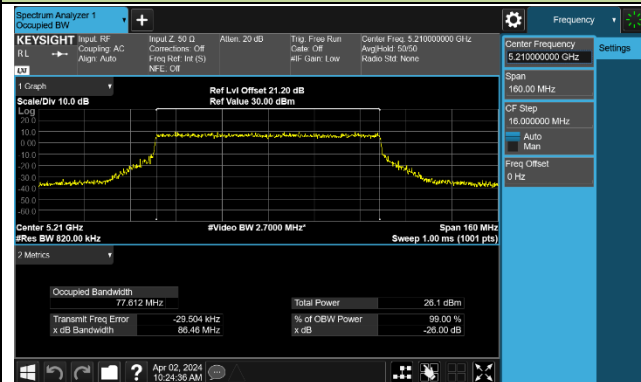
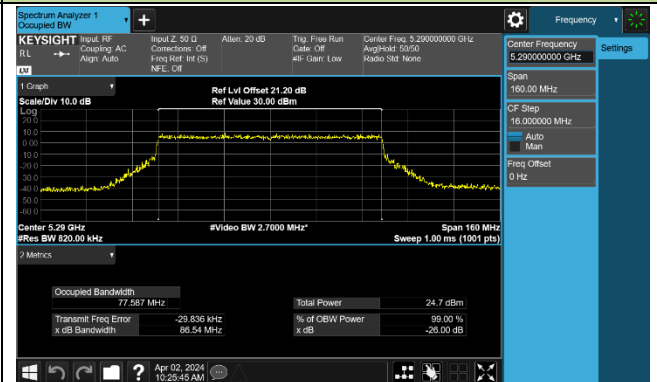


## 802.11ax-HE80 26dB Bandwidth &amp; 99% Bandwidth

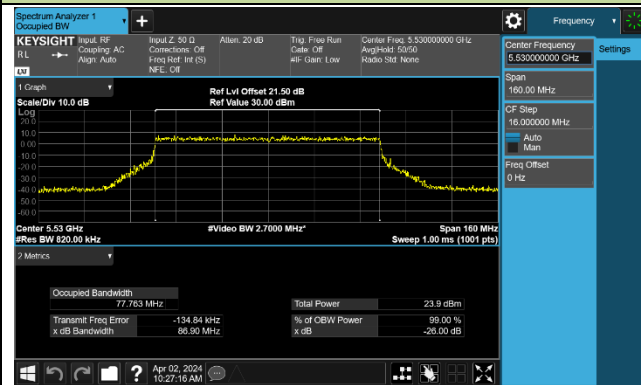
## Channel 42 (5210MHz)



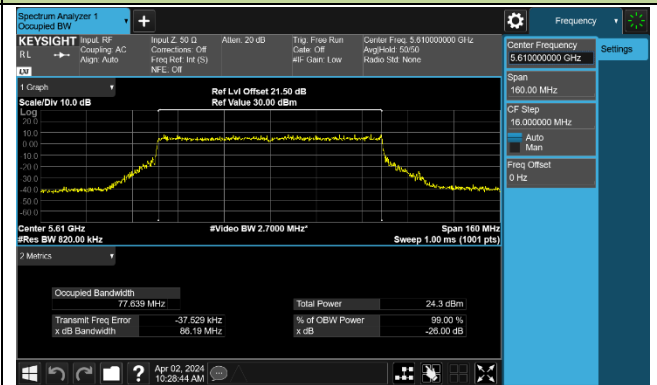
## Channel 58 (5290MHz)



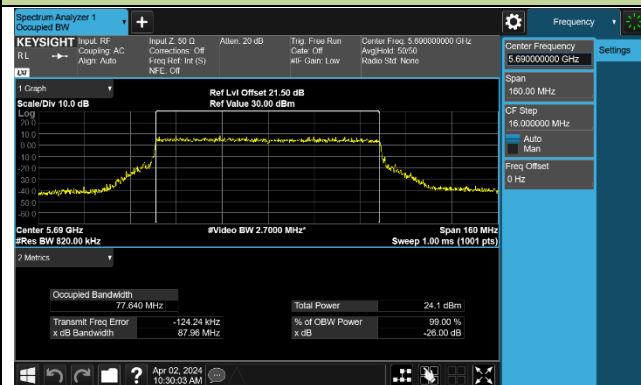
## Channel 106 (5530MHz)



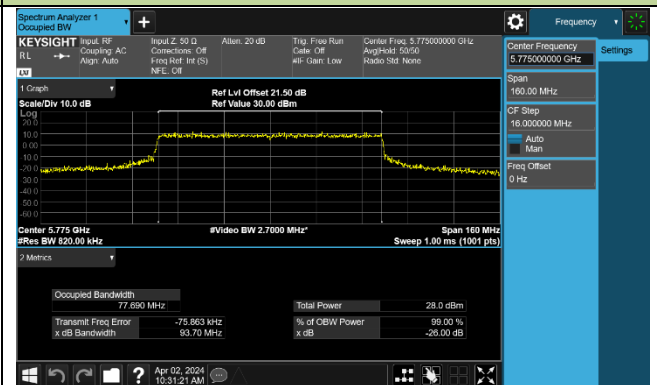
## Channel 122 (5610MHz)



## Channel 138 (5690MHz)

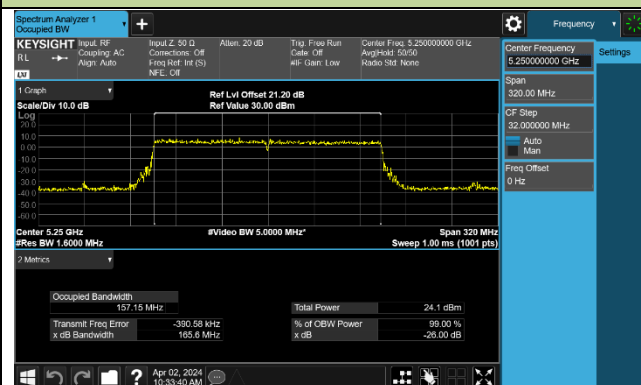


## Channel 155 (5775MHz)

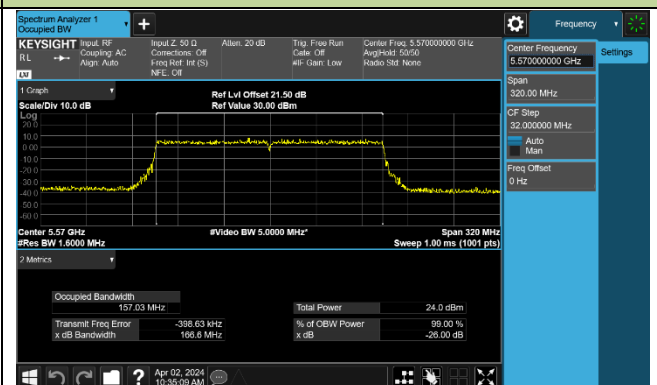


## 802.11ax-HE160 26dB Bandwidth &amp; 99% Bandwidth

## Channel 50 (5250MHz)

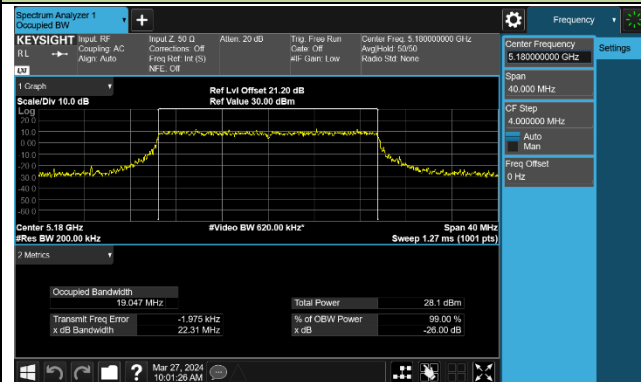


## Channel 114 (5570MHz)

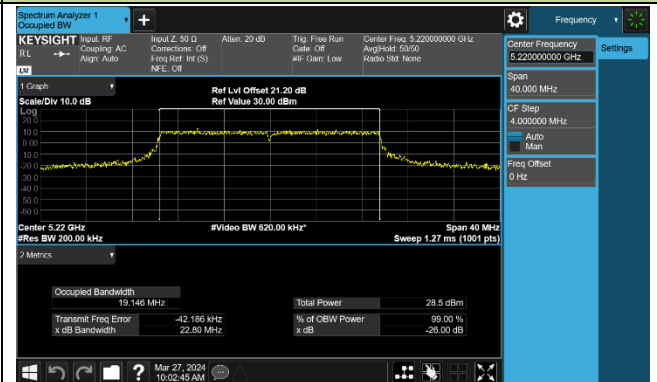


## 802.11be-EHT20 26dB Bandwidth &amp; 99% Bandwidth

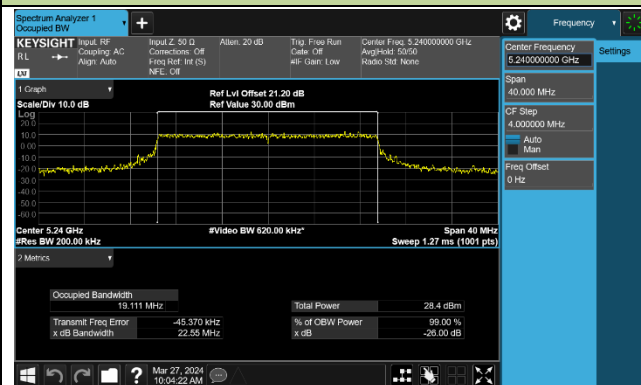
## Channel 36 (5180MHz)



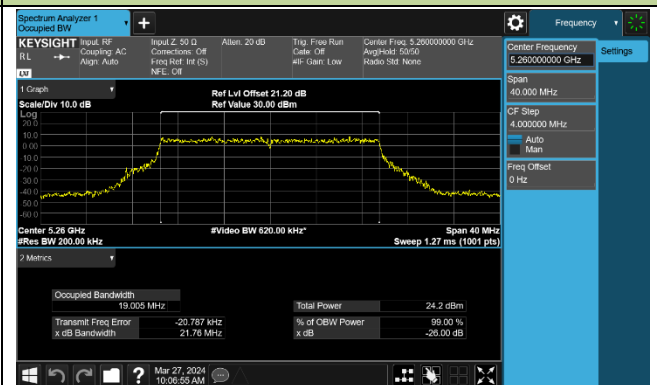
## Channel 44 (5220MHz)



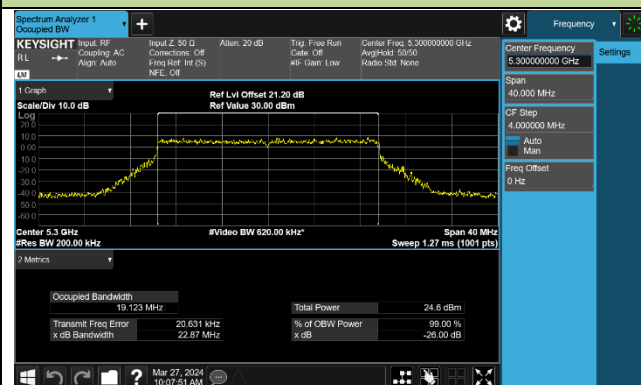
## Channel 48 (5240MHz)



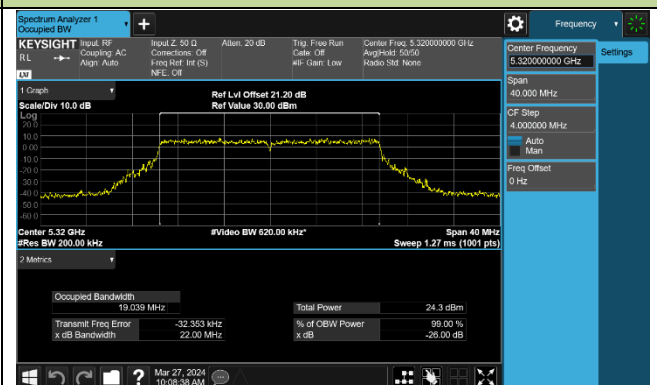
## Channel 52 (5260MHz)



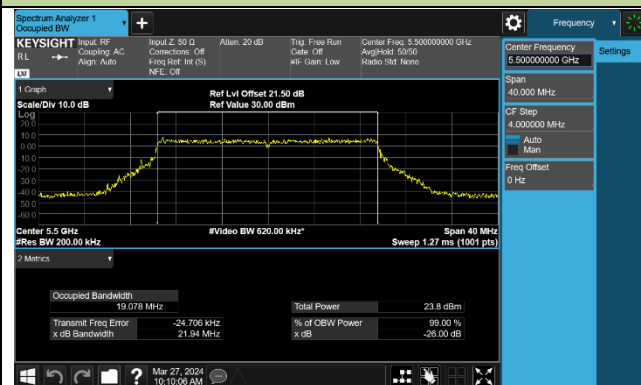
## Channel 60 (5300MHz)



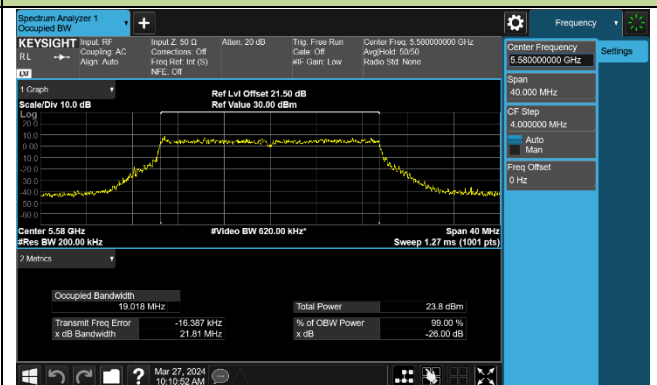
## Channel 64 (5320MHz)

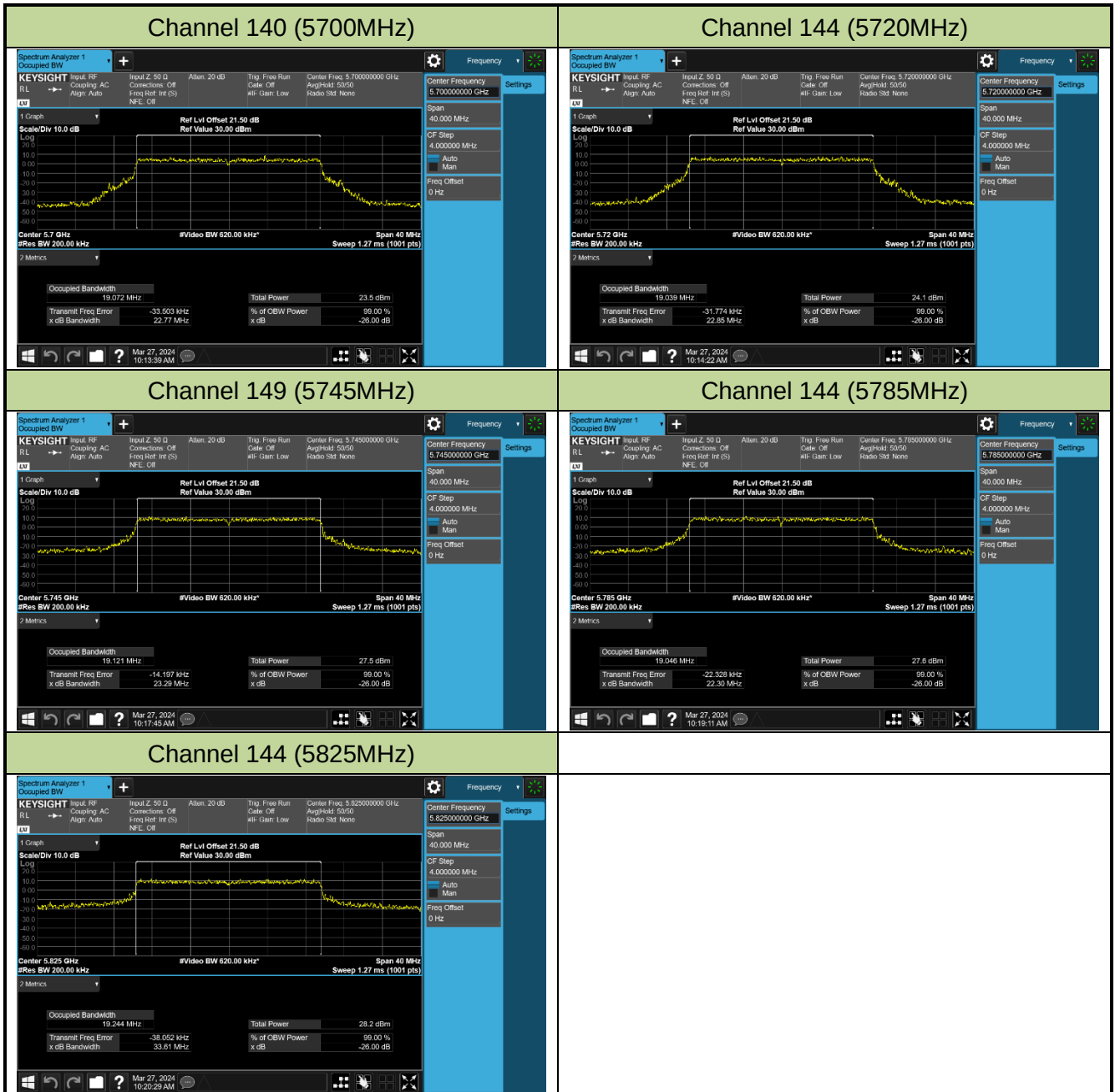


## Channel 100 (5500MHz)



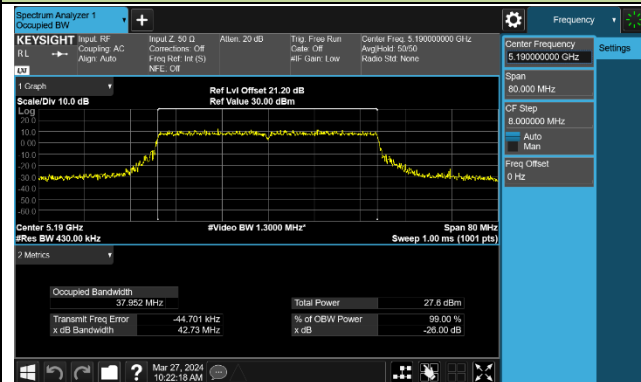
## Channel 116 (5580MHz)



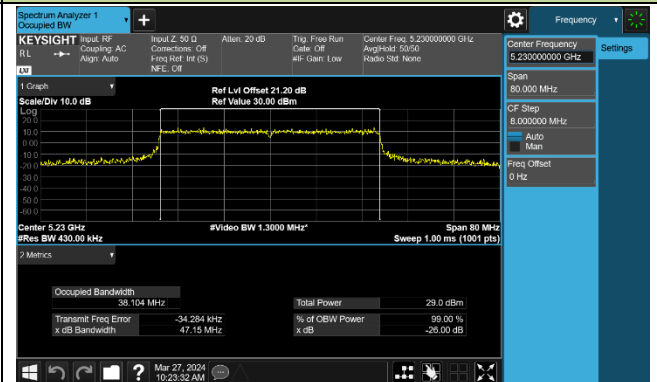


## 802.11be-EHT40 26dB Bandwidth &amp; 99% Bandwidth

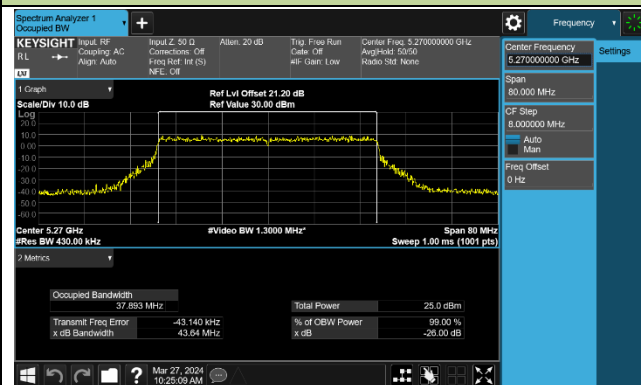
## Channel 38 (5190MHz)



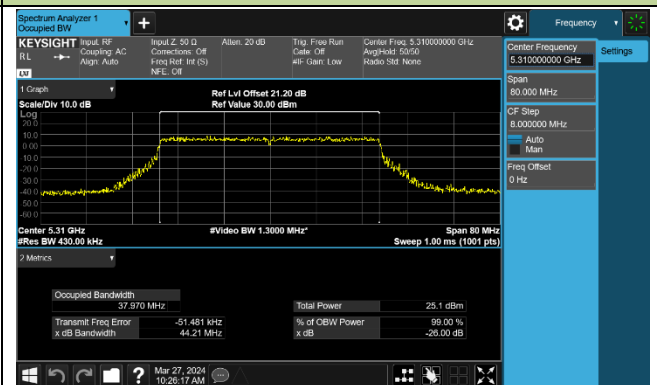
## Channel 46 (5230MHz)



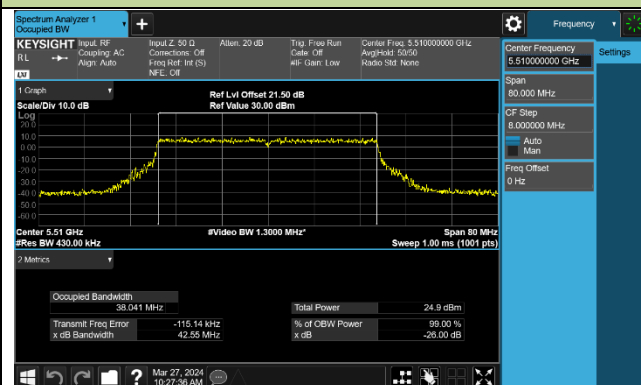
## Channel 54 (5270MHz)



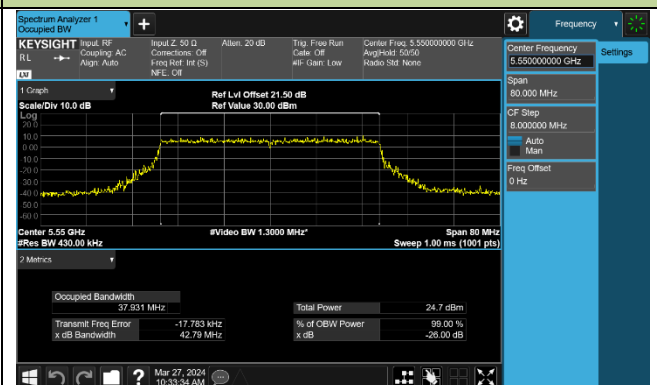
## Channel 62 (5310MHz)



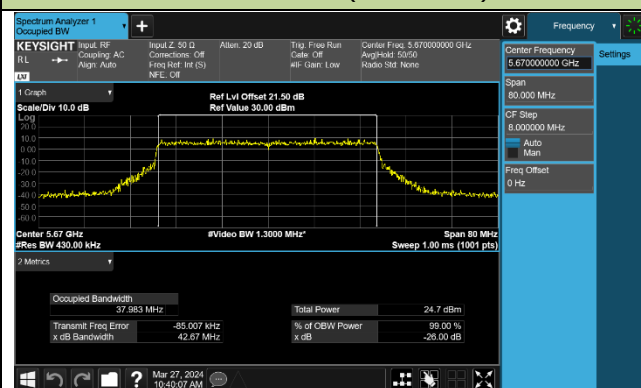
## Channel 102 (5510MHz)



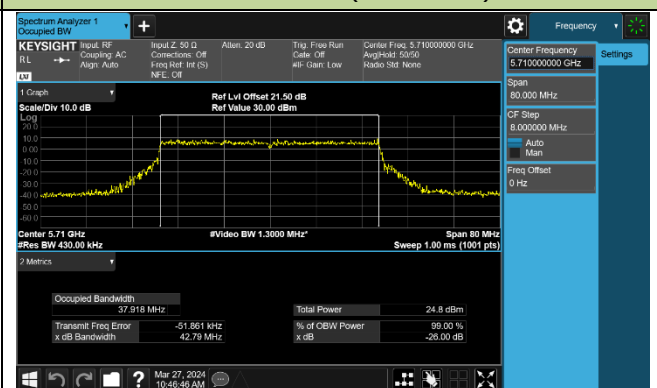
## Channel 110 (5550MHz)

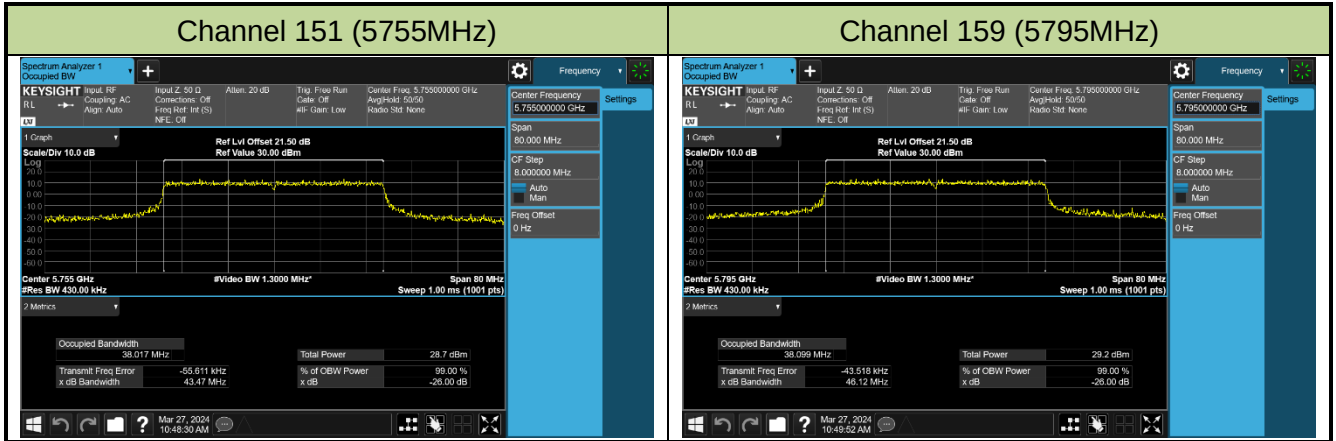


## Channel 134 (5670MHz)



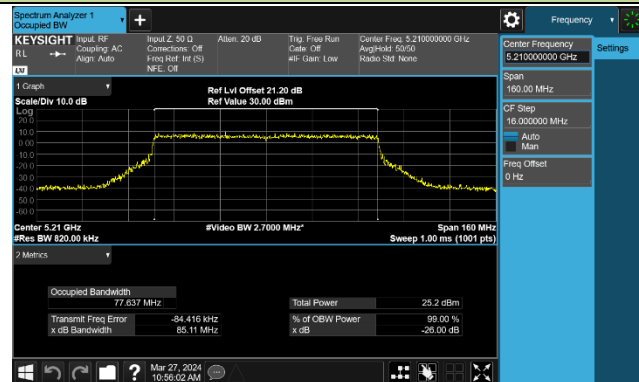
## Channel 142 (5710MHz)



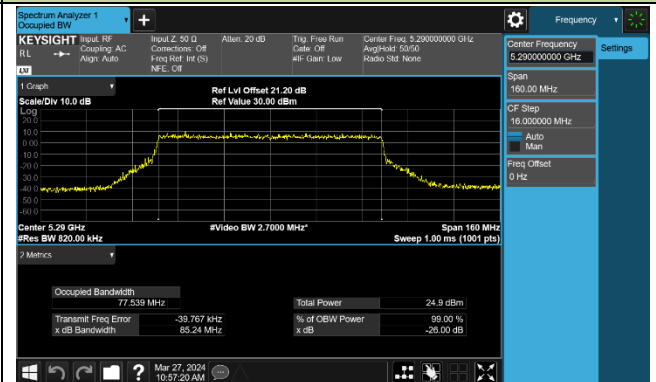


## 802.11be-EHT80 26dB Bandwidth &amp; 99% Bandwidth

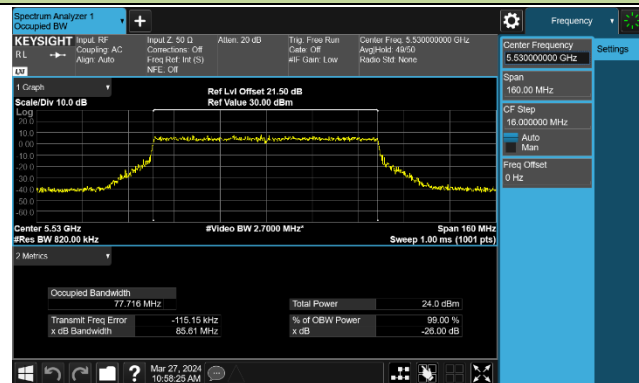
## Channel 42 (5210MHz)



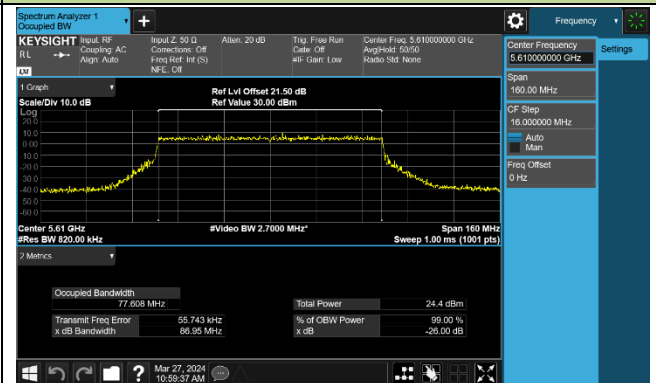
## Channel 58 (5290MHz)



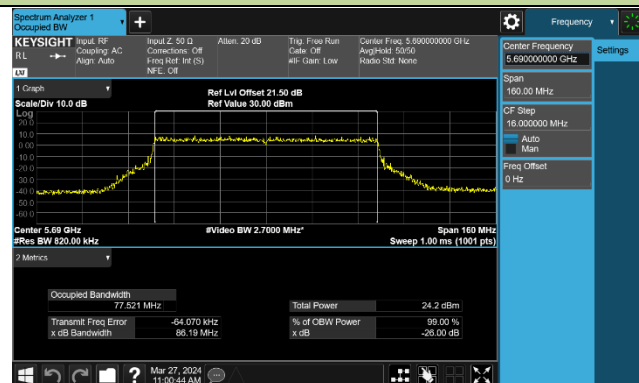
## Channel 106 (5530MHz)



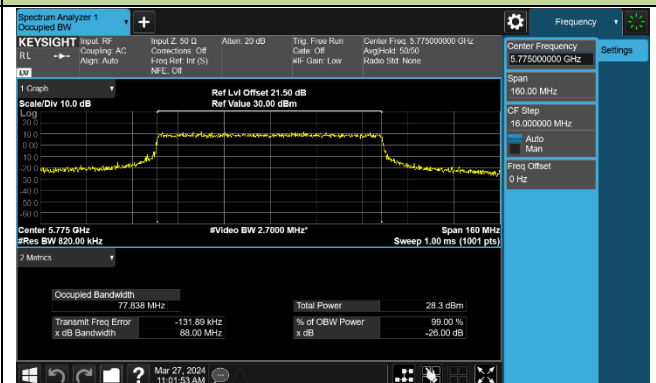
## Channel 122 (5610MHz)



## Channel 138 (5690MHz)

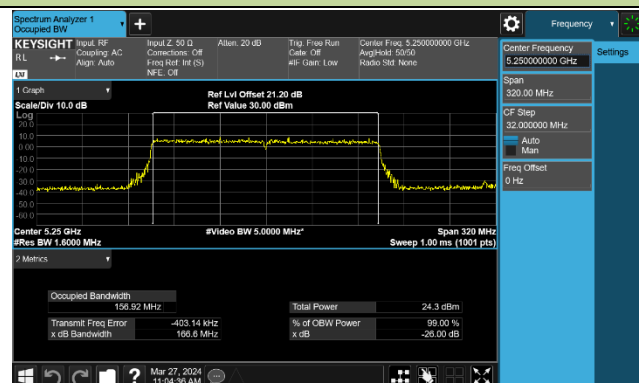


## Channel 155 (5775MHz)

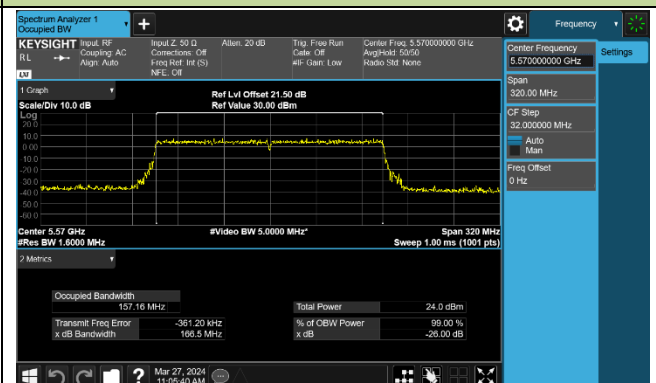


## 802.11be-EHT160 26dB Bandwidth &amp; 99% Bandwidth

## Channel 50 (5250MHz)

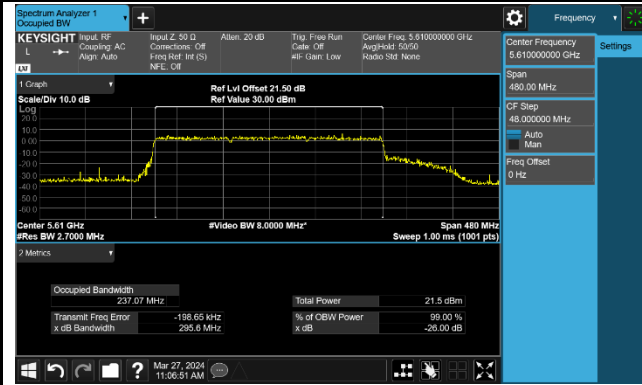


## Channel 114 (5570MHz)



## 802.11be-EHT240 26dB Bandwidth &amp; 99% Bandwidth

## Channel 130 (5650MHz)



### 7.3. 6dB Bandwidth Measurement

#### 7.3.1. Test Limit

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

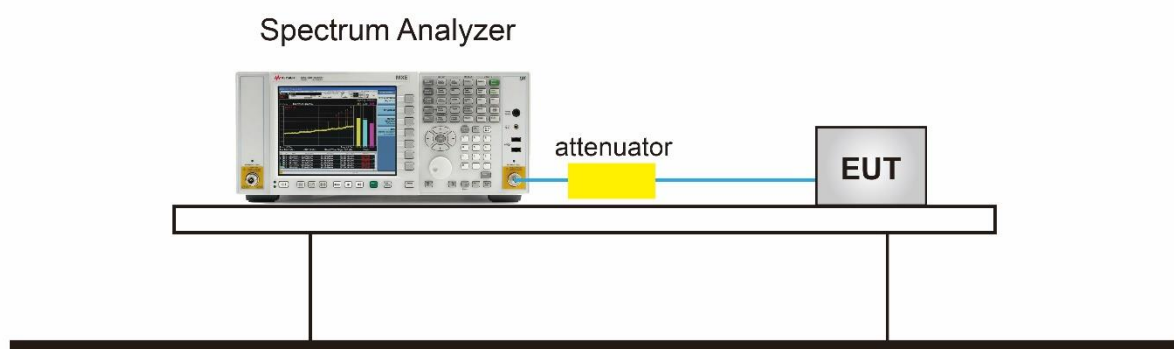
#### 7.3.2. Test Procedure used

KDB 789033 D02v02r01- Section C.2

#### 7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW  $3 \times$  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.

#### 7.3.4. Test Setup





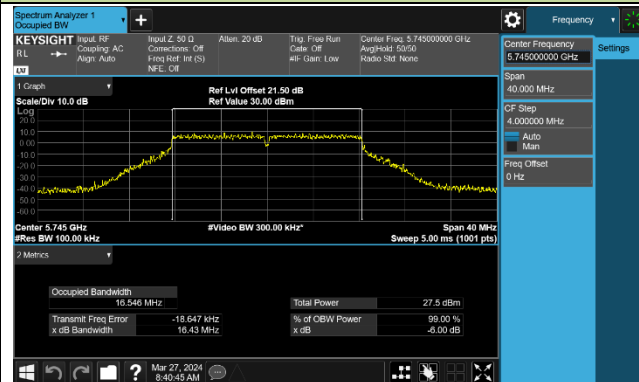
### 7.3.5.Test Result

|           |                                        |               |                    |
|-----------|----------------------------------------|---------------|--------------------|
| Product   | BE11000 Tri-Band Wi-Fi 7 Gaming Router | Test Engineer | Owen               |
| Test Site | SR6                                    | Test Date     | 2024/3/27~2024/4/2 |

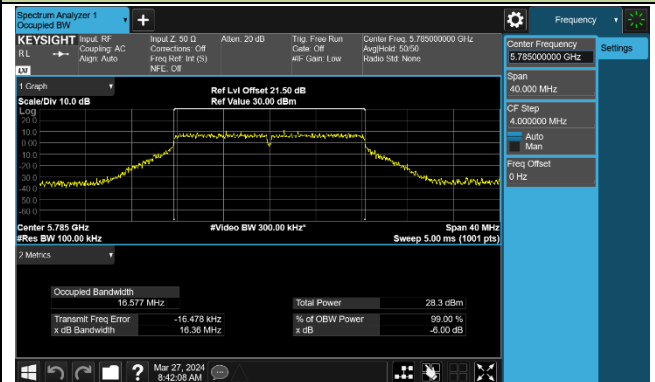
| Test Mode      | Data Rate/<br>MCS | Channel<br>No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(MHz) | Result |
|----------------|-------------------|----------------|--------------------|------------------------|----------------|--------|
| Ant 1          |                   |                |                    |                        |                |        |
| 802.11a        | 6Mbps             | 149            | 5745               | 16.430                 | ≥ 0.5          | Pass   |
| 802.11a        | 6Mbps             | 157            | 5785               | 16.360                 | ≥ 0.5          | Pass   |
| 802.11a        | 6Mbps             | 165            | 5825               | 16.350                 | ≥ 0.5          | Pass   |
| 802.11ac-VHT20 | MCS0              | 149            | 5745               | 17.630                 | ≥ 0.5          | Pass   |
| 802.11ac-VHT20 | MCS0              | 157            | 5785               | 17.710                 | ≥ 0.5          | Pass   |
| 802.11ac-VHT20 | MCS0              | 165            | 5825               | 17.630                 | ≥ 0.5          | Pass   |
| 802.11ac-VHT40 | MCS0              | 151            | 5755               | 36.560                 | ≥ 0.5          | Pass   |
| 802.11ac-VHT40 | MCS0              | 159            | 5795               | 36.450                 | ≥ 0.5          | Pass   |
| 802.11ac-VHT80 | MCS0              | 155            | 5775               | 76.520                 | ≥ 0.5          | Pass   |
| 802.11ax-HE20  | MCS0              | 149            | 5745               | 18.870                 | ≥ 0.5          | Pass   |
| 802.11ax-HE20  | MCS0              | 157            | 5785               | 19.040                 | ≥ 0.5          | Pass   |
| 802.11ax-HE20  | MCS0              | 165            | 5825               | 19.100                 | ≥ 0.5          | Pass   |
| 802.11ax-HE40  | MCS0              | 151            | 5755               | 38.280                 | ≥ 0.5          | Pass   |
| 802.11ax-HE40  | MCS0              | 159            | 5795               | 38.080                 | ≥ 0.5          | Pass   |
| 802.11ax-HE80  | MCS0              | 155            | 5775               | 78.110                 | ≥ 0.5          | Pass   |
| 802.11be-EHT20 | MCS0              | 149            | 5745               | 18.850                 | ≥ 0.5          | Pass   |
| 802.11be-EHT20 | MCS0              | 157            | 5785               | 19.170                 | ≥ 0.5          | Pass   |
| 802.11be-EHT20 | MCS0              | 165            | 5825               | 19.100                 | ≥ 0.5          | Pass   |
| 802.11be-EHT40 | MCS0              | 151            | 5755               | 37.920                 | ≥ 0.5          | Pass   |
| 802.11be-EHT40 | MCS0              | 159            | 5795               | 38.200                 | ≥ 0.5          | Pass   |
| 802.11be-EHT80 | MCS0              | 155            | 5775               | 78.100                 | ≥ 0.5          | Pass   |

## 802.11a 6dB Bandwidth

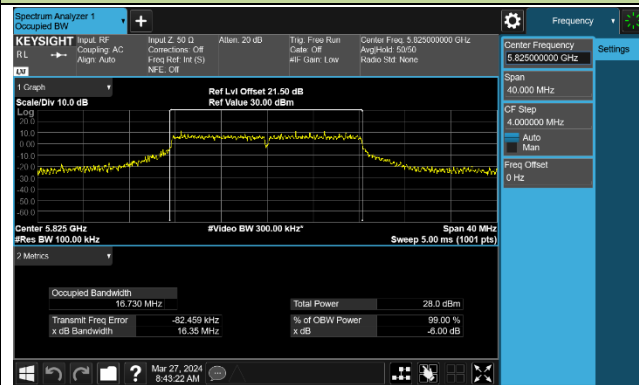
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

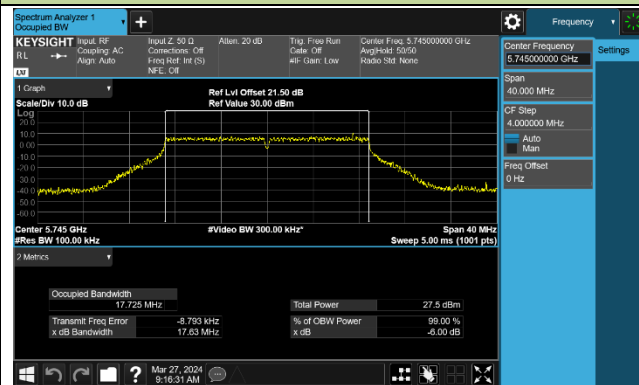


## Channel 165 (5825MHz)

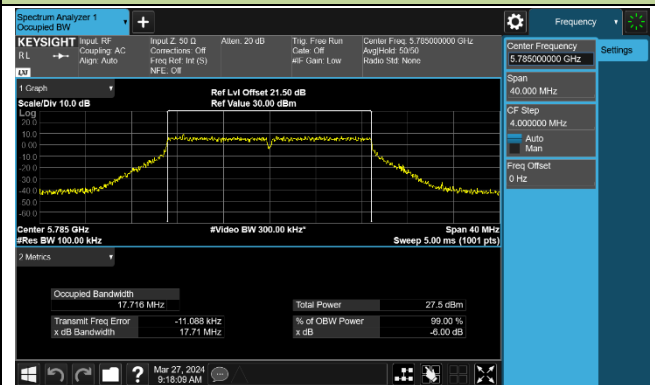


## 802.11ac-VHT20 6dB Bandwidth

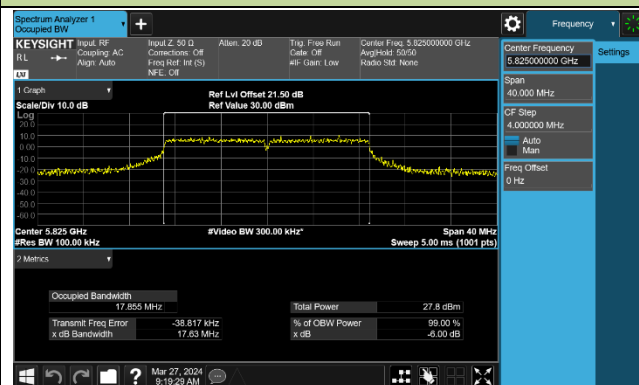
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

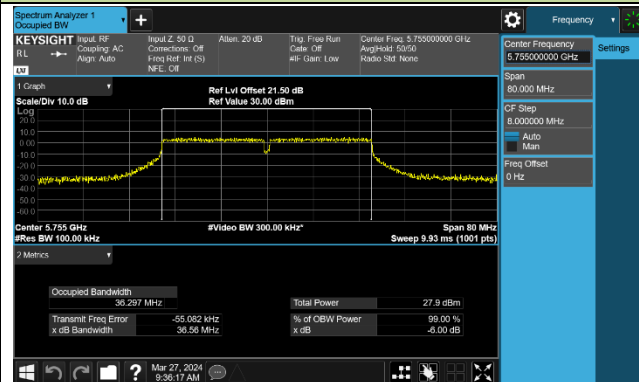


## Channel 165 (5825MHz)

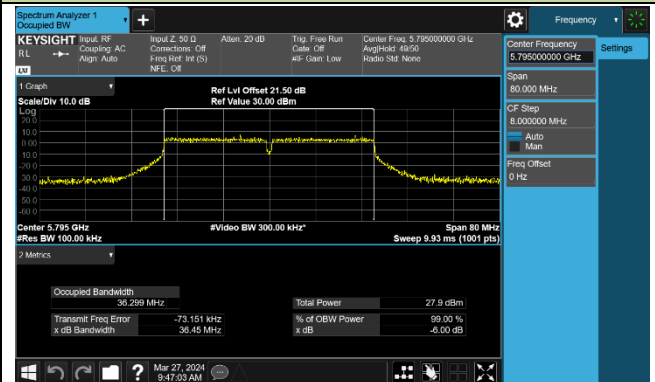


## 802.11ac-VHT40 6dB Bandwidth

## Channel 151 (5755MHz)

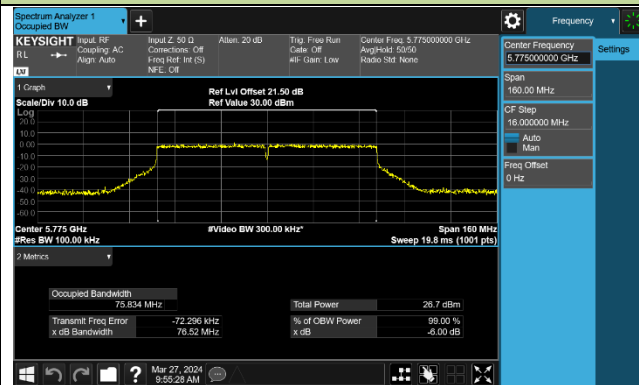


## Channel 159 (5795MHz)



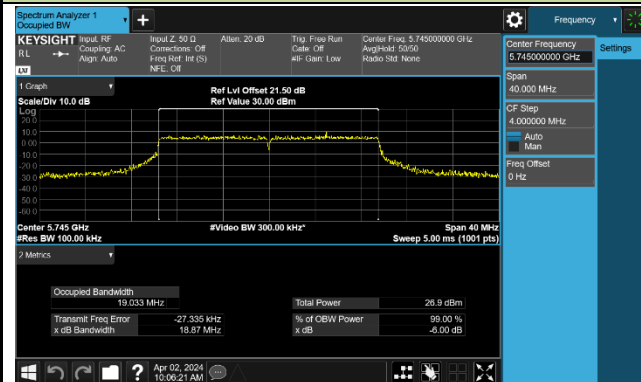
## 802.11ac-VHT80 6dB Bandwidth

## Channel 155 (5775MHz)

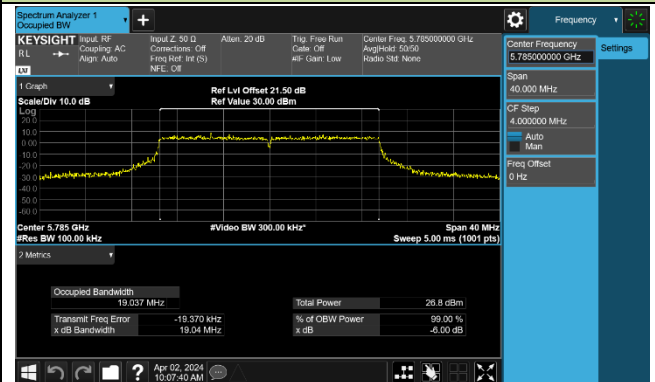


## 802.11ax-HE20 6dB Bandwidth

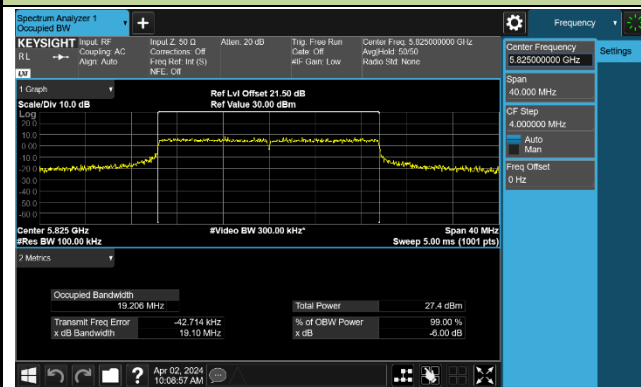
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

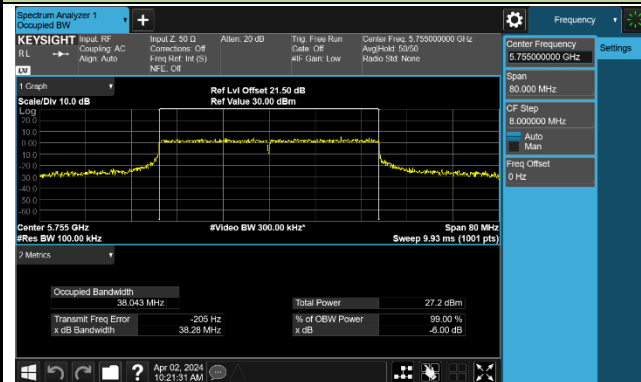


## Channel 165 (5825MHz)

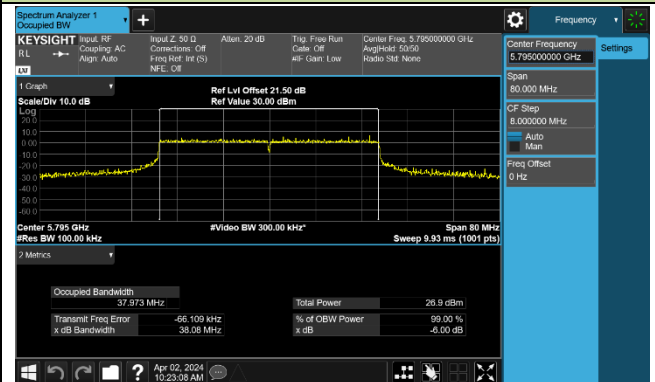


## 802.11ax-HE40 6dB Bandwidth

## Channel 151 (5755MHz)

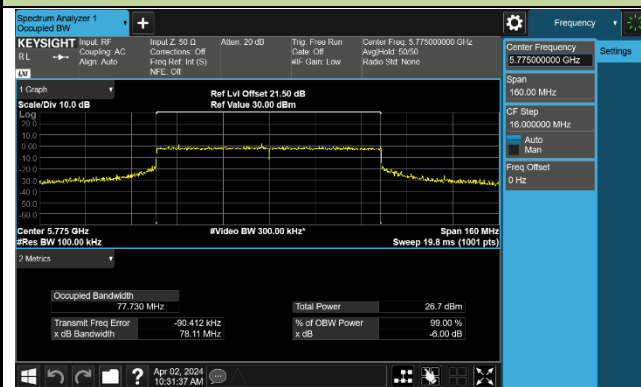


## Channel 159 (5795MHz)



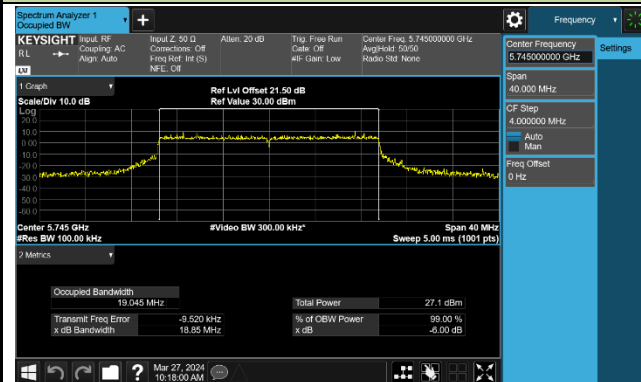
## 802.11ax-HE80 6dB Bandwidth

## Channel 155 (5775MHz)

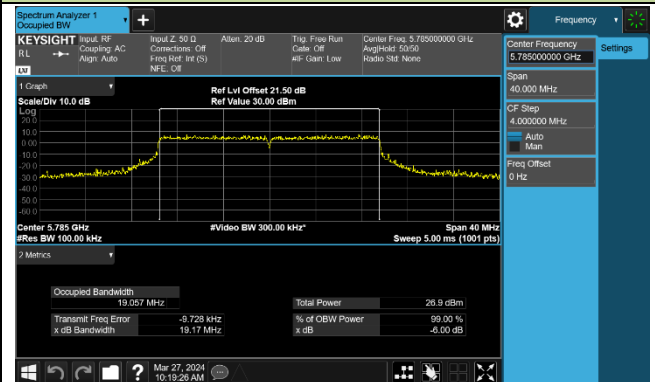


## 802.11be-EHT20 6dB Bandwidth

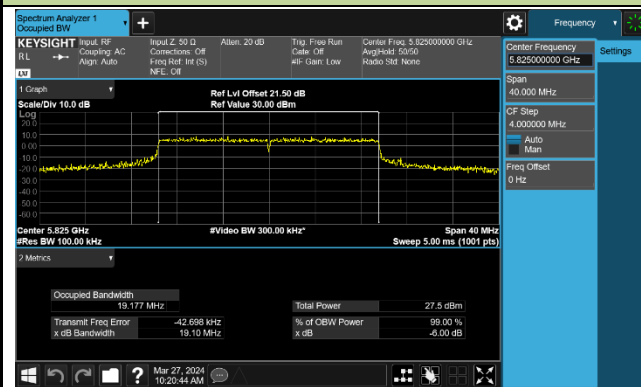
## Channel 149 (5745MHz)



## Channel 157 (5785MHz)

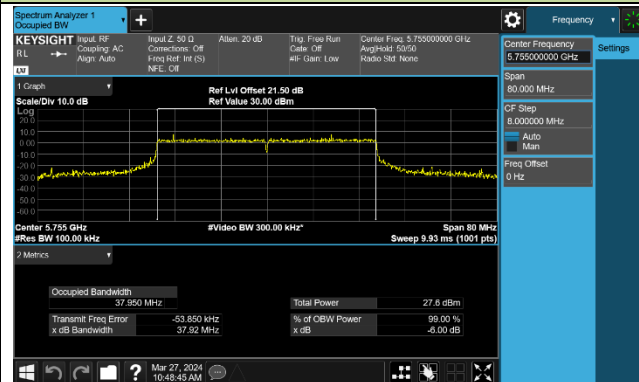


## Channel 165 (5825MHz)

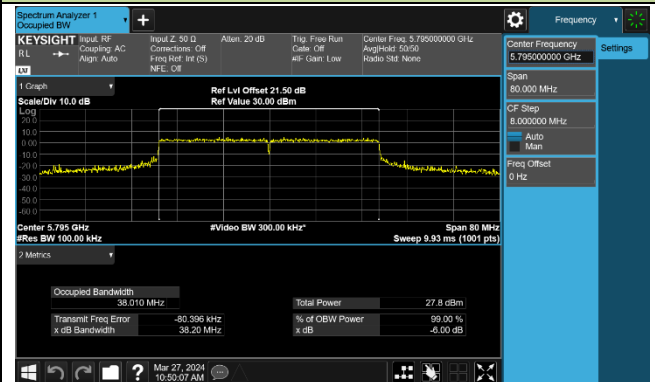


## 802.11be-EHT 40 6dB Bandwidth

## Channel 151 (5755MHz)

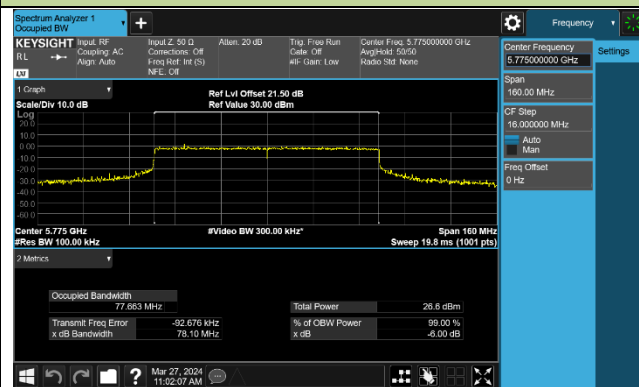


## Channel 159 (5795MHz)



## 802.11be-EHT 80 6dB Bandwidth

## Channel 155 (5775MHz)



## 7.4. Output Power Measurement

### 7.4.1. Test Limit

For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W 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 (30 dBm).

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.

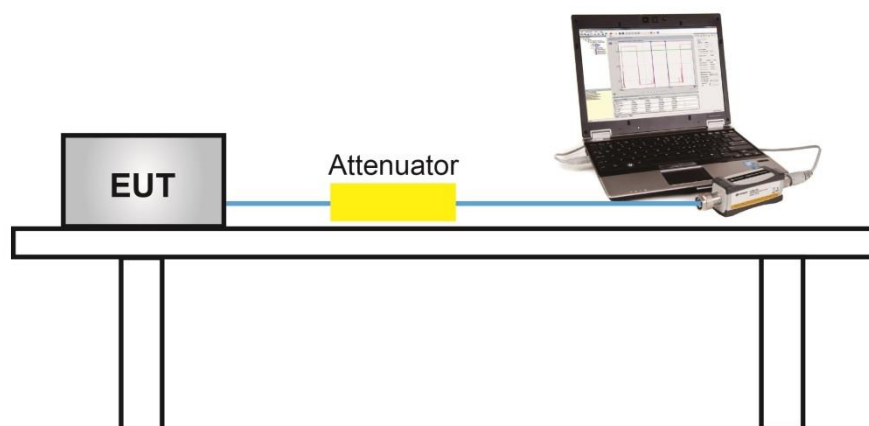
### 7.4.2. Test Procedure Used

KDB 789033D02v02r01- Section E)3)b) Method PM-G

### 7.4.3. 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.

### 7.4.4. Test Setup





### 7.4.5. Test Result

|           |                                        |               |                   |
|-----------|----------------------------------------|---------------|-------------------|
| Product   | BE11000 Tri-Band Wi-Fi 7 Gaming Router | Test Engineer | Owen              |
| Test Site | SR6                                    | Test Date     | 2024/1/9~2024/4/2 |
| Test Mode | CDD Mode                               |               |                   |

| Test Mode  | Data Rate/<br>MCS | Channel No. | Freq. (MHz) | Ant 0 Average Power (dBm) | Ant 1 Average Power (dBm) | Total Average Power (dBm) | Power Limit (dBm) | Result |
|------------|-------------------|-------------|-------------|---------------------------|---------------------------|---------------------------|-------------------|--------|
| 11a        | 6Mbps             | 36          | 5180        | 24.30                     | 24.23                     | 27.28                     | ≤ 30.00           | Pass   |
| 11a        | 6Mbps             | 44          | 5220        | 24.35                     | 24.51                     | 27.44                     | ≤ 30.00           | Pass   |
| 11a        | 6Mbps             | 48          | 5240        | 24.55                     | 24.75                     | 27.66                     | ≤ 30.00           | Pass   |
| 11a        | 6Mbps             | 52          | 5260        | 19.79                     | 19.75                     | 22.78                     | ≤ 23.98           | Pass   |
| 11a        | 6Mbps             | 60          | 5300        | 19.43                     | 19.35                     | 22.40                     | ≤ 23.98           | Pass   |
| 11a        | 6Mbps             | 64          | 5320        | 19.13                     | 19.33                     | 22.24                     | ≤ 23.98           | Pass   |
| 11a        | 6Mbps             | 100         | 5500        | 19.96                     | 19.62                     | 22.80                     | ≤ 23.98           | Pass   |
| 11a        | 6Mbps             | 116         | 5580        | 19.84                     | 19.85                     | 22.86                     | ≤ 23.98           | Pass   |
| 11a        | 6Mbps             | 140         | 5700        | 19.66                     | 19.37                     | 22.53                     | ≤ 23.98           | Pass   |
| 11a        | 6Mbps             | 144         | 5720        | 19.77                     | 19.22                     | 22.51                     | ≤ 23.00           | Pass   |
| 11a        | 6Mbps             | 149         | 5745        | 24.08                     | 24.05                     | 27.08                     | ≤ 30.00           | Pass   |
| 11a        | 6Mbps             | 157         | 5785        | 24.50                     | 24.47                     | 27.50                     | ≤ 30.00           | Pass   |
| 11a        | 6Mbps             | 165         | 5825        | 24.11                     | 24.07                     | 27.10                     | ≤ 30.00           | Pass   |
| 11ac-VHT20 | MCS0              | 36          | 5180        | 24.24                     | 24.37                     | 27.32                     | ≤ 30.00           | Pass   |
| 11ac-VHT20 | MCS0              | 40          | 5220        | 24.32                     | 24.55                     | 27.45                     | ≤ 30.00           | Pass   |
| 11ac-VHT20 | MCS0              | 48          | 5240        | 24.23                     | 24.18                     | 27.22                     | ≤ 30.00           | Pass   |
| 11ac-VHT20 | MCS0              | 52          | 5260        | 19.88                     | 19.78                     | 22.84                     | ≤ 23.98           | Pass   |
| 11ac-VHT20 | MCS0              | 60          | 5300        | 19.47                     | 19.41                     | 22.45                     | ≤ 23.98           | Pass   |
| 11ac-VHT20 | MCS0              | 64          | 5320        | 19.50                     | 19.77                     | 22.65                     | ≤ 23.98           | Pass   |
| 11ac-VHT20 | MCS0              | 100         | 5500        | 20.00                     | 19.63                     | 22.83                     | ≤ 23.98           | Pass   |
| 11ac-VHT20 | MCS0              | 116         | 5580        | 20.16                     | 20.09                     | 23.14                     | ≤ 23.98           | Pass   |
| 11ac-VHT20 | MCS0              | 140         | 5700        | 20.02                     | 19.90                     | 22.97                     | ≤ 23.98           | Pass   |
| 11ac-VHT20 | MCS0              | 144         | 5720        | 19.83                     | 19.45                     | 22.65                     | ≤ 23.20           | Pass   |
| 11ac-VHT20 | MCS0              | 149         | 5745        | 24.05                     | 24.07                     | 27.07                     | ≤ 30.00           | Pass   |
| 11ac-VHT20 | MCS0              | 157         | 5785        | 24.06                     | 24.01                     | 27.05                     | ≤ 30.00           | Pass   |
| 11ac-VHT20 | MCS0              | 165         | 5825        | 24.02                     | 24.23                     | 27.14                     | ≤ 30.00           | 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) | Power Limit (dBm) | Result |
|-------------|-------------------|-------------|-------------|---------------------------|---------------------------|---------------------------|-------------------|--------|
| 11ac-VHT40  | MCS0              | 38          | 5190        | 23.56                     | 23.38                     | 26.48                     | ≤ 30.00           | Pass   |
| 11ac-VHT40  | MCS0              | 46          | 5230        | 24.48                     | 24.79                     | 27.65                     | ≤ 30.00           | Pass   |
| 11ac-VHT40  | MCS0              | 54          | 5270        | 20.52                     | 20.40                     | 23.47                     | ≤ 23.98           | Pass   |
| 11ac-VHT40  | MCS0              | 62          | 5310        | 20.51                     | 20.83                     | 23.68                     | ≤ 23.98           | Pass   |
| 11ac-VHT40  | MCS0              | 102         | 5510        | 20.37                     | 20.29                     | 23.34                     | ≤ 23.98           | Pass   |
| 11ac-VHT40  | MCS0              | 110         | 5550        | 20.50                     | 20.54                     | 23.53                     | ≤ 23.98           | Pass   |
| 11ac-VHT40  | MCS0              | 134         | 5670        | 20.89                     | 20.81                     | 23.86                     | ≤ 23.98           | Pass   |
| 11ac-VHT40  | MCS0              | 142         | 5710        | 20.80                     | 20.96                     | 23.89                     | ≤ 23.98           | Pass   |
| 11ac-VHT40  | MCS0              | 151         | 5755        | 24.44                     | 24.73                     | 27.60                     | ≤ 30.00           | Pass   |
| 11ac-VHT40  | MCS0              | 159         | 5795        | 24.07                     | 24.22                     | 27.16                     | ≤ 30.00           | Pass   |
| 11ac-VHT80  | MCS0              | 42          | 5210        | 22.77                     | 23.13                     | 25.96                     | ≤ 30.00           | Pass   |
| 11ac-VHT80  | MCS0              | 58          | 5290        | 20.84                     | 20.60                     | 23.73                     | ≤ 23.98           | Pass   |
| 11ac-VHT80  | MCS0              | 106         | 5530        | 20.23                     | 20.07                     | 23.16                     | ≤ 23.98           | Pass   |
| 11ac-VHT80  | MCS0              | 122         | 5610        | 20.83                     | 20.75                     | 23.80                     | ≤ 23.98           | Pass   |
| 11ac-VHT80  | MCS0              | 138         | 5690        | 20.49                     | 20.65                     | 23.58                     | ≤ 23.98           | Pass   |
| 11ac-VHT80  | MCS0              | 155         | 5775        | 24.11                     | 24.04                     | 27.09                     | ≤ 30.00           | Pass   |
| 11ac-VHT160 | MCS0              | 50          | 5250        | 20.22                     | 20.13                     | 23.19                     | ≤ 23.98           | Pass   |
| 11ac-VHT160 | MCS0              | 114         | 5570        | 20.48                     | 20.52                     | 23.51                     | ≤ 23.98           | Pass   |
| 11ax-HE20   | MCS0              | 36          | 5180        | 24.44                     | 24.52                     | 27.49                     | ≤ 30.00           | Pass   |
| 11ax-HE20   | MCS0              | 40          | 5220        | 24.51                     | 24.59                     | 27.56                     | ≤ 30.00           | Pass   |
| 11ax-HE20   | MCS0              | 48          | 5240        | 24.35                     | 24.54                     | 27.46                     | ≤ 30.00           | Pass   |
| 11ax-HE20   | MCS0              | 52          | 5260        | 19.98                     | 20.03                     | 23.02                     | ≤ 23.98           | Pass   |
| 11ax-HE20   | MCS0              | 60          | 5300        | 19.63                     | 19.73                     | 22.69                     | ≤ 23.98           | Pass   |
| 11ax-HE20   | MCS0              | 64          | 5320        | 19.61                     | 20.12                     | 22.88                     | ≤ 23.98           | Pass   |
| 11ax-HE20   | MCS0              | 100         | 5500        | 20.23                     | 19.90                     | 23.08                     | ≤ 23.98           | Pass   |
| 11ax-HE20   | MCS0              | 116         | 5580        | 20.40                     | 20.27                     | 23.35                     | ≤ 23.98           | Pass   |
| 11ax-HE20   | MCS0              | 140         | 5700        | 20.16                     | 20.08                     | 23.13                     | ≤ 23.98           | Pass   |
| 11ax-HE20   | MCS0              | 144         | 5720        | 19.98                     | 19.58                     | 22.79                     | ≤ 23.02           | Pass   |
| 11ax-HE20   | MCS0              | 149         | 5745        | 24.11                     | 24.11                     | 27.12                     | ≤ 30.00           | Pass   |
| 11ax-HE20   | MCS0              | 157         | 5785        | 24.08                     | 24.13                     | 27.12                     | ≤ 30.00           | Pass   |
| 11ax-HE20   | MCS0              | 165         | 5825        | 24.10                     | 24.34                     | 27.23                     | ≤ 30.00           | 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) | Power Limit (dBm) | Result |
|------------|-------------------|-------------|-------------|---------------------------|---------------------------|---------------------------|-------------------|--------|
| 11ax-HE40  | MCS0              | 38          | 5190        | 23.95                     | 24.01                     | 26.99                     | ≤ 30.00           | Pass   |
| 11ax-HE40  | MCS0              | 46          | 5230        | 24.44                     | 24.76                     | 27.61                     | ≤ 30.00           | Pass   |
| 11ax-HE40  | MCS0              | 54          | 5270        | 20.91                     | 20.87                     | 23.90                     | ≤ 23.98           | Pass   |
| 11ax-HE40  | MCS0              | 62          | 5310        | 20.46                     | 20.81                     | 23.65                     | ≤ 23.98           | Pass   |
| 11ax-HE40  | MCS0              | 102         | 5510        | 20.34                     | 20.30                     | 23.33                     | ≤ 23.98           | Pass   |
| 11ax-HE40  | MCS0              | 110         | 5550        | 20.45                     | 20.52                     | 23.50                     | ≤ 23.98           | Pass   |
| 11ax-HE40  | MCS0              | 134         | 5670        | 20.80                     | 20.82                     | 23.82                     | ≤ 23.98           | Pass   |
| 11ax-HE40  | MCS0              | 142         | 5710        | 20.80                     | 20.95                     | 23.89                     | ≤ 23.98           | Pass   |
| 11ax-HE40  | MCS0              | 151         | 5755        | 24.46                     | 24.64                     | 27.56                     | ≤ 30.00           | Pass   |
| 11ax-HE40  | MCS0              | 159         | 5795        | 24.02                     | 24.21                     | 27.13                     | ≤ 30.00           | Pass   |
| 11ax-HE80  | MCS0              | 42          | 5210        | 22.25                     | 22.44                     | 25.36                     | ≤ 30.00           | Pass   |
| 11ax-HE80  | MCS0              | 58          | 5290        | 20.60                     | 20.84                     | 23.73                     | ≤ 23.98           | Pass   |
| 11ax-HE80  | MCS0              | 106         | 5530        | 20.28                     | 20.07                     | 23.19                     | ≤ 23.98           | Pass   |
| 11ax-HE80  | MCS0              | 122         | 5610        | 20.74                     | 20.69                     | 23.73                     | ≤ 23.98           | Pass   |
| 11ax-HE80  | MCS0              | 138         | 5690        | 20.47                     | 20.57                     | 23.53                     | ≤ 23.98           | Pass   |
| 11ax-HE80  | MCS0              | 155         | 5775        | 24.62                     | 24.52                     | 27.58                     | ≤ 30.00           | Pass   |
| 11ax-HE160 | MCS0              | 50          | 5250        | 20.57                     | 20.60                     | 23.60                     | ≤ 23.98           | Pass   |
| 11ax-HE160 | MCS0              | 114         | 5570        | 20.52                     | 20.47                     | 23.51                     | ≤ 23.98           | Pass   |
| 11be-EHT20 | MCS0              | 36          | 5180        | 24.04                     | 23.94                     | 27.00                     | ≤ 30.00           | Pass   |
| 11be-EHT20 | MCS0              | 40          | 5220        | 24.45                     | 24.61                     | 27.54                     | ≤ 30.00           | Pass   |
| 11be-EHT20 | MCS0              | 48          | 5240        | 24.25                     | 24.37                     | 27.32                     | ≤ 30.00           | Pass   |
| 11be-EHT20 | MCS0              | 52          | 5260        | 20.10                     | 19.99                     | 23.06                     | ≤ 23.98           | Pass   |
| 11be-EHT20 | MCS0              | 60          | 5300        | 20.21                     | 20.31                     | 23.27                     | ≤ 23.98           | Pass   |
| 11be-EHT20 | MCS0              | 64          | 5320        | 19.68                     | 19.99                     | 22.85                     | ≤ 23.98           | Pass   |
| 11be-EHT20 | MCS0              | 100         | 5500        | 20.02                     | 19.89                     | 22.97                     | ≤ 23.98           | Pass   |
| 11be-EHT20 | MCS0              | 116         | 5580        | 20.34                     | 20.22                     | 23.29                     | ≤ 23.98           | Pass   |
| 11be-EHT20 | MCS0              | 140         | 5700        | 20.14                     | 20.05                     | 23.11                     | ≤ 23.98           | Pass   |
| 11be-EHT20 | MCS0              | 144         | 5720        | 20.01                     | 19.82                     | 22.93                     | ≤ 23.16           | Pass   |
| 11be-EHT20 | MCS0              | 149         | 5745        | 24.23                     | 24.15                     | 27.20                     | ≤ 30.00           | Pass   |
| 11be-EHT20 | MCS0              | 157         | 5785        | 24.11                     | 24.05                     | 27.09                     | ≤ 30.00           | Pass   |
| 11be-EHT20 | MCS0              | 165         | 5825        | 24.10                     | 24.17                     | 27.15                     | ≤ 30.00           | 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) | Power Limit (dBm) | Result |
|-------------|-------------------|-------------|-------------|---------------------------|---------------------------|---------------------------|-------------------|--------|
| 11be-EHT40  | MCS0              | 38          | 5190        | 23.39                     | 23.27                     | 26.34                     | ≤ 30.00           | Pass   |
| 11be-EHT40  | MCS0              | 46          | 5230        | 24.18                     | 24.55                     | 27.38                     | ≤ 30.00           | Pass   |
| 11be-EHT40  | MCS0              | 54          | 5270        | 20.54                     | 20.67                     | 23.62                     | ≤ 23.98           | Pass   |
| 11be-EHT40  | MCS0              | 62          | 5310        | 20.28                     | 20.58                     | 23.44                     | ≤ 23.98           | Pass   |
| 11be-EHT40  | MCS0              | 102         | 5510        | 20.43                     | 20.56                     | 23.51                     | ≤ 23.98           | Pass   |
| 11be-EHT40  | MCS0              | 110         | 5550        | 20.72                     | 20.78                     | 23.76                     | ≤ 23.98           | Pass   |
| 11be-EHT40  | MCS0              | 134         | 5670        | 20.67                     | 20.59                     | 23.64                     | ≤ 23.98           | Pass   |
| 11be-EHT40  | MCS0              | 142         | 5710        | 20.60                     | 20.68                     | 23.65                     | ≤ 23.98           | Pass   |
| 11be-EHT40  | MCS0              | 151         | 5755        | 24.33                     | 24.46                     | 27.41                     | ≤ 30.00           | Pass   |
| 11be-EHT40  | MCS0              | 159         | 5795        | 24.60                     | 24.67                     | 27.65                     | ≤ 30.00           | Pass   |
| 11be-EHT80  | MCS0              | 42          | 5210        | 21.33                     | 21.33                     | 24.34                     | ≤ 30.00           | Pass   |
| 11be-EHT80  | MCS0              | 58          | 5290        | 20.63                     | 20.87                     | 23.76                     | ≤ 23.98           | Pass   |
| 11be-EHT80  | MCS0              | 106         | 5530        | 20.26                     | 20.13                     | 23.21                     | ≤ 23.98           | Pass   |
| 11be-EHT80  | MCS0              | 122         | 5610        | 20.66                     | 20.68                     | 23.68                     | ≤ 23.98           | Pass   |
| 11be-EHT80  | MCS0              | 138         | 5690        | 20.54                     | 20.55                     | 23.56                     | ≤ 23.98           | Pass   |
| 11be-EHT80  | MCS0              | 155         | 5775        | 24.50                     | 24.48                     | 27.50                     | ≤ 30.00           | Pass   |
| 11be-EHT160 | MCS0              | 50          | 5250        | 20.55                     | 20.58                     | 23.58                     | ≤ 23.98           | Pass   |
| 11be-EHT160 | MCS0              | 114         | 5570        | 20.50                     | 20.40                     | 23.46                     | ≤ 23.98           | Pass   |
| 11be-EHT240 | MCS0              | 130         | 5650        | 13.53                     | 13.00                     | 16.28                     | ≤ 23.98           | 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:

For 5250- 5350MHz and 5470 - 5725MHz Band: Average Power Limit (dBm) = 23.98 dBm.

For 5150 - 5250MHz and 5725 - 5850MHz Bands: Average Power Limit (dBm) = 30 dBm.

For Channel 144 (5720MHz), Average Power Limit (dBm) =  $11 + 10 \cdot \log(5\text{MHz} + BW_{26\text{dBc}}/2)$

|               |                                        |                   |                   |
|---------------|----------------------------------------|-------------------|-------------------|
| Product       | BE11000 Tri-Band Wi-Fi 7 Gaming Router | Temperature       | 25°C              |
| Test Engineer | Owen                                   | Relative Humidity | 56%               |
| Test Site     | SR6                                    | Test Date         | 2024/1/9~2024/4/2 |
| Test Mode     | Beamforming Mode                       |                   |                   |

| Test Mode  | Data Rate/<br>MCS | Channel No. | Freq. (MHz) | Ant 0 Average Power (dBm) | Ant 1 Average Power (dBm) | Total Average Power (dBm) | Power Limit (dBm) | Result |
|------------|-------------------|-------------|-------------|---------------------------|---------------------------|---------------------------|-------------------|--------|
| 11ac-VHT20 | MCS0              | 36          | 5180        | 24.24                     | 24.37                     | 27.32                     | ≤ 29.99           | Pass   |
| 11ac-VHT20 | MCS0              | 40          | 5220        | 24.32                     | 24.55                     | 27.45                     | ≤ 29.99           | Pass   |
| 11ac-VHT20 | MCS0              | 48          | 5240        | 24.23                     | 24.18                     | 27.22                     | ≤ 29.99           | Pass   |
| 11ac-VHT20 | MCS0              | 52          | 5260        | 19.88                     | 19.78                     | 22.84                     | ≤ 23.97           | Pass   |
| 11ac-VHT20 | MCS0              | 60          | 5300        | 19.47                     | 19.41                     | 22.45                     | ≤ 23.97           | Pass   |
| 11ac-VHT20 | MCS0              | 64          | 5320        | 19.50                     | 19.77                     | 22.65                     | ≤ 23.97           | Pass   |
| 11ac-VHT20 | MCS0              | 100         | 5500        | 20.00                     | 19.63                     | 22.83                     | ≤ 23.97           | Pass   |
| 11ac-VHT20 | MCS0              | 116         | 5580        | 20.16                     | 20.09                     | 23.14                     | ≤ 23.97           | Pass   |
| 11ac-VHT20 | MCS0              | 140         | 5700        | 20.02                     | 19.90                     | 22.97                     | ≤ 23.97           | Pass   |
| 11ac-VHT20 | MCS0              | 144         | 5720        | 19.83                     | 19.45                     | 22.65                     | ≤ 23.19           | Pass   |
| 11ac-VHT20 | MCS0              | 149         | 5745        | 24.05                     | 24.07                     | 27.07                     | ≤ 29.99           | Pass   |
| 11ac-VHT20 | MCS0              | 157         | 5785        | 24.06                     | 24.01                     | 27.05                     | ≤ 29.99           | Pass   |
| 11ac-VHT20 | MCS0              | 165         | 5825        | 24.02                     | 24.23                     | 27.14                     | ≤ 29.99           | Pass   |
| 11ac-VHT40 | MCS0              | 38          | 5190        | 23.56                     | 23.38                     | 26.48                     | ≤ 29.99           | Pass   |
| 11ac-VHT40 | MCS0              | 46          | 5230        | 24.48                     | 24.79                     | 27.65                     | ≤ 29.99           | Pass   |
| 11ac-VHT40 | MCS0              | 54          | 5270        | 20.52                     | 20.40                     | 23.47                     | ≤ 23.97           | Pass   |
| 11ac-VHT40 | MCS0              | 62          | 5310        | 20.51                     | 20.83                     | 23.68                     | ≤ 23.97           | Pass   |
| 11ac-VHT40 | MCS0              | 102         | 5510        | 20.37                     | 20.29                     | 23.34                     | ≤ 23.97           | Pass   |
| 11ac-VHT40 | MCS0              | 110         | 5550        | 20.50                     | 20.54                     | 23.53                     | ≤ 23.97           | Pass   |
| 11ac-VHT40 | MCS0              | 134         | 5670        | 20.89                     | 20.81                     | 23.86                     | ≤ 23.97           | Pass   |
| 11ac-VHT40 | MCS0              | 142         | 5710        | 20.80                     | 20.96                     | 23.89                     | ≤ 23.97           | Pass   |
| 11ac-VHT40 | MCS0              | 151         | 5755        | 24.44                     | 24.73                     | 27.60                     | ≤ 29.99           | Pass   |
| 11ac-VHT40 | MCS0              | 159         | 5795        | 24.07                     | 24.22                     | 27.16                     | ≤ 29.99           | 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) | Power Limit (dBm) | Result |
|-------------|-------------------|-------------|-------------|---------------------------|---------------------------|---------------------------|-------------------|--------|
| 11ac-VHT80  | MCS0              | 42          | 5210        | 22.77                     | 23.13                     | 25.96                     | ≤ 29.99           | Pass   |
| 11ac-VHT80  | MCS0              | 58          | 5290        | 20.84                     | 20.60                     | 23.73                     | ≤ 23.97           | Pass   |
| 11ac-VHT80  | MCS0              | 106         | 5530        | 20.23                     | 20.07                     | 23.16                     | ≤ 23.97           | Pass   |
| 11ac-VHT80  | MCS0              | 122         | 5610        | 20.83                     | 20.75                     | 23.80                     | ≤ 23.97           | Pass   |
| 11ac-VHT80  | MCS0              | 138         | 5690        | 20.49                     | 20.65                     | 23.58                     | ≤ 23.97           | Pass   |
| 11ac-VHT80  | MCS0              | 155         | 5775        | 24.11                     | 24.04                     | 27.09                     | ≤ 29.99           | Pass   |
| 11ac-VHT160 | MCS0              | 50          | 5250        | 20.22                     | 20.13                     | 23.19                     | ≤ 23.97           | Pass   |
| 11ac-VHT160 | MCS0              | 114         | 5570        | 20.48                     | 20.52                     | 23.51                     | ≤ 23.97           | Pass   |
| 11ax-HE20   | MCS0              | 36          | 5180        | 24.44                     | 24.52                     | 27.49                     | ≤ 29.99           | Pass   |
| 11ax-HE20   | MCS0              | 40          | 5220        | 24.51                     | 24.59                     | 27.56                     | ≤ 29.99           | Pass   |
| 11ax-HE20   | MCS0              | 48          | 5240        | 24.35                     | 24.54                     | 27.46                     | ≤ 29.99           | Pass   |
| 11ax-HE20   | MCS0              | 52          | 5260        | 19.98                     | 20.03                     | 23.02                     | ≤ 23.97           | Pass   |
| 11ax-HE20   | MCS0              | 60          | 5300        | 19.63                     | 19.73                     | 22.69                     | ≤ 23.97           | Pass   |
| 11ax-HE20   | MCS0              | 64          | 5320        | 19.61                     | 20.12                     | 22.88                     | ≤ 23.97           | Pass   |
| 11ax-HE20   | MCS0              | 100         | 5500        | 20.23                     | 19.90                     | 23.08                     | ≤ 23.97           | Pass   |
| 11ax-HE20   | MCS0              | 116         | 5580        | 20.40                     | 20.27                     | 23.35                     | ≤ 23.97           | Pass   |
| 11ax-HE20   | MCS0              | 140         | 5700        | 20.16                     | 20.08                     | 23.13                     | ≤ 23.97           | Pass   |
| 11ax-HE20   | MCS0              | 144         | 5720        | 19.98                     | 19.58                     | 22.79                     | ≤ 23.01           | Pass   |
| 11ax-HE20   | MCS0              | 149         | 5745        | 24.11                     | 24.11                     | 27.12                     | ≤ 29.99           | Pass   |
| 11ax-HE20   | MCS0              | 157         | 5785        | 24.08                     | 24.13                     | 27.12                     | ≤ 29.99           | Pass   |
| 11ax-HE20   | MCS0              | 165         | 5825        | 24.10                     | 24.34                     | 27.23                     | ≤ 29.99           | Pass   |
| 11ax-HE40   | MCS0              | 38          | 5190        | 23.95                     | 24.01                     | 26.99                     | ≤ 29.99           | Pass   |
| 11ax-HE40   | MCS0              | 46          | 5230        | 24.44                     | 24.76                     | 27.61                     | ≤ 29.99           | Pass   |
| 11ax-HE40   | MCS0              | 54          | 5270        | 20.91                     | 20.87                     | 23.90                     | ≤ 23.97           | Pass   |
| 11ax-HE40   | MCS0              | 62          | 5310        | 20.46                     | 20.81                     | 23.65                     | ≤ 23.97           | Pass   |
| 11ax-HE40   | MCS0              | 102         | 5510        | 20.34                     | 20.30                     | 23.33                     | ≤ 23.97           | Pass   |
| 11ax-HE40   | MCS0              | 110         | 5550        | 20.45                     | 20.52                     | 23.50                     | ≤ 23.97           | Pass   |
| 11ax-HE40   | MCS0              | 134         | 5670        | 20.80                     | 20.82                     | 23.82                     | ≤ 23.97           | Pass   |
| 11ax-HE40   | MCS0              | 142         | 5710        | 20.80                     | 20.95                     | 23.89                     | ≤ 23.97           | Pass   |
| 11ax-HE40   | MCS0              | 151         | 5755        | 24.46                     | 24.64                     | 27.56                     | ≤ 29.99           | Pass   |
| 11ax-HE40   | MCS0              | 159         | 5795        | 24.02                     | 24.21                     | 27.13                     | ≤ 29.99           | 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) | Power Limit (dBm) | Result |
|------------|-------------------|-------------|-------------|---------------------------|---------------------------|---------------------------|-------------------|--------|
| 11ax-HE80  | MCS0              | 42          | 5210        | 22.25                     | 22.44                     | 25.36                     | ≤ 27.50           | Pass   |
| 11ax-HE80  | MCS0              | 58          | 5290        | 20.60                     | 20.84                     | 23.73                     | ≤ 23.97           | Pass   |
| 11ax-HE80  | MCS0              | 106         | 5530        | 20.28                     | 20.07                     | 23.19                     | ≤ 23.97           | Pass   |
| 11ax-HE80  | MCS0              | 122         | 5610        | 20.74                     | 20.69                     | 23.73                     | ≤ 23.97           | Pass   |
| 11ax-HE80  | MCS0              | 138         | 5690        | 20.47                     | 20.57                     | 23.53                     | ≤ 23.97           | Pass   |
| 11ax-HE80  | MCS0              | 155         | 5775        | 24.62                     | 24.52                     | 27.58                     | ≤ 29.99           | Pass   |
| 11ax-HE160 | MCS0              | 50          | 5250        | 20.57                     | 20.60                     | 23.60                     | ≤ 23.97           | Pass   |
| 11ax-HE160 | MCS0              | 114         | 5570        | 20.52                     | 20.47                     | 23.51                     | ≤ 23.97           | Pass   |
| 11be-EHT20 | MCS0              | 36          | 5180        | 24.04                     | 23.94                     | 27.00                     | ≤ 29.99           | Pass   |
| 11be-EHT20 | MCS0              | 40          | 5220        | 24.45                     | 24.61                     | 27.54                     | ≤ 29.99           | Pass   |
| 11be-EHT20 | MCS0              | 48          | 5240        | 24.25                     | 24.37                     | 27.32                     | ≤ 29.99           | Pass   |
| 11be-EHT20 | MCS0              | 52          | 5260        | 20.10                     | 19.99                     | 23.06                     | ≤ 23.97           | Pass   |
| 11be-EHT20 | MCS0              | 60          | 5300        | 20.21                     | 20.31                     | 23.27                     | ≤ 23.97           | Pass   |
| 11be-EHT20 | MCS0              | 64          | 5320        | 19.68                     | 19.99                     | 22.85                     | ≤ 23.97           | Pass   |
| 11be-EHT20 | MCS0              | 100         | 5500        | 20.02                     | 19.89                     | 22.97                     | ≤ 23.97           | Pass   |
| 11be-EHT20 | MCS0              | 116         | 5580        | 20.34                     | 20.22                     | 23.29                     | ≤ 23.97           | Pass   |
| 11be-EHT20 | MCS0              | 140         | 5700        | 20.14                     | 20.05                     | 23.11                     | ≤ 23.97           | Pass   |
| 11be-EHT20 | MCS0              | 144         | 5720        | 20.01                     | 19.82                     | 22.93                     | ≤ 23.14           | Pass   |
| 11be-EHT20 | MCS0              | 149         | 5745        | 24.23                     | 24.15                     | 27.20                     | ≤ 29.99           | Pass   |
| 11be-EHT20 | MCS0              | 157         | 5785        | 24.11                     | 24.05                     | 27.09                     | ≤ 29.99           | Pass   |
| 11be-EHT20 | MCS0              | 165         | 5825        | 24.10                     | 24.17                     | 27.15                     | ≤ 29.99           | Pass   |
| 11be-EHT40 | MCS0              | 38          | 5190        | 23.39                     | 23.27                     | 26.34                     | ≤ 29.99           | Pass   |
| 11be-EHT40 | MCS0              | 46          | 5230        | 24.18                     | 24.55                     | 27.38                     | ≤ 29.99           | Pass   |
| 11be-EHT40 | MCS0              | 54          | 5270        | 20.54                     | 20.67                     | 23.62                     | ≤ 23.97           | Pass   |
| 11be-EHT40 | MCS0              | 62          | 5310        | 20.28                     | 20.58                     | 23.44                     | ≤ 23.97           | Pass   |
| 11be-EHT40 | MCS0              | 102         | 5510        | 20.43                     | 20.56                     | 23.51                     | ≤ 23.97           | Pass   |
| 11be-EHT40 | MCS0              | 110         | 5550        | 20.72                     | 20.78                     | 23.76                     | ≤ 23.97           | Pass   |
| 11be-EHT40 | MCS0              | 134         | 5670        | 20.67                     | 20.59                     | 23.64                     | ≤ 23.97           | Pass   |
| 11be-EHT40 | MCS0              | 142         | 5710        | 20.60                     | 20.68                     | 23.65                     | ≤ 23.97           | Pass   |
| 11be-EHT40 | MCS0              | 151         | 5755        | 24.33                     | 24.46                     | 27.41                     | ≤ 29.99           | Pass   |
| 11be-EHT40 | MCS0              | 159         | 5795        | 24.60                     | 24.67                     | 27.65                     | ≤ 29.99           | 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) | Power Limit (dBm) | Result |
|-------------|-------------------|-------------|-------------|---------------------------|---------------------------|---------------------------|-------------------|--------|
| 11be-EHT80  | MCS0              | 42          | 5210        | 21.33                     | 21.33                     | 24.34                     | ≤ 29.99           | Pass   |
| 11be-EHT80  | MCS0              | 58          | 5290        | 20.63                     | 20.87                     | 23.76                     | ≤ 23.97           | Pass   |
| 11be-EHT80  | MCS0              | 106         | 5530        | 20.26                     | 20.13                     | 23.21                     | ≤ 23.97           | Pass   |
| 11be-EHT80  | MCS0              | 122         | 5610        | 20.66                     | 20.68                     | 23.68                     | ≤ 23.97           | Pass   |
| 11be-EHT80  | MCS0              | 138         | 5690        | 20.54                     | 20.55                     | 23.56                     | ≤ 23.97           | Pass   |
| 11be-EHT80  | MCS0              | 155         | 5775        | 24.50                     | 24.48                     | 27.50                     | ≤ 29.99           | Pass   |
| 11be-EHT160 | MCS0              | 50          | 5250        | 20.55                     | 20.58                     | 23.58                     | ≤ 23.97           | Pass   |
| 11be-EHT160 | MCS0              | 114         | 5570        | 20.50                     | 20.40                     | 23.46                     | ≤ 23.97           | Pass   |
| 11be-EHT240 | MCS0              | 130         | 5650        | 13.53                     | 13.00                     | 16.28                     | ≤ 23.97           | 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:

For 5125 - 5250MHz and 5725 - 5850MHz Bands: Average Power Limit (dBm) = 30 - (6.01- 6) = 29.99dBm

For 5250 - 5350MHz and 5470 - 5725MHz Band: Average Power Limit (dBm) = 23.98 - (6.01- 6) = 23.97dBm.

For Channel 144 (5720MHz), Average Power Limit (dBm) =  $11 + 10 \cdot \log(5\text{MHz} + \text{BW}_{26\text{dBc}}/2) - (6.01- 6)$



## 7.5. Transmit Power Control

### 7.5.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

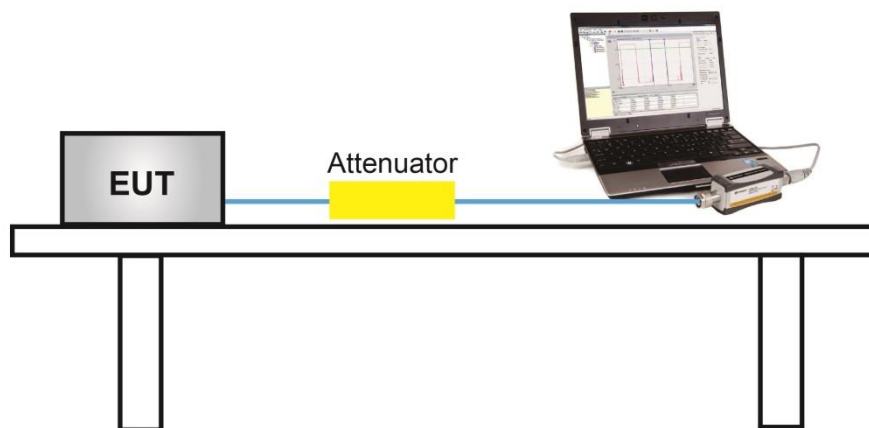
### 7.5.2. Test Procedure Used

KDB 789033 D02v02r01- Section E)3)b) Method PM-G

### 7.5.3. 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. The trace was averaged over 100 traces to obtain the final measured average power.

### 7.5.4. Test Setup



### 7.5.5. Test Result

Device supports TPC mechanism, details refer to the operational description.

## **7.6. Power Spectral Density Measurement**

### **7.6.1. Test Limit**

For the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 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 peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

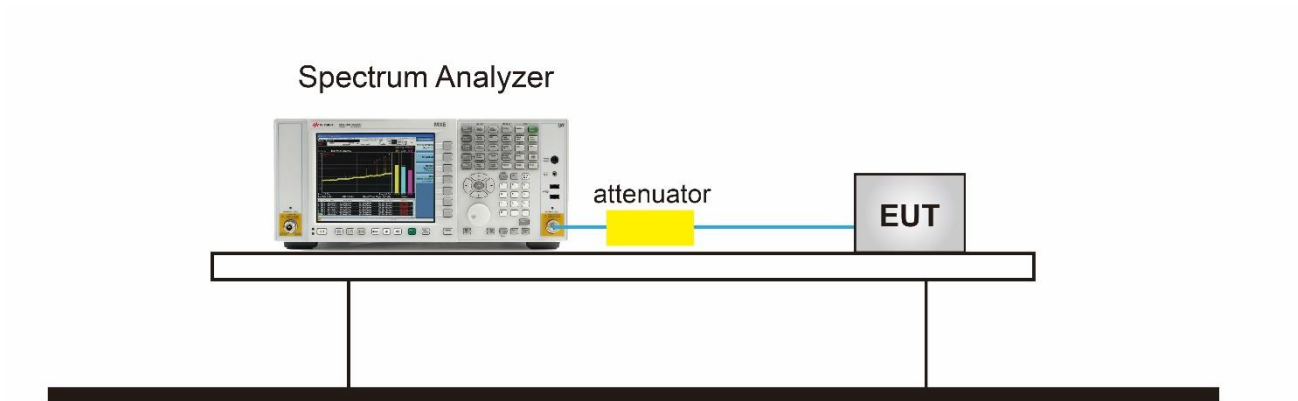
### **7.6.2. Test Procedure Used**

KDB 789033 D02v02r01-Section F

### **7.6.3. 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 = 3MHz
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.

### 7.6.4. Test Setup



### 7.6.5.Test Result

|           |                                                      |               |                   |
|-----------|------------------------------------------------------|---------------|-------------------|
| Product   | BE11000 Tri-Band Wi-Fi 7 Gaming Router               | Test Engineer | Owen              |
| Test Site | SR6                                                  | Test Date     | 2024/1/9~2024/4/2 |
| Mode      | Power Spectral Density (U-NII- 1/-2a / -2c) CDD Mode |               |                   |

| Test Mode  | Data Rate /MCS | Ch. 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        | 12.130              | 11.988              | 95.75%         | 15.258               | ≤ 16.99             | Pass   |
| 11a        | 6Mbps          | 44      | 5220        | 11.952              | 12.313              | 95.75%         | 15.335               | ≤ 16.99             | Pass   |
| 11a        | 6Mbps          | 48      | 5240        | 12.136              | 12.213              | 95.75%         | 15.374               | ≤ 16.99             | Pass   |
| 11a        | 6Mbps          | 52      | 5260        | 7.825               | 7.471               | 95.75%         | 10.851               | ≤ 10.99             | Pass   |
| 11a        | 6Mbps          | 60      | 5300        | 7.389               | 7.471               | 95.75%         | 10.629               | ≤ 10.99             | Pass   |
| 11a        | 6Mbps          | 64      | 5320        | 7.330               | 7.718               | 95.75%         | 10.727               | ≤ 10.99             | Pass   |
| 11a        | 6Mbps          | 100     | 5500        | 7.552               | 7.721               | 95.75%         | 10.836               | ≤ 10.99             | Pass   |
| 11a        | 6Mbps          | 116     | 5580        | 7.164               | 7.440               | 95.75%         | 10.503               | ≤ 10.99             | Pass   |
| 11a        | 6Mbps          | 140     | 5700        | 7.346               | 7.323               | 95.75%         | 10.533               | ≤ 10.99             | Pass   |
| 11a        | 6Mbps          | 144     | 5720        | 7.203               | 6.875               | 95.75%         | 10.241               | ≤ 10.99             | Pass   |
| 11ac-VHT20 | MCS0           | 36      | 5180        | 11.782              | 11.773              | 94.44%         | 15.036               | ≤ 16.99             | Pass   |
| 11ac-VHT20 | MCS0           | 40      | 5220        | 11.793              | 11.828              | 94.44%         | 15.069               | ≤ 16.99             | Pass   |
| 11ac-VHT20 | MCS0           | 48      | 5240        | 11.567              | 11.824              | 94.44%         | 14.956               | ≤ 16.99             | Pass   |
| 11ac-VHT20 | MCS0           | 52      | 5260        | 7.430               | 7.454               | 94.44%         | 10.701               | ≤ 10.99             | Pass   |
| 11ac-VHT20 | MCS0           | 60      | 5300        | 7.450               | 7.495               | 94.44%         | 10.731               | ≤ 10.99             | Pass   |
| 11ac-VHT20 | MCS0           | 64      | 5320        | 7.457               | 7.752               | 94.44%         | 10.866               | ≤ 10.99             | Pass   |
| 11ac-VHT20 | MCS0           | 100     | 5500        | 7.217               | 7.363               | 94.44%         | 10.549               | ≤ 10.99             | Pass   |
| 11ac-VHT20 | MCS0           | 116     | 5580        | 7.155               | 7.389               | 94.44%         | 10.532               | ≤ 10.99             | Pass   |
| 11ac-VHT20 | MCS0           | 140     | 5700        | 7.519               | 7.115               | 94.44%         | 10.580               | ≤ 10.99             | Pass   |
| 11ac-VHT20 | MCS0           | 144     | 5720        | 6.900               | 6.736               | 94.44%         | 10.078               | ≤ 10.99             | Pass   |
| 11ac-VHT40 | MCS0           | 38      | 5190        | 8.159               | 7.908               | 95.70%         | 11.236               | ≤ 16.99             | Pass   |
| 11ac-VHT40 | MCS0           | 46      | 5230        | 9.043               | 9.228               | 95.70%         | 12.338               | ≤ 16.99             | Pass   |
| 11ac-VHT40 | MCS0           | 54      | 5270        | 5.337               | 5.071               | 95.70%         | 8.407                | ≤ 10.99             | Pass   |
| 11ac-VHT40 | MCS0           | 62      | 5310        | 5.517               | 5.544               | 95.70%         | 8.732                | ≤ 10.99             | Pass   |
| 11ac-VHT40 | MCS0           | 102     | 5510        | 4.794               | 4.878               | 95.70%         | 8.037                | ≤ 10.99             | Pass   |
| 11ac-VHT40 | MCS0           | 110     | 5550        | 4.332               | 4.676               | 95.70%         | 7.709                | ≤ 10.99             | Pass   |
| 11ac-VHT40 | MCS0           | 134     | 5670        | 5.540               | 5.343               | 95.70%         | 8.644                | ≤ 10.99             | Pass   |
| 11ac-VHT40 | MCS0           | 142     | 5710        | 5.245               | 5.270               | 95.70%         | 8.459                | ≤ 10.99             | Pass   |

| Test Mode   | Data Rate /MCS | Ch. 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-VHT80  | MCS0           | 42      | 5210        | 4.213               | 4.425               | 95.54%         | 7.529               | ≤ 16.99             | Pass   |
| 11ac-VHT80  | MCS0           | 58      | 5290        | 2.462               | 1.982               | 95.54%         | 5.437               | ≤ 10.99             | Pass   |
| 11ac-VHT80  | MCS0           | 106     | 5530        | 1.426               | 1.389               | 95.54%         | 4.616               | ≤ 10.99             | Pass   |
| 11ac-VHT80  | MCS0           | 122     | 5610        | 1.713               | 1.995               | 95.54%         | 5.065               | ≤ 10.99             | Pass   |
| 11ac-VHT80  | MCS0           | 138     | 5690        | 1.550               | 1.992               | 95.54%         | 4.985               | ≤ 10.99             | Pass   |
| 11ac-VHT160 | MCS0           | 50      | 5250        | -1.027              | -0.894              | 91.72%         | 2.426               | ≤ 10.99             | Pass   |
| 11ac-VHT160 | MCS0           | 114     | 5570        | -0.985              | -0.933              | 91.72%         | 2.427               | ≤ 10.99             | Pass   |
| 11ax-HE20   | MCS0           | 36      | 5180        | 11.539              | 11.492              | 92.63%         | 14.858              | ≤ 16.99             | Pass   |
| 11ax-HE20   | MCS0           | 44      | 5220        | 11.556              | 11.619              | 92.63%         | 14.930              | ≤ 16.99             | Pass   |
| 11ax-HE20   | MCS0           | 48      | 5240        | 11.751              | 11.657              | 92.63%         | 15.047              | ≤ 16.99             | Pass   |
| 11ax-HE20   | MCS0           | 52      | 5260        | 7.418               | 7.330               | 92.63%         | 10.717              | ≤ 10.99             | Pass   |
| 11ax-HE20   | MCS0           | 60      | 5300        | 7.207               | 7.115               | 92.63%         | 10.504              | ≤ 10.99             | Pass   |
| 11ax-HE20   | MCS0           | 64      | 5320        | 7.347               | 7.777               | 92.63%         | 10.910              | ≤ 10.99             | Pass   |
| 11ax-HE20   | MCS0           | 100     | 5500        | 7.307               | 7.458               | 92.63%         | 10.726              | ≤ 10.99             | Pass   |
| 11ax-HE20   | MCS0           | 116     | 5580        | 7.394               | 7.516               | 92.63%         | 10.798              | ≤ 10.99             | Pass   |
| 11ax-HE20   | MCS0           | 140     | 5700        | 7.161               | 7.322               | 92.63%         | 10.585              | ≤ 10.99             | Pass   |
| 11ax-HE20   | MCS0           | 144     | 5720        | 6.794               | 6.649               | 92.63%         | 10.065              | ≤ 10.99             | Pass   |
| 11ax-HE40   | MCS0           | 38      | 5190        | 8.402               | 8.262               | 96.62%         | 11.492              | ≤ 16.99             | Pass   |
| 11ax-HE40   | MCS0           | 46      | 5230        | 8.740               | 8.955               | 96.62%         | 12.008              | ≤ 16.99             | Pass   |
| 11ax-HE40   | MCS0           | 54      | 5270        | 5.452               | 5.371               | 96.62%         | 8.571               | ≤ 10.99             | Pass   |
| 11ax-HE40   | MCS0           | 62      | 5310        | 5.409               | 5.219               | 96.62%         | 8.475               | ≤ 10.99             | Pass   |
| 11ax-HE40   | MCS0           | 102     | 5510        | 4.704               | 4.771               | 96.62%         | 7.897               | ≤ 10.99             | Pass   |
| 11ax-HE40   | MCS0           | 110     | 5550        | 4.288               | 4.441               | 96.62%         | 7.525               | ≤ 10.99             | Pass   |
| 11ax-HE40   | MCS0           | 134     | 5670        | 5.179               | 4.982               | 96.62%         | 8.241               | ≤ 10.99             | Pass   |
| 11ax-HE40   | MCS0           | 142     | 5710        | 5.051               | 4.926               | 96.62%         | 8.149               | ≤ 10.99             | Pass   |
| 11ax-HE80   | MCS0           | 42      | 5210        | 3.472               | 3.691               | 94.62%         | 6.833               | ≤ 16.99             | Pass   |
| 11ax-HE80   | MCS0           | 58      | 5290        | 2.082               | 2.103               | 94.62%         | 5.343               | ≤ 10.99             | Pass   |
| 11ax-HE80   | MCS0           | 106     | 5530        | 1.284               | 1.304               | 94.62%         | 4.544               | ≤ 10.99             | Pass   |
| 11ax-HE80   | MCS0           | 122     | 5610        | 1.843               | 1.674               | 94.62%         | 5.010               | ≤ 10.99             | Pass   |
| 11ax-HE80   | MCS0           | 122     | 5690        | 1.584               | 1.465               | 94.62%         | 4.775               | ≤ 10.99             | Pass   |
| 11ax-HE160  | MCS0           | 50      | 5250        | -0.654              | -0.551              | 94.00%         | 2.677               | ≤ 10.99             | Pass   |
| 11ax-HE160  | MCS0           | 114     | 5570        | -1.151              | -0.798              | 94.00%         | 2.308               | ≤ 10.99             | Pass   |

| Test Mode   | Data Rate/MCS | Ch. No. | Freq. (MHz) | Ant 0 PSD (dBm/MHz) | Ant 1 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|-------------|---------------|---------|-------------|---------------------|---------------------|----------------|---------------------|---------------------|--------|
| 11be-EHT20  | MCS0          | 36      | 5180        | 10.882              | 11.028              | 92.36%         | 14.311              | ≤ 16.99             | Pass   |
| 11be-EHT20  | MCS0          | 44      | 5220        | 11.534              | 11.972              | 92.36%         | 15.114              | ≤ 16.99             | Pass   |
| 11be-EHT20  | MCS0          | 48      | 5240        | 11.620              | 11.629              | 92.36%         | 14.980              | ≤ 16.99             | Pass   |
| 11be-EHT20  | MCS0          | 52      | 5260        | 7.233               | 7.317               | 92.36%         | 10.631              | ≤ 10.99             | Pass   |
| 11be-EHT20  | MCS0          | 60      | 5300        | 7.505               | 7.556               | 92.36%         | 10.886              | ≤ 10.99             | Pass   |
| 11be-EHT20  | MCS0          | 64      | 5320        | 7.109               | 7.595               | 92.36%         | 10.714              | ≤ 10.99             | Pass   |
| 11be-EHT20  | MCS0          | 100     | 5500        | 7.122               | 7.255               | 92.36%         | 10.544              | ≤ 10.99             | Pass   |
| 11be-EHT20  | MCS0          | 116     | 5580        | 7.169               | 7.508               | 92.36%         | 10.697              | ≤ 10.99             | Pass   |
| 11be-EHT20  | MCS0          | 140     | 5700        | 7.397               | 7.315               | 92.36%         | 10.712              | ≤ 10.99             | Pass   |
| 11be-EHT20  | MCS0          | 144     | 5720        | 7.102               | 6.740               | 92.36%         | 10.280              | ≤ 10.99             | Pass   |
| 11be-EHT40  | MCS0          | 38      | 5190        | 7.689               | 7.679               | 96.57%         | 10.846              | ≤ 16.99             | Pass   |
| 11be-EHT40  | MCS0          | 46      | 5230        | 8.653               | 9.282               | 96.57%         | 12.141              | ≤ 16.99             | Pass   |
| 11be-EHT40  | MCS0          | 54      | 5270        | 5.309               | 5.266               | 96.57%         | 8.449               | ≤ 10.99             | Pass   |
| 11be-EHT40  | MCS0          | 62      | 5310        | 5.112               | 5.546               | 96.57%         | 8.496               | ≤ 10.99             | Pass   |
| 11be-EHT40  | MCS0          | 102     | 5510        | 4.815               | 4.889               | 96.57%         | 8.014               | ≤ 10.99             | Pass   |
| 11be-EHT40  | MCS0          | 110     | 5550        | 4.705               | 4.668               | 96.57%         | 7.848               | ≤ 10.99             | Pass   |
| 11be-EHT40  | MCS0          | 134     | 5670        | 4.820               | 5.049               | 96.57%         | 8.098               | ≤ 10.99             | Pass   |
| 11be-EHT40  | MCS0          | 142     | 5710        | 5.039               | 4.959               | 96.57%         | 8.161               | ≤ 10.99             | Pass   |
| 11be-EHT80  | MCS0          | 42      | 5210        | 2.533               | 2.861               | 91.74%         | 6.085               | ≤ 16.99             | Pass   |
| 11be-EHT80  | MCS0          | 58      | 5290        | 2.286               | 2.393               | 91.74%         | 5.725               | ≤ 10.99             | Pass   |
| 11be-EHT80  | MCS0          | 106     | 5530        | 1.457               | 1.663               | 91.74%         | 4.946               | ≤ 10.99             | Pass   |
| 11be-EHT80  | MCS0          | 122     | 5610        | 1.927               | 1.950               | 91.74%         | 5.323               | ≤ 10.99             | Pass   |
| 11be-EHT80  | MCS0          | 138     | 5690        | 2.040               | 1.935               | 91.74%         | 5.373               | ≤ 10.99             | Pass   |
| 11be-EHT160 | MCS0          | 50      | 5250        | -0.563              | -0.361              | 91.51%         | 2.935               | ≤ 10.99             | Pass   |
| 11be-EHT160 | MCS0          | 114     | 5570        | -0.876              | -0.842              | 91.51%         | 2.537               | ≤ 10.99             | Pass   |
| 11be-EHT240 | MCS0          | 130     | 5650        | -9.730              | -10.072             | 93.04%         | -6.574              | ≤ 10.99             | 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).

When EUT duty cycle < 98%,

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

Note 2:

For 5150 - 5250MHz Band: PSD Limit (dBm/MHz) = 17 - (6.01 - 6) = 16.99dBm/MHz.

For 5250 - 5350MHz and 5470 - 5725MHz Band: PSD Limit (dBm/MHz) = 11 - (6.01 - 6) = 10.99dBm/MHz.

|           |                                           |               |                   |
|-----------|-------------------------------------------|---------------|-------------------|
| Product   | BE11000 Tri-Band Wi-Fi 7 Gaming Router    | Test Engineer | Owen              |
| Test Site | SR6                                       | Test Date     | 2024/1/9~2024/4/2 |
| Test Item | Power Spectral Density (U-NII-3) CDD Mode |               |                   |

| Test Mode  | Data Rate/MCS | Ch. No. | Freq. (MHz) | Ant 0 PSD (dBm/510KHz) | Ant 1 PSD (dBm/510KHz) | Duty Cycle (%) | Total PSD (dBm/510kHz) | Limit (dBm/500kHz) | Result |
|------------|---------------|---------|-------------|------------------------|------------------------|----------------|------------------------|--------------------|--------|
| 11a        | 6Mbps         | 149     | 5745        | 8.590                  | 8.512                  | 95.75%         | 11.750                 | ≤ 29.99            | Pass   |
| 11a        | 6Mbps         | 157     | 5785        | 9.298                  | 9.559                  | 95.75%         | 12.629                 | ≤ 29.99            | Pass   |
| 11a        | 6Mbps         | 165     | 5825        | 9.343                  | 9.013                  | 95.75%         | 12.380                 | ≤ 29.99            | Pass   |
| 11ac-VHT20 | MCS0          | 149     | 5745        | 8.361                  | 8.263                  | 94.44%         | 11.571                 | ≤ 29.99            | Pass   |
| 11ac-VHT20 | MCS0          | 157     | 5785        | 8.503                  | 8.486                  | 94.44%         | 11.753                 | ≤ 29.99            | Pass   |
| 11ac-VHT20 | MCS0          | 165     | 5825        | 8.568                  | 8.754                  | 94.44%         | 11.921                 | ≤ 29.99            | Pass   |
| 11ac-VHT40 | MCS0          | 151     | 5755        | 6.303                  | 5.984                  | 95.70%         | 9.348                  | ≤ 29.99            | Pass   |
| 11ac-VHT40 | MCS0          | 159     | 5795        | 6.086                  | 5.814                  | 95.70%         | 9.153                  | ≤ 29.99            | Pass   |
| 11ac-VHT80 | MCS0          | 155     | 5775        | 2.556                  | 2.404                  | 95.54%         | 5.689                  | ≤ 29.99            | Pass   |
| 11ax-HE20  | MCS0          | 149     | 5745        | 8.639                  | 8.081                  | 92.63%         | 11.712                 | ≤ 29.99            | Pass   |
| 11ax-HE20  | MCS0          | 157     | 5785        | 8.635                  | 8.257                  | 92.63%         | 11.793                 | ≤ 29.99            | Pass   |
| 11ax-HE20  | MCS0          | 165     | 5825        | 8.894                  | 8.627                  | 92.63%         | 12.105                 | ≤ 29.99            | Pass   |
| 11ax-HE40  | MCS0          | 151     | 5755        | 6.424                  | 6.005                  | 96.62%         | 9.379                  | ≤ 29.99            | Pass   |
| 11ax-HE40  | MCS0          | 159     | 5795        | 6.109                  | 5.898                  | 96.62%         | 9.164                  | ≤ 29.99            | Pass   |
| 11ax-HE80  | MCS0          | 155     | 5775        | 3.171                  | 2.678                  | 94.62%         | 6.182                  | ≤ 29.99            | Pass   |
| 11be-EHT20 | MCS0          | 149     | 5745        | 8.021                  | 8.249                  | 92.36%         | 11.492                 | ≤ 29.99            | Pass   |
| 11be-EHT20 | MCS0          | 157     | 5785        | 8.409                  | 8.255                  | 92.36%         | 11.688                 | ≤ 29.99            | Pass   |
| 11be-EHT20 | MCS0          | 165     | 5825        | 8.517                  | 8.671                  | 92.36%         | 11.950                 | ≤ 29.99            | Pass   |
| 11be-EHT40 | MCS0          | 151     | 5755        | 6.448                  | 6.173                  | 96.57%         | 9.475                  | ≤ 29.99            | Pass   |
| 11be-EHT40 | MCS0          | 159     | 5795        | 6.490                  | 6.507                  | 96.57%         | 9.660                  | ≤ 29.99            | Pass   |
| 11be-EHT80 | MCS0          | 155     | 5775        | 3.088                  | 2.841                  | 91.74%         | 6.351                  | ≤ 29.99            | 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).

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) +  $10 \cdot \log (1/\text{Duty Cycle})$ .

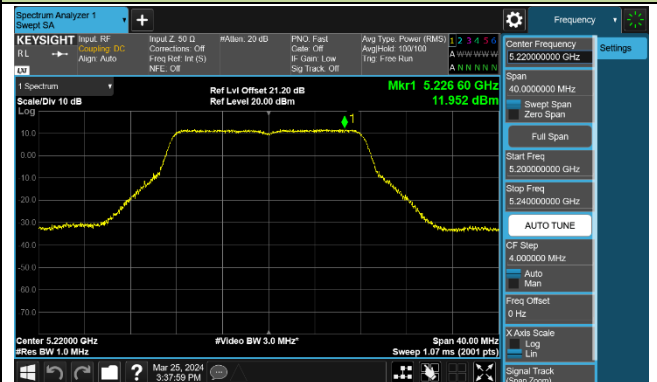
Note 2: PSD Limit (dBm/500kHz) = 30 - (6.01 - 6) = 29.99 (dBm/500kHz).

## 802.11a Power Spectral Density - Ant 0

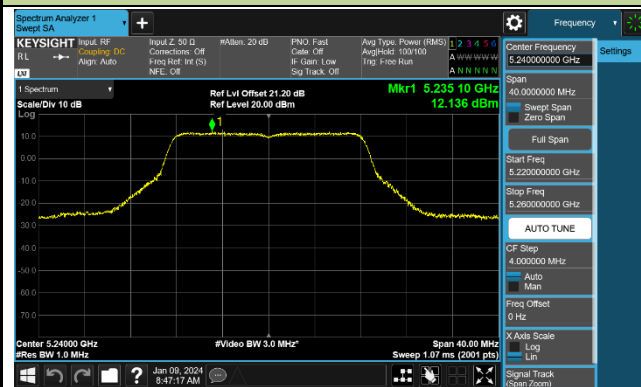
Channel 36 (5180MHz)



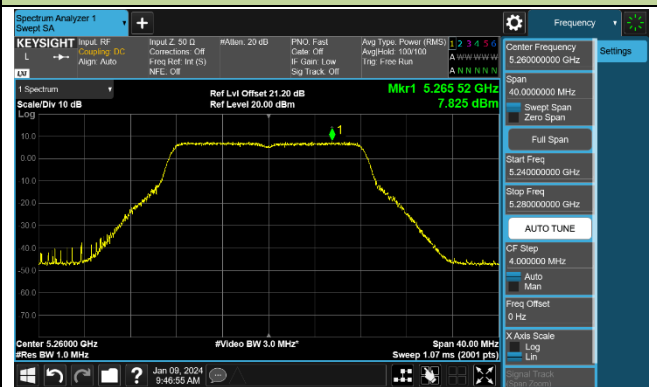
Channel 44 (5220MHz)



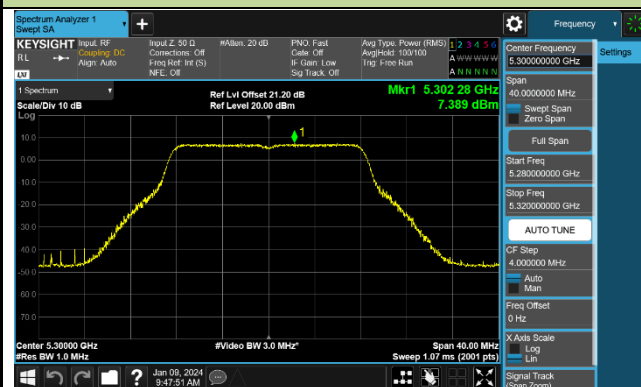
Channel 48 (5240MHz)



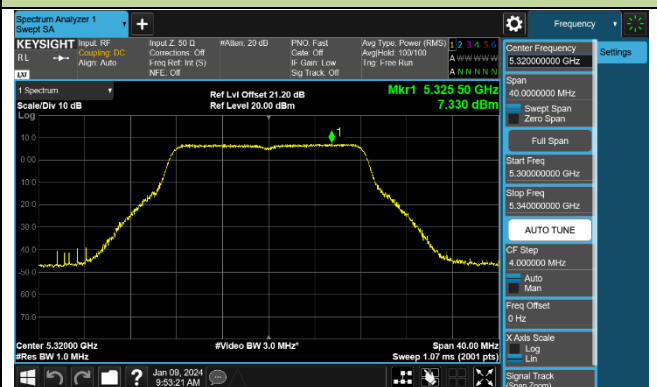
Channel 52 (5260MHz)



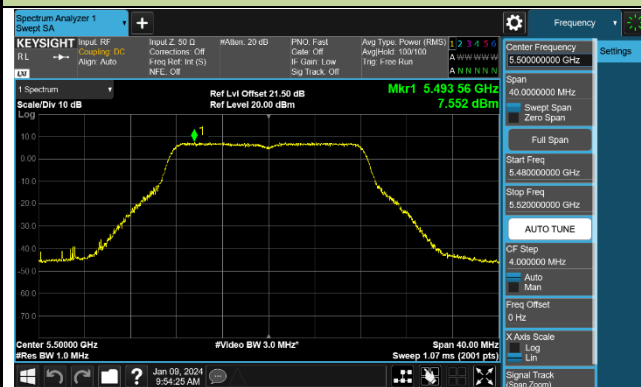
Channel 60 (5300MHz)



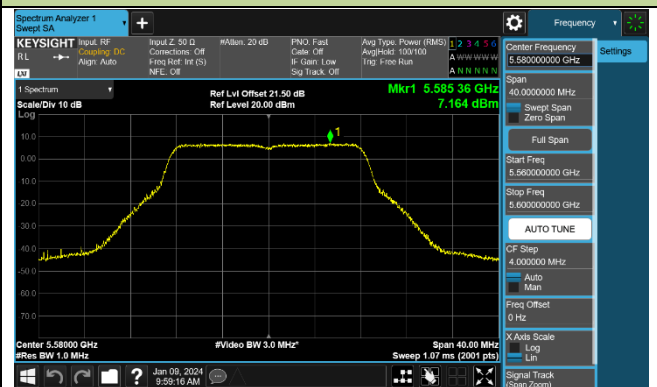
Channel 64 (5320MHz)



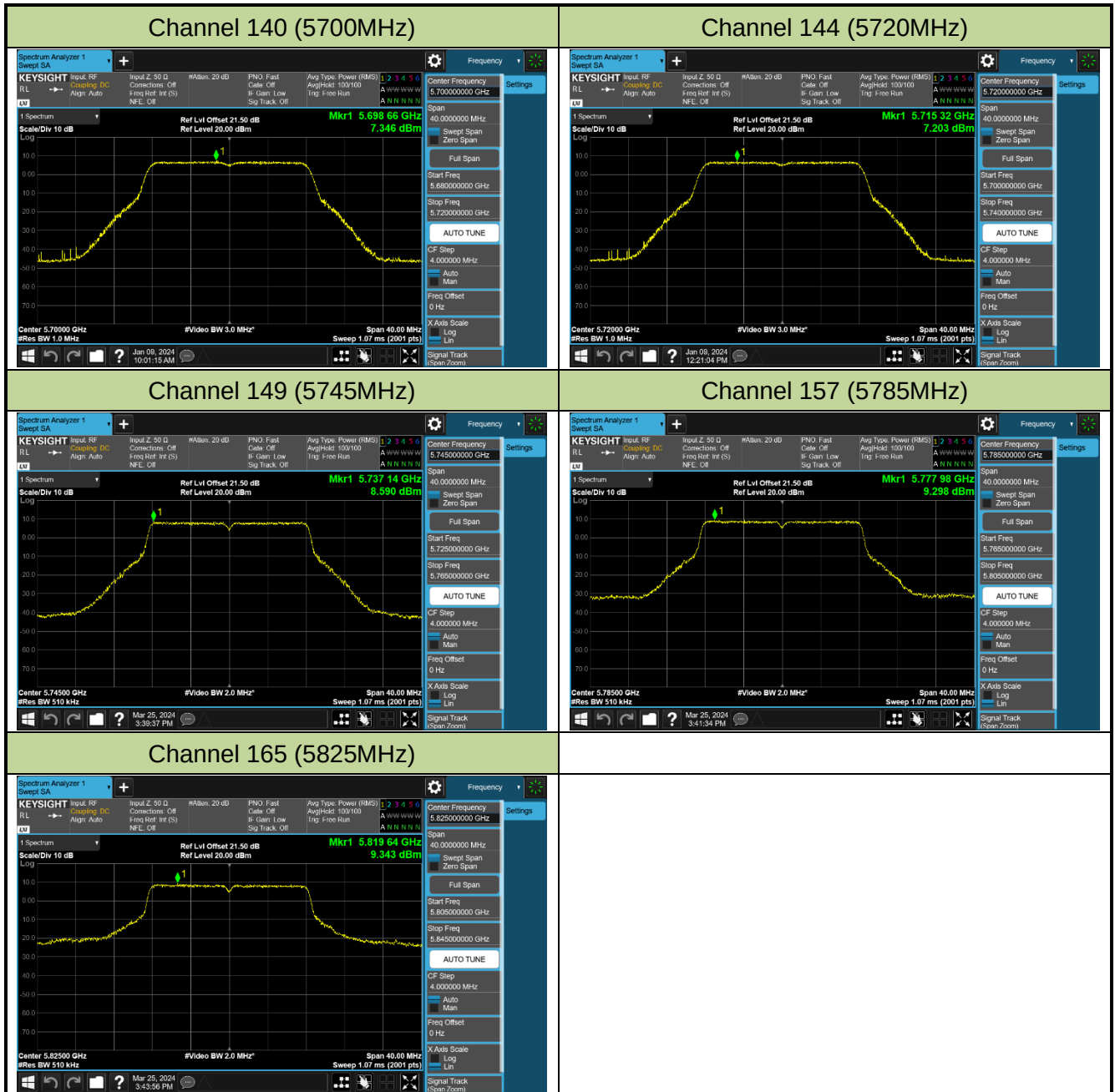
Channel 100 (5500MHz)



Channel 116 (5580MHz)

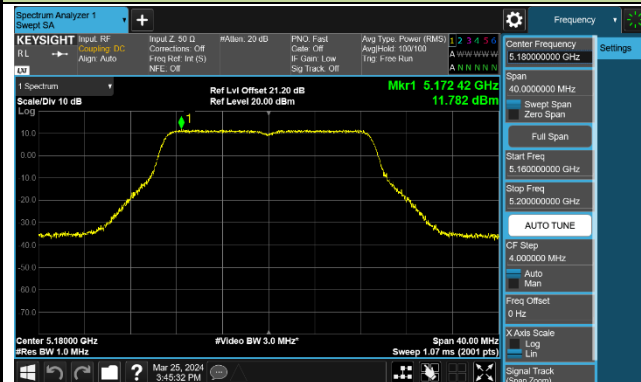




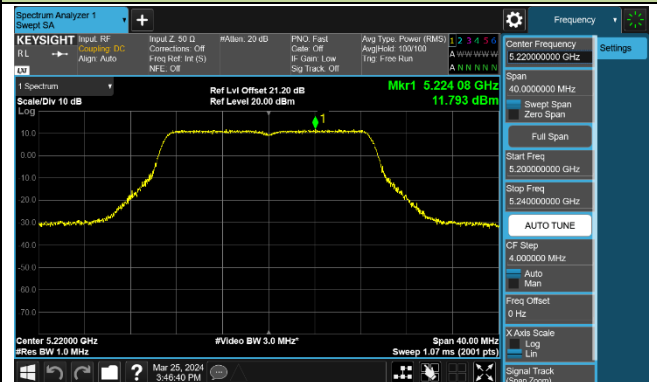


## 802.11ac-VHT20 Power Spectral Density - Ant 0

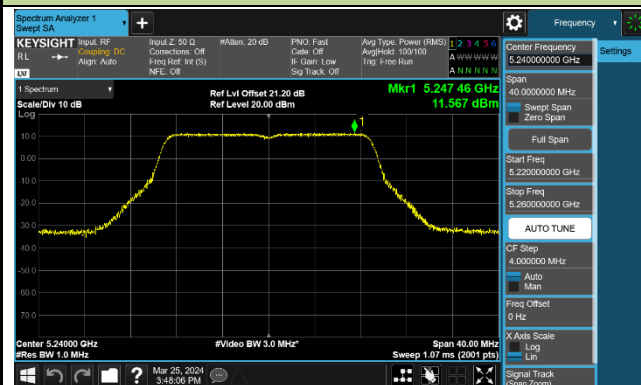
Channel 36 (5180MHz)



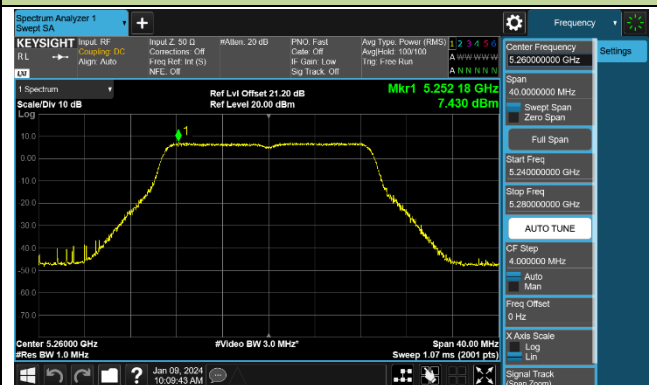
Channel 44 (5220MHz)



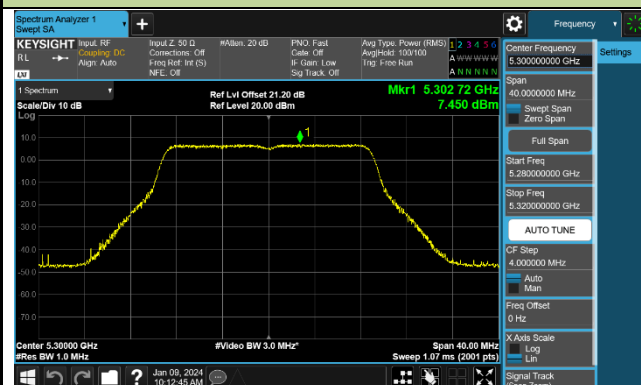
Channel 48 (5240MHz)



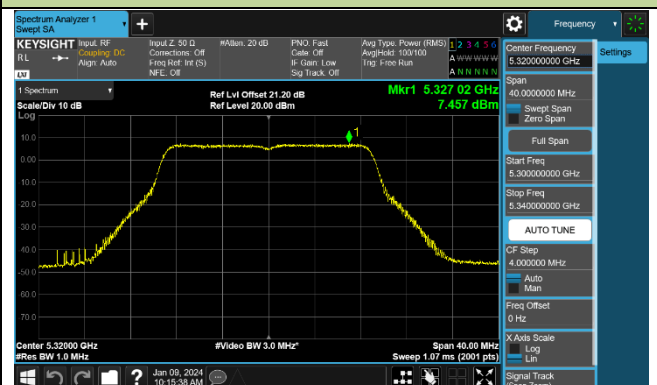
Channel 52 (5260MHz)



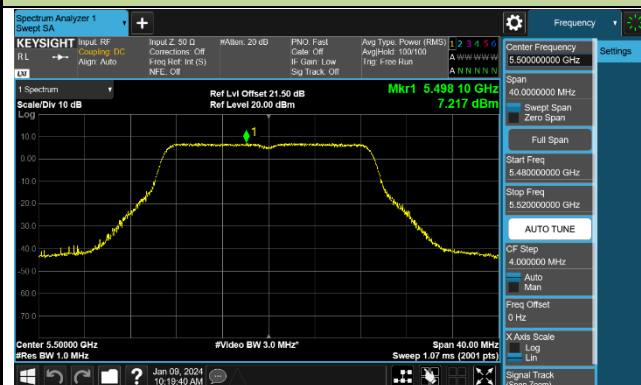
Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)

