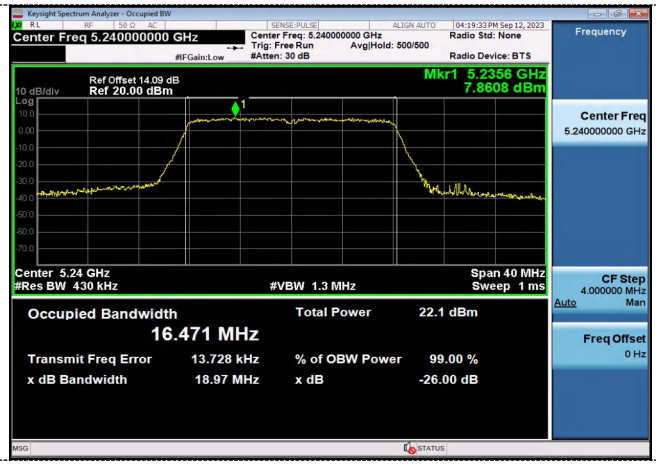
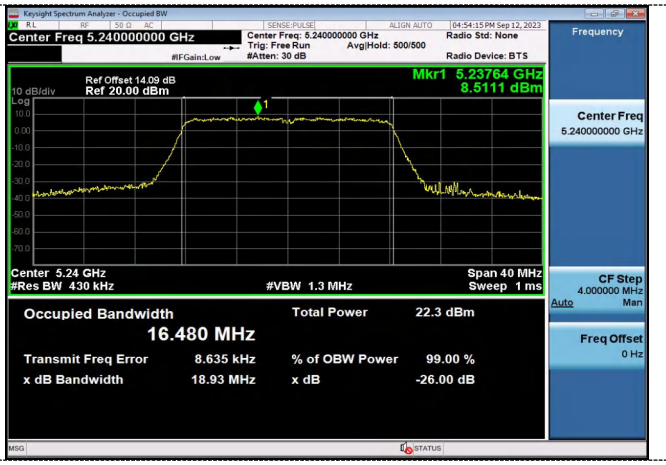
Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	19.02	N/A	Pass
		40	18.98		
		48	18.97		
802.11n(HT20)	U-NII 1	36	18.97		
		40	18.95		
		48	18.93		
802.11n(HT40)	U-NII 1	38	42.02		
		46	41.89		
802.11ac(HT20)	U-NII 1	36	19.77		
		40	19.76		
		48	19.74		
802.11ac(HT40)	U-NII 1	38	42.39		
		46	42.41		
802.11ac(HT80)	U-NII 1	42	81.69		

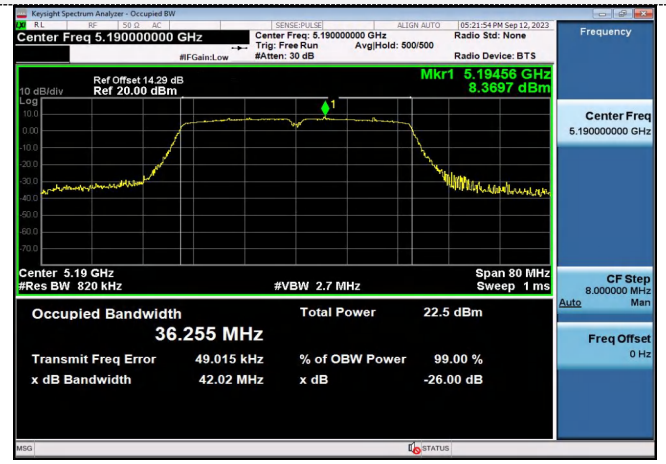
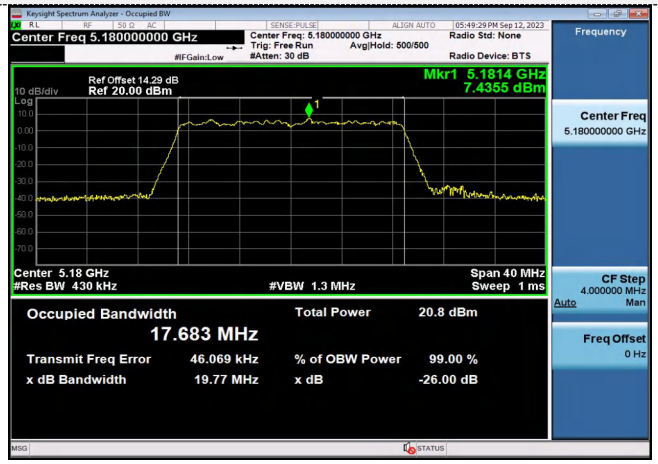
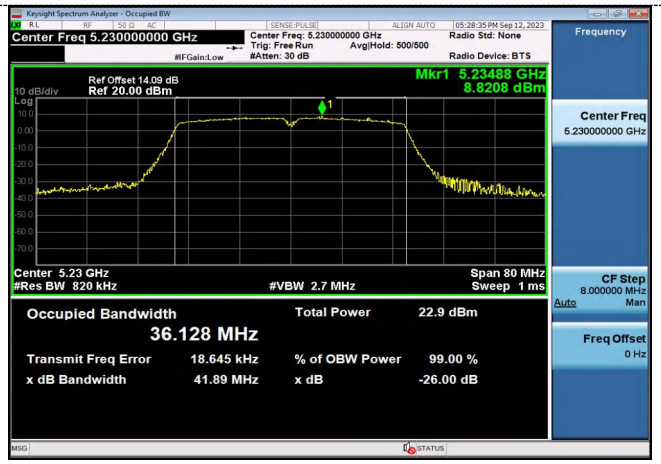
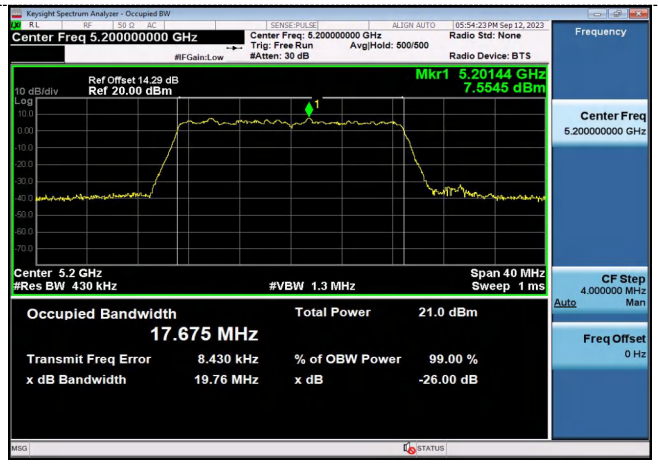
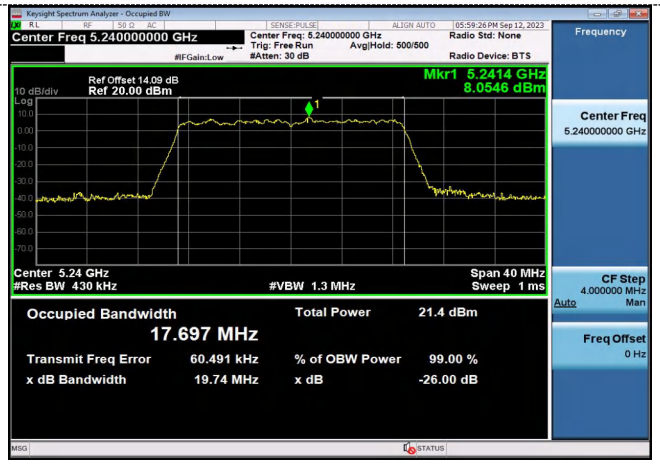
Ant 2

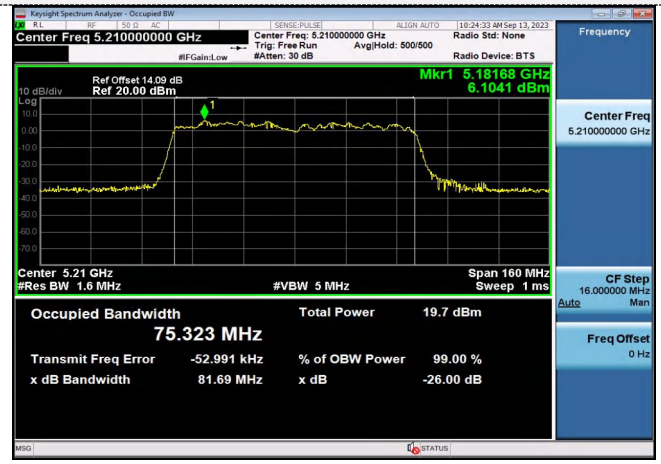
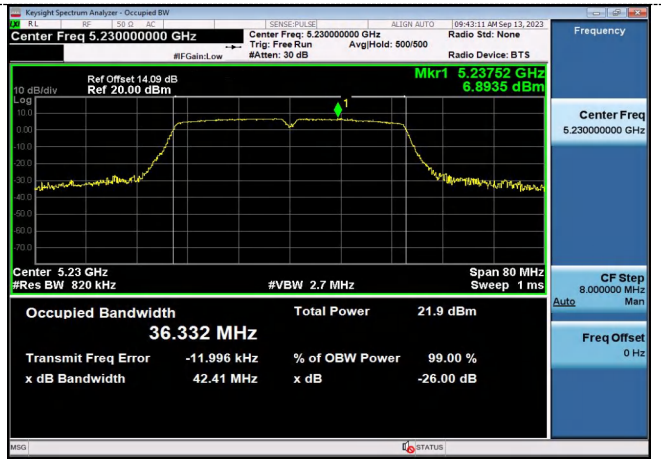
Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	19.89	N/A	Pass
		40	19.86		
		48	19.04		
802.11n(HT20)	U-NII 1	36	19.83		
		40	19.76		
		48	19.89		
802.11n(HT40)	U-NII 1	38	41.82		
		46	42.36		
802.11ac(HT20)	U-NII 1	36	19.99		
		40	19.81		
		48	19.88		
802.11ac(HT40)	U-NII 1	38	42.51		
		46	42.23		
802.11ac(HT80)	U-NII 1	42	82.46		

Test plot as follows:

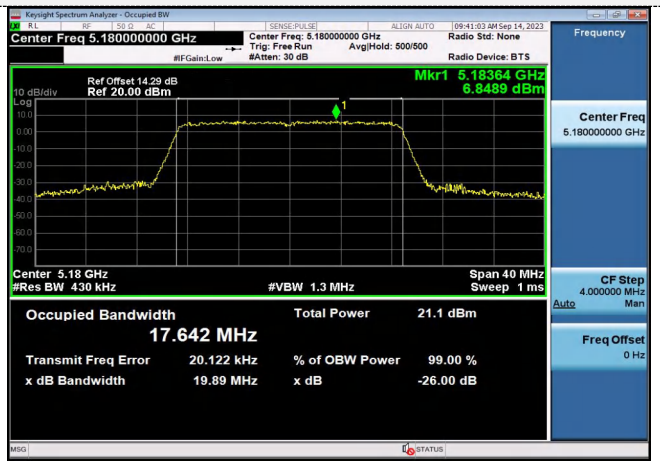
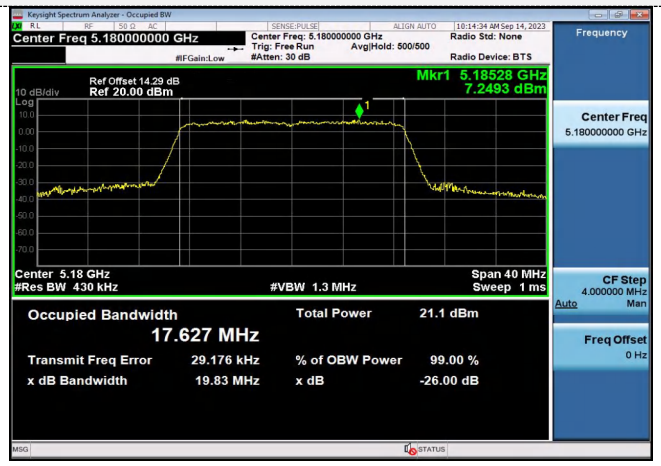
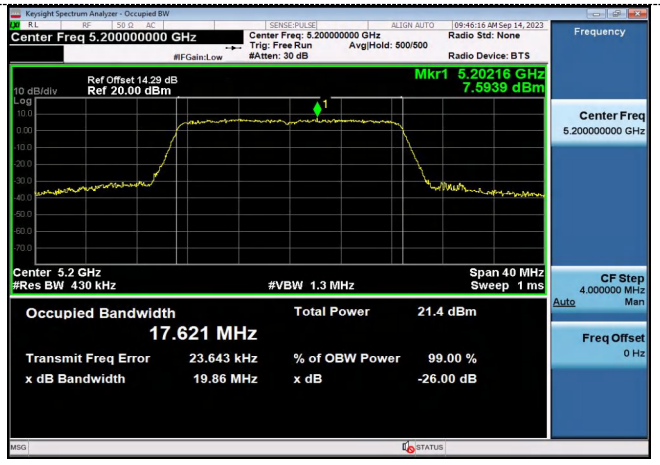
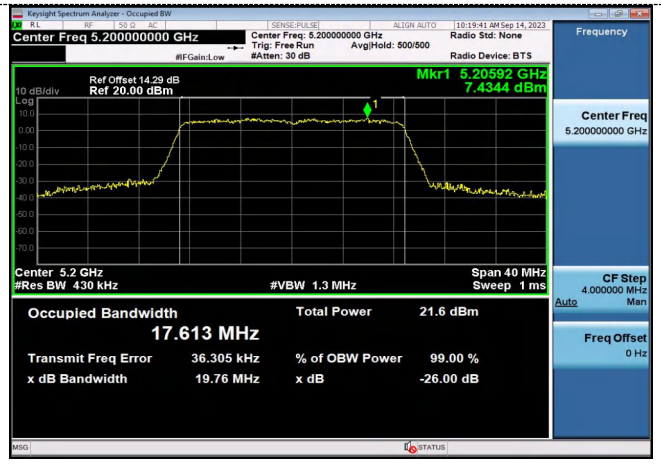
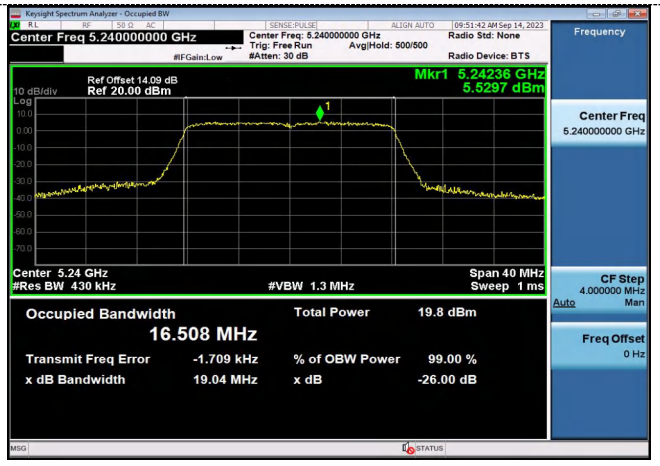
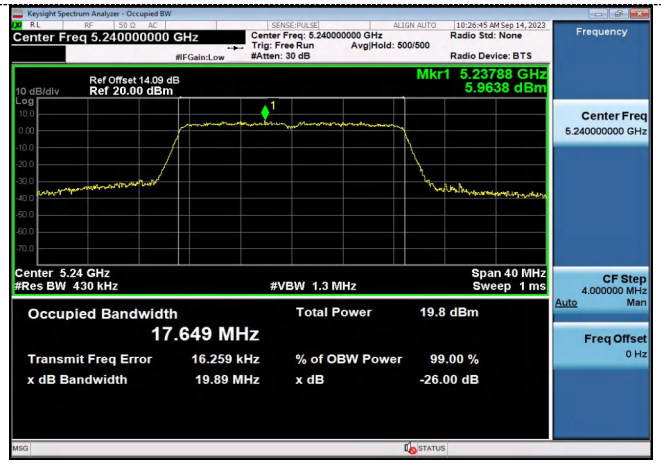
Ant 1

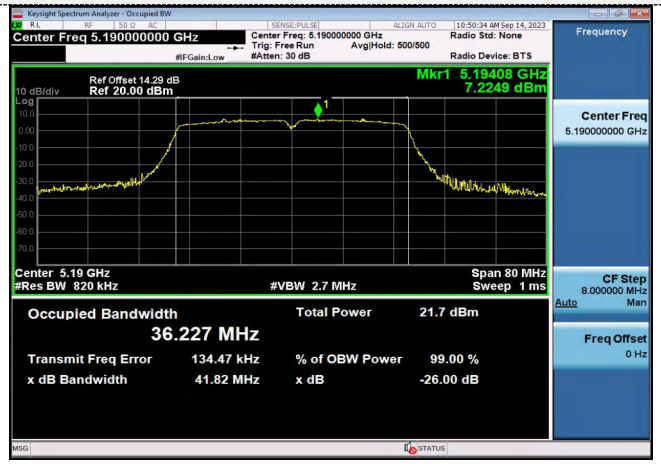
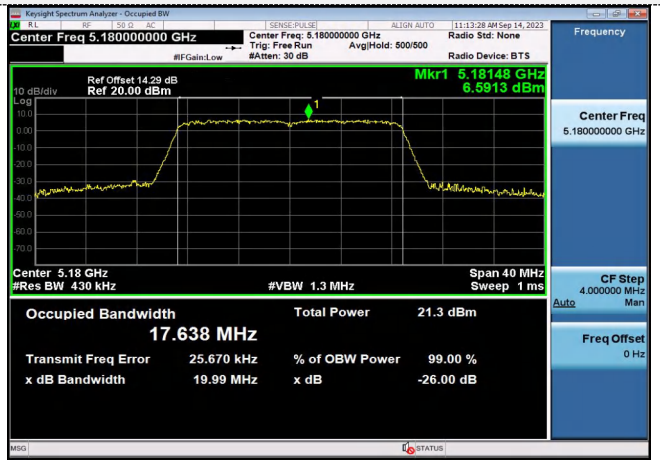
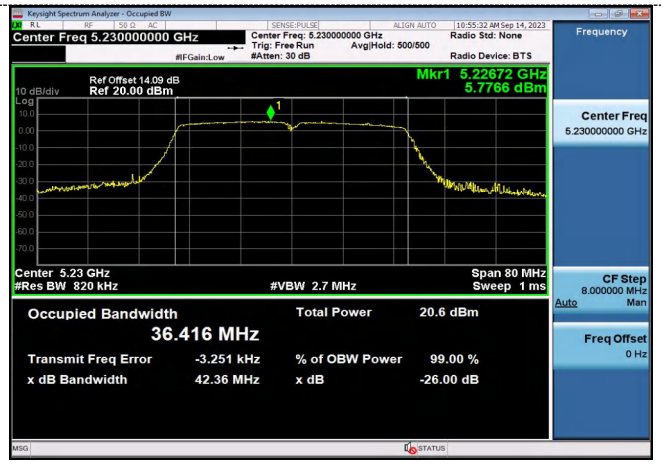
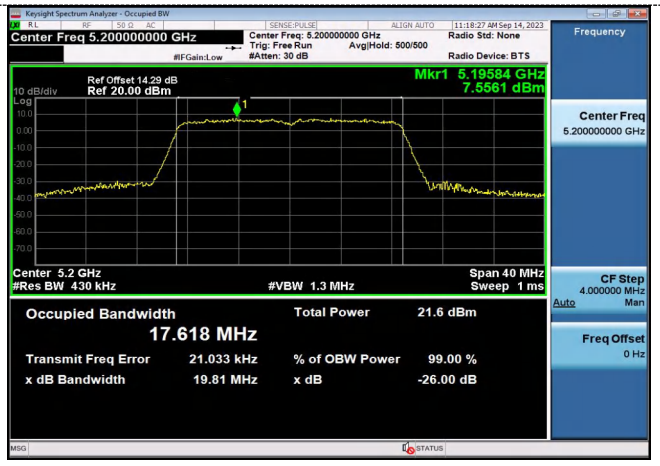
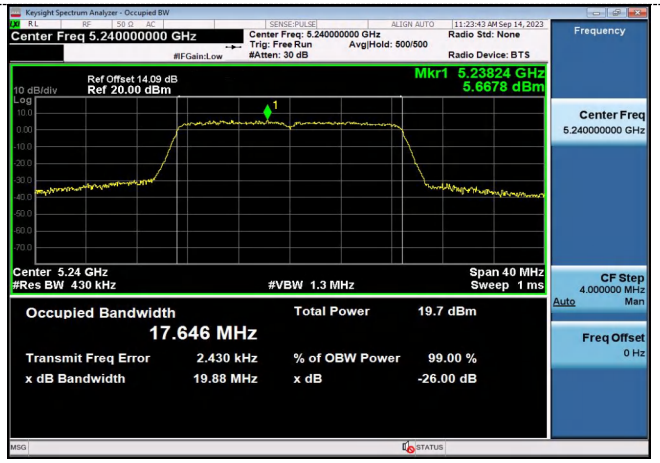
802.11a	802.11n(HT20)
	
CH36	CH36
	
CH40	CH40
	
CH48	CH48

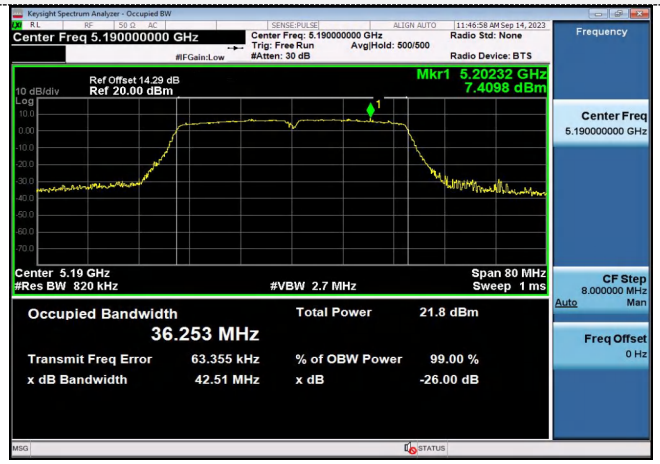
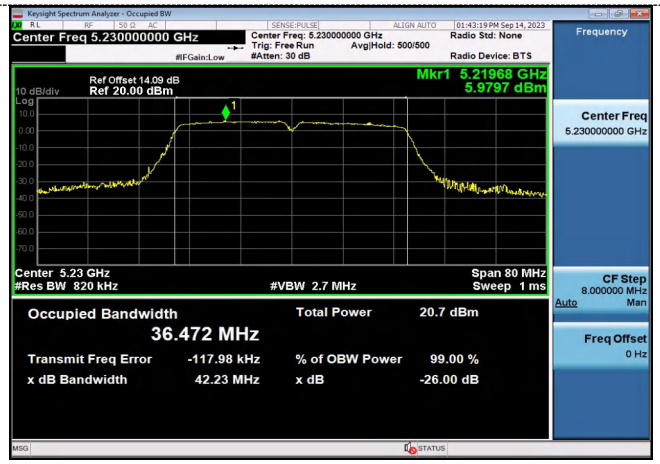
802.11n(HT40)	802.11ac(HT20)
	
CH38	CH36
	
CH46	CH40
	
	CH48

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

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

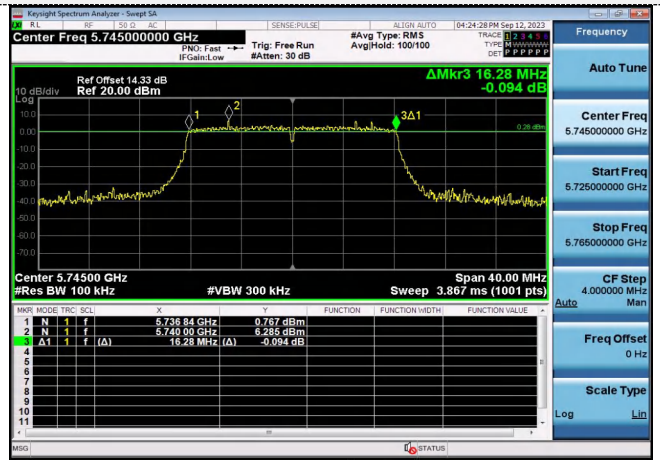
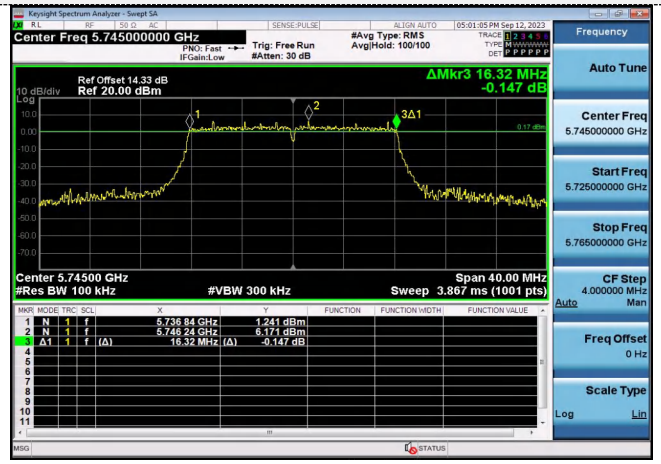
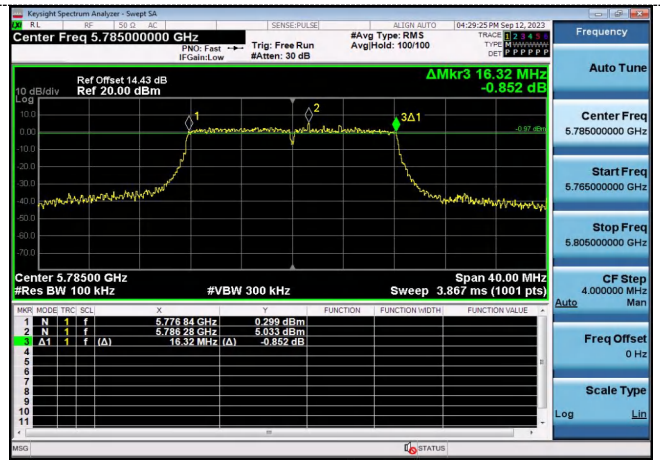
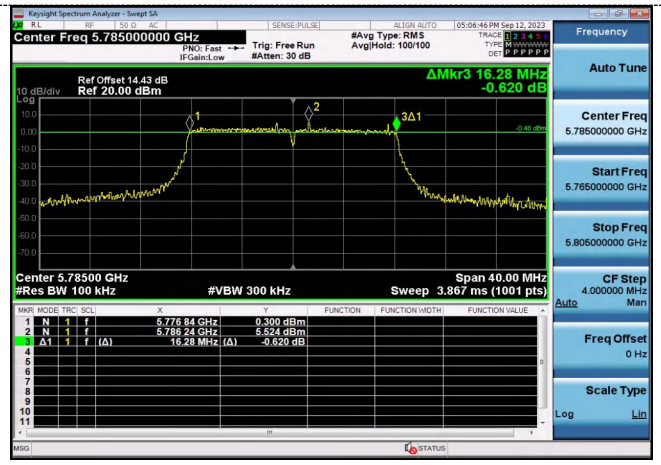
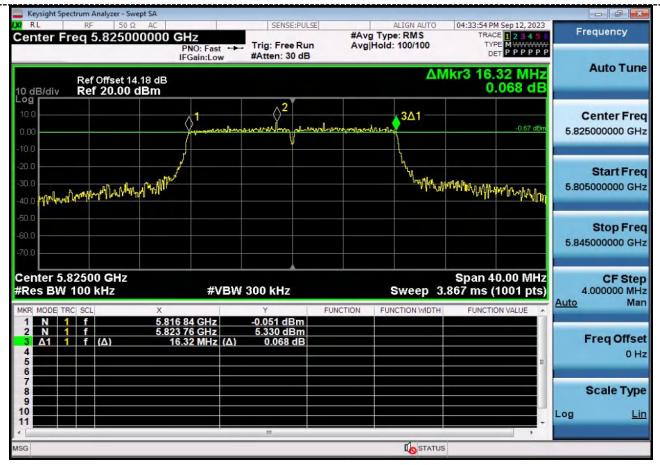
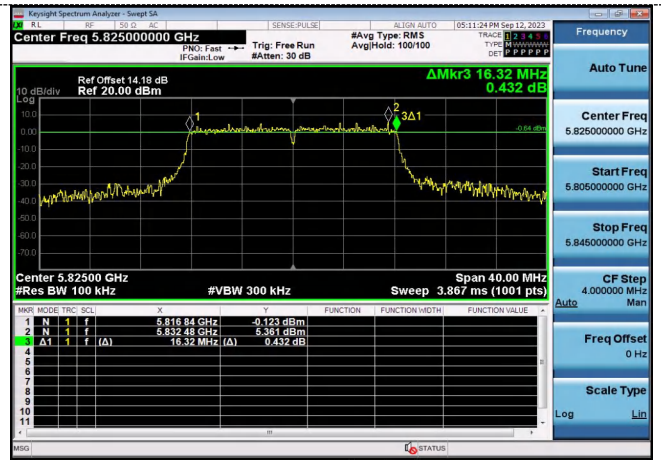
Type	Bands	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	U-NII 3	149	16.280	≥500KHz	Pass
		157	16.320		
		165	16.320		
802.11n(HT20)	U-NII 3	149	16.320		
		157	16.280		
		165	16.320		
802.11n(HT40)	U-NII 3	151	35.120		
		159	35.120		
802.11ac(HT20)	U-NII 3	149	17.160		
		157	17.560		
		165	17.160		
802.11ac(HT40)	U-NII 3	151	35.040		
		159	35.200		
802.11ac(HT80)	U-NII 3	155	75.200		

Ant 2

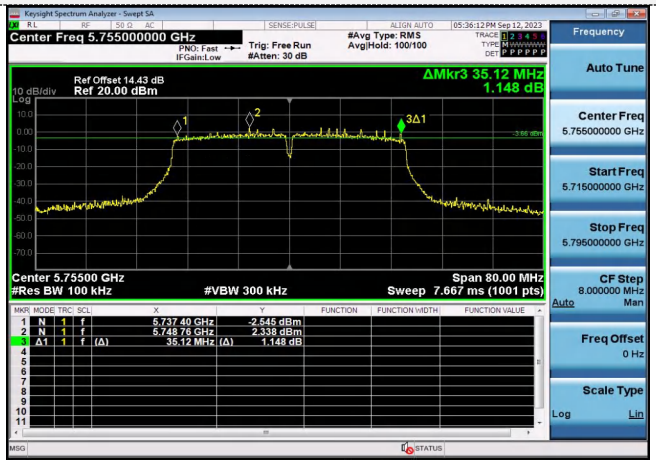
Type	Bands	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	U-NII 3	149	16.320	≥500KHz	Pass
		157	16.320		
		165	16.000		
802.11n(HT20)	U-NII 3	149	17.520		
		157	17.520		
		165	17.520		
802.11n(HT40)	U-NII 3	151	34.160		
		159	35.040		
802.11ac(HT20)	U-NII 3	149	17.240		
		157	17.520		
		165	17.560		
802.11ac(HT40)	U-NII 3	151	32.560		
		159	35.040		
802.11ac(HT80)	U-NII 3	155	75.200		

Test plot as follows:

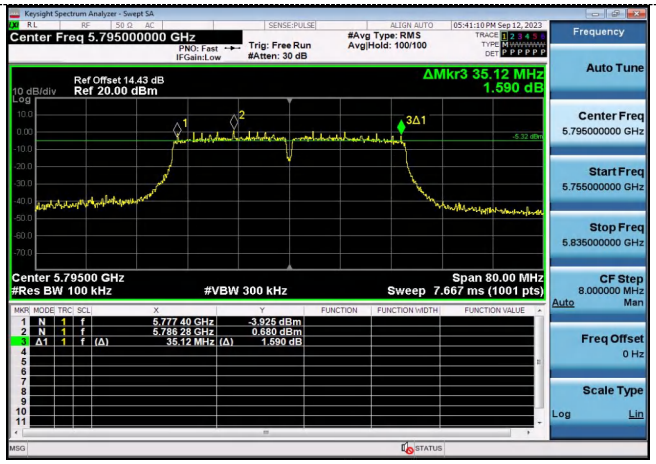
Ant 1

802.11a	802.11n(HT20)
	
CH149	CH149
	
CH157	CH157
	
CH165	CH165

802.11n(HT40)

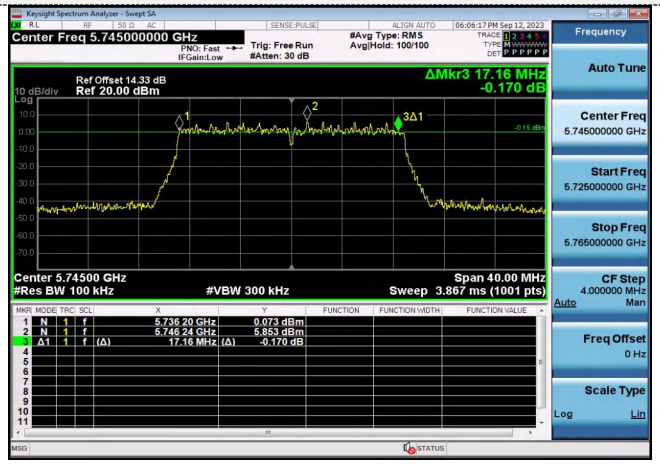


CH151

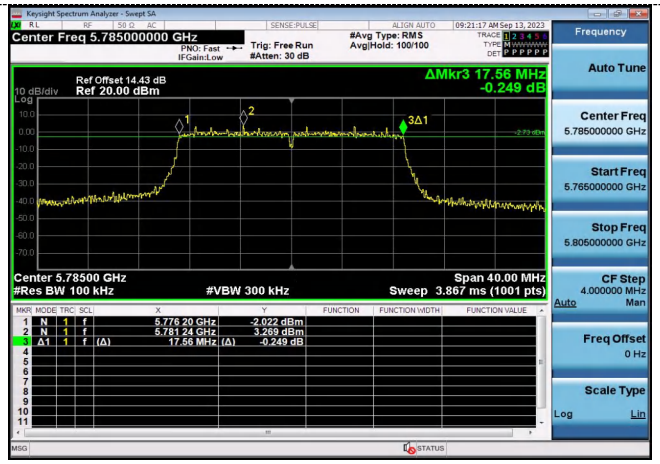


CH159

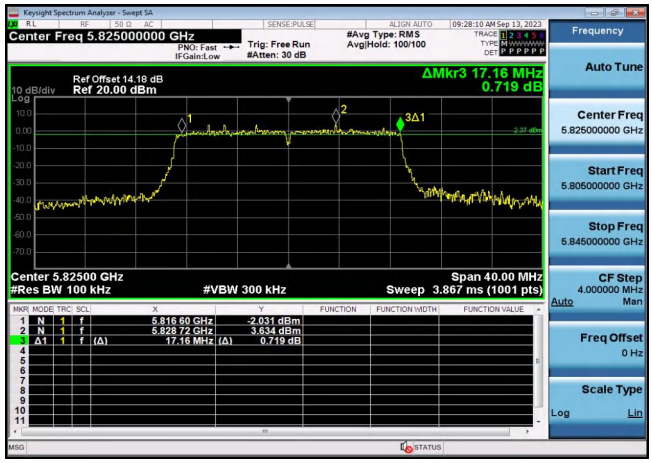
802.11ac(HT20)



CH149



CH157



CH165

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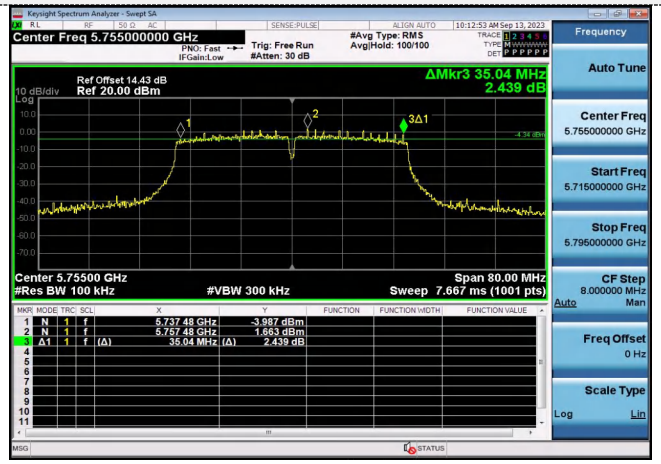
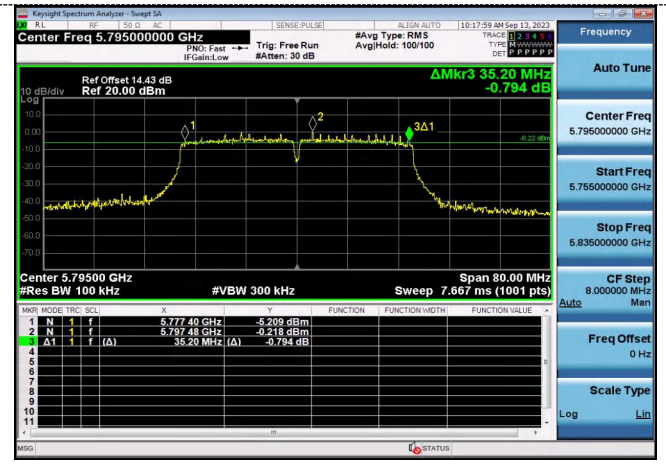
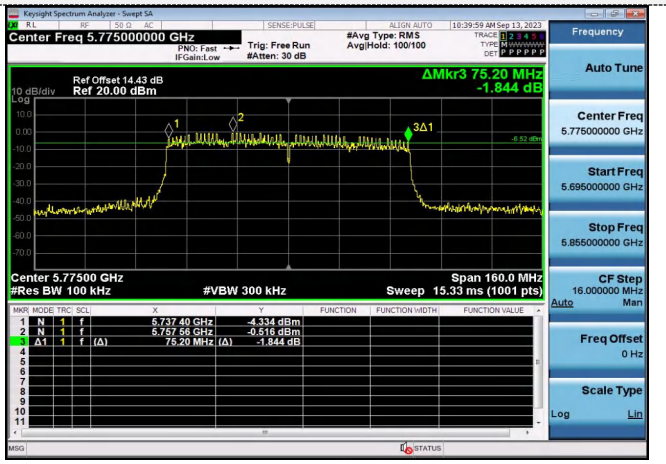


CH151



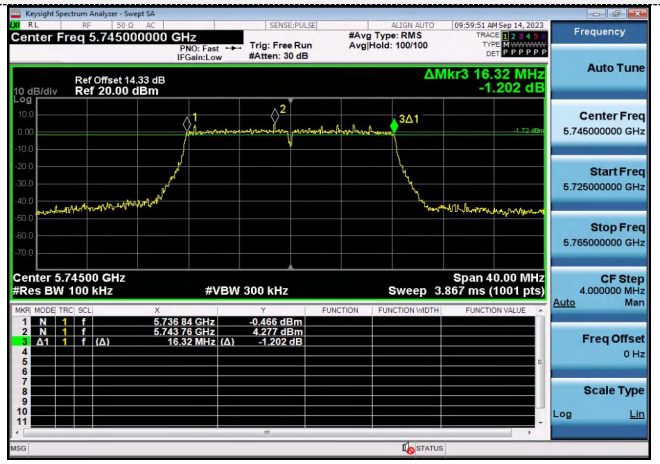
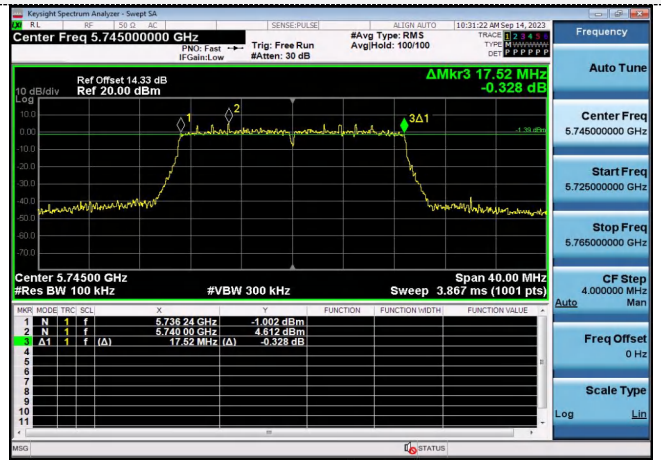
CH159

802.11ac(HT80)



CH155

Ant 2

802.11a	802.11n(HT20)
	
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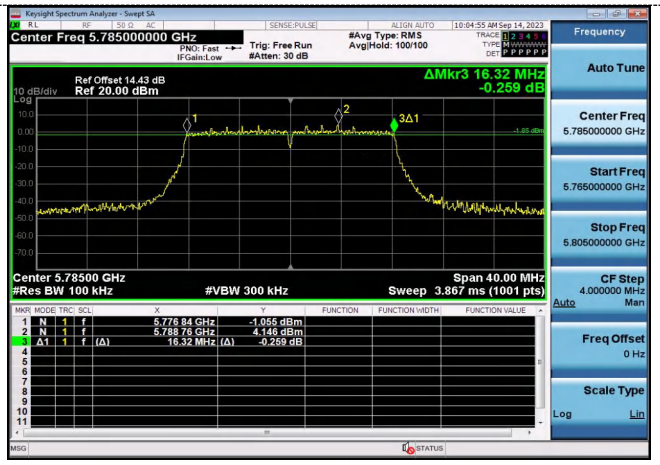	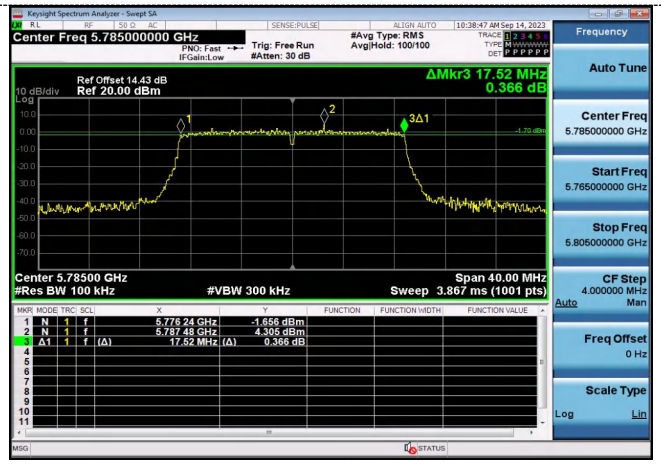
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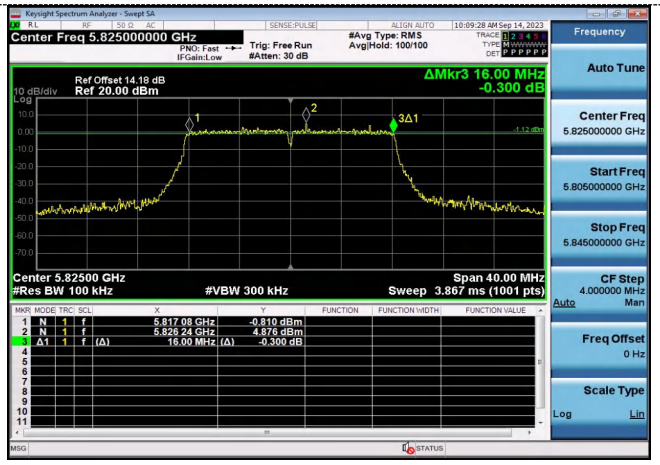	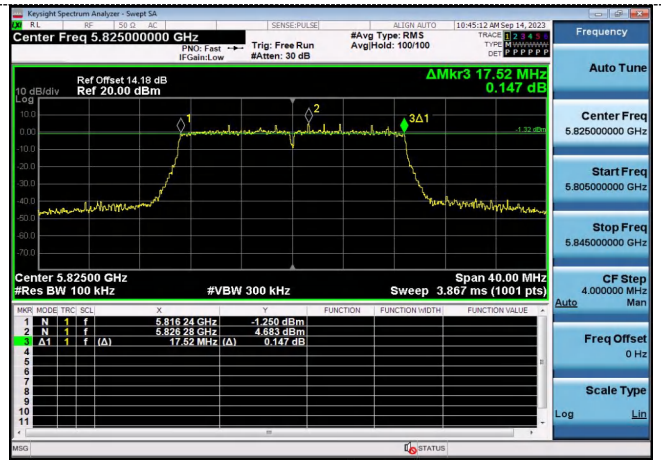
CH165	CH165