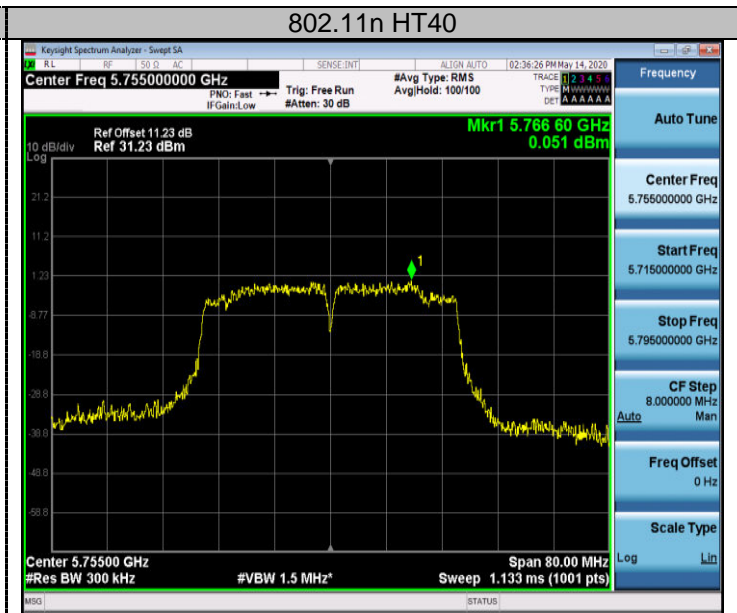


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CH 151



CH 157



CH 159



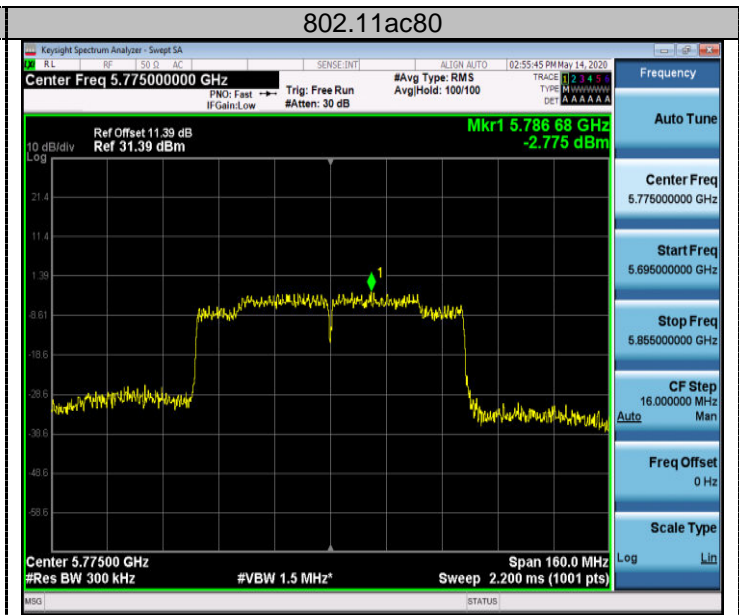
CH 165



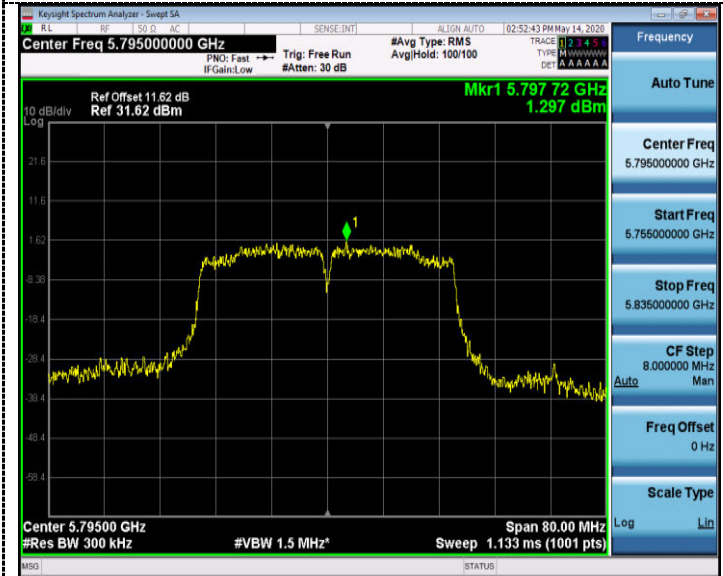
CH 166



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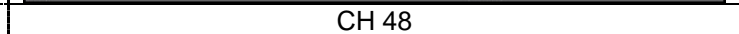
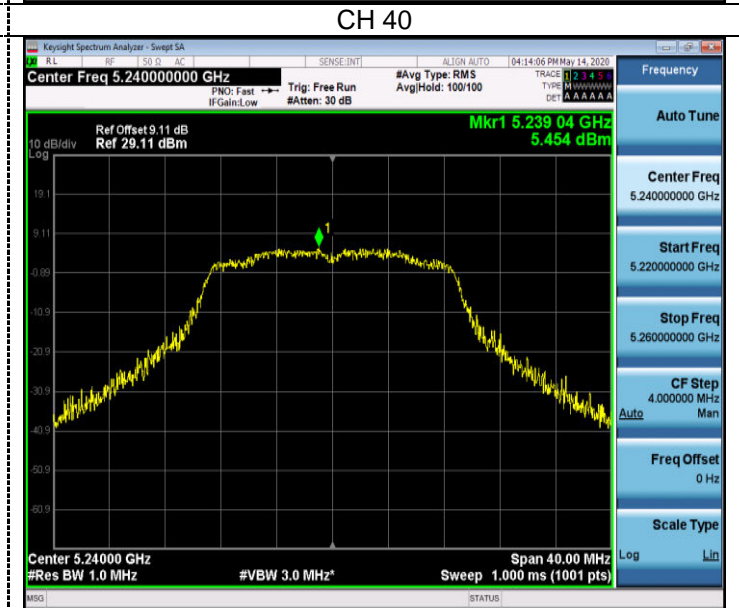
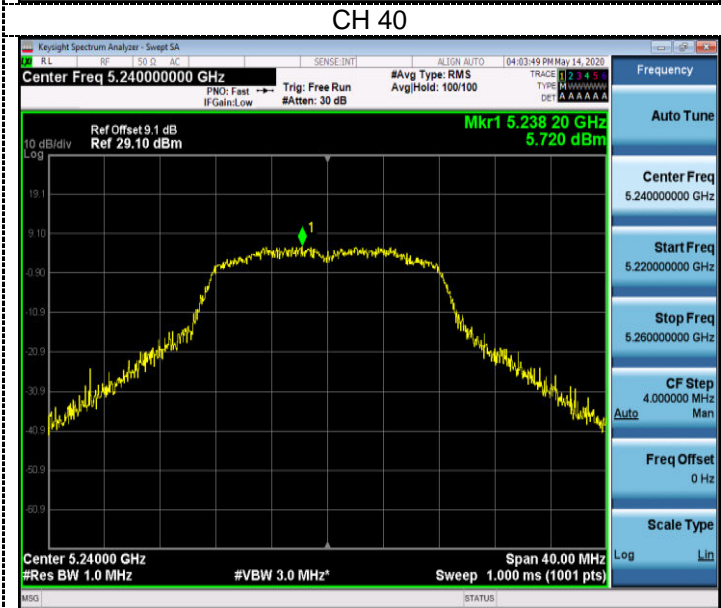
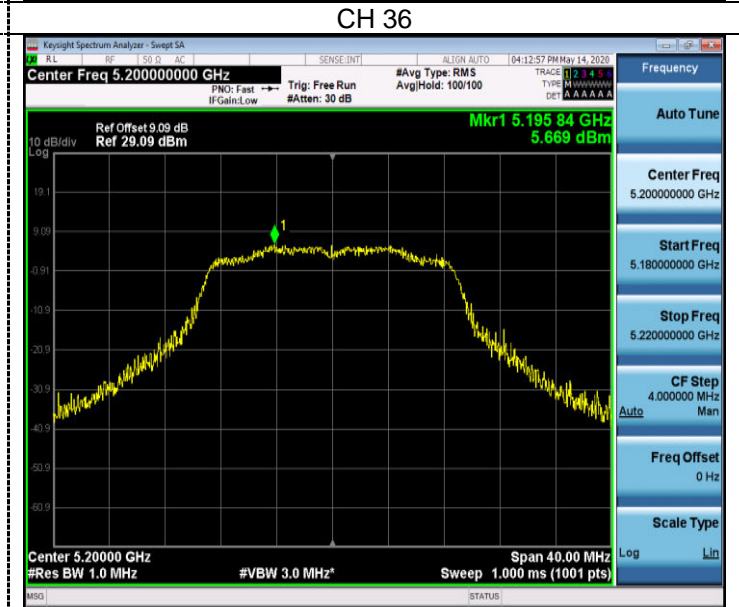
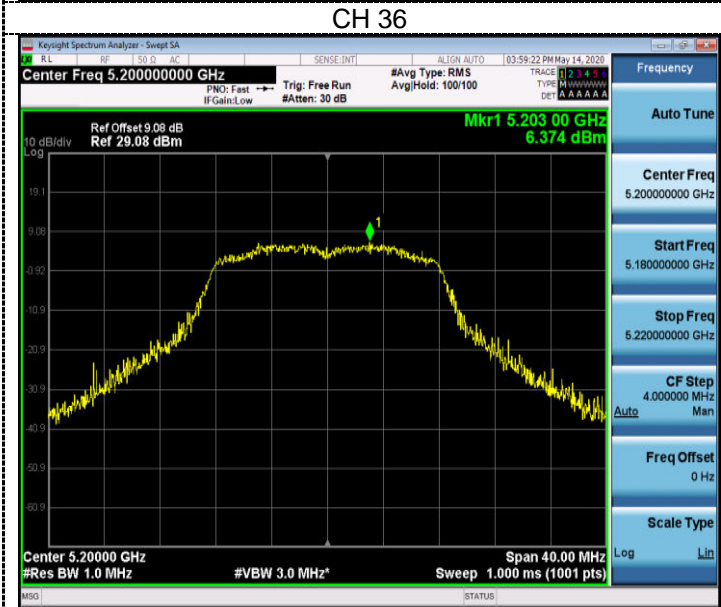
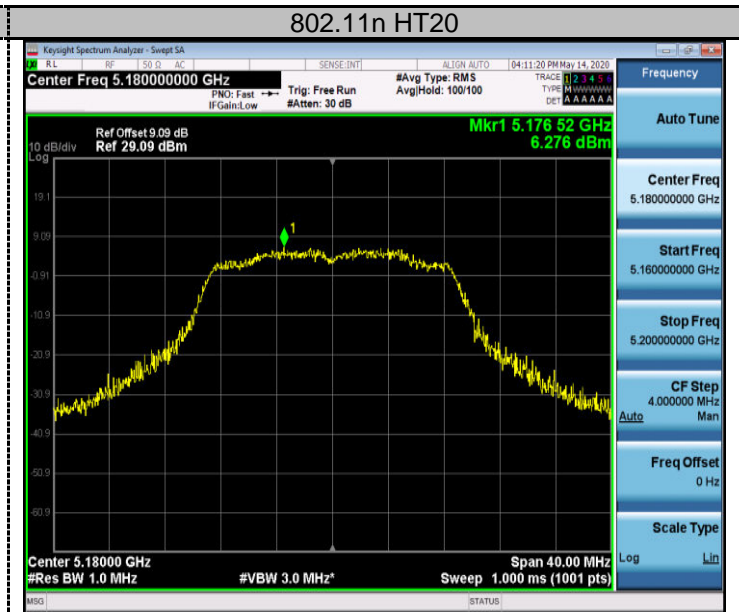
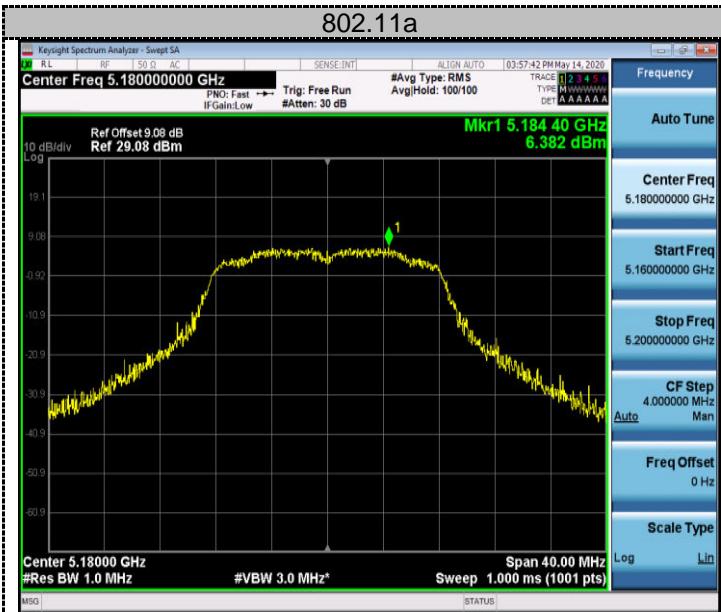


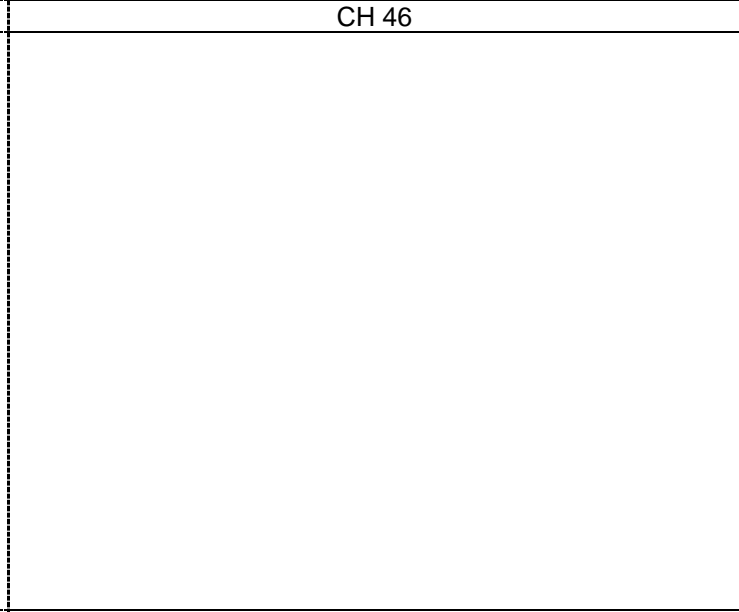
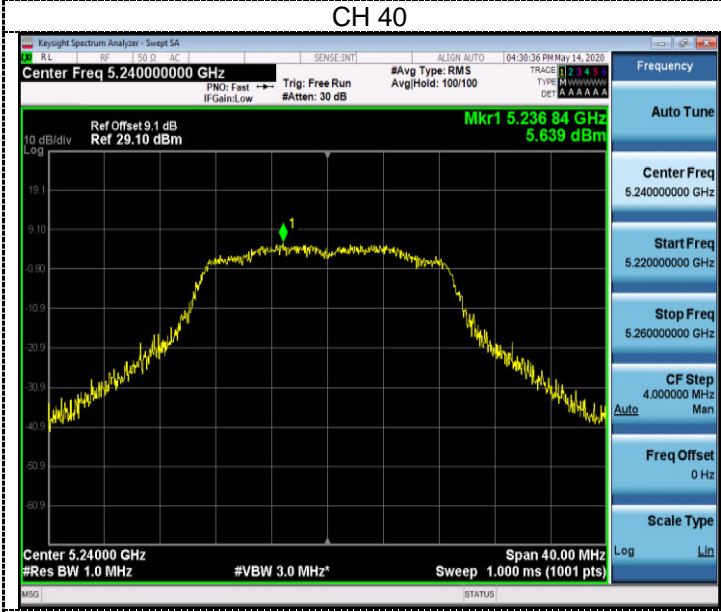
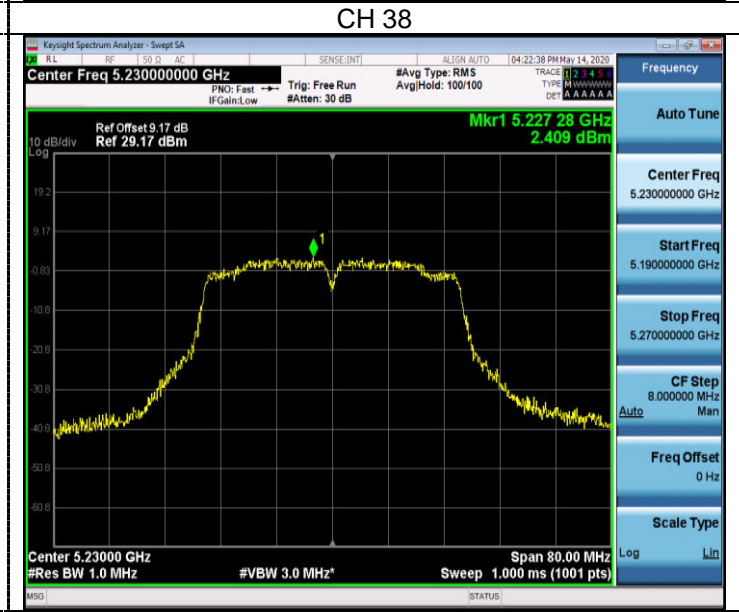
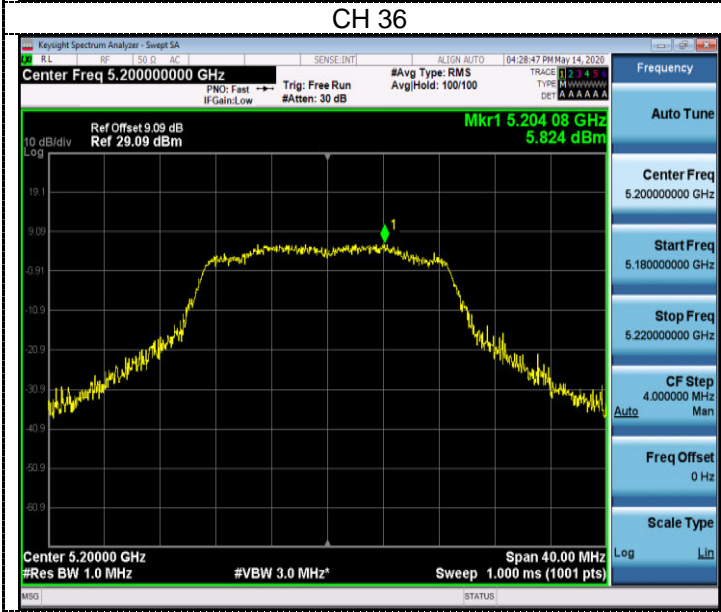
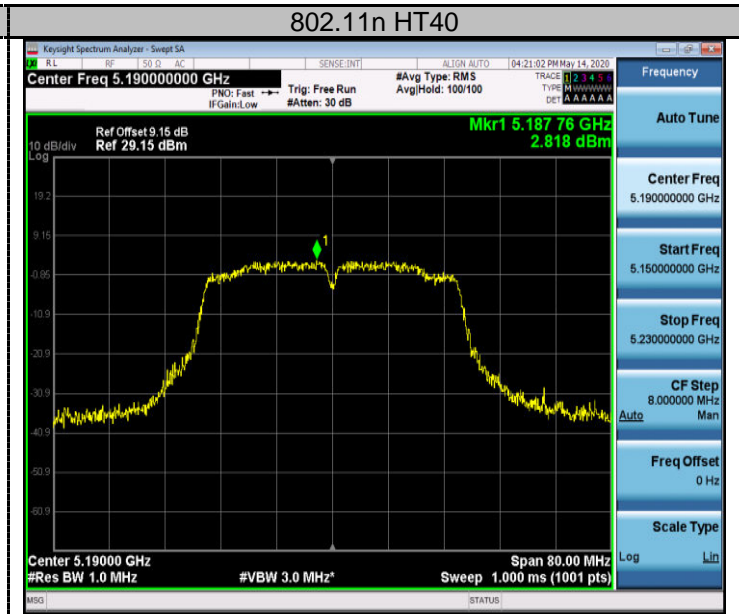
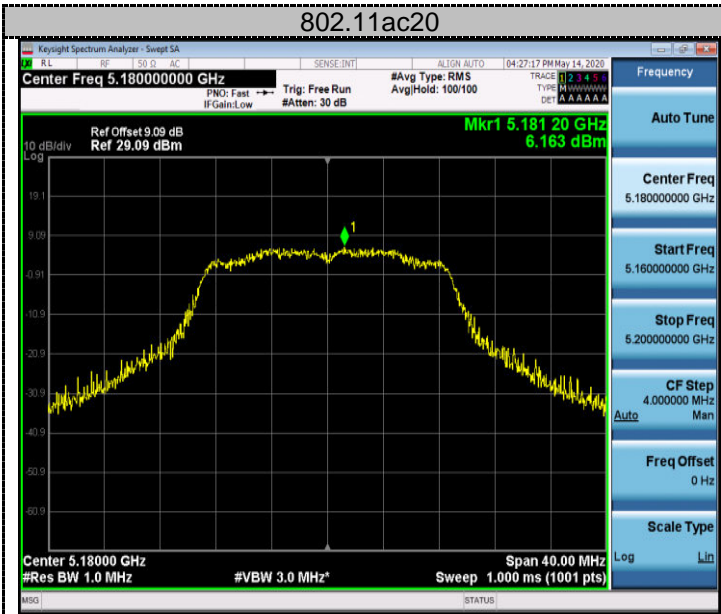
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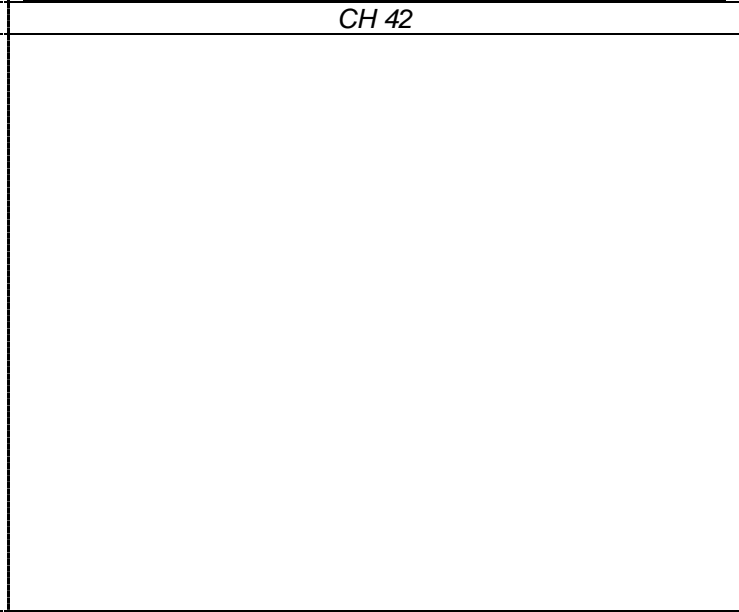
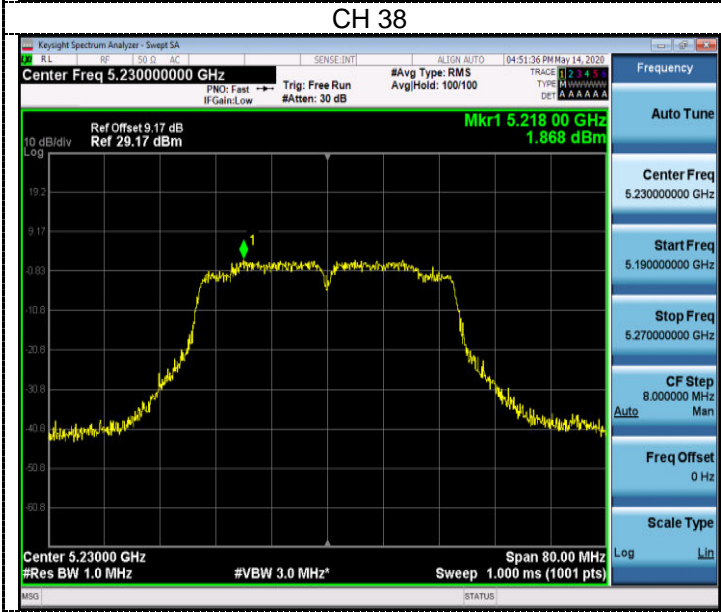
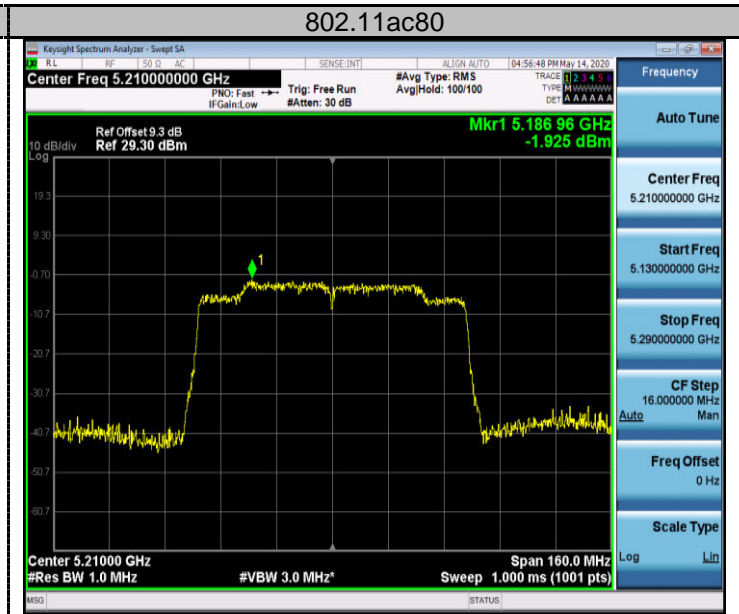
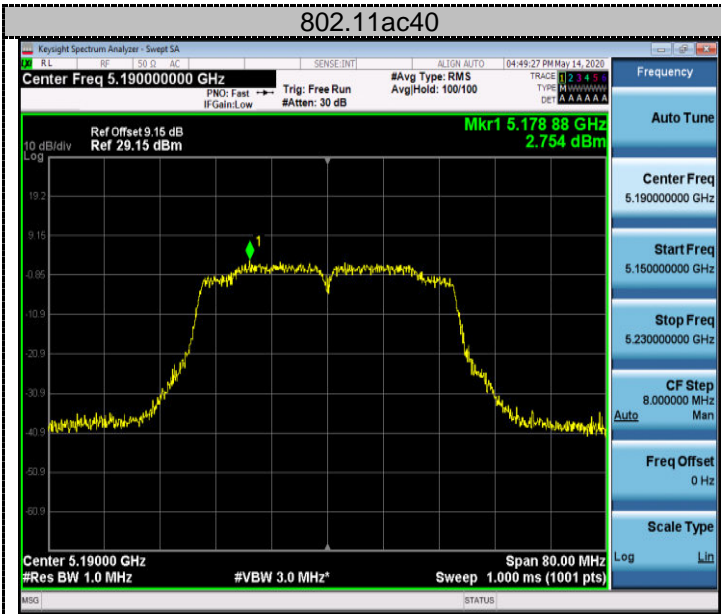
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Antenna 1:  
5150-5250MHz:





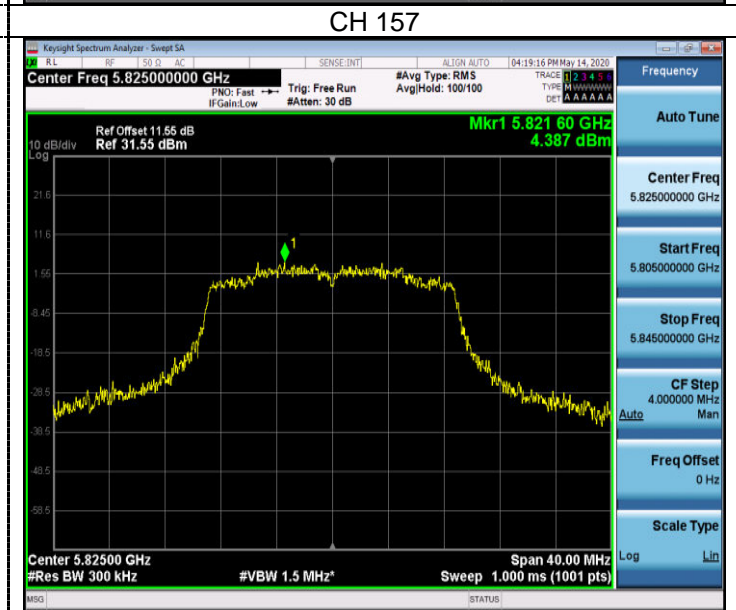
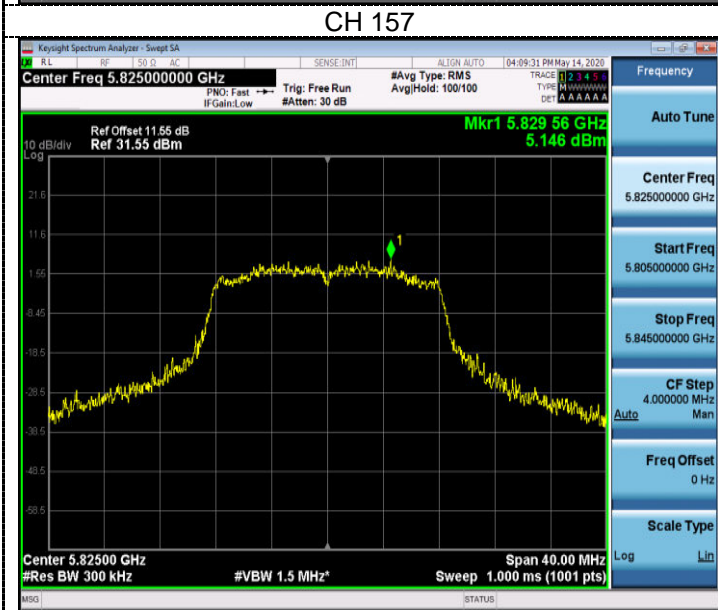
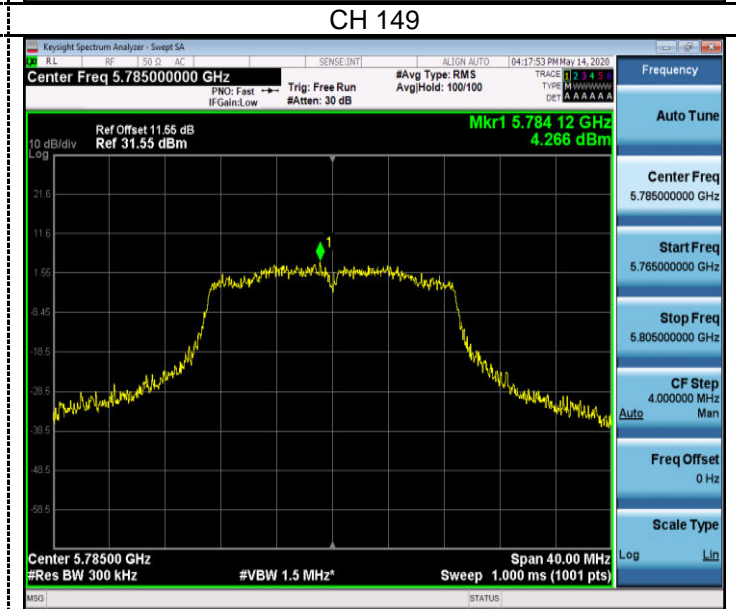
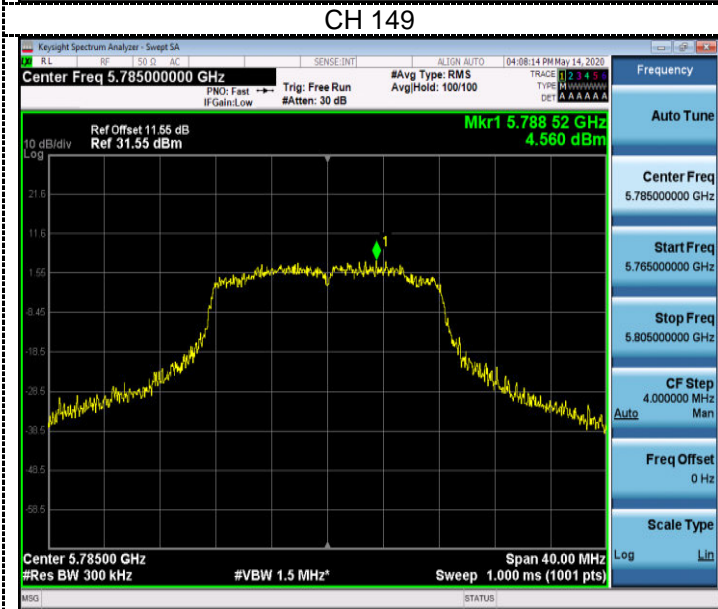
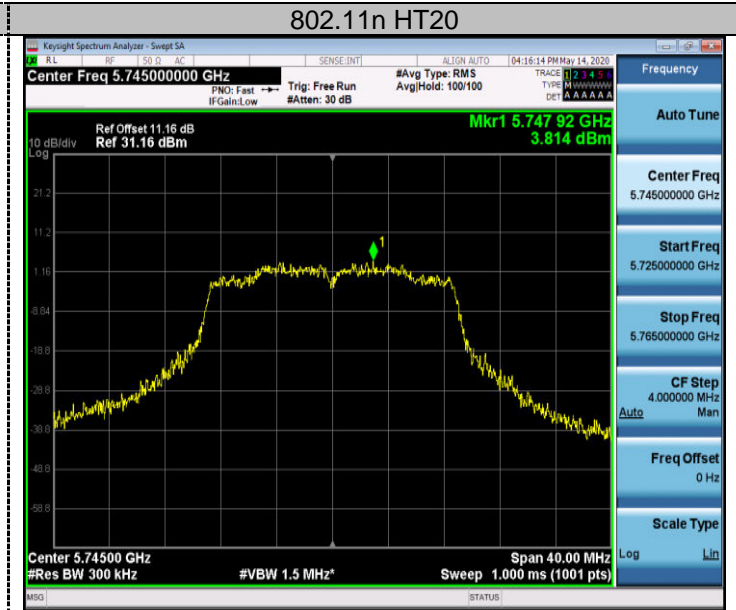
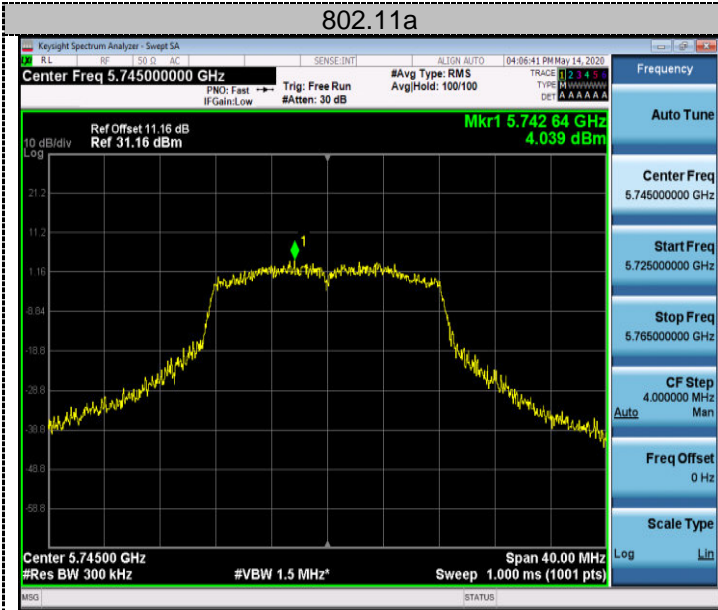
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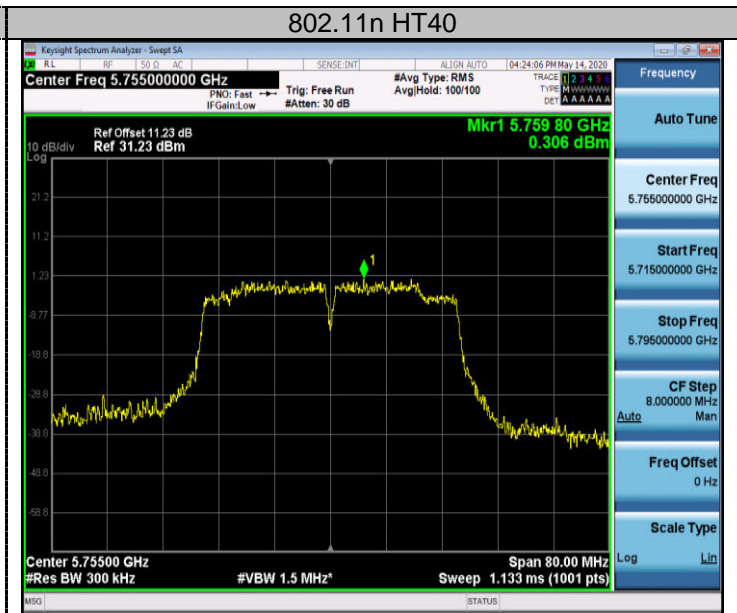
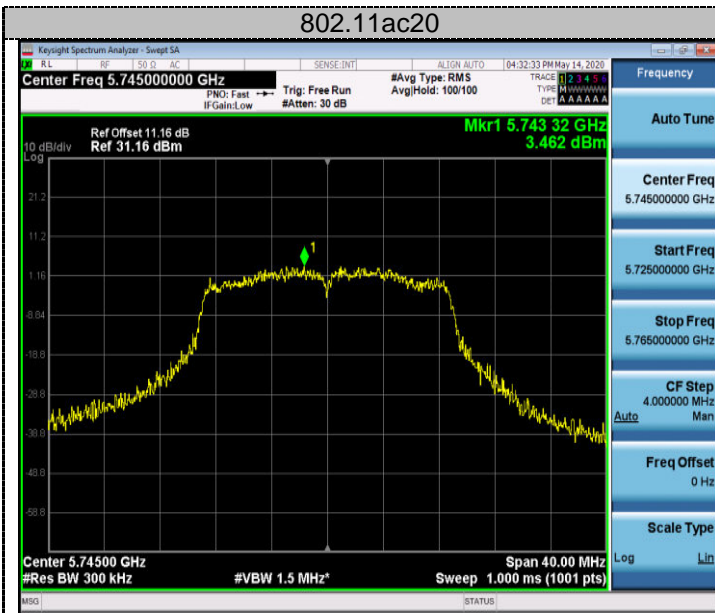


5725-5850MHz:



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CH 165



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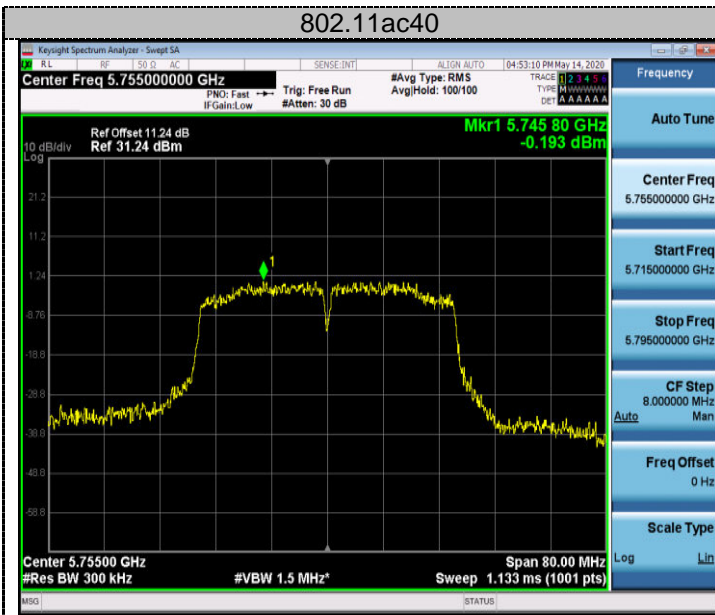


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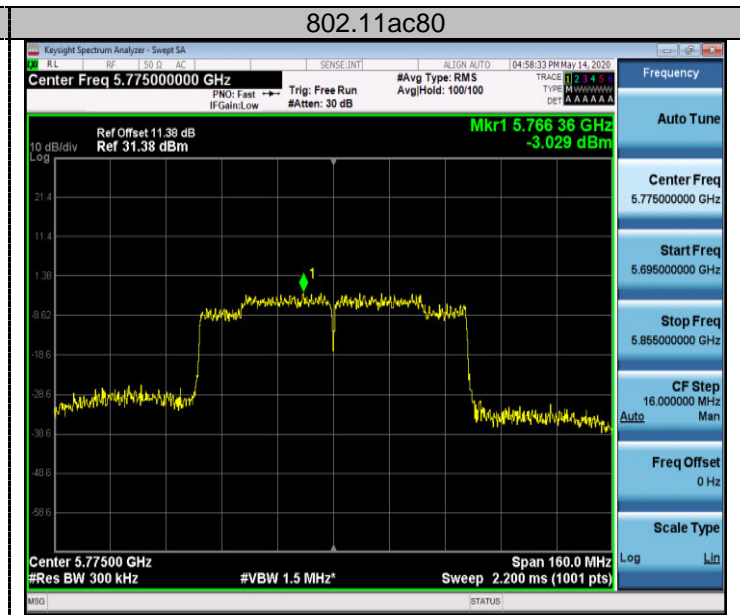
CH 159



CH 165



CH 151



CH 155

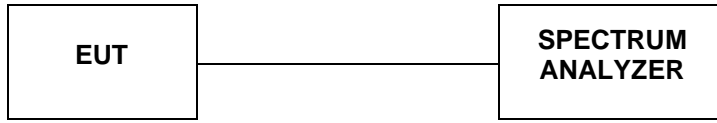


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#### 4.6. 6dB Bandwidth

##### TEST CONFIGURATION



##### TEST PROCEDURE

According to KDB789033 D02 General UNII Test Procedures New Rules v01 for one of the following procedures may be used for section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a. Set RBW = 100 kHz.
- b. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Sweep = auto couple.
- f. Allow the trace to stabilize
- g. 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.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

##### LIMIT

For Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz

##### TEST RESULTS

Temperature	24.2°C	Humidity	54.9%
Test Engineer	Moon Tan	Configurations	IEEE 802.11a/n/ac

**Antenna 0:**

Type	Channel	99%Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	149	16.879	15.200	≥500	Pass
	157	16.891	15.200		
	165	16.904	15.200		
802.11nHT20	149	17.979	15.160	≥500	Pass
	157	18.036	15.160		
	165	18.051	15.160		
802.11ac20	149	18.046	15.200	≥500	Pass
	157	18.018	15.160		
	165	18.027	15.200		
802.11n40	151	36.282	35.280	≥500	Pass
	159	36.391	35.280		
802.11ac40	151	36.258	35.280	≥500	Pass
	159	36.360	35.280		
802.11ac80	155	75.765	75.520	≥500	Pass

**Antenna 1:**

Type	Channel	99%Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	149	16.919	15.120	≥500	Pass
	157	16.871	15.120		
	165	16.922	15.560		
802.11nHT20	149	18.033	13.960	≥500	Pass
	157	18.075	15.160		
	165	18.020	15.160		
802.11ac20	149	18.022	15.080	≥500	Pass
	157	18.050	15.200		
	165	18.029	15.160		
802.11n40	151	36.325	35.200	≥500	Pass
	159	36.382	35.280		
802.11ac40	151	36.294	35.280	≥500	Pass
	159	36.392	35.280		
802.11ac80	155	75.794	75.520	≥500	Pass

Antenna 0:

99%Bandwidth

802.11a

802.11n HT20



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CH149



CH157

CH157



CH165

CH165

99%Bandwidth

802.11ac20



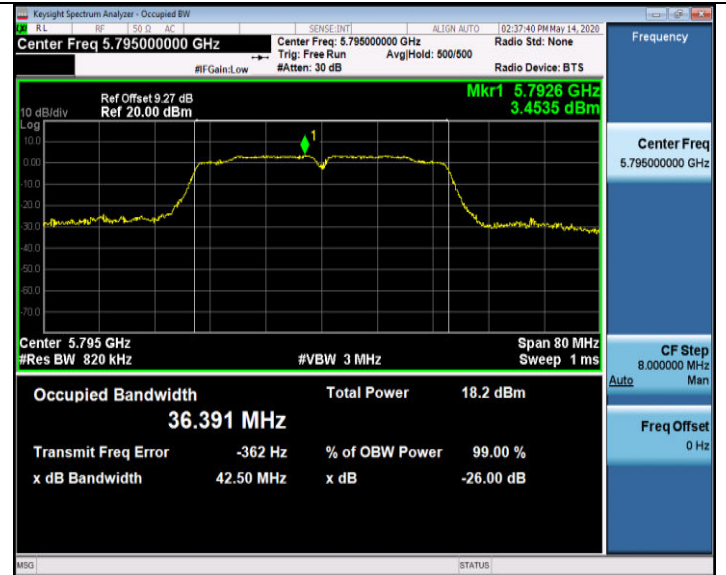
802.11n HT40



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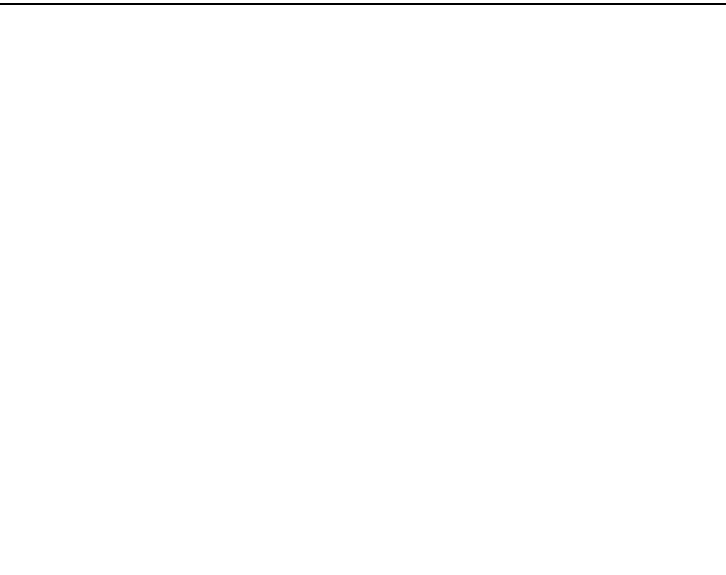
CH151



CH157



CH159

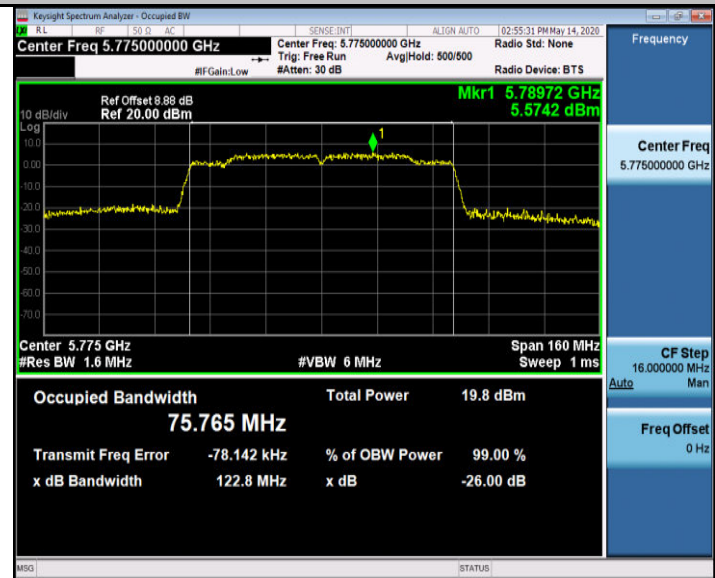
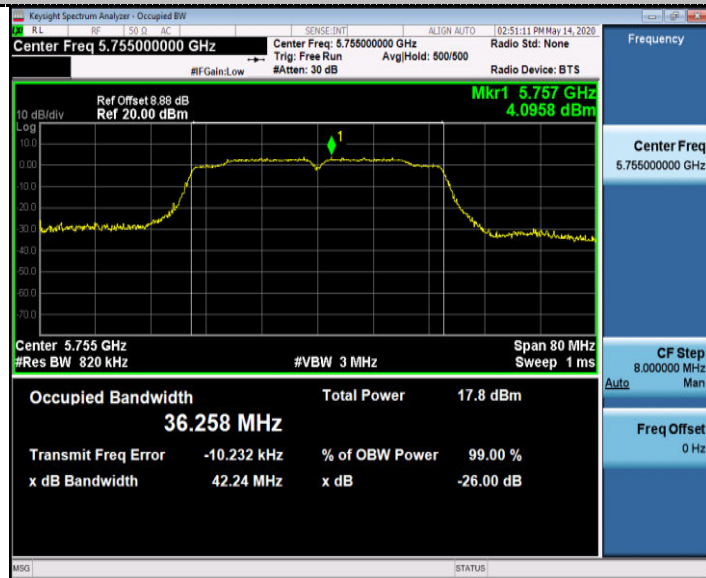


CH165

99%Bandwidth

802.11ac40

802.11ac80



CH151

CH155



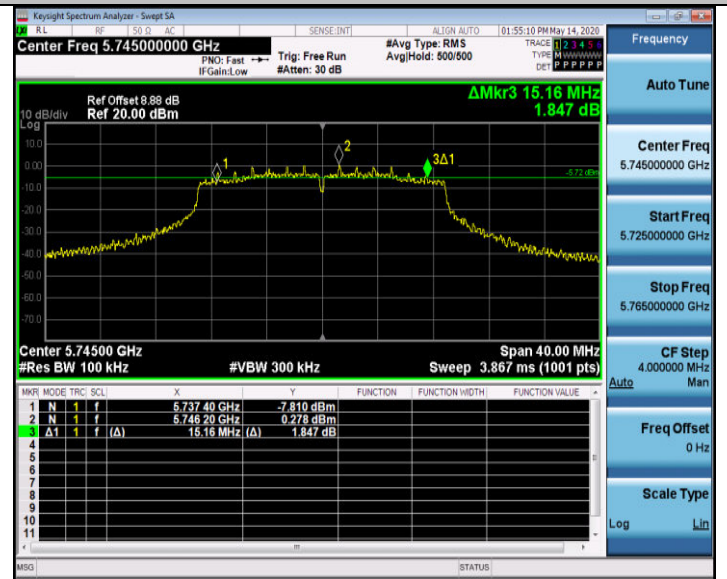
CH159



6dB Bandwidth

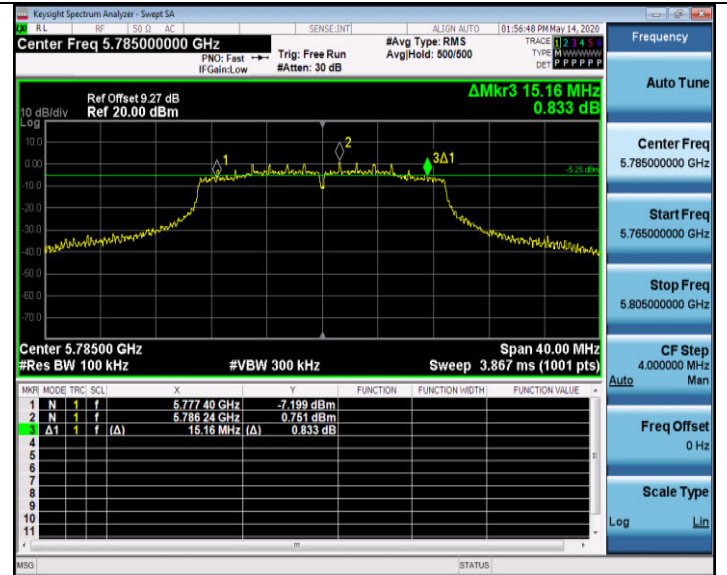
802.11a

802.11n HT20



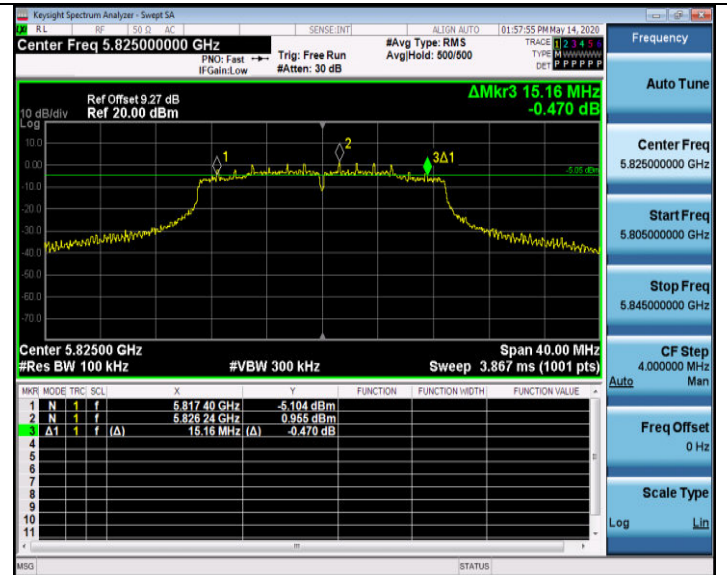
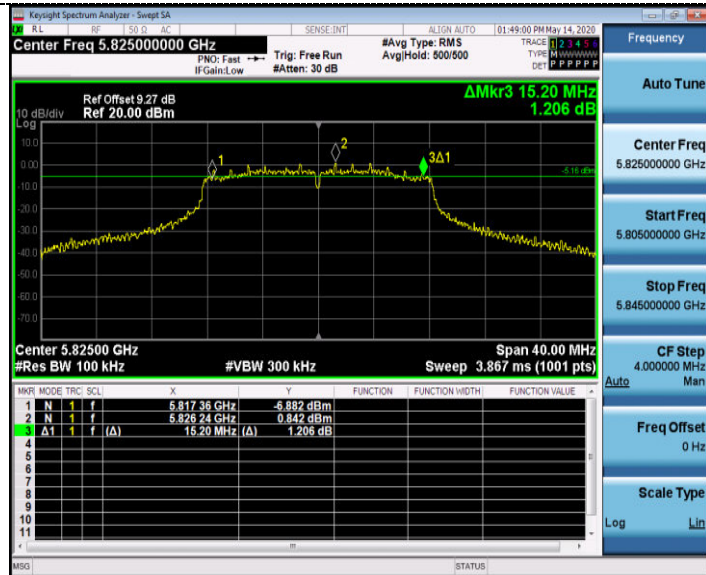
CH149

CH149



CH157

CH157



CH165

CH165