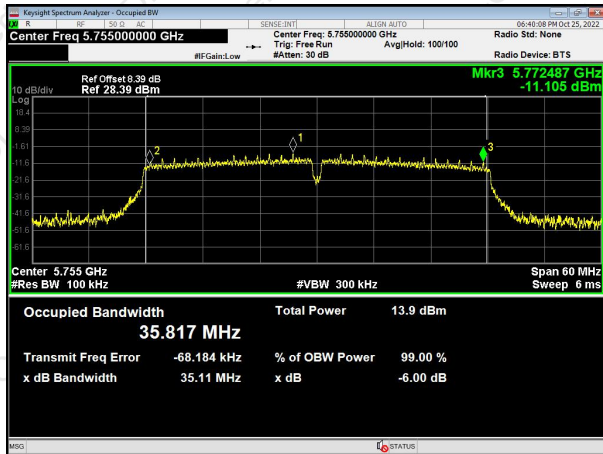
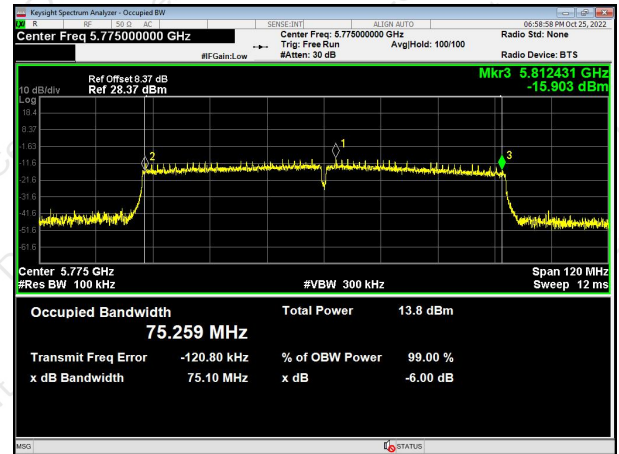




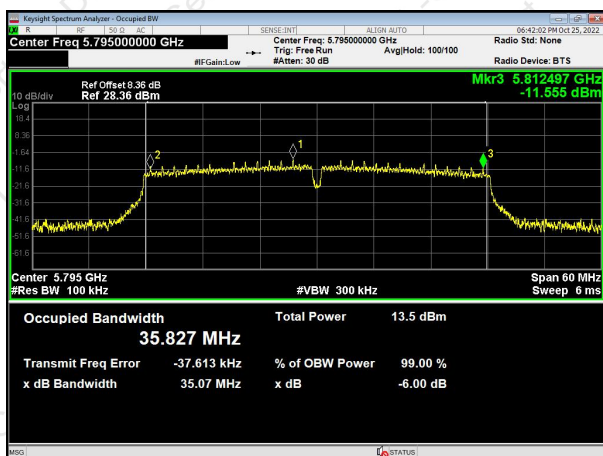
## 802.11n HT40



## 802.11ac HT80



## 5755MHz



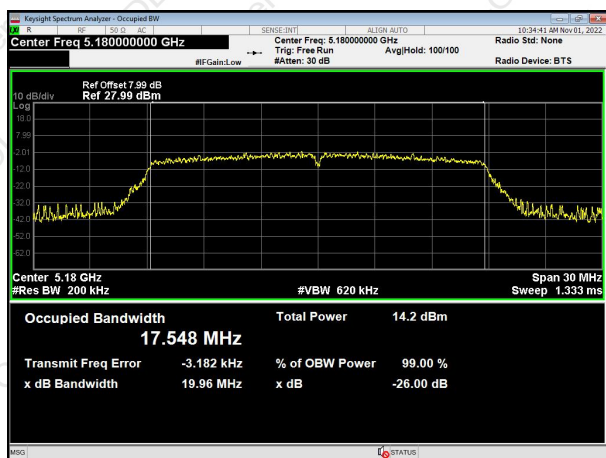
## 5775MHz

## 5795MHz

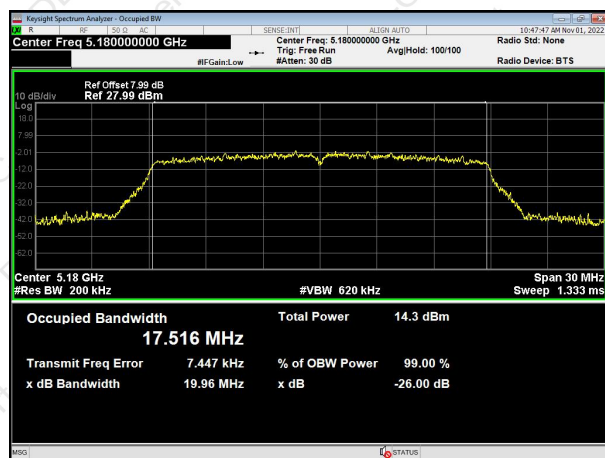


## Antenna 2:

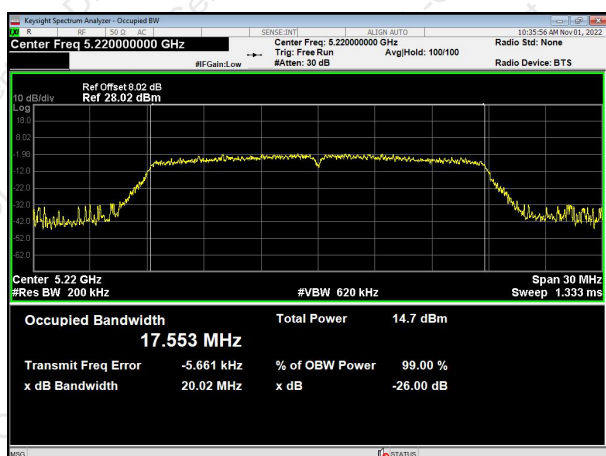
802.11a



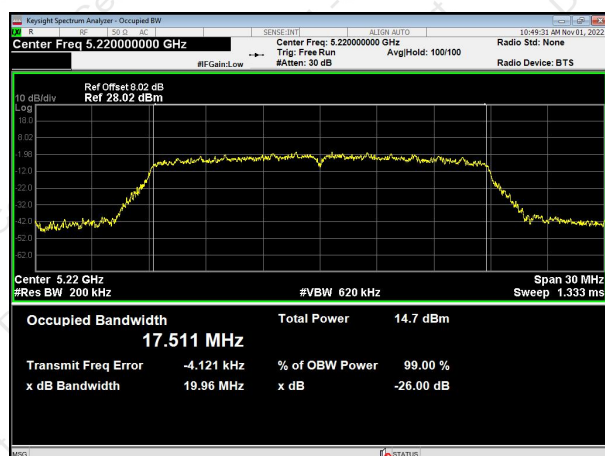
802.11ac HT20



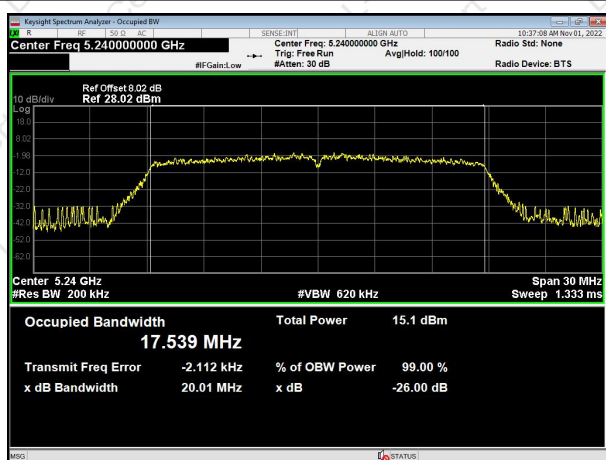
5180MHz



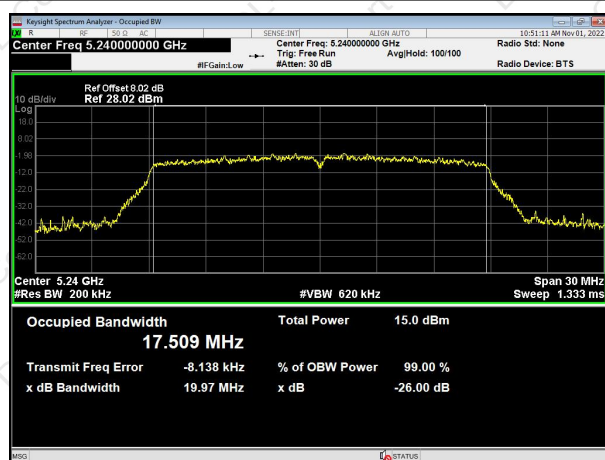
5180MHz



5200MHz



5200MHz

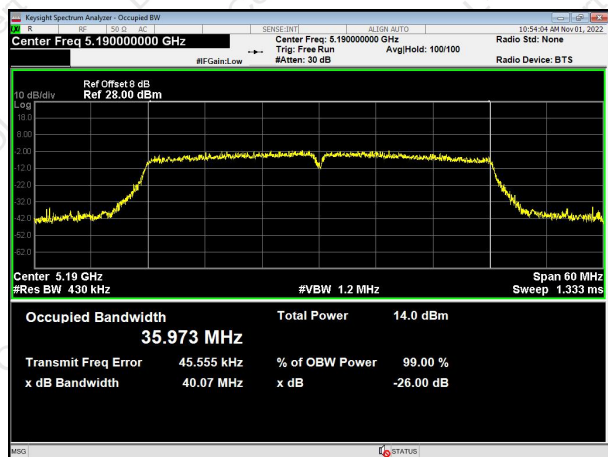


5240MHz

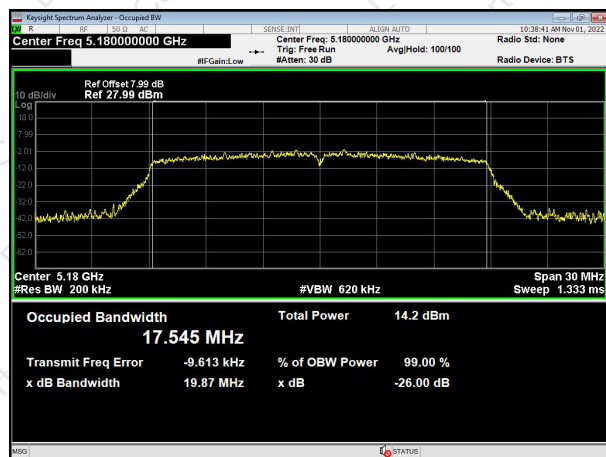
5240MHz



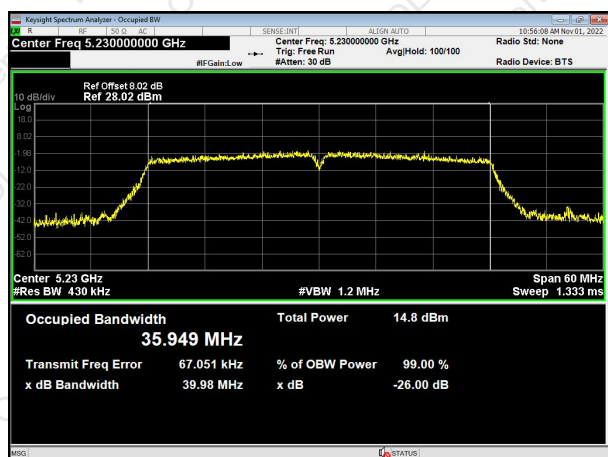
## 802.11ac HT40



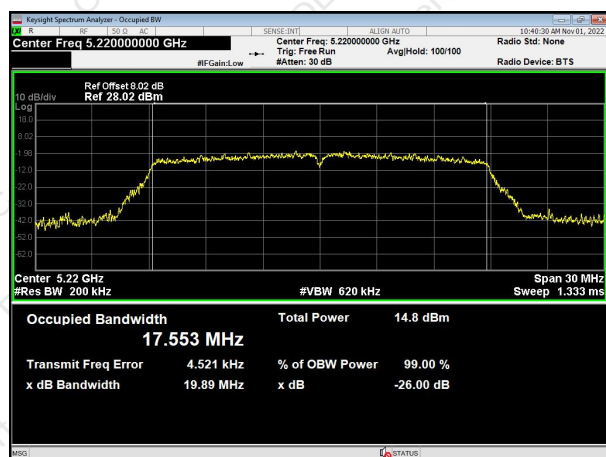
## 802.11n HT20



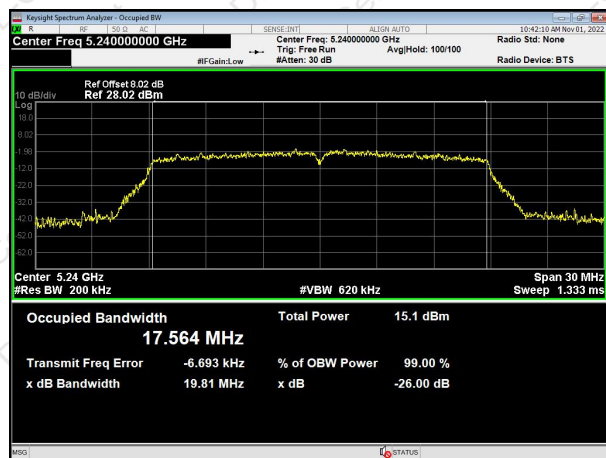
## 5190MHz



## 5180MHz



## 5230MHz

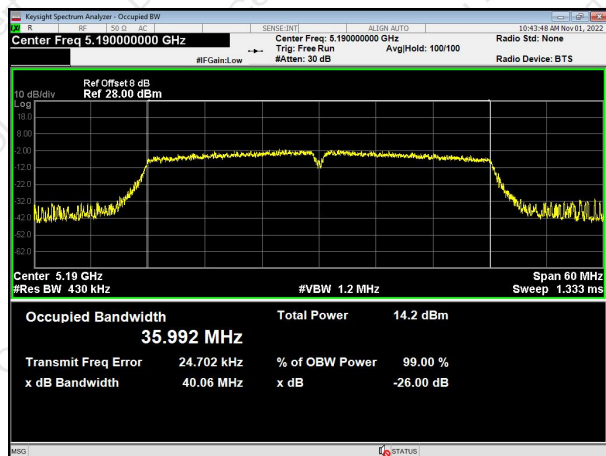


## 5200MHz

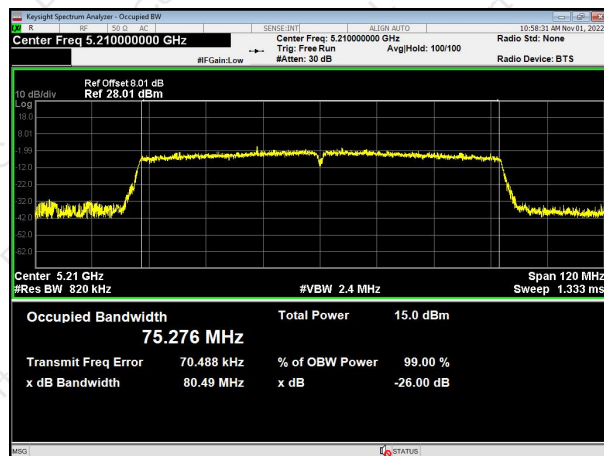
## 5240MHz



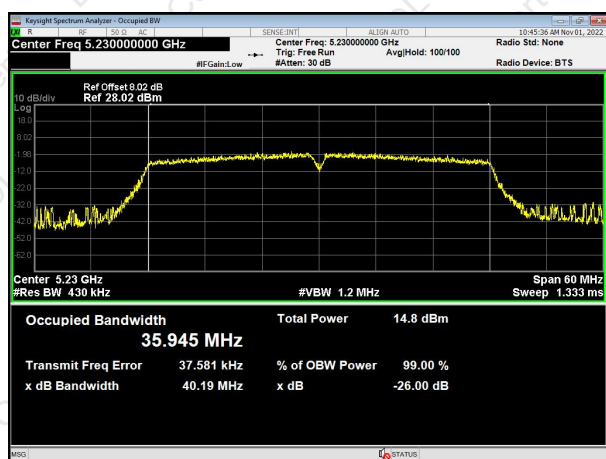
## 802.11n HT40



## 802.11ac HT80



## 5190MHz



## 5210MHz

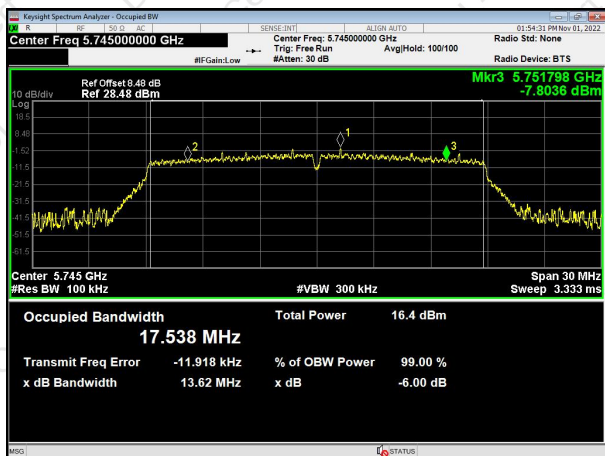


## 5230MHz

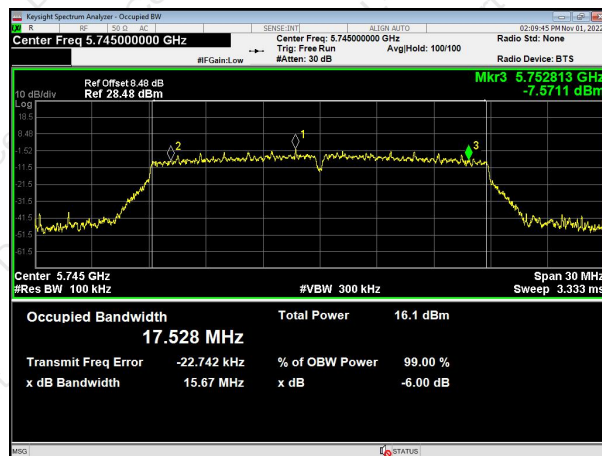




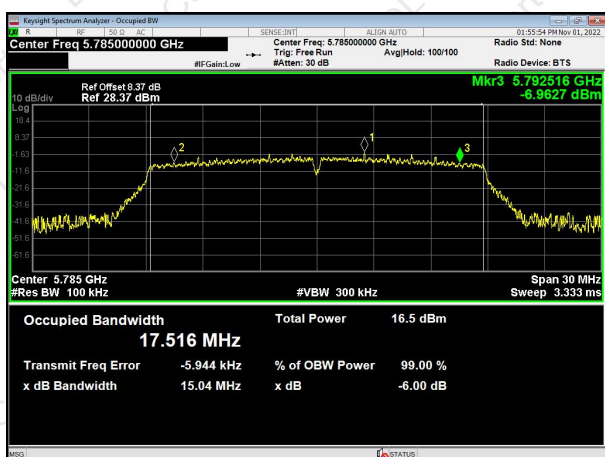
802.11a



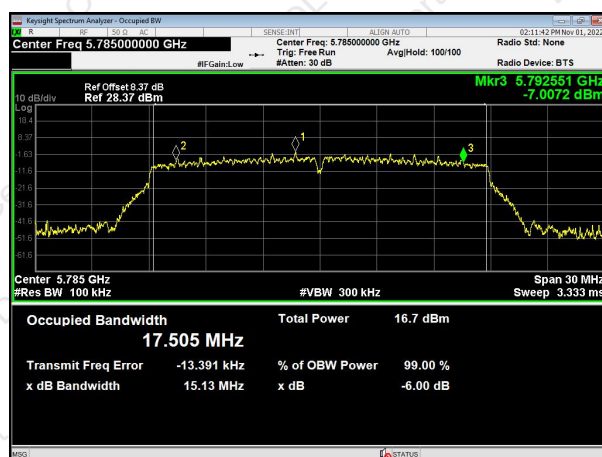
802.11ac HT20



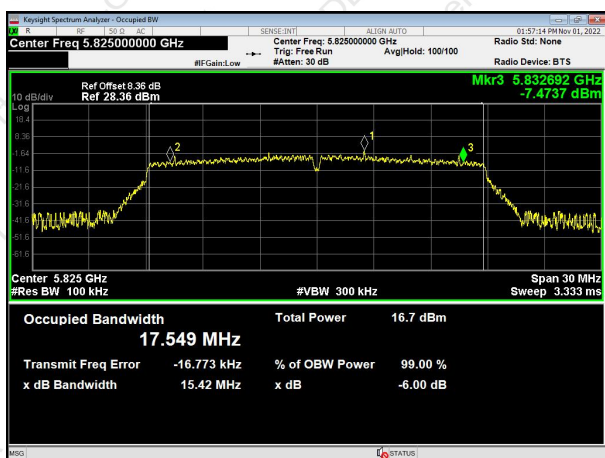
5745MHz



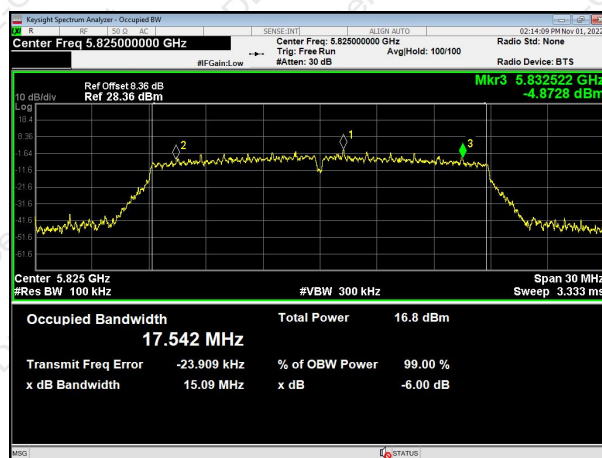
5745MHz



5785MHz



5785MHz

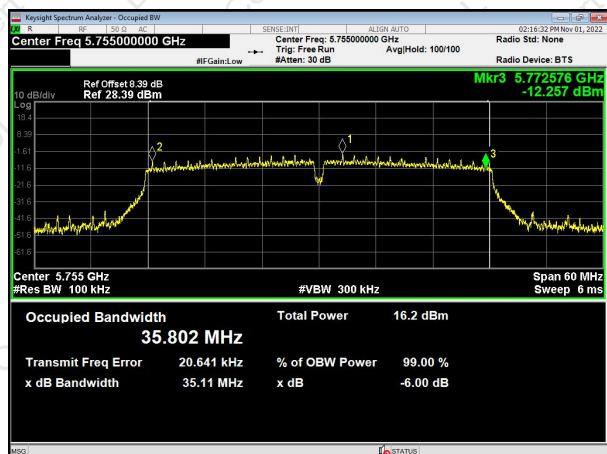


5825MHz

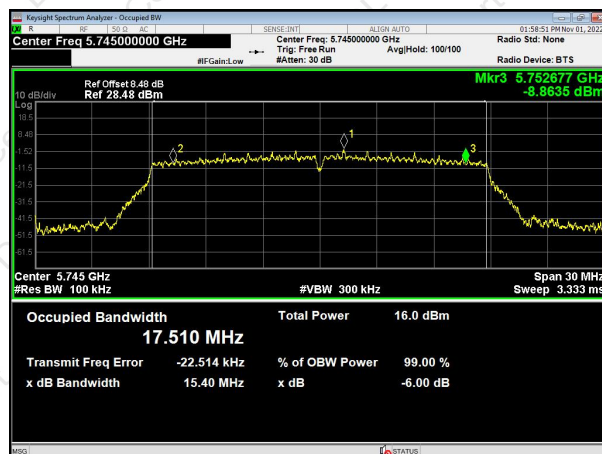
5825MHz



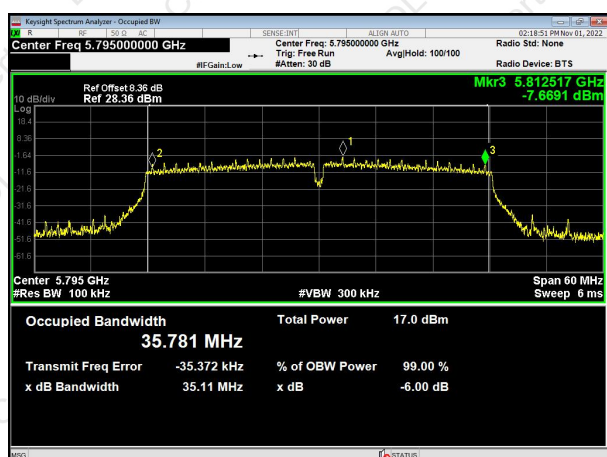
802.11ac HT40



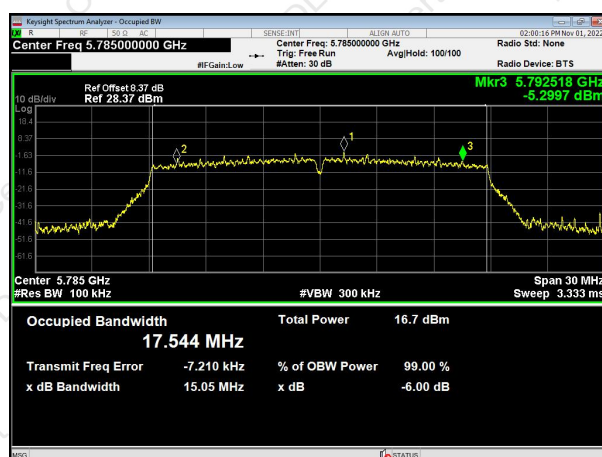
802.11n HT20



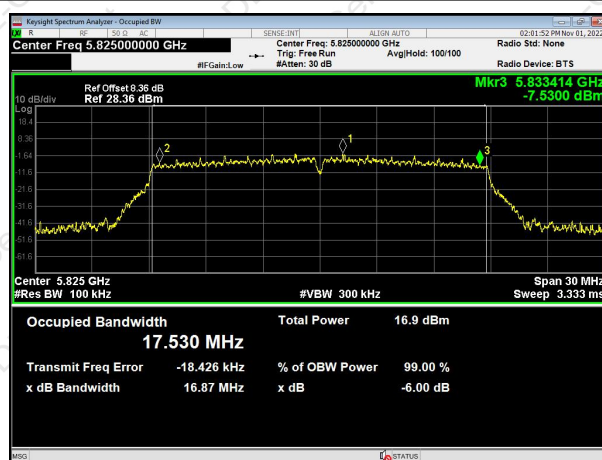
5755MHz



5745MHz



5795MHz

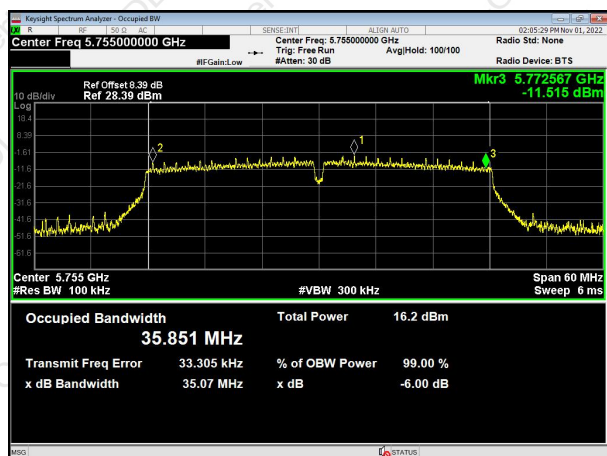


5785MHz

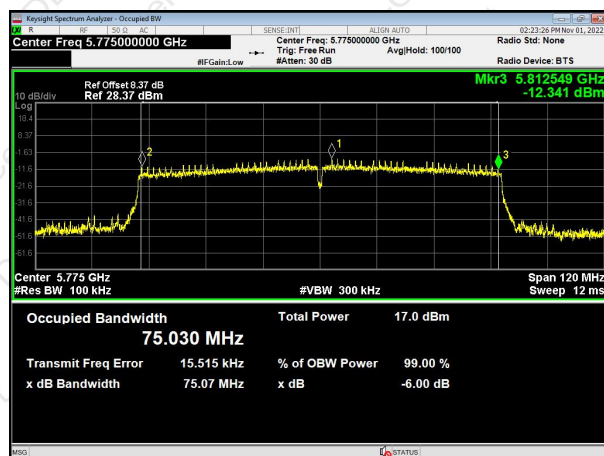
5825MHz



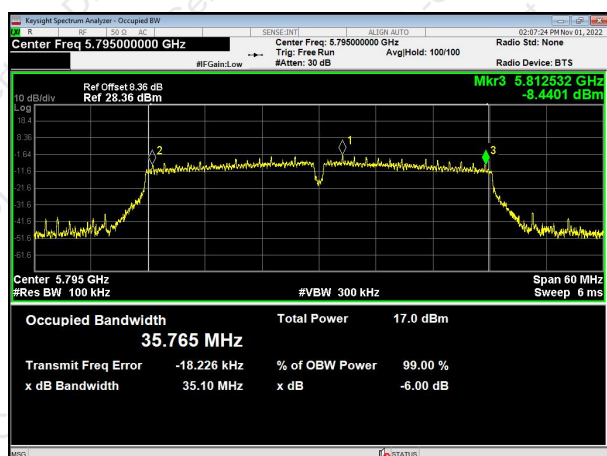
## 802.11n HT40



## 802.11ac HT80



## 5755MHz



## 5775MHz

## 5795MHz



## DUTY CYCLE TEST SIGNAL

### APPLIED PROCEDURES / LIMIT

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

### TEST PROCEDURE

1. Set RBW = 1 MHz.
2. Set the video bandwidth (VBW)  $\geq$  RBW.
3. Detector = Peak.
4. Sweep = auto couple.
5. Allow the trace to stabilize.
6. Span=0

### DEVIATION FROM STANDARD

No deviation.

### TEST SETUP



### EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

**TEST RESULTS****Antenna 1:**

| Operation Mode |                 | Duty Cycle(%) | Duty Fator (dB)<br>$10 * \log (1/ \text{Duty cycle})$ |
|----------------|-----------------|---------------|-------------------------------------------------------|
| Band 1         | 802.11a         | 97.60         | 0.11                                                  |
|                | 802.11ac (HT20) | 92.05         | 0.36                                                  |
|                | 802.11ac (HT40) | 86.56         | 0.63                                                  |
|                | 802.11n(HT20)   | 95.42         | 0.20                                                  |
|                | 802.11n(HT40)   | 88.14         | 0.55                                                  |
|                | 802.11ac(HT80)  | 91.36         | 0.39                                                  |
| Band 4         | 802.11a         | 97.49         | 0.11                                                  |
|                | 802.11ac (HT20) | 91.71         | 0.38                                                  |
|                | 802.11ac (HT40) | 88.54         | 0.53                                                  |
|                | 802.11n(HT20)   | 95.2          | 0.21                                                  |
|                | 802.11n(HT40)   | 91.25         | 0.40                                                  |
|                | 802.11ac(HT80)  | 90.95         | 0.41                                                  |

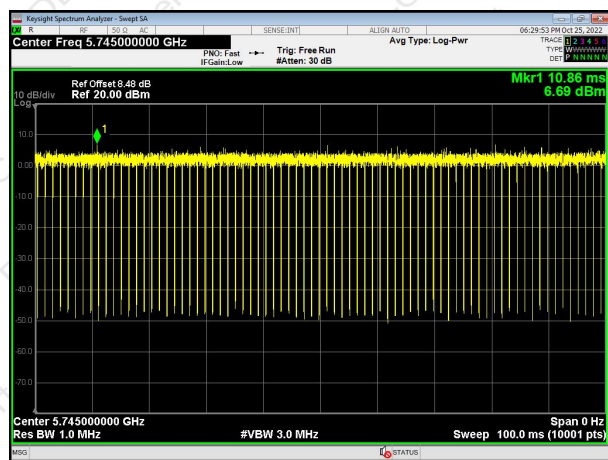
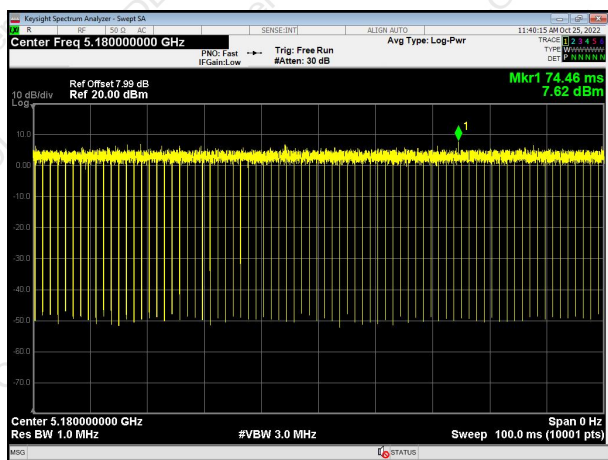
**Antenna 2:**

| Operation Mode |                 | Duty Cycle(%) | Duty Fator (dB)<br>$10 * \log (1/ \text{Duty cycle})$ |
|----------------|-----------------|---------------|-------------------------------------------------------|
| Band 1         | 802.11a         | 97.53         | 0.11                                                  |
|                | 802.11ac (HT20) | 93.56         | 0.29                                                  |
|                | 802.11ac (HT40) | 88.74         | 0.52                                                  |
|                | 802.11n(HT20)   | 95.37         | 0.21                                                  |
|                | 802.11n(HT40)   | 95.18         | 0.21                                                  |
|                | 802.11ac(HT80)  | 81.86         | 0.87                                                  |
| Band 4         | 802.11a         | 97.60         | 0.11                                                  |
|                | 802.11ac (HT20) | 93.63         | 0.29                                                  |
|                | 802.11ac (HT40) | 88.72         | 0.52                                                  |
|                | 802.11n(HT20)   | 95.32         | 0.21                                                  |
|                | 802.11n(HT40)   | 91.34         | 0.39                                                  |
|                | 802.11ac(HT80)  | 81.84         | 0.87                                                  |

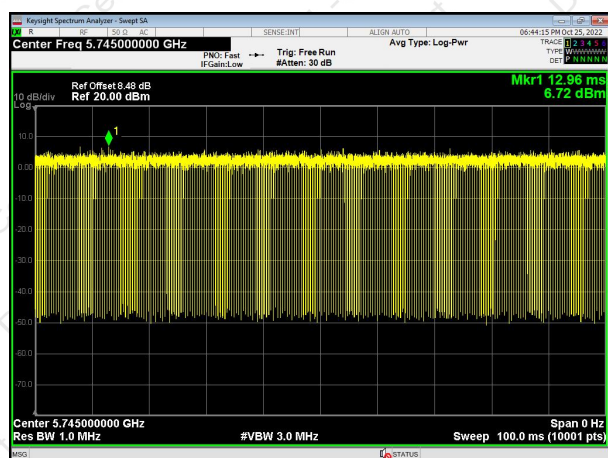
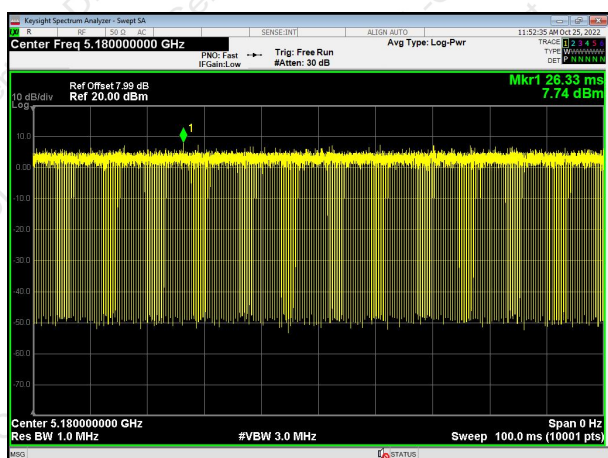


## Antenna 1:

## 802.11a



## 802.11ac HT20



## 802.11ac HT40

