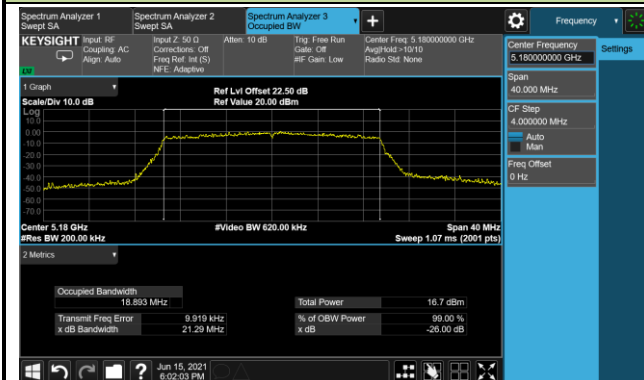
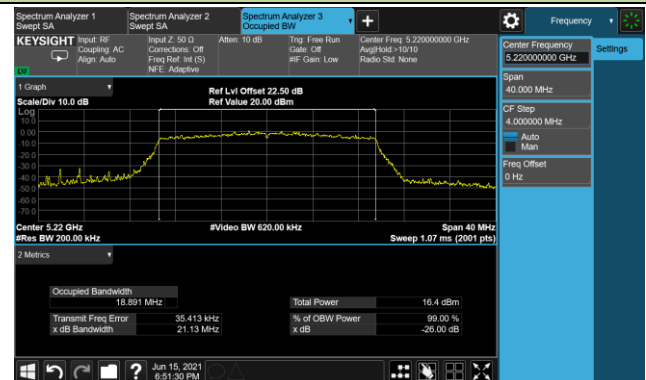


## 802.11ax-HE20 26dB Bandwidth - Ant 0 / Ant 0 + 1

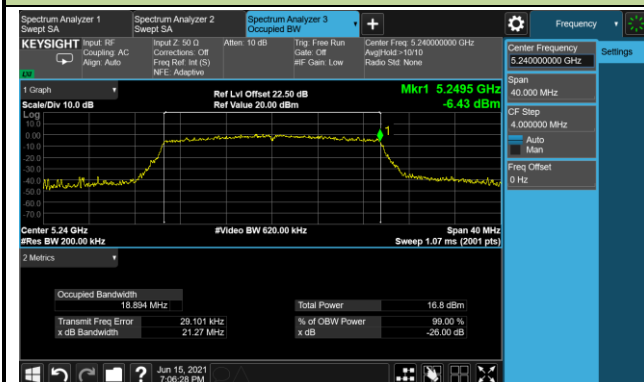
## Channel 36 (5180MHz)



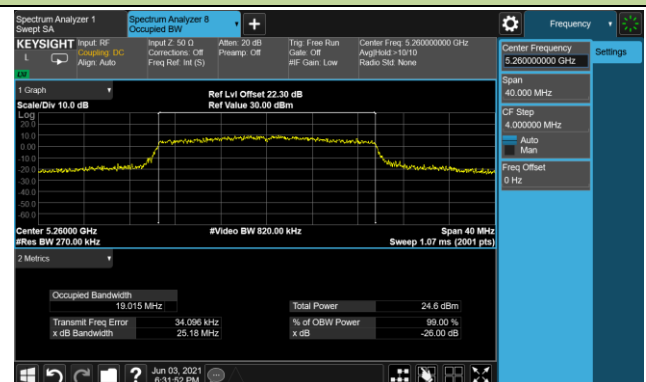
## Channel 44 (5220MHz)



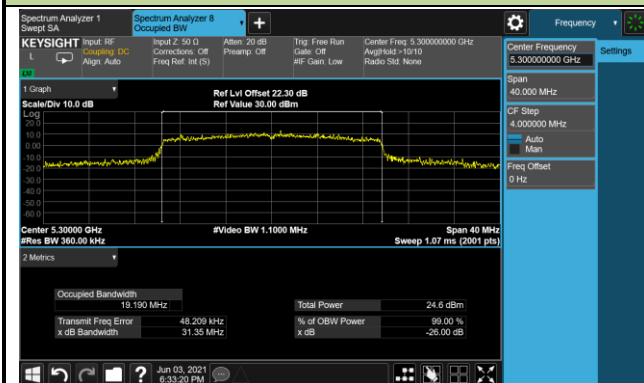
## Channel 48 (5240MHz)



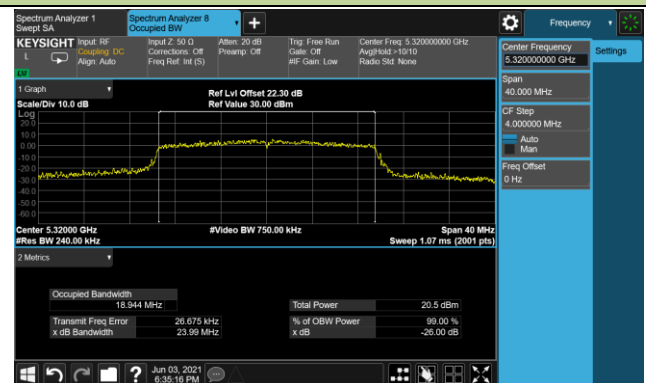
## Channel 52 (5260MHz)



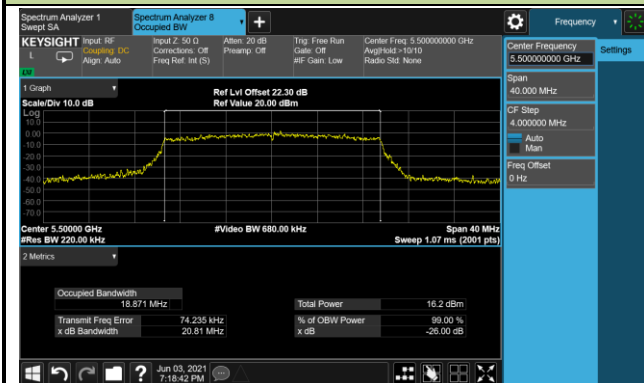
## Channel 60 (5300MHz)



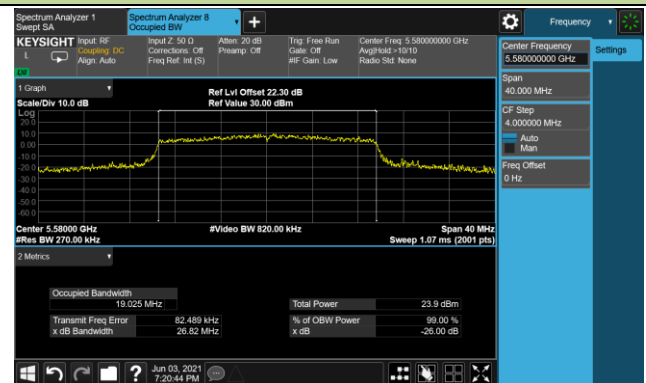
## Channel 64 (5320MHz)



## Channel 100 (5500MHz)

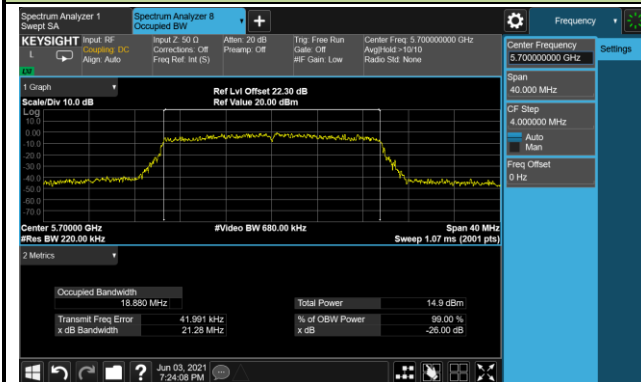


## Channel 116 (5580MHz)

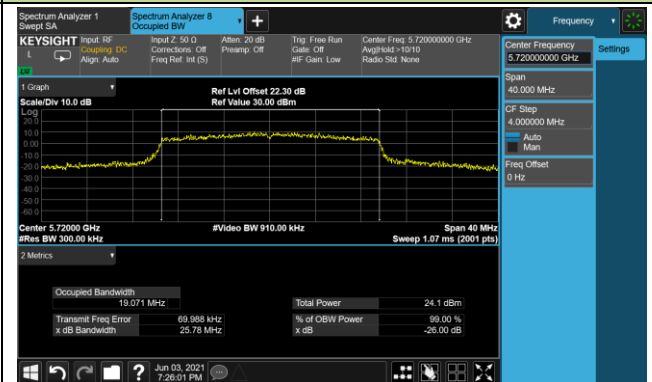


## 802.11ax-HE20 26dB Bandwidth - Ant 0 / Ant 0 + 1

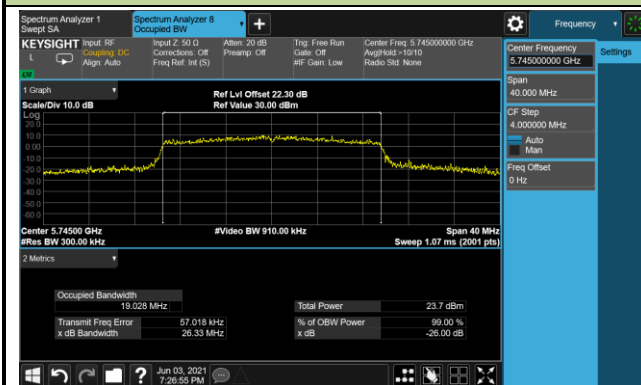
## Channel 140 (5700MHz)



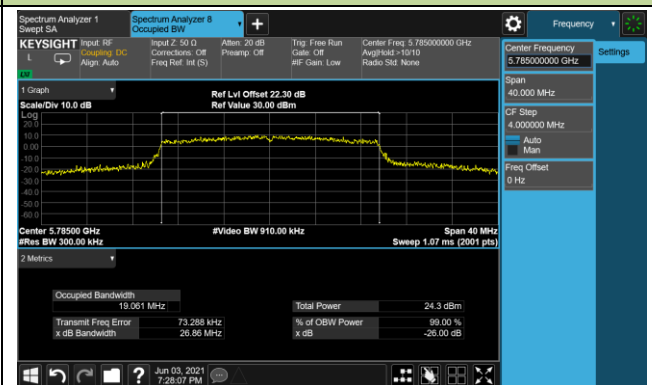
## Channel 144 (5720MHz)



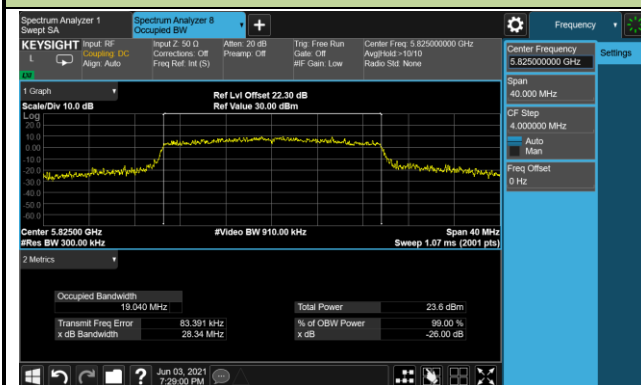
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

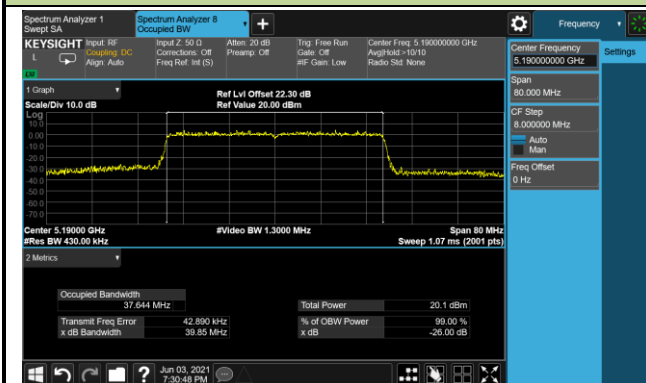


## Channel 165 (5825MHz)

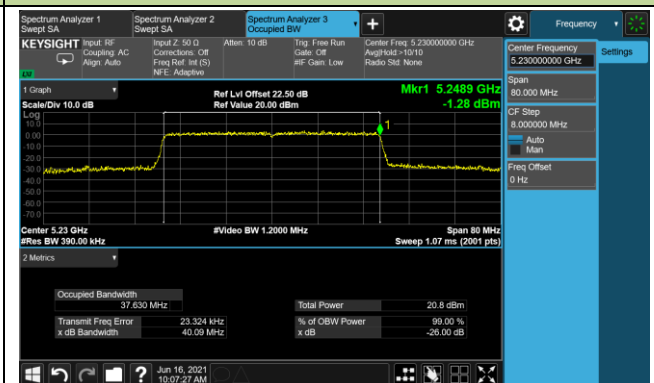


## 802.11ax-HE40 26dB Bandwidth - Ant 0 / Ant 0 + 1

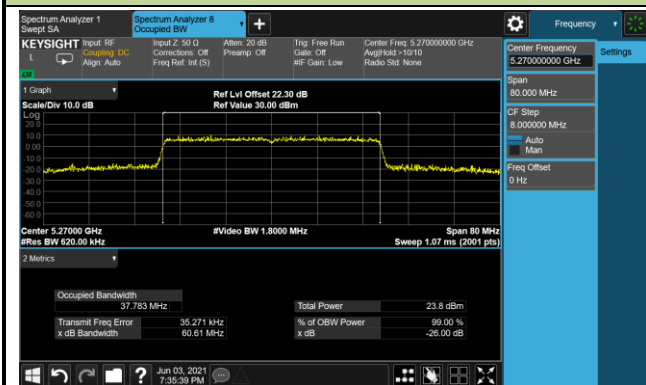
## Channel 38 (5190MHz)



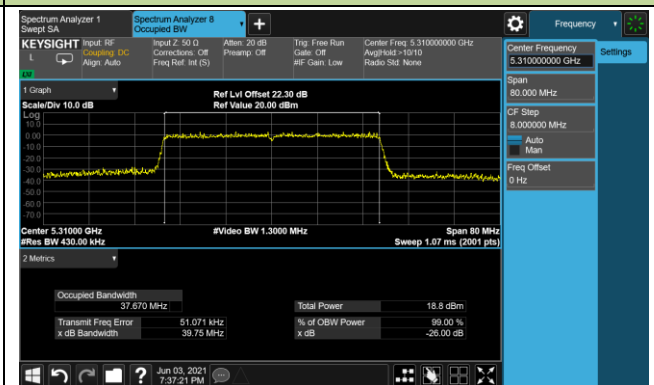
## Channel 46 (5230MHz)



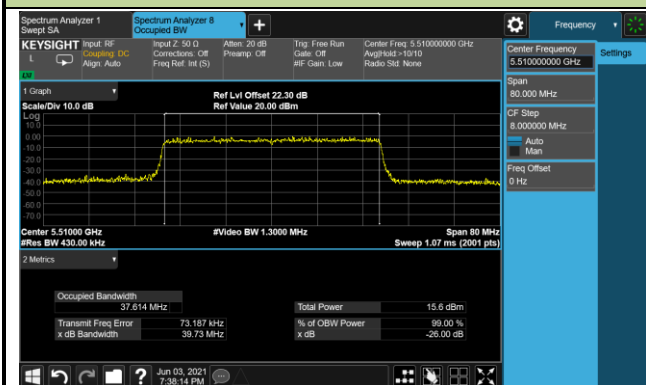
## Channel 54 (5270MHz)



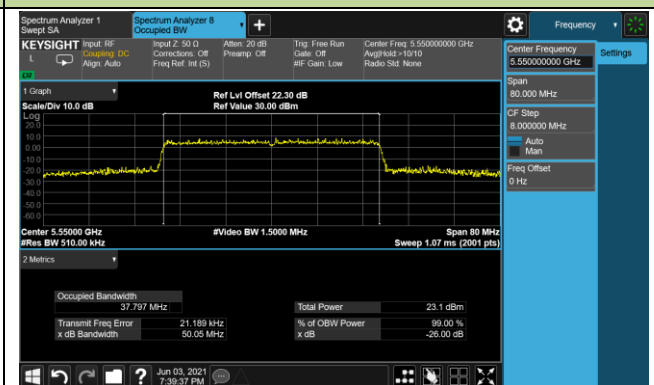
## Channel 62 (5310MHz)



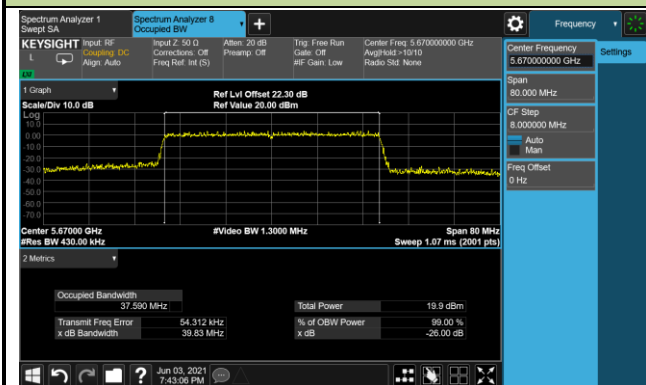
## Channel 102 (5510MHz)



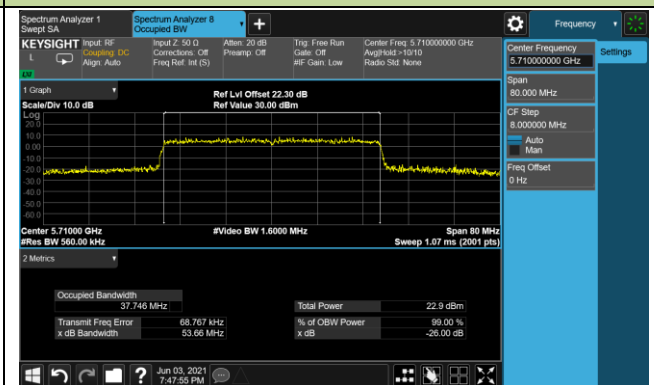
## Channel 110 (5550MHz)



## Channel 134 (5670MHz)

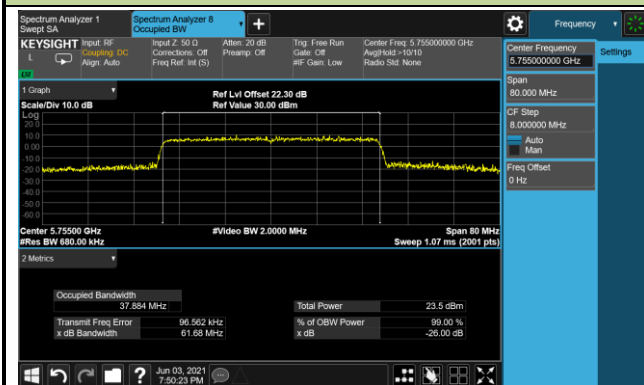


## Channel 142 (5710MHz)

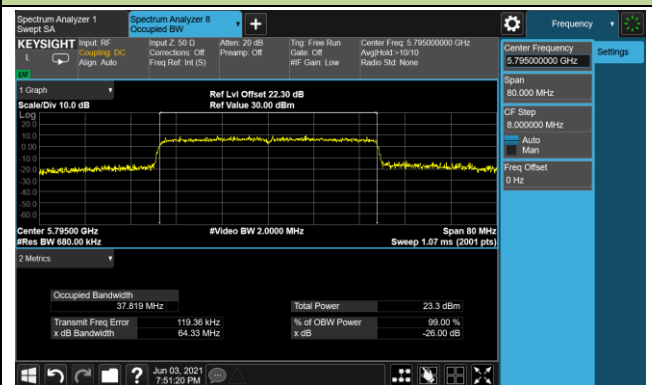


## 802.11ax-HE40 26dB Bandwidth - Ant 0 / Ant 0 + 1

## Channel 151 (5755MHz)

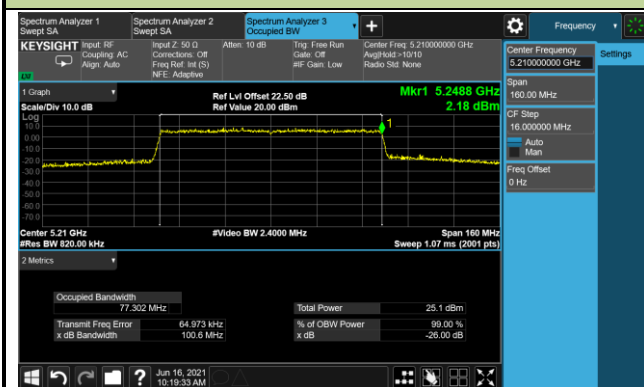


## Channel 159 (5795MHz)

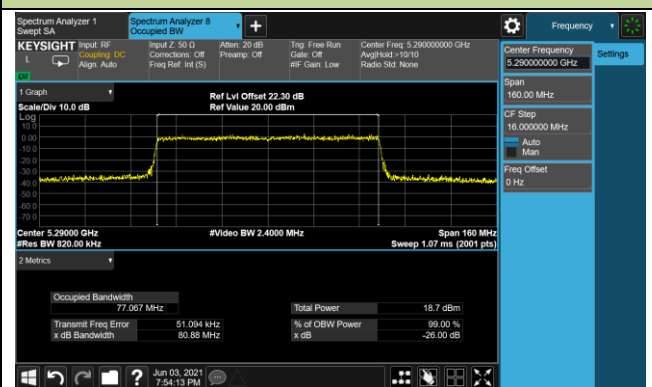


## 802.11ax-HE80 26dB Bandwidth - Ant 0 / Ant 0 + 1

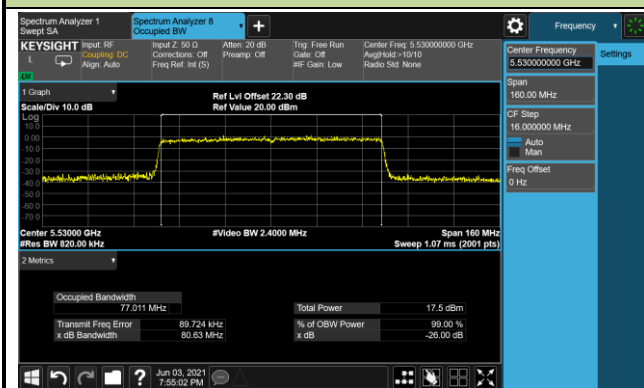
## Channel 42 (5210MHz)



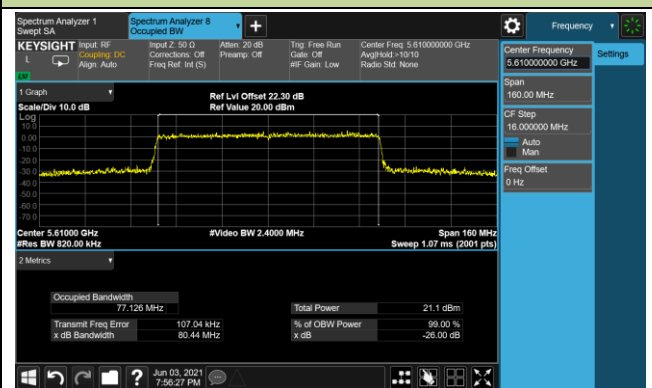
## Channel 58 (5290MHz)



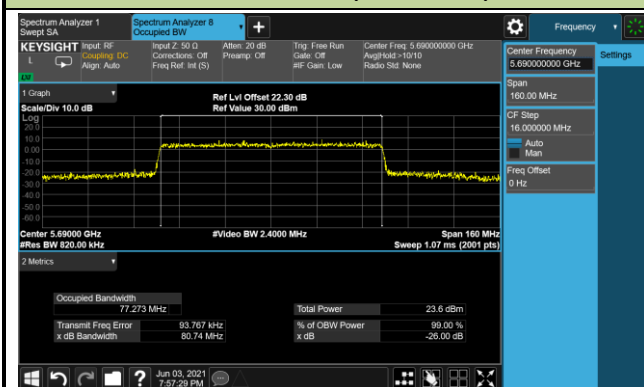
## Channel 106 (5530MHz)



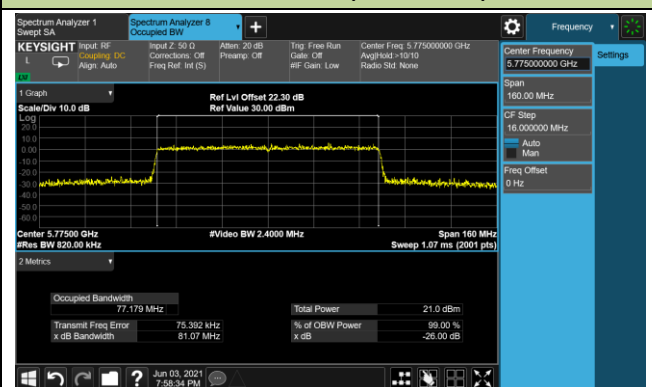
## Channel 122 (5610MHz)



## Channel 138 (5690MHz)



## Channel 155 (5775MHz)



### 6.3. 6dB Bandwidth Measurement

#### 6.3.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

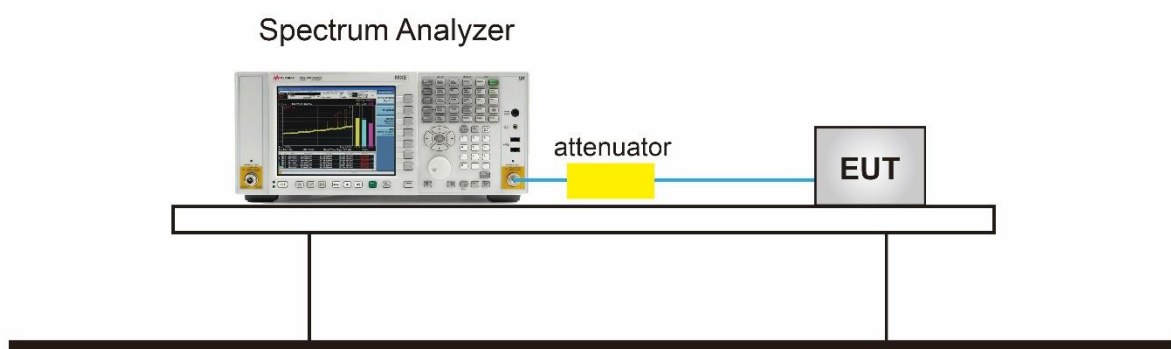
#### 6.3.2. Test Procedure used

KDB 789033 D02v02r01 - Section C.2

#### 6.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW  $\geq 3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. 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.

#### 6.3.4. Test Setup



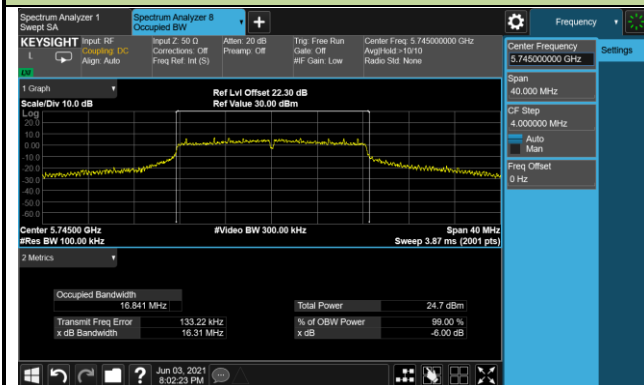
### 6.3.5. Test Result

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-TR3     | Test Engineer | Luis Yang |
| Test Date | 2021/06/03 |               |           |

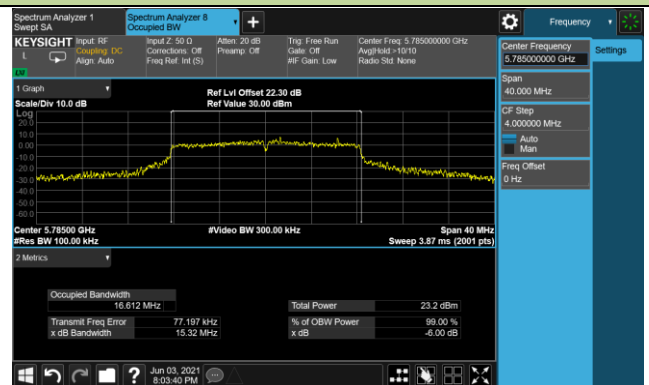
| Test Mode         | Data Rate/<br>MCS | Channel No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(MHz) | Result |
|-------------------|-------------------|-------------|--------------------|------------------------|----------------|--------|
| Ant 0 / Ant 0 + 1 |                   |             |                    |                        |                |        |
| 802.11a           | 6Mbps             | 149         | 5745               | 16.31                  | $\geq 0.5$     | Pass   |
| 802.11a           | 6Mbps             | 157         | 5785               | 15.32                  | $\geq 0.5$     | Pass   |
| 802.11a           | 6Mbps             | 165         | 5825               | 16.35                  | $\geq 0.5$     | Pass   |
| 802.11n-HT20      | MCS0              | 149         | 5745               | 17.18                  | $\geq 0.5$     | Pass   |
| 802.11n-HT20      | MCS0              | 157         | 5785               | 17.57                  | $\geq 0.5$     | Pass   |
| 802.11n-HT20      | MCS0              | 165         | 5825               | 17.53                  | $\geq 0.5$     | Pass   |
| 802.11n-HT40      | MCS0              | 151         | 5755               | 36.33                  | $\geq 0.5$     | Pass   |
| 802.11n-HT40      | MCS0              | 159         | 5795               | 35.40                  | $\geq 0.5$     | Pass   |
| 802.11ac-VHT20    | MCS0              | 149         | 5745               | 17.58                  | $\geq 0.5$     | Pass   |
| 802.11ac-VHT20    | MCS0              | 157         | 5785               | 17.60                  | $\geq 0.5$     | Pass   |
| 802.11ac-VHT20    | MCS0              | 165         | 5825               | 17.59                  | $\geq 0.5$     | Pass   |
| 802.11ac-VHT40    | MCS0              | 151         | 5755               | 35.61                  | $\geq 0.5$     | Pass   |
| 802.11ac-VHT40    | MCS0              | 159         | 5795               | 35.39                  | $\geq 0.5$     | Pass   |
| 802.11ac-VHT80    | MCS0              | 155         | 5775               | 73.87                  | $\geq 0.5$     | Pass   |
| 802.11ax-HE20     | MCS0              | 149         | 5745               | 18.83                  | $\geq 0.5$     | Pass   |
| 802.11ax-HE20     | MCS0              | 157         | 5785               | 13.93                  | $\geq 0.5$     | Pass   |
| 802.11ax-HE20     | MCS0              | 165         | 5825               | 17.25                  | $\geq 0.5$     | Pass   |
| 802.11ax-HE40     | MCS0              | 151         | 5755               | 37.11                  | $\geq 0.5$     | Pass   |
| 802.11ax-HE40     | MCS0              | 159         | 5795               | 37.13                  | $\geq 0.5$     | Pass   |
| 802.11ax-HE80     | MCS0              | 155         | 5775               | 77.19                  | $\geq 0.5$     | Pass   |

## 802.11a 6dB Bandwidth - Ant 0 / Ant 0 + 1

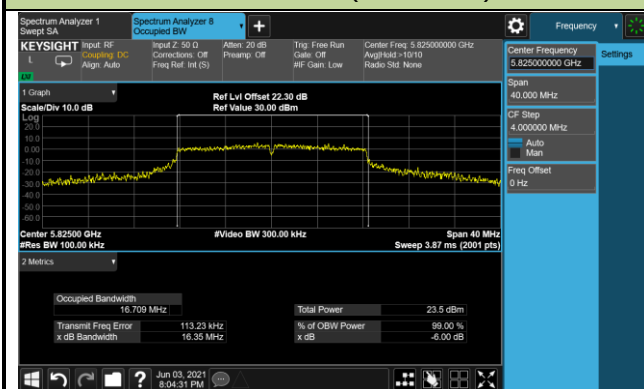
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

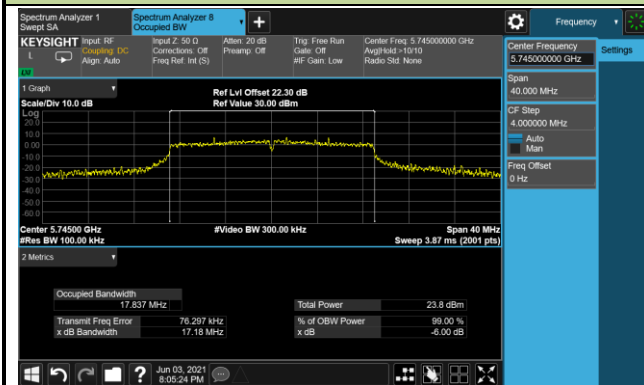


## Channel 165 (5825MHz)

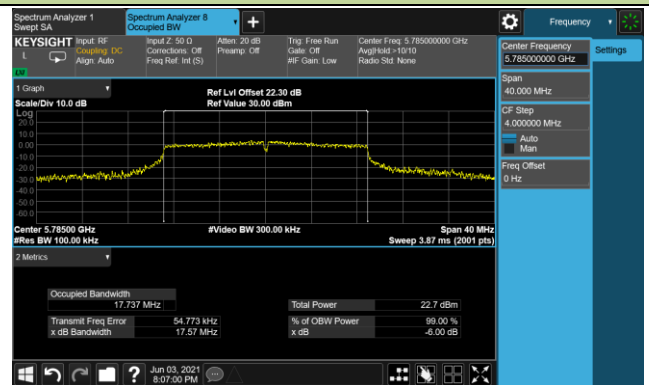


## 802.11n-HT20 6dB Bandwidth - Ant 0 / Ant 0 + 1

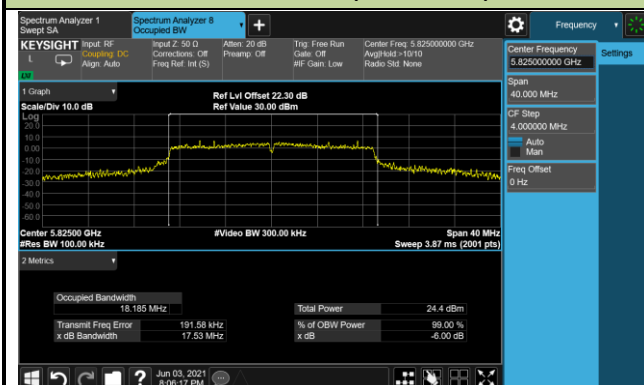
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

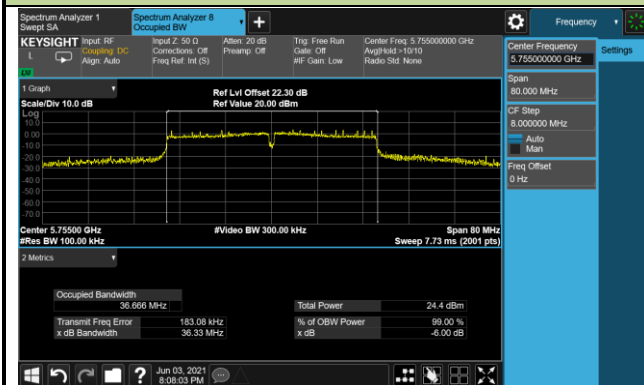


## Channel 165 (5825MHz)

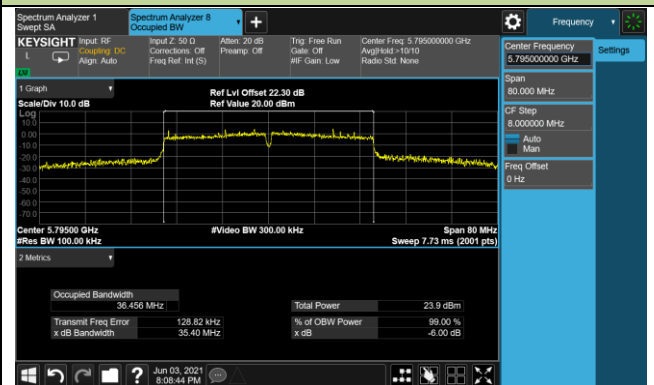


## 802.11n-HT40 6dB Bandwidth - Ant 0 / Ant 0 + 1

## Channel 151 (5755MHz)

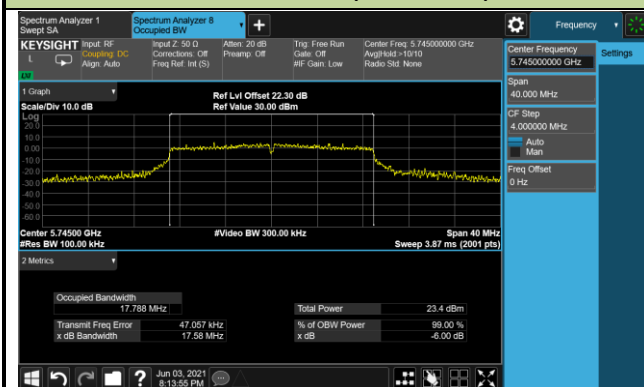


## Channel 159 (5795MHz)

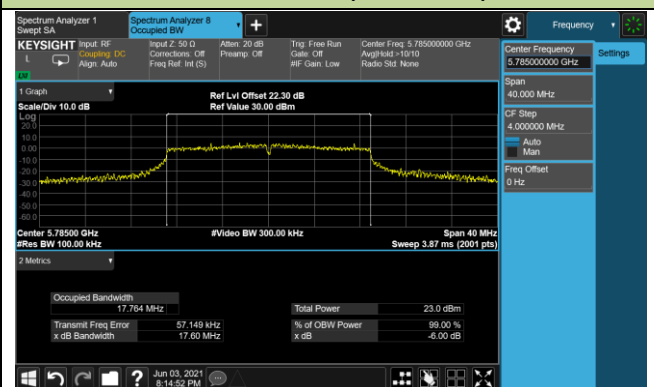


## 802.11ac-VHT20 6dB Bandwidth - Ant 0 / Ant 0 + 1

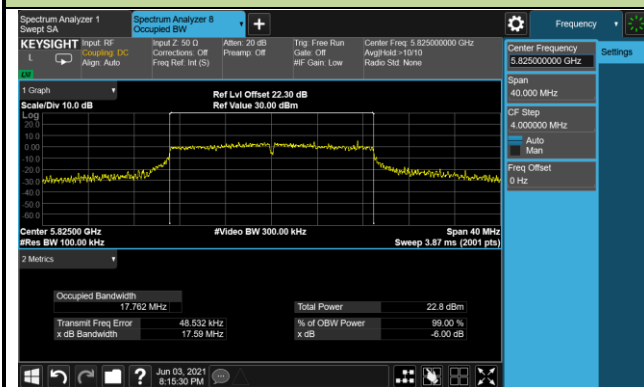
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

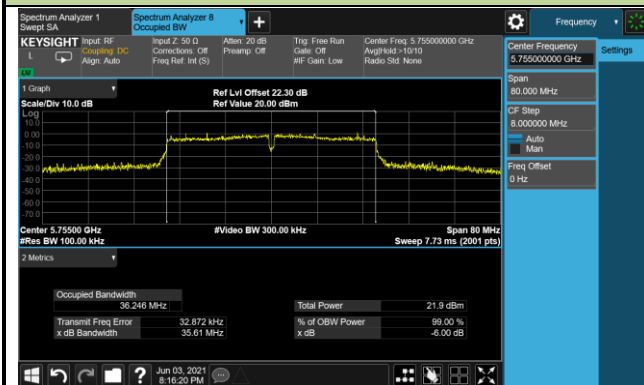


## Channel 165 (5825MHz)

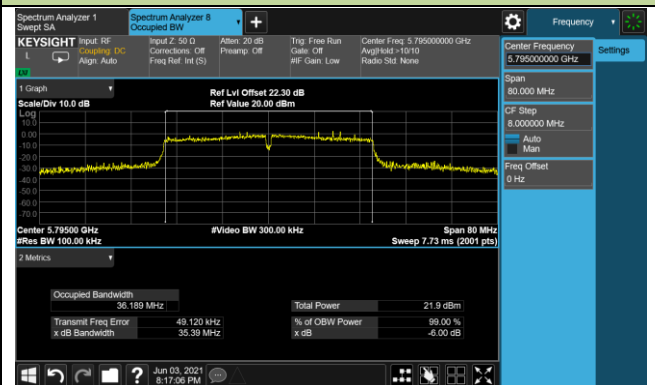


## 802.11ac-VHT40 6dB Bandwidth - Ant 0 / Ant 0 + 1

## Channel 151 (5755MHz)

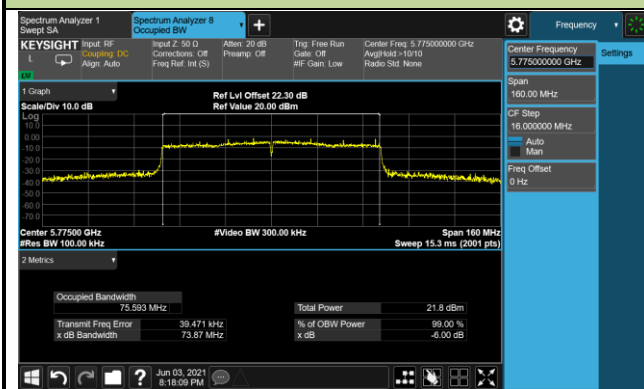


## Channel 159 (5795MHz)



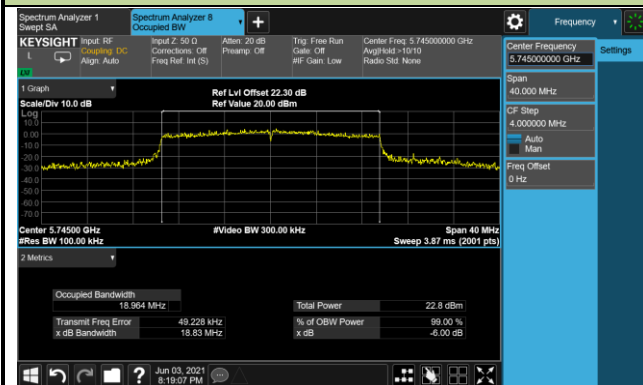
## 802.11ac-VHT80 6dB Bandwidth - Ant 0 / Ant 0 + 1

## Channel 155 (5775MHz)

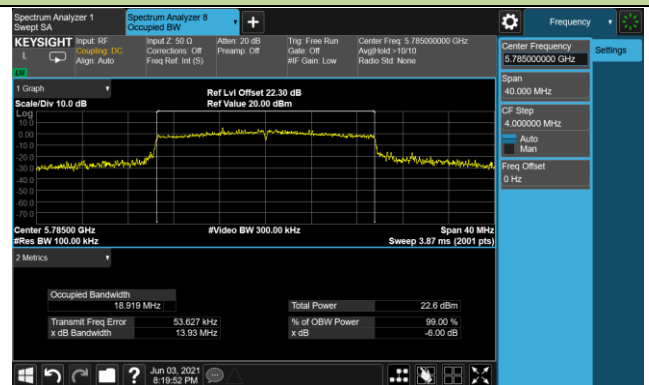


## 802.11ax-HE20 6dB Bandwidth - Ant 0 / Ant 0 + 1

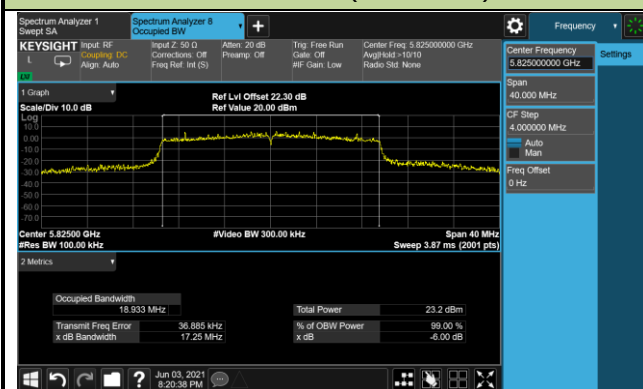
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

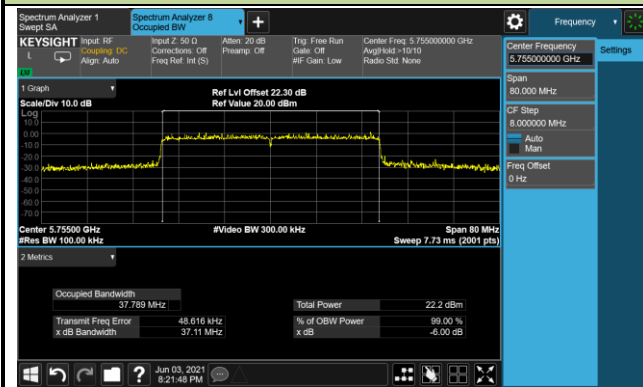


## Channel 165 (5825MHz)

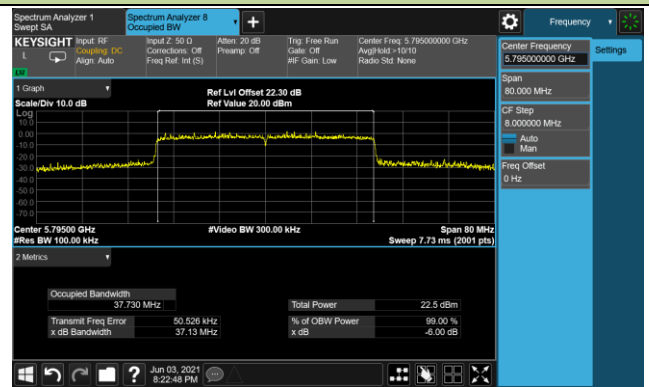


## 802.11ax-HE40 6dB Bandwidth - Ant 0 / Ant 0 + 1

## Channel 151 (5755MHz)

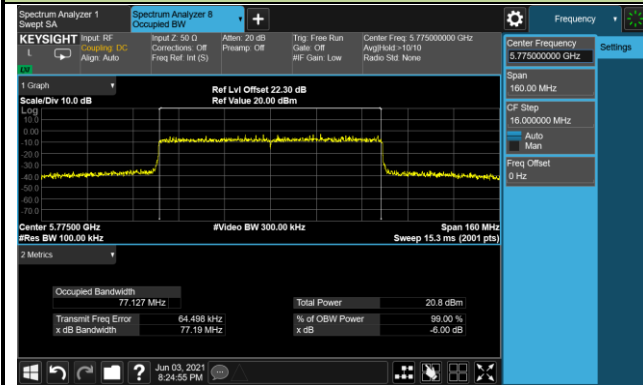


## Channel 159 (5795MHz)



## 802.11ax-HE80 6dB Bandwidth - Ant 0 / Ant 0 + 1

## Channel 155 (5775MHz)



## 6.4. Output Power Measurement

### 6.4.1. Test Limit

#### FCC Limit

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### ISED Limit

For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW (23.01dBm) or  $10 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power shall not exceed 250 mW (23.98dBm) or  $11 + 10 \log_{10} B$ , dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W (30dBm) or  $17 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.725-5.85 GHz band, the maximum conducted output power shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.

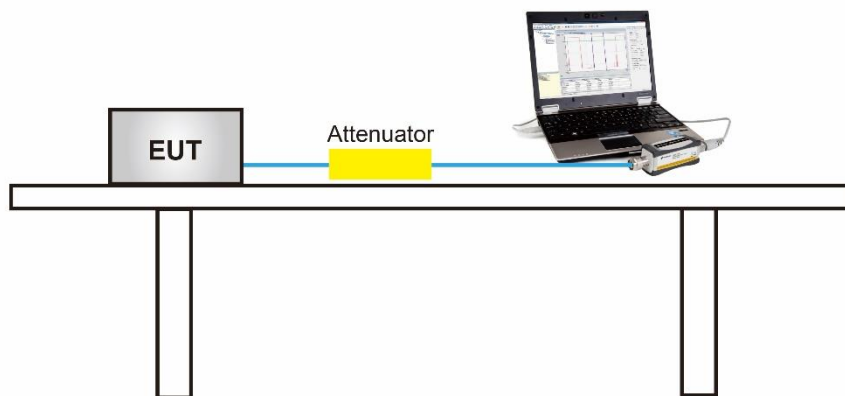
#### 6.4.2. Test Procedure Used

KDB 789033D02v01r04- Section E)3)b) Method PM-G

#### 6.4.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

#### 6.4.4. Test Setup



### 6.4.5. Test Result

|           |            |               |                                             |
|-----------|------------|---------------|---------------------------------------------|
| Test Site | WZ-TR3     | Test Engineer | Luis Yang                                   |
| Test Date | 2021/06/04 | Test Mode     | CDD mode<br>[For FCC UNII-1 (5150-5250MHz)] |

| Test Mode  | Data Rate/<br>MCS | Channel<br>No. | Freq.<br>(MHz) | Ant 0<br>Average<br>Power<br>(dBm) | Ant 1<br>Average<br>Power<br>(dBm) | Total<br>Average<br>Power<br>(dBm) | Average<br>Power<br>Limit<br>(dBm) | Result |
|------------|-------------------|----------------|----------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------|
| 11a        | 6Mbps             | 36             | 5180           | 10.10                              | 8.92                               | 12.56                              | ≤ 23.98                            | Pass   |
| 11a        | 6Mbps             | 44             | 5220           | 10.03                              | 8.75                               | 12.45                              | ≤ 23.98                            | Pass   |
| 11a        | 6Mbps             | 48             | 5240           | 10.03                              | 8.63                               | 12.40                              | ≤ 23.98                            | Pass   |
| 11n-HT20   | MCS0              | 36             | 5180           | 10.36                              | 9.13                               | 12.80                              | ≤ 23.98                            | Pass   |
| 11n-HT20   | MCS0              | 40             | 5220           | 10.43                              | 9.30                               | 12.91                              | ≤ 23.98                            | Pass   |
| 11n-HT20   | MCS0              | 48             | 5240           | 10.55                              | 9.03                               | 12.87                              | ≤ 23.98                            | Pass   |
| 11n-HT40   | MCS0              | 38             | 5190           | 12.52                              | 12.92                              | 15.73                              | ≤ 23.98                            | Pass   |
| 11n-HT40   | MCS0              | 46             | 5230           | 13.61                              | 12.20                              | 15.97                              | ≤ 23.98                            | Pass   |
| 11ac-VHT20 | MCS0              | 36             | 5180           | 10.66                              | 9.19                               | 13.00                              | ≤ 23.98                            | Pass   |
| 11ac-VHT20 | MCS0              | 40             | 5220           | 10.49                              | 9.62                               | 13.09                              | ≤ 23.98                            | Pass   |
| 11ac-VHT20 | MCS0              | 48             | 5240           | 10.53                              | 9.39                               | 13.01                              | ≤ 23.98                            | Pass   |
| 11ac-VHT40 | MCS0              | 38             | 5190           | 13.56                              | 12.13                              | 15.91                              | ≤ 23.98                            | Pass   |
| 11ac-VHT40 | MCS0              | 46             | 5230           | 13.51                              | 11.99                              | 15.83                              | ≤ 23.98                            | Pass   |
| 11ac-VHT80 | MCS0              | 42             | 5210           | 11.85                              | 12.82                              | 15.37                              | ≤ 23.98                            | Pass   |
| 11ax-HE20  | MCS0              | 36             | 5180           | 10.54                              | 9.19                               | 12.93                              | ≤ 23.98                            | Pass   |
| 11ax-HE20  | MCS0              | 40             | 5220           | 10.23                              | 8.89                               | 12.62                              | ≤ 23.98                            | Pass   |
| 11ax-HE20  | MCS0              | 48             | 5240           | 10.67                              | 9.82                               | 13.28                              | ≤ 23.98                            | Pass   |
| 11ax-HE40  | MCS0              | 38             | 5190           | 13.12                              | 13.57                              | 16.36                              | ≤ 23.98                            | Pass   |
| 11ax-HE40  | MCS0              | 46             | 5230           | 14.66                              | 13.15                              | 16.98                              | ≤ 23.98                            | Pass   |
| 11ax-HE80  | MCS0              | 42             | 5210           | 11.54                              | 12.43                              | 15.02                              | ≤ 23.98                            | Pass   |

Note: The Total Average Power (dBm) =  $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$ .

|           |            |               |                                               |
|-----------|------------|---------------|-----------------------------------------------|
| Test Site | WZ-TR3     | Test Engineer | Luis Yang                                     |
| Test Date | 2021/06/04 | Test Mode     | CDD mode<br>[For ISCED UNII-1 (5150-5250MHz)] |

| Test Mode  | Data Rate/MCS | Channel No. | Freq. (MHz) | Ant 0 Average Power (dBm) | Ant 1 Average Power (dBm) | Total Average Power (dBm) | EIRP (dBm) | EIRP Limit (dBm) | Result |
|------------|---------------|-------------|-------------|---------------------------|---------------------------|---------------------------|------------|------------------|--------|
| 11a        | 6Mbps         | 36          | 5180        | 10.10                     | 8.92                      | 12.56                     | 16.76      | ≤ 22.19          | Pass   |
| 11a        | 6Mbps         | 44          | 5220        | 10.03                     | 8.75                      | 12.45                     | 16.65      | ≤ 22.19          | Pass   |
| 11a        | 6Mbps         | 48          | 5240        | 10.03                     | 8.63                      | 12.40                     | 16.60      | ≤ 22.19          | Pass   |
| 11n-HT20   | MCS0          | 36          | 5180        | 10.36                     | 9.13                      | 12.80                     | 17.00      | ≤ 22.48          | Pass   |
| 11n-HT20   | MCS0          | 40          | 5220        | 10.43                     | 9.30                      | 12.91                     | 17.11      | ≤ 22.48          | Pass   |
| 11n-HT20   | MCS0          | 48          | 5240        | 10.55                     | 9.03                      | 12.87                     | 17.07      | ≤ 22.48          | Pass   |
| 11n-HT40   | MCS0          | 38          | 5190        | 12.52                     | 12.92                     | 15.73                     | 19.93      | ≤ 23.01          | Pass   |
| 11n-HT40   | MCS0          | 46          | 5230        | 13.61                     | 12.20                     | 15.97                     | 20.17      | ≤ 23.01          | Pass   |
| 11ac-VHT20 | MCS0          | 36          | 5180        | 10.66                     | 9.19                      | 13.00                     | 17.20      | ≤ 22.49          | Pass   |
| 11ac-VHT20 | MCS0          | 40          | 5220        | 10.49                     | 9.62                      | 13.09                     | 17.29      | ≤ 22.49          | Pass   |
| 11ac-VHT20 | MCS0          | 48          | 5240        | 10.53                     | 9.39                      | 13.01                     | 17.21      | ≤ 22.49          | Pass   |
| 11ac-VHT40 | MCS0          | 38          | 5190        | 13.56                     | 12.13                     | 15.91                     | 20.11      | ≤ 23.01          | Pass   |
| 11ac-VHT40 | MCS0          | 46          | 5230        | 13.51                     | 11.99                     | 15.83                     | 20.03      | ≤ 23.01          | Pass   |
| 11ac-VHT80 | MCS0          | 42          | 5210        | 11.85                     | 12.82                     | 15.37                     | 19.57      | ≤ 23.01          | Pass   |
| 11ax-HE20  | MCS0          | 36          | 5180        | 10.54                     | 9.19                      | 12.93                     | 17.13      | ≤ 22.76          | Pass   |
| 11ax-HE20  | MCS0          | 40          | 5220        | 10.23                     | 8.89                      | 12.62                     | 16.82      | ≤ 22.76          | Pass   |
| 11ax-HE20  | MCS0          | 48          | 5240        | 10.67                     | 9.82                      | 13.28                     | 17.48      | ≤ 22.76          | Pass   |
| 11ax-HE40  | MCS0          | 38          | 5190        | 13.12                     | 13.57                     | 16.36                     | 20.56      | ≤ 23.01          | Pass   |
| 11ax-HE40  | MCS0          | 46          | 5230        | 14.66                     | 13.15                     | 16.98                     | 21.18      | ≤ 23.01          | Pass   |
| 11ax-HE80  | MCS0          | 42          | 5210        | 11.54                     | 12.43                     | 15.02                     | 19.22      | ≤ 23.01          | Pass   |

Note 1: The Total Average Power (dBm) =  $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$ .

Note 2: The Max EIRP (dBm) = Total Average Power (dBm) + Antenna Gain (dBi), Antenna Gain = 4.2dBi

Note 3: EIRP Limit Calculation as below:

For 5150-5250MHz

802.11a:  $10 + 10 \cdot \log (16.56\text{MHz}) = 22.19\text{dBm} < 23.01\text{dBm}$ ;

802.11n-HT20:  $10 + 10 \cdot \log (17.70\text{MHz}) = 22.48\text{dBm} < 23.01\text{dBm}$ ;

802.11ac-VHT20:  $10 + 10 \cdot \log (17.73\text{MHz}) = 22.49\text{dBm} < 23.01\text{dBm}$ ;

802.11ax-HE20:  $10 + 10 \cdot \log (18.89\text{MHz}) = 22.76\text{dBm} < 23.01\text{dBm}$ ;

802.11n-HT40/ac-VHT40/ac-VHT80:  $10 + 10 \cdot \log \text{BW}_{99\%} > 23.01\text{dBm}$ ;

|           |            |               |                                                 |
|-----------|------------|---------------|-------------------------------------------------|
| Test Site | WZ-TR3     | Test Engineer | Luis Yang                                       |
| Test Date | 2021/06/04 | Test Mode     | CDD mode<br>[For FCC & ISCED UNII-2a / -2c /-3] |

| Test Mode | Data Rate/MCS | Channel No. | Freq. (MHz) | Ant 0 Average Power (dBm) | Ant 1 Average Power (dBm) | Total Average Power (dBm) | Average Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) | Result |
|-----------|---------------|-------------|-------------|---------------------------|---------------------------|---------------------------|---------------------------|------------|------------------|--------|
| 11a       | 6Mbps         | 52          | 5260        | 15.79                     | 16.60                     | 19.22                     | ≤ 23.98                   | 23.02      | ≤ 29.21          | Pass   |
| 11a       | 6Mbps         | 60          | 5300        | 16.31                     | 17.14                     | 19.76                     | ≤ 23.98                   | 23.56      | ≤ 29.21          | Pass   |
| 11a       | 6Mbps         | 64          | 5320        | 13.48                     | 14.04                     | 16.78                     | ≤ 23.98                   | 20.58      | ≤ 29.21          | Pass   |
| 11a       | 6Mbps         | 100         | 5500        | 7.78                      | 10.42                     | 12.31                     | ≤ 23.98                   | 16.11      | ≤ 29.21          | Pass   |
| 11a       | 6Mbps         | 116         | 5580        | 14.87                     | 16.53                     | 18.79                     | ≤ 23.98                   | 22.59      | ≤ 29.21          | Pass   |
| 11a       | 6Mbps         | 140         | 5700        | 7.75                      | 8.35                      | 11.07                     | ≤ 23.98                   | 14.87      | ≤ 29.21          | Pass   |
| 11a       | 6Mbps         | 144         | 5720        | 14.94                     | 16.04                     | 18.54                     | ≤ 23.52                   | 22.34      | ≤ 28.41          | Pass   |
| 11a       | 6Mbps         | 149         | 5745        | 16.82                     | 15.67                     | 19.29                     | ≤ 30.00                   | 22.69      | --               | Pass   |
| 11a       | 6Mbps         | 157         | 5785        | 15.33                     | 16.08                     | 18.73                     | ≤ 30.00                   | 22.13      | --               | Pass   |
| 11a       | 6Mbps         | 165         | 5825        | 16.16                     | 15.04                     | 18.65                     | ≤ 30.00                   | 22.05      | --               | Pass   |
| 11n-HT20  | MCS0          | 52          | 5260        | 16.69                     | 17.07                     | 19.89                     | ≤ 23.98                   | 23.69      | ≤ 29.49          | Pass   |
| 11n-HT20  | MCS0          | 60          | 5300        | 16.35                     | 17.25                     | 19.83                     | ≤ 23.98                   | 23.63      | ≤ 29.49          | Pass   |
| 11n-HT20  | MCS0          | 64          | 5320        | 13.05                     | 13.61                     | 16.35                     | ≤ 23.98                   | 20.15      | ≤ 29.49          | Pass   |
| 11n-HT20  | MCS0          | 100         | 5500        | 9.74                      | 7.87                      | 11.92                     | ≤ 23.98                   | 15.72      | ≤ 29.49          | Pass   |
| 11n-HT20  | MCS0          | 116         | 5580        | 15.63                     | 16.47                     | 19.08                     | ≤ 23.98                   | 22.88      | ≤ 29.49          | Pass   |
| 11n-HT20  | MCS0          | 140         | 5700        | 7.16                      | 3.64                      | 8.76                      | ≤ 23.98                   | 12.56      | ≤ 29.49          | Pass   |
| 11n-HT20  | MCS0          | 144         | 5720        | 14.78                     | 16.45                     | 18.71                     | ≤ 23.52                   | 22.51      | ≤ 28.41          | Pass   |
| 11n-HT20  | MCS0          | 149         | 5745        | 16.28                     | 15.47                     | 18.90                     | ≤ 30.00                   | 22.30      | --               | Pass   |
| 11n-HT20  | MCS0          | 157         | 5785        | 15.03                     | 16.05                     | 18.58                     | ≤ 30.00                   | 21.98      | --               | Pass   |
| 11n-HT20  | MCS0          | 165         | 5825        | 15.99                     | 15.46                     | 18.74                     | ≤ 30.00                   | 22.14      | --               | Pass   |
| 11n-HT40  | MCS0          | 54          | 5270        | 16.12                     | 16.59                     | 19.37                     | ≤ 23.98                   | 23.17      | ≤ 30.00          | Pass   |
| 11n-HT40  | MCS0          | 62          | 5310        | 10.98                     | 12.01                     | 14.54                     | ≤ 23.98                   | 18.34      | ≤ 30.00          | Pass   |
| 11n-HT40  | MCS0          | 102         | 5510        | 8.91                      | 9.36                      | 12.15                     | ≤ 23.98                   | 15.95      | ≤ 30.00          | Pass   |
| 11n-HT40  | MCS0          | 110         | 5550        | 15.13                     | 15.56                     | 18.36                     | ≤ 23.98                   | 22.16      | ≤ 30.00          | Pass   |
| 11n-HT40  | MCS0          | 134         | 5670        | 10.24                     | 11.29                     | 13.81                     | ≤ 23.98                   | 17.61      | ≤ 30.00          | Pass   |
| 11n-HT40  | MCS0          | 142         | 5710        | 13.22                     | 15.16                     | 17.31                     | ≤ 23.98                   | 21.11      | ≤ 30.00          | Pass   |
| 11n-HT40  | MCS0          | 151         | 5755        | 15.77                     | 15.62                     | 18.71                     | ≤ 30.00                   | 22.51      | --               | Pass   |
| 11n-HT40  | MCS0          | 159         | 5795        | 16.04                     | 15.60                     | 18.84                     | ≤ 30.00                   | 22.24      | --               | Pass   |

| Test Mode  | Data Rate/<br>MCS | Channel No. | Freq. (MHz) | Ant 0 Average Power (dBm) | Ant 1 Average Power (dBm) | Total Average Power (dBm) | Average Power Limit (dBm) | Max EIRP (dBm) | EIRP Limit (dBm) | Result |
|------------|-------------------|-------------|-------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------|------------------|--------|
| 11ac-VHT20 | MCS0              | 52          | 5260        | 16.75                     | 17.19                     | 19.99                     | ≤ 23.98                   | 23.79          | ≤ 29.49          | Pass   |
| 11ac-VHT20 | MCS0              | 60          | 5300        | 16.28                     | 17.16                     | 19.75                     | ≤ 23.98                   | 23.55          | ≤ 29.49          | Pass   |
| 11ac-VHT20 | MCS0              | 64          | 5320        | 14.15                     | 14.33                     | 17.25                     | ≤ 23.98                   | 21.05          | ≤ 29.49          | Pass   |
| 11ac-VHT20 | MCS0              | 100         | 5500        | 8.19                      | 8.41                      | 11.31                     | ≤ 23.98                   | 15.11          | ≤ 29.49          | Pass   |
| 11ac-VHT20 | MCS0              | 116         | 5580        | 16.58                     | 16.43                     | 19.52                     | ≤ 23.98                   | 23.32          | ≤ 29.49          | Pass   |
| 11ac-VHT20 | MCS0              | 140         | 5700        | 7.33                      | 8.37                      | 10.89                     | ≤ 23.98                   | 14.69          | ≤ 29.49          | Pass   |
| 11ac-VHT20 | MCS0              | 144         | 5720        | 14.79                     | 16.35                     | 18.65                     | ≤ 23.52                   | 22.45          | ≤ 28.41          | Pass   |
| 11ac-VHT20 | MCS0              | 149         | 5745        | 15.13                     | 16.54                     | 18.90                     | ≤ 23.98                   | 22.30          | --               | Pass   |
| 11ac-VHT20 | MCS0              | 157         | 5785        | 14.45                     | 16.08                     | 18.35                     | ≤ 30.00                   | 21.75          | --               | Pass   |
| 11ac-VHT20 | MCS0              | 165         | 5825        | 15.39                     | 16.23                     | 18.84                     | ≤ 30.00                   | 22.24          | --               | Pass   |
| 11ac-VHT40 | MCS0              | 54          | 5270        | 16.08                     | 16.61                     | 19.36                     | ≤ 23.98                   | 23.16          | ≤ 30.00          | Pass   |
| 11ac-VHT40 | MCS0              | 62          | 5310        | 11.53                     | 12.17                     | 14.87                     | ≤ 23.98                   | 18.67          | ≤ 30.00          | Pass   |
| 11ac-VHT40 | MCS0              | 102         | 5510        | 7.79                      | 7.96                      | 10.89                     | ≤ 23.98                   | 14.69          | ≤ 30.00          | Pass   |
| 11ac-VHT40 | MCS0              | 110         | 5550        | 14.87                     | 15.08                     | 17.99                     | ≤ 23.98                   | 21.79          | ≤ 30.00          | Pass   |
| 11ac-VHT40 | MCS0              | 134         | 5670        | 10.65                     | 11.36                     | 14.03                     | ≤ 23.98                   | 17.83          | ≤ 30.00          | Pass   |
| 11ac-VHT40 | MCS0              | 142         | 5710        | 13.73                     | 15.29                     | 17.59                     | ≤ 23.98                   | 21.39          | ≤ 30.00          | Pass   |
| 11ac-VHT40 | MCS0              | 151         | 5755        | 14.03                     | 15.93                     | 18.09                     | ≤ 30.00                   | 21.49          | --               | Pass   |
| 11ac-VHT40 | MCS0              | 159         | 5795        | 13.81                     | 16.02                     | 18.06                     | ≤ 30.00                   | 21.46          | --               | Pass   |
| 11ac-VHT80 | MCS0              | 58          | 5290        | 12.00                     | 13.26                     | 15.69                     | ≤ 23.98                   | 19.49          | ≤ 30.00          | Pass   |
| 11ac-VHT80 | MCS0              | 106         | 5530        | 9.16                      | 9.70                      | 12.45                     | ≤ 23.98                   | 16.25          | ≤ 30.00          | Pass   |
| 11ac-VHT80 | MCS0              | 122         | 5610        | 12.95                     | 13.53                     | 16.26                     | ≤ 23.98                   | 20.06          | ≤ 30.00          | Pass   |
| 11ac-VHT80 | MCS0              | 138         | 5690        | 14.14                     | 15.55                     | 17.91                     | ≤ 23.98                   | 21.71          | ≤ 30.00          | Pass   |
| 11ac-VHT80 | MCS0              | 155         | 5775        | 13.42                     | 13.82                     | 16.63                     | ≤ 30.00                   | 20.03          | --               | Pass   |

| Test Mode | Data Rate/MCS | Channel No. | Freq. (MHz) | Ant 0 Average Power (dBm) | Ant 1 Average Power (dBm) | Total Average Power (dBm) | Average Power Limit (dBm) | Max EIRP (dBm) | EIRP Limit (dBm) | Result |
|-----------|---------------|-------------|-------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------|------------------|--------|
| 11ax-HE20 | MCS0          | 52          | 5260        | 16.78                     | 17.20                     | 20.01                     | ≤ 23.98                   | 23.81          | ≤ 29.76          | Pass   |
| 11ax-HE20 | MCS0          | 60          | 5300        | 17.19                     | 17.06                     | 20.14                     | ≤ 23.98                   | 23.94          | ≤ 29.76          | Pass   |
| 11ax-HE20 | MCS0          | 64          | 5320        | 14.24                     | 14.82                     | 17.55                     | ≤ 23.98                   | 21.35          | ≤ 29.76          | Pass   |
| 11ax-HE20 | MCS0          | 100         | 5500        | 9.42                      | 9.21                      | 12.33                     | ≤ 23.98                   | 16.13          | ≤ 29.76          | Pass   |
| 11ax-HE20 | MCS0          | 116         | 5580        | 15.80                     | 15.98                     | 18.90                     | ≤ 23.98                   | 22.70          | ≤ 29.76          | Pass   |
| 11ax-HE20 | MCS0          | 140         | 5700        | 7.37                      | 6.93                      | 10.17                     | ≤ 23.98                   | 13.97          | ≤ 29.76          | Pass   |
| 11ax-HE20 | MCS0          | 144         | 5720        | 14.64                     | 16.36                     | 18.59                     | ≤ 23.52                   | 22.39          | ≤ 28.41          | Pass   |
| 11ax-HE20 | MCS0          | 149         | 5745        | 15.42                     | 16.61                     | 19.07                     | ≤ 30.00                   | 22.47          | --               | Pass   |
| 11ax-HE20 | MCS0          | 157         | 5785        | 15.25                     | 15.96                     | 18.63                     | ≤ 30.00                   | 22.03          | --               | Pass   |
| 11ax-HE20 | MCS0          | 165         | 5825        | 14.72                     | 16.53                     | 18.73                     | ≤ 30.00                   | 22.13          | --               | Pass   |
| 11ax-HE40 | MCS0          | 54          | 5270        | 16.51                     | 16.74                     | 19.64                     | ≤ 23.98                   | 23.44          | ≤ 30.00          | Pass   |
| 11ax-HE40 | MCS0          | 62          | 5310        | 11.78                     | 12.39                     | 15.11                     | ≤ 23.98                   | 18.91          | ≤ 30.00          | Pass   |
| 11ax-HE40 | MCS0          | 102         | 5510        | 8.93                      | 9.07                      | 12.01                     | ≤ 23.98                   | 15.81          | ≤ 30.00          | Pass   |
| 11ax-HE40 | MCS0          | 110         | 5550        | 15.48                     | 15.41                     | 18.46                     | ≤ 23.98                   | 22.26          | ≤ 30.00          | Pass   |
| 11ax-HE40 | MCS0          | 134         | 5670        | 11.49                     | 12.16                     | 14.85                     | ≤ 23.98                   | 18.65          | ≤ 30.00          | Pass   |
| 11ax-HE40 | MCS0          | 142         | 5710        | 13.38                     | 15.39                     | 17.51                     | ≤ 23.98                   | 21.31          | ≤ 30.00          | Pass   |
| 11ax-HE40 | MCS0          | 151         | 5755        | 14.31                     | 14.22                     | 17.28                     | ≤ 30.00                   | 20.68          | --               | Pass   |
| 11ax-HE40 | MCS0          | 159         | 5795        | 14.04                     | 15.85                     | 18.05                     | ≤ 30.00                   | 21.45          | --               | Pass   |
| 11ax-HE80 | MCS0          | 58          | 5290        | 11.77                     | 12.86                     | 15.36                     | ≤ 23.98                   | 19.16          | ≤ 30.00          | Pass   |
| 11ax-HE80 | MCS0          | 106         | 5530        | 9.79                      | 9.71                      | 12.76                     | ≤ 23.98                   | 16.56          | ≤ 30.00          | Pass   |
| 11ax-HE80 | MCS0          | 122         | 5610        | 12.32                     | 12.86                     | 15.61                     | ≤ 23.98                   | 19.41          | ≤ 30.00          | Pass   |
| 11ax-HE80 | MCS0          | 138         | 5690        | 13.23                     | 15.26                     | 17.37                     | ≤ 23.98                   | 21.17          | ≤ 30.00          | Pass   |
| 11ax-HE80 | MCS0          | 155         | 5775        | 11.86                     | 11.77                     | 14.83                     | ≤ 30.00                   | 18.23          | --               | Pass   |

Note 1: The Total Average Power (dBm) =  $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$ .

Note 2: EIRP Limit Calculation as below:

For 5250-5350MHz & 5470-5725MHz:

802.11a:  $17 + 10 \cdot \log (16.64\text{MHz}) = 29.21\text{dBm} < 30\text{dBm}$ ;

802.11n-HT20:  $17 + 10 \cdot \log (17.76\text{MHz}) = 29.49\text{dBm} < 30\text{dBm}$ ;

802.11ac-VHT20:  $17 + 10 \cdot \log (17.75\text{MHz}) = 29.49\text{dBm} < 30\text{dBm}$ ;

802.11ax-HE20:  $17 + 10 \cdot \log (18.87\text{MHz}) = 29.76\text{dBm} < 30\text{dBm}$ ;

802.11n-HT40/ac-VHT40/ax-HE40/ac-VHT80/ax-HE80:  $17 + 10 \cdot \log B > 30\text{dBm}$ .

For Channel 144 (5720MHz),  $17 + 10 \cdot \log (5\text{MHz} + \text{BW}_{99\%} / 2) = 28.41 \text{ dBm} < 30\text{dBm}$

Note 3: Max Conducted Output Power Limit Calculation as below:

For 5250-5350MHz & 5470-5725MHz: Limit (dBm) = 23.98dBm.

For Channel 144 (5720MHz),  $11+10*\log (5\text{MHz} + \text{BW}_{26\text{dBc}}/2) = 23.52\text{dBm} < 23.98\text{dBm}$

For 5725-5850MHz: Limit (dBm) = 30.00dBm.

Note 4: The Max EIRP (dBm) = Total Average Power (dBm) + Antenna Gain (dBi)

## 6.5. Transmit Power Control

### 6.5.1. Test Limit

The devices with a maximum e.i.r.p. greater than 500 mW (27dBm) shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W (30dBm).

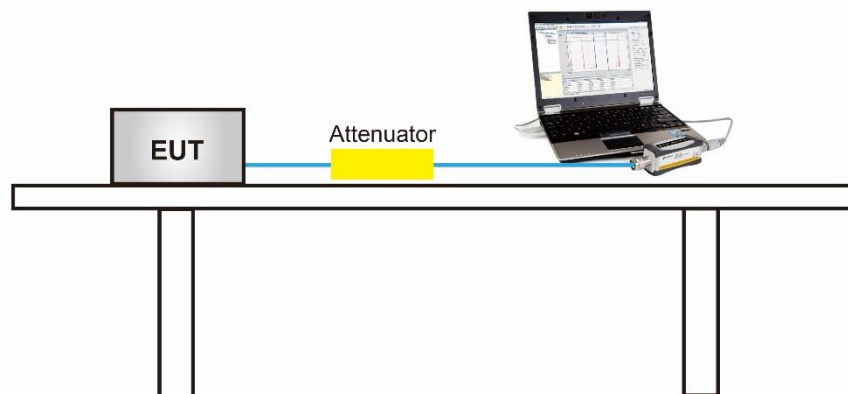
### 6.5.2. Test Procedure Used

KDB 789033D02v01r04- Section E)3)b) Method PM-G

### 6.5.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

### 6.5.4. Test Setup



### 6.5.5. Test Result

A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

## **6.6. Power Spectral Density Measurement**

### **6.6.1. Test Limit**

#### FCC Limit

For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### ISED Limit

For the band 5.15-5.25 GHz, the e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

For the band 5.25-5.35 GHz and 5.47-5.725 GHz, the power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For the 5.725-5.85 GHz band, the power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

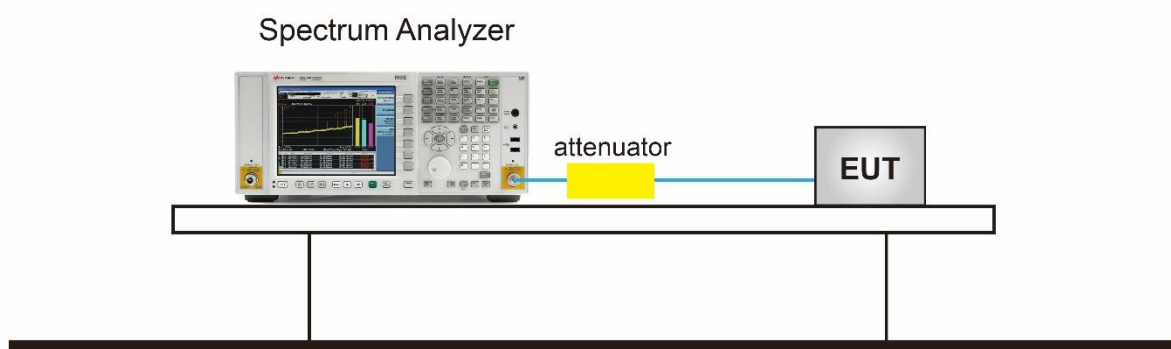
### **6.6.2. Test Procedure Used**

KDB 789033 D02v02r01 - Section F

### 6.6.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz,  
RBW = 510 kHz
4. VBW  $\geq 3$  RBW
5. Number of sweep points  $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add  $10 \cdot \log(1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add  $10 \cdot \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.

### 6.6.4. Test Setup



### 6.6.5. Test Result

|           |                       |               |                                             |
|-----------|-----------------------|---------------|---------------------------------------------|
| Test Site | WZ-TR3                | Test Engineer | Luis Yang                                   |
| Test Date | 2021/05/28~2021/06/16 | Test Mode     | CDD mode<br>[For FCC UNII-1 (5150-5250MHz)] |

| Test Mode  | Data Rate/<br>MCS | Channel No. | Freq. (MHz) | Ant 0 PSD (dBm/MHz) | Ant 1 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|------------|-------------------|-------------|-------------|---------------------|---------------------|----------------|---------------------|---------------------|--------|
| 11a        | 6Mbps             | 36          | 5180        | -0.60               | -1.10               | 98.56          | 2.17                | ≤ 9.79              | Pass   |
| 11a        | 6Mbps             | 44          | 5220        | -0.67               | -1.09               | 98.56          | 2.14                | ≤ 9.79              | Pass   |
| 11a        | 6Mbps             | 48          | 5240        | -0.34               | -1.25               | 98.56          | 2.24                | ≤ 9.79              | Pass   |
| 11n-HT20   | MCS0              | 36          | 5180        | -0.15               | -1.36               | 98.45          | 2.30                | ≤ 9.79              | Pass   |
| 11n-HT20   | MCS0              | 44          | 5220        | -0.44               | -1.41               | 98.45          | 2.11                | ≤ 9.79              | Pass   |
| 11n-HT20   | MCS0              | 48          | 5240        | -0.53               | -1.04               | 98.45          | 2.23                | ≤ 9.79              | Pass   |
| 11n-HT40   | MCS0              | 38          | 5190        | -2.79               | -2.29               | 96.15          | 0.48                | ≤ 9.79              | Pass   |
| 11n-HT40   | MCS0              | 46          | 5230        | -0.49               | -1.23               | 96.15          | 2.16                | ≤ 9.79              | Pass   |
| 11ac-VHT20 | MCS0              | 36          | 5180        | -0.33               | -1.19               | 98.46          | 2.27                | ≤ 9.79              | Pass   |
| 11ac-VHT20 | MCS0              | 44          | 5220        | -0.56               | -1.19               | 98.46          | 2.15                | ≤ 9.79              | Pass   |
| 11ac-VHT20 | MCS0              | 48          | 5240        | -0.28               | -1.17               | 98.46          | 2.31                | ≤ 9.79              | Pass   |
| 11ac-VHT40 | MCS0              | 38          | 5190        | -0.14               | -1.57               | 96.17          | 2.21                | ≤ 9.79              | Pass   |
| 11ac-VHT40 | MCS0              | 46          | 5230        | -0.17               | -1.43               | 96.17          | 2.26                | ≤ 9.79              | Pass   |
| 11ac-VHT80 | MCS0              | 42          | 5210        | -3.96               | -3.63               | 98.00          | -0.78               | ≤ 9.79              | Pass   |
| 11ax-HE20  | MCS0              | 36          | 5180        | -0.54               | -1.17               | 97.56          | 2.17                | ≤ 9.79              | Pass   |
| 11ax-HE20  | MCS0              | 44          | 5220        | -0.34               | -1.55               | 97.56          | 2.11                | ≤ 9.79              | Pass   |
| 11ax-HE20  | MCS0              | 48          | 5240        | -0.47               | -0.75               | 97.56          | 2.41                | ≤ 9.79              | Pass   |
| 11ax-HE40  | MCS0              | 38          | 5190        | -1.39               | -1.56               | 98.02          | 1.54                | ≤ 9.79              | Pass   |
| 11ax-HE40  | MCS0              | 46          | 5230        | -0.36               | -1.60               | 98.02          | 2.08                | ≤ 9.79              | Pass   |
| 11ax-HE80  | MCS0              | 42          | 5210        | -5.73               | -5.42               | 98.39          | -2.56               | ≤ 9.79              | Pass   |

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) =  $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$  (dBm/MHz) +  $10 \cdot \log (1/\text{Duty Cycle})$ .

When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) =  $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$  (dBm/MHz).

Note 2: PSD Limit (dBm/MHz) = 11 - (7.21 - 6) = 9.79dBm/MHz

|           |                       |               |                                             |
|-----------|-----------------------|---------------|---------------------------------------------|
| Test Site | WZ-TR3                | Test Engineer | Luis Yang                                   |
| Test Date | 2021/05/28~2021/06/16 | Test Mode     | CDD mode<br>[For ISD UNII-1 (5150-5250MHz)] |

| Test Mode  | Data Rate/<br>MCS | Channel No. | Freq. (MHz) | Ant 0 PSD (dBm/MHz) | Ant 1 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | E.I.R.P PSD (dBm/MHz) | E.I.R.P PSD Limit (dBm/MHz) | Result |
|------------|-------------------|-------------|-------------|---------------------|---------------------|----------------|---------------------|-----------------------|-----------------------------|--------|
| 11a        | 6Mbps             | 36          | 5180        | -0.60               | -1.10               | 98.56          | 2.17                | 9.38                  | ≤ 10.00                     | Pass   |
| 11a        | 6Mbps             | 44          | 5220        | -0.67               | -1.09               | 98.56          | 2.14                | 9.35                  | ≤ 10.00                     | Pass   |
| 11a        | 6Mbps             | 48          | 5240        | -0.34               | -1.25               | 98.56          | 2.24                | 9.45                  | ≤ 10.00                     | Pass   |
| 11n-HT20   | MCS0              | 36          | 5180        | -0.15               | -1.36               | 98.45          | 2.30                | 9.51                  | ≤ 10.00                     | Pass   |
| 11n-HT20   | MCS0              | 44          | 5220        | -0.44               | -1.41               | 98.45          | 2.11                | 9.32                  | ≤ 10.00                     | Pass   |
| 11n-HT20   | MCS0              | 48          | 5240        | -0.53               | -1.04               | 98.45          | 2.23                | 9.44                  | ≤ 10.00                     | Pass   |
| 11n-HT40   | MCS0              | 38          | 5190        | -2.79               | -2.29               | 96.15          | 0.48                | 7.86                  | ≤ 10.00                     | Pass   |
| 11n-HT40   | MCS0              | 46          | 5230        | -0.49               | -1.23               | 96.15          | 2.16                | 9.55                  | ≤ 10.00                     | Pass   |
| 11ac-VHT20 | MCS0              | 36          | 5180        | -0.33               | -1.19               | 98.46          | 2.27                | 9.48                  | ≤ 10.00                     | Pass   |
| 11ac-VHT20 | MCS0              | 44          | 5220        | -0.56               | -1.19               | 98.46          | 2.15                | 9.36                  | ≤ 10.00                     | Pass   |
| 11ac-VHT20 | MCS0              | 48          | 5240        | -0.28               | -1.17               | 98.46          | 2.31                | 9.52                  | ≤ 10.00                     | Pass   |
| 11ac-VHT40 | MCS0              | 38          | 5190        | -0.14               | -1.57               | 96.17          | 2.21                | 9.59                  | ≤ 10.00                     | Pass   |
| 11ac-VHT40 | MCS0              | 46          | 5230        | -0.17               | -1.43               | 96.17          | 2.26                | 9.64                  | ≤ 10.00                     | Pass   |
| 11ac-VHT80 | MCS0              | 42          | 5210        | -3.96               | -3.63               | 98.00          | -0.78               | 6.43                  | ≤ 10.00                     | Pass   |
| 11ax-HE20  | MCS0              | 36          | 5180        | -0.54               | -1.17               | 97.56          | 2.17                | 9.48                  | ≤ 10.00                     | Pass   |
| 11ax-HE20  | MCS0              | 44          | 5220        | -0.34               | -1.55               | 97.56          | 2.11                | 9.43                  | ≤ 10.00                     | Pass   |
| 11ax-HE20  | MCS0              | 48          | 5240        | -0.47               | -0.75               | 97.56          | 2.41                | 9.72                  | ≤ 10.00                     | Pass   |
| 11ax-HE40  | MCS0              | 38          | 5190        | -1.39               | -1.56               | 98.02          | 1.54                | 8.75                  | ≤ 10.00                     | Pass   |
| 11ax-HE40  | MCS0              | 46          | 5230        | -0.36               | -1.60               | 98.02          | 2.08                | 9.29                  | ≤ 10.00                     | Pass   |
| 11ax-HE80  | MCS0              | 42          | 5210        | -5.73               | -5.42               | 98.39          | -2.56               | 4.65                  | ≤ 10.00                     | Pass   |

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) =  $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$  (dBm/MHz) +  $10 \cdot \log (1/\text{Duty Cycle})$ .

When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) =  $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$  (dBm/MHz).

Note 2: E.I.R.P PSD (dBm/MHz) = Total PSD (dBm/MHz) + Directional Gain (dBi), Directional Gain = 7.21dBi

|           |            |               |                                            |
|-----------|------------|---------------|--------------------------------------------|
| Test Site | WZ-TR3     | Test Engineer | Luis Yang                                  |
| Test Date | 2021/06/04 | Test Mode     | CDD Mode<br>(For FCC & ISCED UNII- 2a/-2c) |

| Test Mode  | Data Rate<br>/MCS | Channel<br>No. | Freq.<br>(MHz) | Ant 0 PSD<br>(dBm/MHz) | Ant 1 PSD<br>(dBm/MHz) | Duty<br>Cycle (%) | Total PSD<br>(dBm/ MHz) | PSD Limit<br>(dBm/MHz) | Result |
|------------|-------------------|----------------|----------------|------------------------|------------------------|-------------------|-------------------------|------------------------|--------|
| 11a        | 6Mbps             | 52             | 5260           | 6.24                   | 6.49                   | 98.56             | 9.38                    | ≤ 10.19                | Pass   |
| 11a        | 6Mbps             | 60             | 5300           | 6.41                   | 6.56                   | 98.56             | 9.50                    | ≤ 10.19                | Pass   |
| 11a        | 6Mbps             | 64             | 5320           | 2.64                   | 2.89                   | 98.56             | 5.78                    | ≤ 10.19                | Pass   |
| 11a        | 6Mbps             | 100            | 5500           | -4.27                  | -1.37                  | 98.56             | 0.43                    | ≤ 10.19                | Pass   |
| 11a        | 6Mbps             | 116            | 5580           | 5.24                   | 5.22                   | 98.56             | 8.24                    | ≤ 10.19                | Pass   |
| 11a        | 6Mbps             | 140            | 5700           | -2.74                  | -2.81                  | 98.56             | 0.24                    | ≤ 10.19                | Pass   |
| 11a        | 6Mbps             | 144            | 5720           | 4.42                   | 6.26                   | 98.56             | 8.45                    | ≤ 10.19                | Pass   |
| 11n-HT20   | MCS0              | 52             | 5260           | 6.08                   | 6.87                   | 98.45             | 9.50                    | ≤ 10.19                | Pass   |
| 11n-HT20   | MCS0              | 60             | 5300           | 6.45                   | 6.64                   | 98.45             | 9.56                    | ≤ 10.19                | Pass   |
| 11n-HT20   | MCS0              | 64             | 5320           | 2.20                   | 2.32                   | 98.45             | 5.27                    | ≤ 10.19                | Pass   |
| 11n-HT20   | MCS0              | 100            | 5500           | -4.07                  | -2.08                  | 98.45             | 0.05                    | ≤ 10.19                | Pass   |
| 11n-HT20   | MCS0              | 116            | 5580           | 4.98                   | 4.85                   | 98.45             | 7.93                    | ≤ 10.19                | Pass   |
| 11n-HT20   | MCS0              | 140            | 5700           | -3.61                  | -4.61                  | 98.45             | -1.07                   | ≤ 10.19                | Pass   |
| 11n-HT20   | MCS0              | 144            | 5720           | 5.85                   | 5.85                   | 98.45             | 8.86                    | ≤ 10.19                | Pass   |
| 11n-HT40   | MCS0              | 54             | 5270           | 2.89                   | 3.35                   | 96.15             | 6.31                    | ≤ 10.19                | Pass   |
| 11n-HT40   | MCS0              | 62             | 5310           | -2.92                  | -2.22                  | 96.15             | 0.62                    | ≤ 10.19                | Pass   |
| 11n-HT40   | MCS0              | 102            | 5510           | -5.33                  | -5.56                  | 96.15             | -2.26                   | ≤ 10.19                | Pass   |
| 11n-HT40   | MCS0              | 110            | 5550           | 1.47                   | 1.92                   | 96.15             | 4.88                    | ≤ 10.19                | Pass   |
| 11n-HT40   | MCS0              | 134            | 5670           | -3.91                  | -2.81                  | 96.15             | -0.14                   | ≤ 10.19                | Pass   |
| 11n-HT40   | MCS0              | 142            | 5710           | -1.05                  | 2.39                   | 96.15             | 4.18                    | ≤ 10.19                | Pass   |
| 11ac-VHT20 | MCS0              | 52             | 5260           | 6.53                   | 6.74                   | 98.46             | 9.65                    | ≤ 10.19                | Pass   |
| 11ac-VHT20 | MCS0              | 60             | 5300           | 6.59                   | 6.86                   | 98.46             | 9.74                    | ≤ 10.19                | Pass   |
| 11ac-VHT20 | MCS0              | 64             | 5320           | 3.98                   | 3.18                   | 98.46             | 6.61                    | ≤ 10.19                | Pass   |
| 11ac-VHT20 | MCS0              | 100            | 5500           | -3.53                  | -3.43                  | 98.46             | -0.47                   | ≤ 10.19                | Pass   |
| 11ac-VHT20 | MCS0              | 116            | 5580           | 4.02                   | 4.86                   | 98.46             | 7.47                    | ≤ 10.19                | Pass   |
| 11ac-VHT20 | MCS0              | 140            | 5700           | -3.96                  | -3.17                  | 98.46             | -0.54                   | ≤ 10.19                | Pass   |
| 11ac-VHT20 | MCS0              | 144            | 5720           | 4.67                   | 6.27                   | 98.46             | 8.55                    | ≤ 10.19                | Pass   |

| Test Mode  | Data Rate /MCS | Channel No. | Freq. (MHz) | Ant 0 PSD (dBm/MHz) | Ant 1 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/ MHz) | PSD Limit (dBm/MHz) | Result |
|------------|----------------|-------------|-------------|---------------------|---------------------|----------------|----------------------|---------------------|--------|
| 11ac-VHT40 | MCS0           | 54          | 5270        | 1.19                | 2.42                | 96.17          | 5.03                 | ≤ 10.19             | Pass   |
| 11ac-VHT40 | MCS0           | 62          | 5310        | -2.41               | -2.09               | 96.17          | 0.93                 | ≤ 10.19             | Pass   |
| 11ac-VHT40 | MCS0           | 102         | 5510        | -6.06               | -5.36               | 96.17          | -2.52                | ≤ 10.19             | Pass   |
| 11ac-VHT40 | MCS0           | 110         | 5550        | -1.41               | 0.68                | 96.17          | 2.94                 | ≤ 10.19             | Pass   |
| 11ac-VHT40 | MCS0           | 134         | 5670        | -4.16               | -2.61               | 96.17          | -0.14                | ≤ 10.19             | Pass   |
| 11ac-VHT40 | MCS0           | 142         | 5710        | 0.17                | 1.14                | 96.17          | 3.86                 | ≤ 10.19             | Pass   |
| 11ac-VHT80 | MCS0           | 58          | 5290        | -3.83               | -3.30               | 98.00          | -0.55                | ≤ 10.19             | Pass   |
| 11ac-VHT80 | MCS0           | 106         | 5530        | -5.57               | -7.04               | 98.00          | -3.23                | ≤ 10.19             | Pass   |
| 11ac-VHT80 | MCS0           | 122         | 5610        | -1.23               | -3.16               | 98.00          | 0.92                 | ≤ 10.19             | Pass   |
| 11ac-VHT80 | MCS0           | 138         | 5690        | -1.80               | -1.76               | 98.00          | 1.23                 | ≤ 10.19             | Pass   |
| 11ax-HE20  | MCS0           | 52          | 5260        | 6.28                | 6.84                | 97.56          | 9.69                 | ≤ 10.19             | Pass   |
| 11ax-HE20  | MCS0           | 60          | 5300        | 6.14                | 7.04                | 97.56          | 9.73                 | ≤ 10.19             | Pass   |
| 11ax-HE20  | MCS0           | 64          | 5320        | 3.43                | 3.98                | 97.56          | 6.83                 | ≤ 10.19             | Pass   |
| 11ax-HE20  | MCS0           | 100         | 5500        | -0.32               | -1.47               | 97.56          | 2.26                 | ≤ 10.19             | Pass   |
| 11ax-HE20  | MCS0           | 116         | 5580        | 4.38                | 4.11                | 97.56          | 7.36                 | ≤ 10.19             | Pass   |
| 11ax-HE20  | MCS0           | 140         | 5700        | -4.02               | -3.76               | 97.56          | -0.77                | ≤ 10.19             | Pass   |
| 11ax-HE20  | MCS0           | 144         | 5720        | 4.94                | 6.00                | 97.56          | 8.62                 | ≤ 10.19             | Pass   |
| 11ax-HE40  | MCS0           | 54          | 5270        | 0.25                | 0.96                | 97.56          | 3.63                 | ≤ 10.19             | Pass   |
| 11ax-HE40  | MCS0           | 62          | 5310        | -2.63               | -2.67               | 97.56          | 0.36                 | ≤ 10.19             | Pass   |
| 11ax-HE40  | MCS0           | 102         | 5510        | -5.33               | -5.68               | 97.56          | -2.49                | ≤ 10.19             | Pass   |
| 11ax-HE40  | MCS0           | 110         | 5550        | -2.06               | -1.22               | 97.56          | 1.39                 | ≤ 10.19             | Pass   |
| 11ax-HE40  | MCS0           | 134         | 5670        | -0.72               | -2.98               | 97.56          | 1.31                 | ≤ 10.19             | Pass   |
| 11ax-HE40  | MCS0           | 142         | 5710        | -1.11               | -0.08               | 97.56          | 2.45                 | ≤ 10.19             | Pass   |
| 11ax-HE80  | MCS0           | 58          | 5290        | -5.69               | -5.11               | 98.39          | -2.38                | ≤ 10.19             | Pass   |
| 11ax-HE80  | MCS0           | 106         | 5530        | -7.04               | -7.96               | 98.39          | -4.46                | ≤ 10.19             | Pass   |
| 11ax-HE80  | MCS0           | 122         | 5610        | -3.81               | -4.78               | 98.39          | -1.26                | ≤ 10.19             | Pass   |
| 11ax-HE80  | MCS0           | 138         | 5690        | -3.05               | -2.89               | 98.39          | 0.04                 | ≤ 10.19             | Pass   |

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) =  $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$  (dBm/MHz) +  $10 \cdot \log (1/\text{Duty Cycle})$ .

When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) =  $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$  (dBm/MHz).

Note 2: PSD Limit (dBm/MHz) = 11 - (6.81 - 6) = 10.19dBm/MHz

|           |            |               |                                       |
|-----------|------------|---------------|---------------------------------------|
| Test Site | WZ-TR3     | Test Engineer | Luis Yang                             |
| Test Date | 2021/06/04 | Test Mode     | CDD Mode<br>(For FCC & ISCED UNII- 3) |

| Test Mode  | Data Rate/<br>MCS | Channel No. | Freq. (MHz) | AVG PSD (dBm/510KHz) |       | Duty Cycle (%) | Total PSD (dBm/510kHz) | Limit (dBm/500kHz) | Result |
|------------|-------------------|-------------|-------------|----------------------|-------|----------------|------------------------|--------------------|--------|
|            |                   |             |             | Ant 0                | Ant 1 |                |                        |                    |        |
| 11a        | 6Mbps             | 149         | 5745        | 2.34                 | 1.96  | 98.56          | 5.16                   | ≤ 29.59            | Pass   |
| 11a        | 6Mbps             | 157         | 5785        | 1.82                 | 2.40  | 98.56          | 5.13                   | ≤ 29.59            | Pass   |
| 11a        | 6Mbps             | 165         | 5825        | 2.61                 | 1.94  | 98.56          | 5.30                   | ≤ 29.59            | Pass   |
| 11n-HT20   | MCS0              | 149         | 5745        | 2.29                 | 1.81  | 98.45          | 5.07                   | ≤ 29.59            | Pass   |
| 11n-HT20   | MCS0              | 157         | 5785        | 1.25                 | 2.15  | 98.45          | 4.73                   | ≤ 29.59            | Pass   |
| 11n-HT20   | MCS0              | 165         | 5825        | 1.79                 | 1.88  | 98.45          | 4.85                   | ≤ 29.59            | Pass   |
| 11n-HT40   | MCS0              | 151         | 5755        | -0.88                | -0.41 | 96.15          | 2.54                   | ≤ 29.59            | Pass   |
| 11n-HT40   | MCS0              | 159         | 5795        | -1.43                | -0.51 | 96.15          | 2.24                   | ≤ 29.59            | Pass   |
| 11ac-VHT20 | MCS0              | 149         | 5745        | 1.48                 | 3.23  | 98.46          | 5.45                   | ≤ 29.59            | Pass   |
| 11ac-VHT20 | MCS0              | 157         | 5785        | 1.14                 | 2.36  | 98.46          | 4.80                   | ≤ 29.59            | Pass   |
| 11ac-VHT20 | MCS0              | 165         | 5825        | 1.16                 | 2.26  | 98.46          | 4.76                   | ≤ 29.59            | Pass   |
| 11ac-VHT40 | MCS0              | 151         | 5755        | -2.88                | 0.63  | 96.17          | 2.40                   | ≤ 29.59            | Pass   |
| 11ac-VHT40 | MCS0              | 159         | 5795        | 0.13                 | 0.26  | 96.17          | 3.37                   | ≤ 29.59            | Pass   |
| 11ac-VHT80 | MCS0              | 155         | 5775        | -3.38                | -6.17 | 98.00          | -1.54                  | ≤ 29.59            | Pass   |
| 11ax-HE20  | MCS0              | 149         | 5745        | 0.37                 | 2.95  | 97.56          | 4.97                   | ≤ 29.59            | Pass   |
| 11ax-HE20  | MCS0              | 157         | 5785        | 1.03                 | 1.66  | 97.56          | 4.47                   | ≤ 29.59            | Pass   |
| 11ax-HE20  | MCS0              | 165         | 5825        | 4.70                 | 3.25  | 97.56          | 7.15                   | ≤ 29.59            | Pass   |
| 11ax-HE40  | MCS0              | 151         | 5755        | -0.88                | -2.81 | 98.02          | 1.27                   | ≤ 29.59            | Pass   |
| 11ax-HE40  | MCS0              | 159         | 5795        | -0.35                | -1.16 | 98.02          | 2.27                   | ≤ 29.59            | Pass   |
| 11ax-HE80  | MCS0              | 155         | 5775        | -5.78                | -8.19 | 98.39          | -3.81                  | ≤ 29.59            | Pass   |

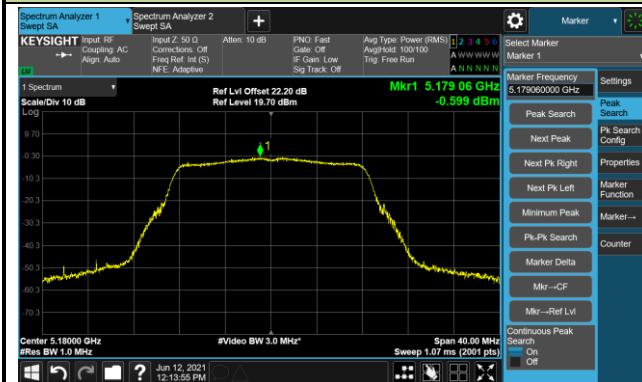
Note 1: When EUT duty cycle < 98%,

the total PSD (dBm/510kHz) =  $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$  (dBm/510kHz) +  $10 \cdot \log (1/\text{Duty Cycle})$ .

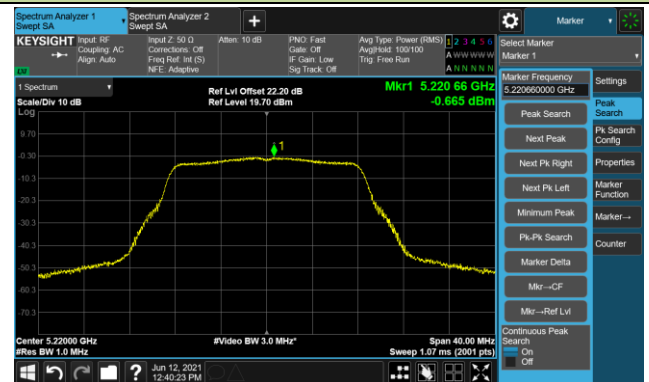
Note 2: PSD Limit (dBm/MHz) = 30 - (6.41 - 6) = 29.59dBm/MHz

## 802.11a Power Spectral Density - Ant 0 / Ant 0 + 1

Channel 36 (5180MHz)



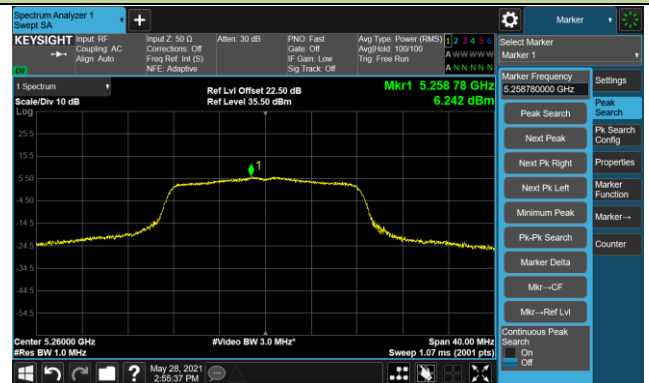
Channel 44 (5220MHz)



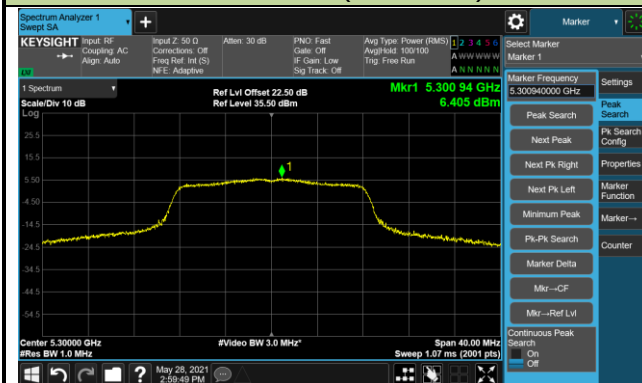
Channel 48 (5240MHz)



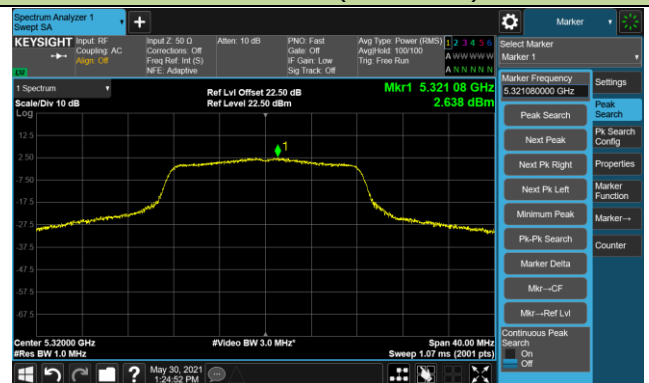
Channel 52 (5260MHz)



Channel 60 (5300MHz)



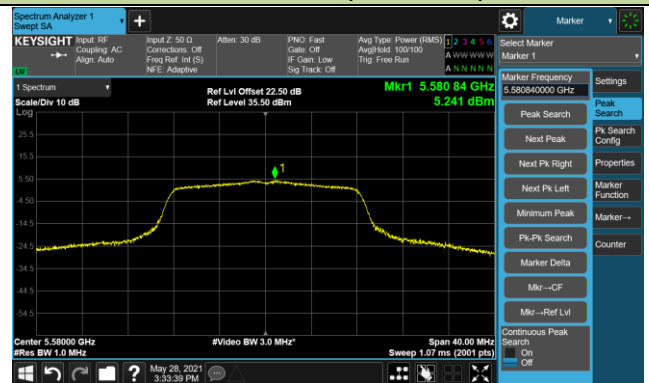
Channel 64 (5320MHz)



Channel 100 (5500MHz)

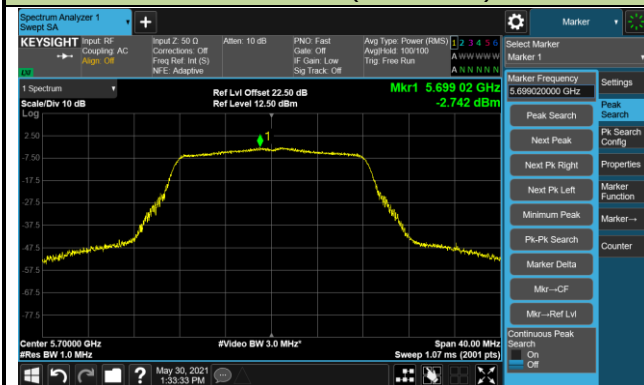


Channel 116 (5580MHz)

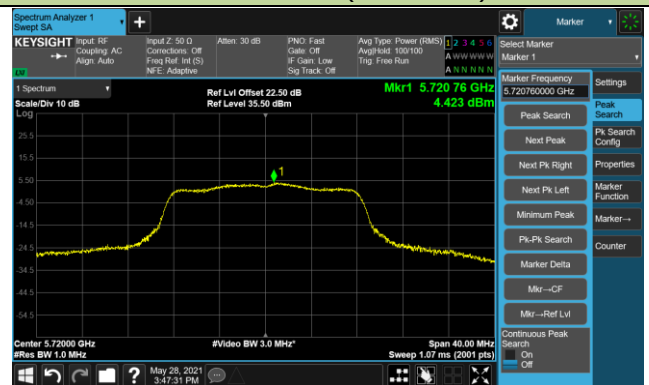


## 802.11a Power Spectral Density - Ant 0 / Ant 0 + 1

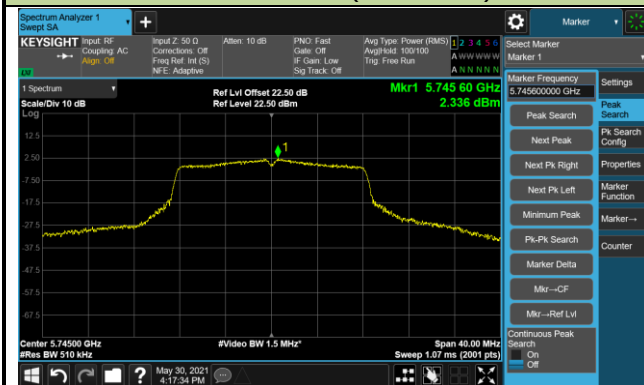
Channel 140 (5700MHz)



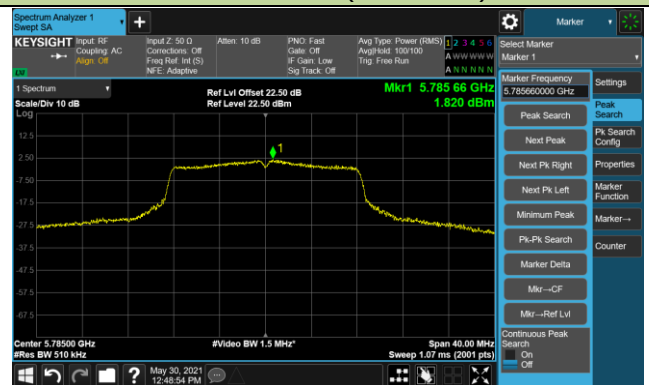
Channel 144 (5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)

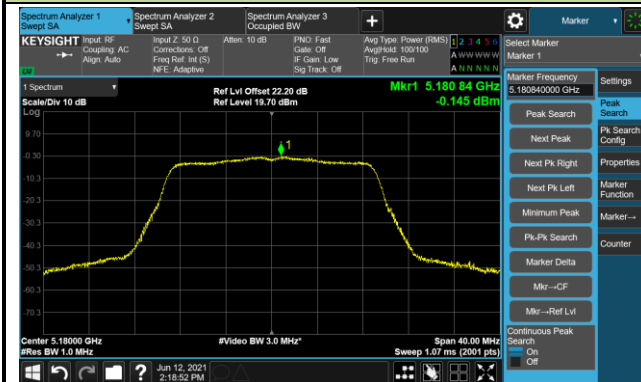


Channel 165 (5825MHz)

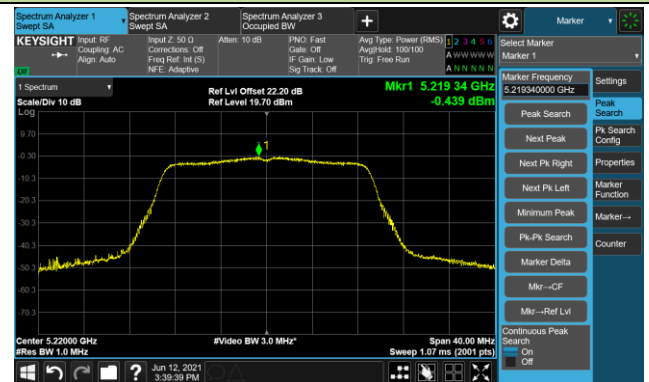


## 802.11n-HT20 Power Spectral Density - Ant 0 / Ant 0 + 1

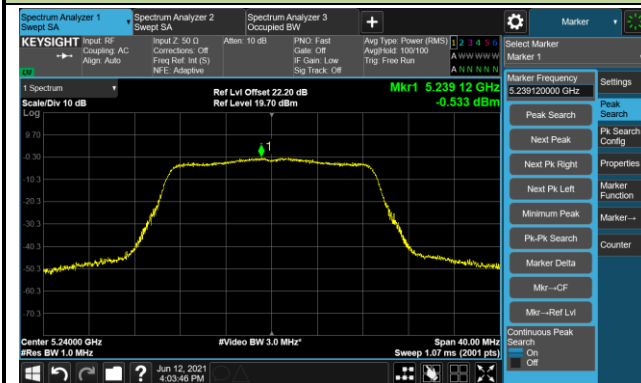
Channel 36 (5180MHz)



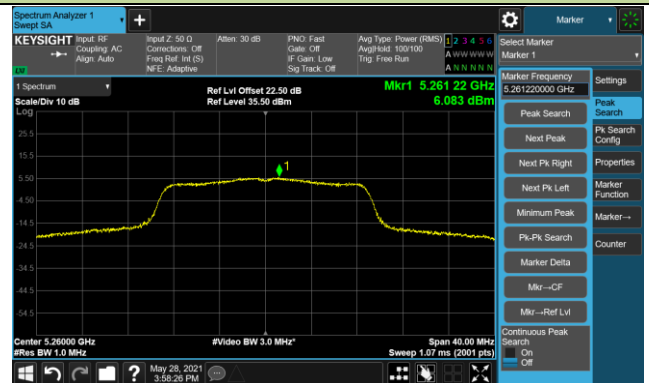
Channel 44 (5220MHz)



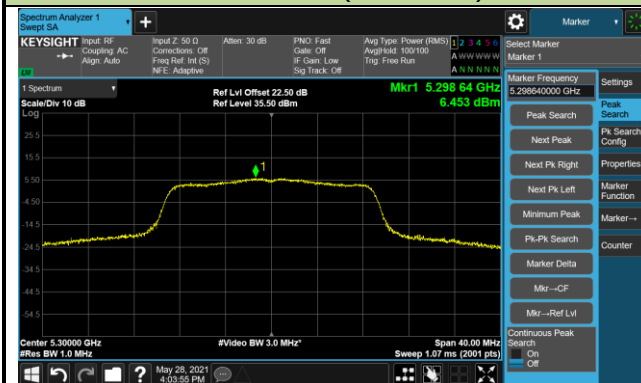
Channel 48 (5240MHz)



Channel 52 (5260MHz)



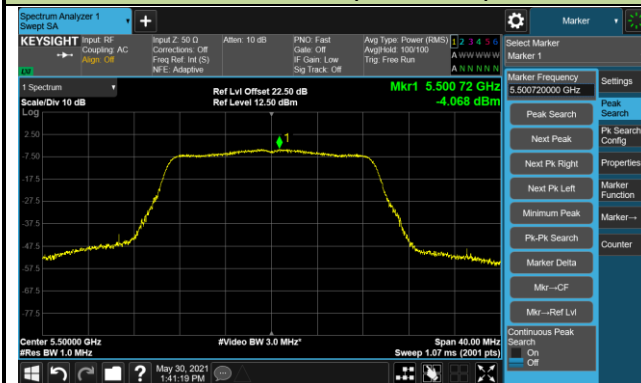
Channel 60 (5300MHz)



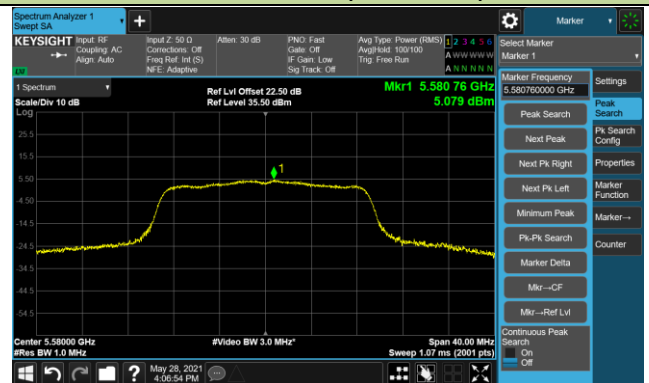
Channel 64 (5320MHz)



Channel 100 (5500MHz)

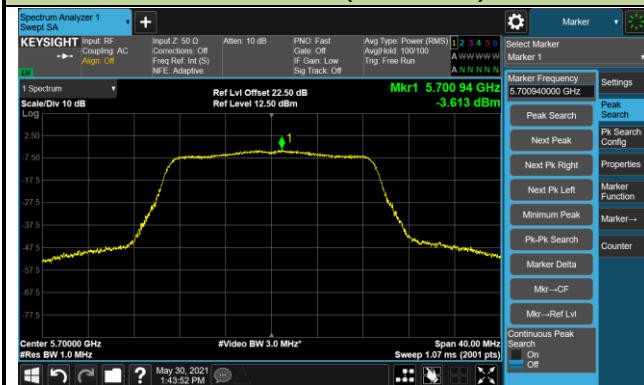


Channel 116 (5580MHz)

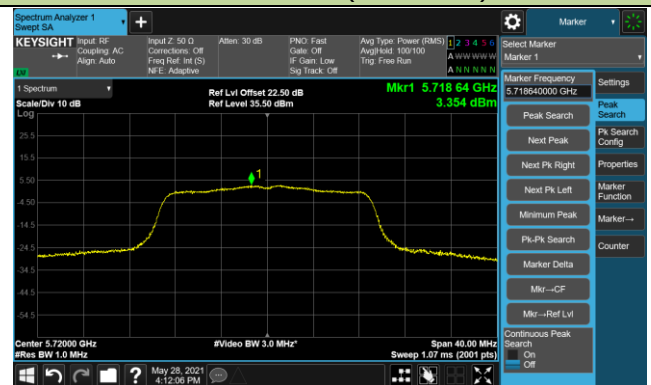


## 802.11n-HT20 Power Spectral Density - Ant 0 / Ant 0 + 1

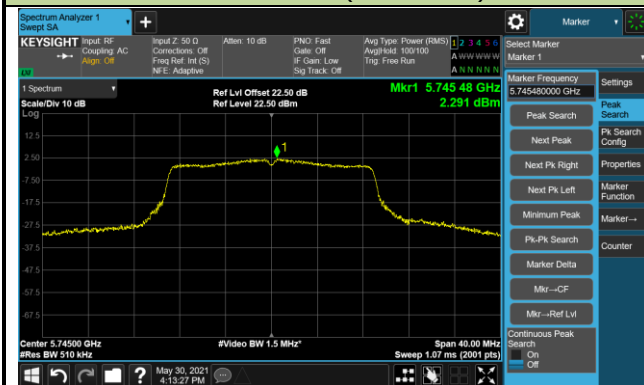
## Channel 140 (5700MHz)



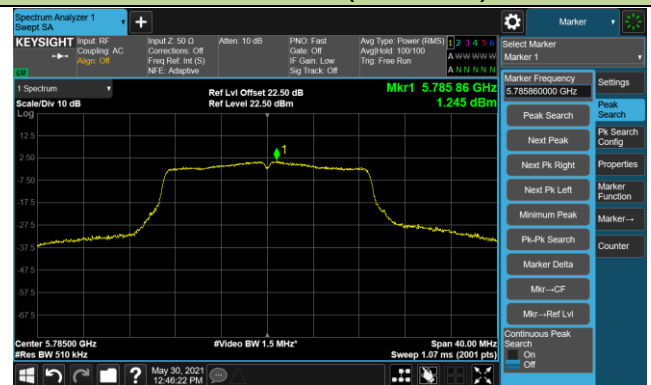
## Channel 144 (5720MHz)



## Channel 149 (5745MHz)



## Channel 157 (5785MHz)



## Channel 165 (5825MHz)

