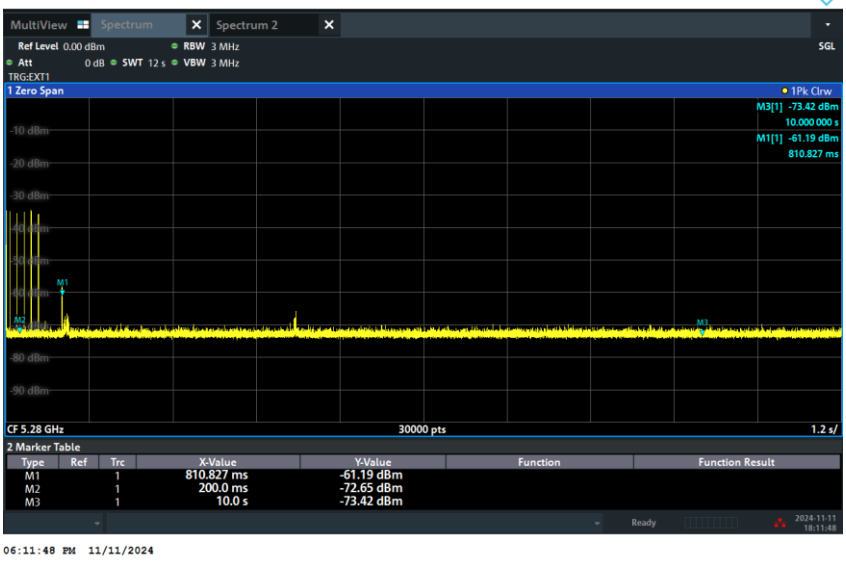
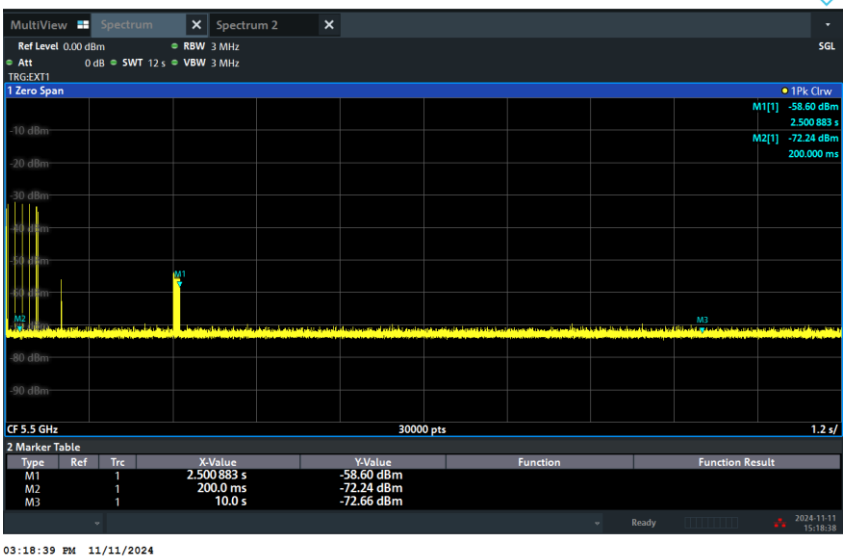
| <160MHz / 5250MHz >In-Service Monitoring |
|---|
| Radar is injected at 5280 MHz |
| Channel Move Time &<br>Channel Closing Transmission Time |




**Note:**

1. Dwell (0.4 ms)= Sweep Time (12000 ms) / Sweep Point Bins (30000)
2. Channel Closing Transmission Time ( 200 + 12 ms) = 200 + Number (30) X Dwell (0.4 ms) < 260ms
3. The 99%OBW of Remaining Active Signal does not fall within the notched band.

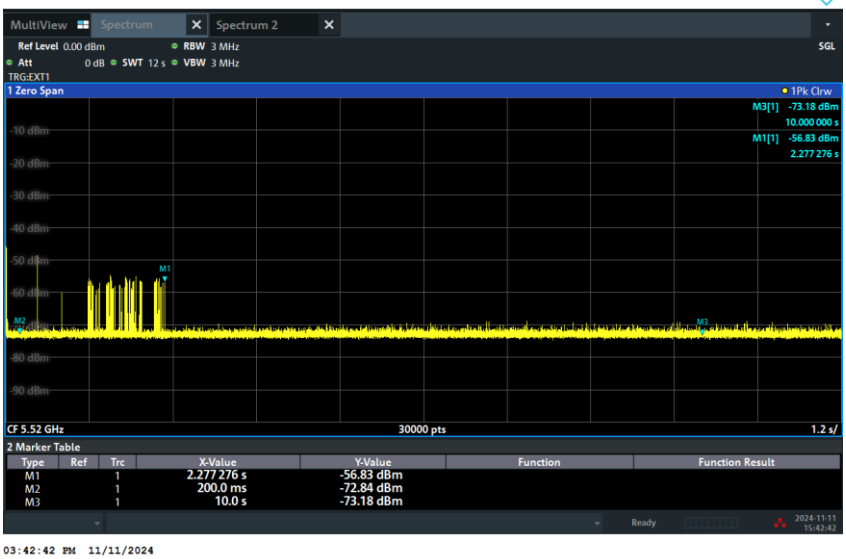
| <80MHz / 5530MHz >In-Service Monitoring |
|---|
| Radar is injected at 5500 MHz |
| Channel Move Time &<br>Channel Closing Transmission Time |




**Note:**

1. Dwell (0.4 ms)= Sweep Time (12000 ms) / Sweep Point Bins (30000)
2. Channel Closing Transmission Time ( 200 + 52 ms) = 200 + Number (130) X Dwell (0.4 ms) < 260ms
3. The 99%OBW of Remaining Active Signal does not fall within the notched band.

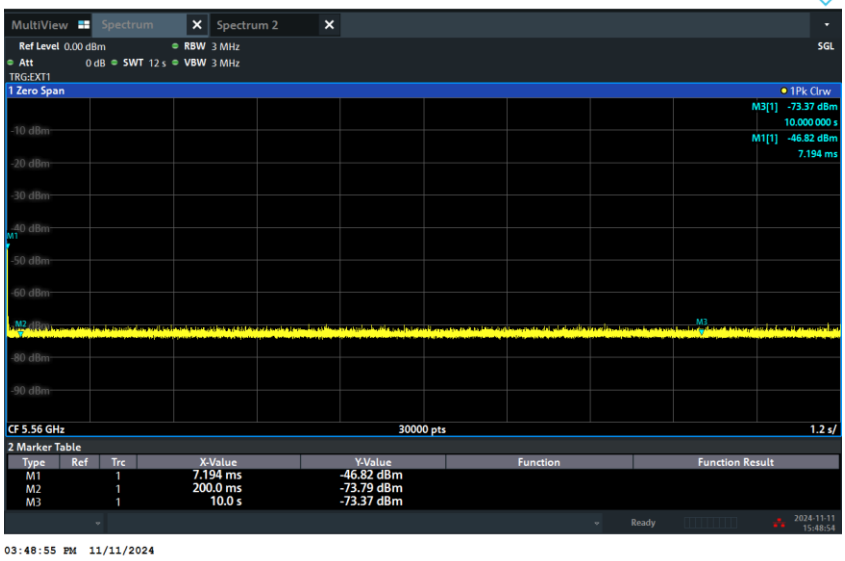
| <80MHz / 5530MHz >In-Service Monitoring |
|---|
| Radar is injected at 5520 MHz |
| Channel Move Time &<br>Channel Closing Transmission Time |




**Note:**

1. Dwell (0.4 ms)= Sweep Time (12000 ms) / Sweep Point Bins (30000)
2. Channel Closing Transmission Time ( 200 + 47.6 ms) = 200 + Number (119) X Dwell (0.4 ms) < 260ms
3. The 99%OBW of Remaining Active Signal does not fall within the notched band.

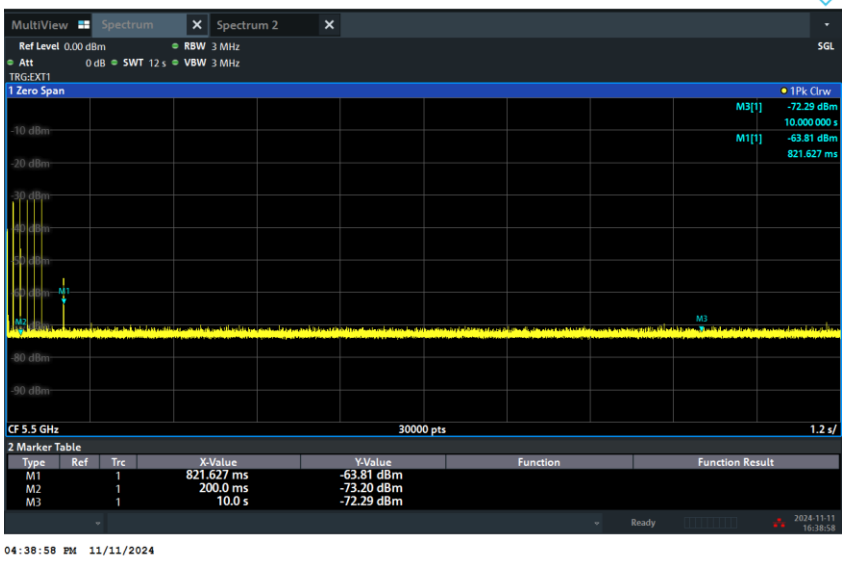
| <80MHz / 5530MHz >In-Service Monitoring |
|---|
| Radar is injected at 5560 MHz |
| Channel Move Time &<br>Channel Closing Transmission Time |




**Note:**

1. Dwell (0.4 ms)= Sweep Time (12000 ms) / Sweep Point Bins (30000)
2. Channel Closing Transmission Time ( 200 + 0 ms) = 200 + Number (0) X Dwell (0.4 ms) < 260ms
3. The 99%OBW of Remaining Active Signal does not fall within the notched band.

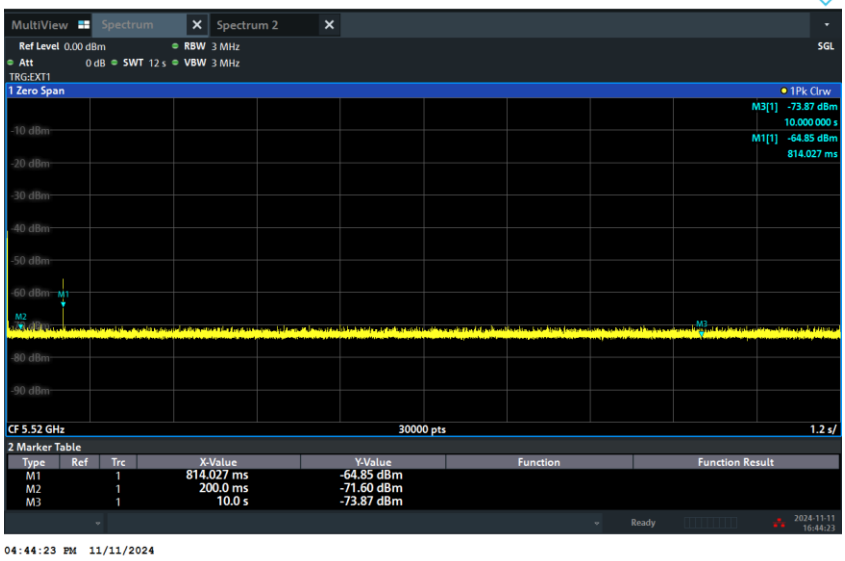
| <160MHz / 5570MHz >In-Service Monitoring |
|---|
| Radar is injected at 5500 MHz |
| Channel Move Time &<br>Channel Closing Transmission Time |




**Note:**

1. Dwell (0.4 ms)= Sweep Time (12000 ms) / Sweep Point Bins (30000)
2. Channel Closing Transmission Time ( 200 + 12 ms) = 200 + Number (30) X Dwell (0.4 ms) < 260ms
3. The 99%OBW of Remaining Active Signal does not fall within the notched band.

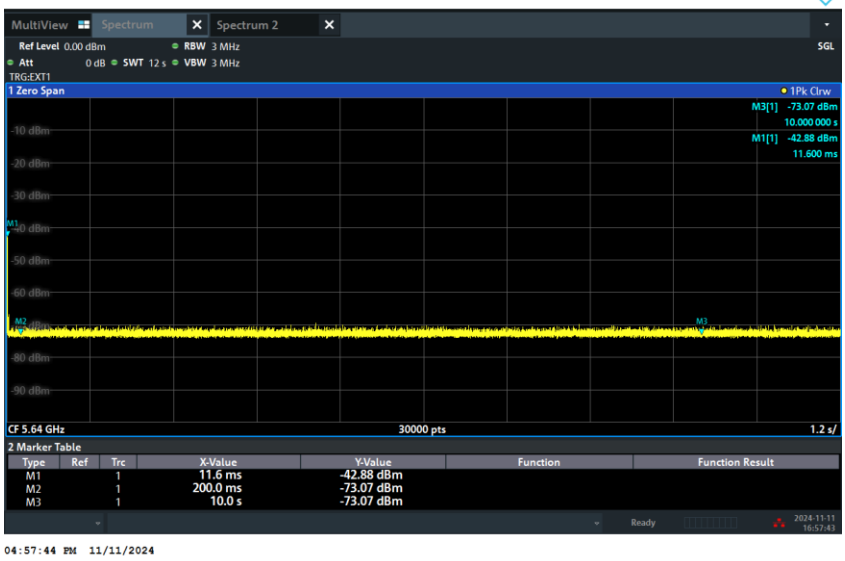
| <160MHz / 5570MHz >In-Service Monitoring |
|---|
| Radar is injected at 5520 MHz |
| Channel Move Time &<br>Channel Closing Transmission Time |




**Note:**

1. Dwell (0.4 ms)= Sweep Time (12000 ms) / Sweep Point Bins (30000)
2. Channel Closing Transmission Time ( 200 + 4.4 ms) = 200 + Number (11) X Dwell (0.4 ms) < 260ms
3. The 99%OBW of Remaining Active Signal does not fall within the notched band.

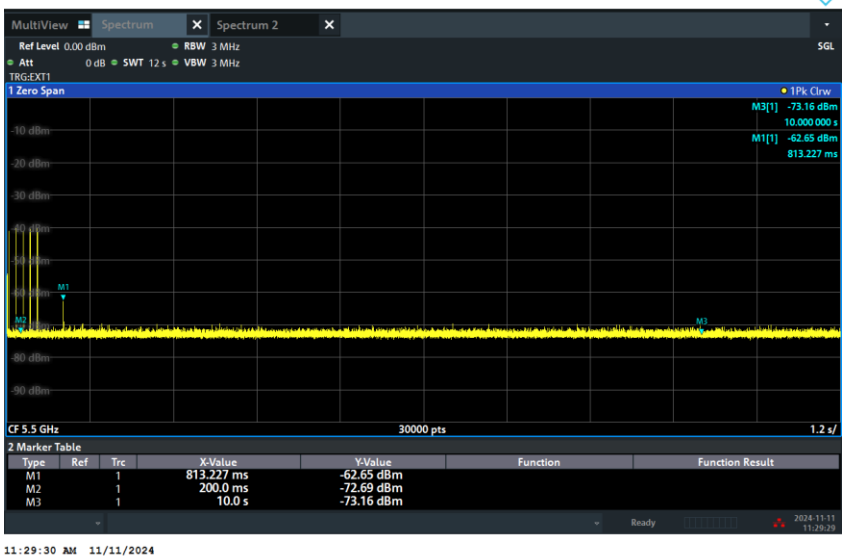
| <160MHz / 5570MHz >In-Service Monitoring |
|---|
| Radar is injected at 5640 MHz |
| Channel Move Time &<br>Channel Closing Transmission Time |




**Note:**

1. Dwell (0.4 ms)= Sweep Time (12000 ms) / Sweep Point Bins (30000)
2. Channel Closing Transmission Time ( 200 + 0 ms) = 200 + Number (0) X Dwell (0.4 ms) < 260ms
3. The 99%OBW of Remaining Active Signal does not fall within the notched band.

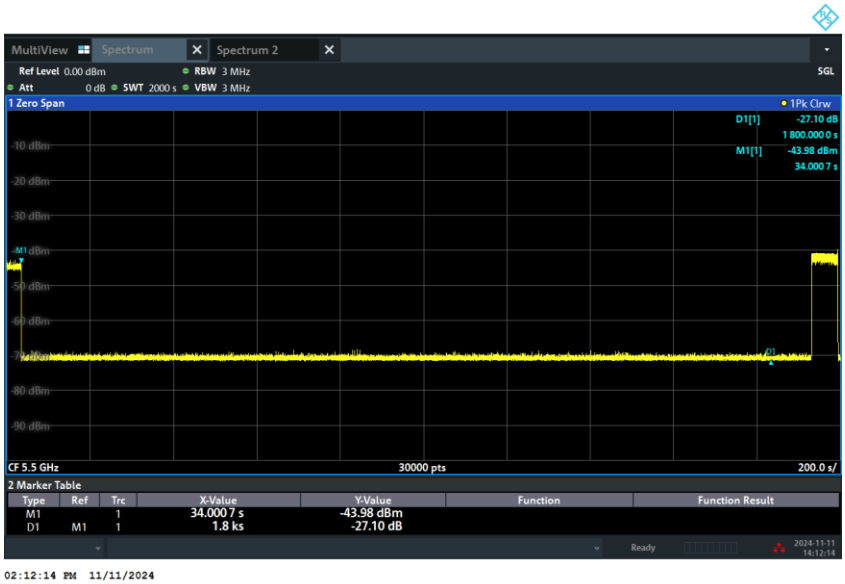
| <240MHz / 5610MHz >In-Service Monitoring |
|---|
| Radar is injected at 5500 MHz |
| Channel Move Time &<br>Channel Closing Transmission Time |



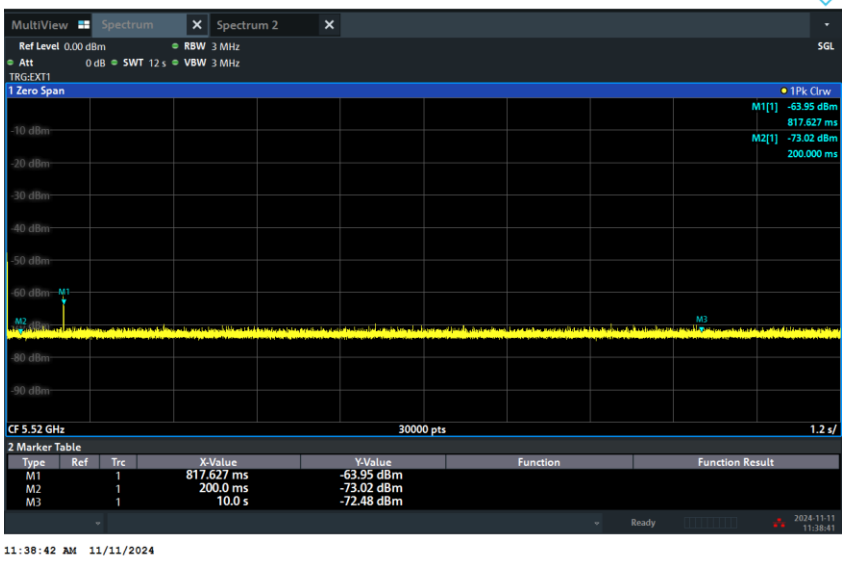

**Note:**

1. Dwell (0.4 ms)= Sweep Time (12000 ms) / Sweep Point Bins (30000)
2. Channel Closing Transmission Time ( 200 + 10 ms) = 200 + Number (25) X Dwell (0.4 ms) < 260ms
3. The 99%OBW of Remaining Active Signal does not fall within the notched band.

| Non-Occupancy Period |
|---|



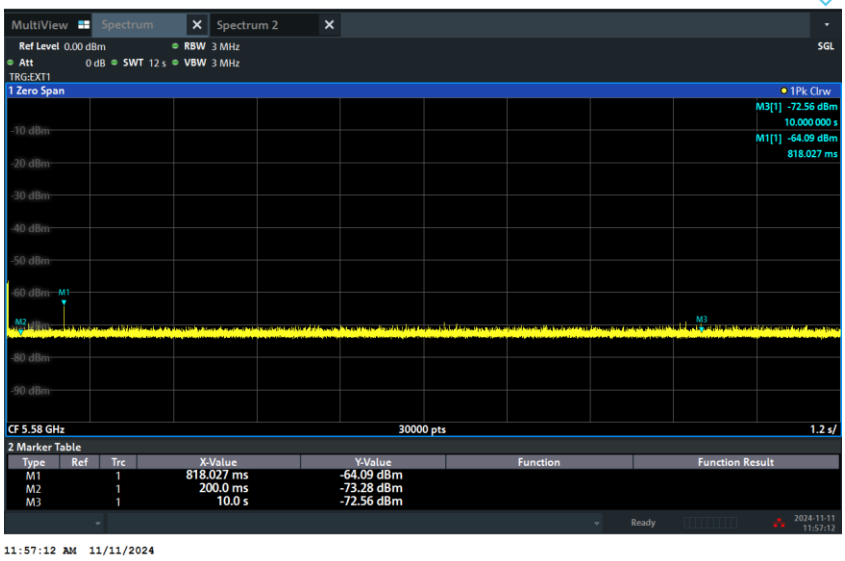
| <240MHz / 5610MHz >In-Service Monitoring |
|---|
| Radar is injected at 5520 MHz |
| Channel Move Time &<br>Channel Closing Transmission Time |




**Note:**

1. Dwell (0.4 ms)= Sweep Time (12000 ms) / Sweep Point Bins (30000)
2. Channel Closing Transmission Time ( 200 + 4.8 ms) = 200 + Number (12) X Dwell (0.4 ms) < 260ms
3. The 99%OBW of Remaining Active Signal does not fall within the notched band.

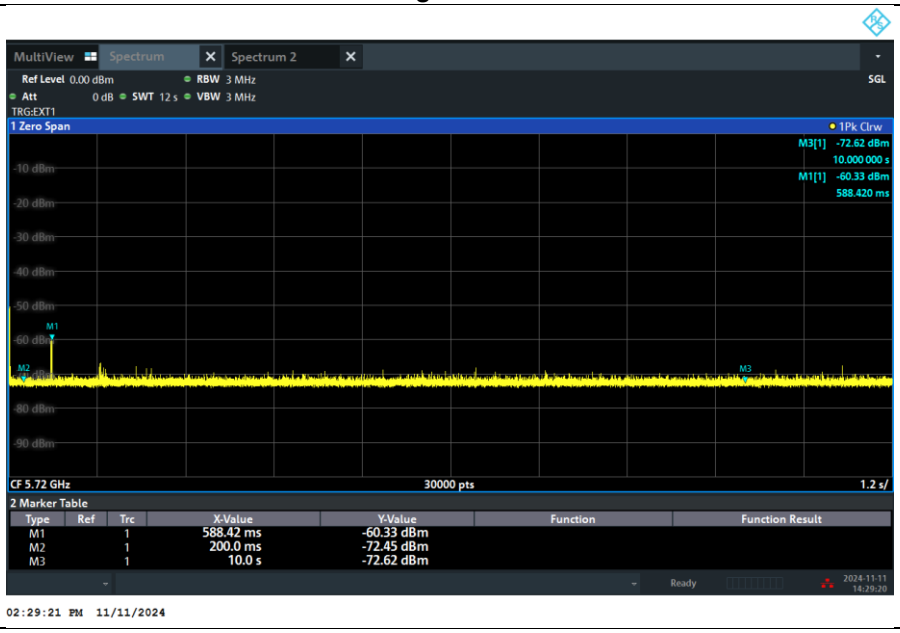
| <240MHz / 5610MHz >In-Service Monitoring |
|---|
| Radar is injected at 5580 MHz |
| Channel Move Time &<br>Channel Closing Transmission Time |




**Note:**

1. Dwell (0.4 ms)= Sweep Time (12000 ms) / Sweep Point Bins (30000)
2. Channel Closing Transmission Time ( 200 + 2.4 ms) = 200 + Number (6) X Dwell (0.4 ms) < 260ms
3. The 99%OBW of Remaining Active Signal does not fall within the notched band.

| <240MHz / 5610MHz >In-Service Monitoring |
|---|
| Radar is injected at 5720 MHz |
| Channel Move Time &<br>Channel Closing Transmission Time |




**Note:**

1. Dwell (0.4 ms)= Sweep Time (12000 ms) / Sweep Point Bins (30000)
2. Channel Closing Transmission Time ( 200 + 15.2 ms) = 200 + Number (38) X Dwell (0.4 ms) < 260ms
3. The 99%OBW of Remaining Active Signal does not fall within the notched band.

# 5.2 26dB & 99% Occupied Bandwidth Measurement

## 5.2.1 Description of 26dB & 99% Occupied Bandwidth

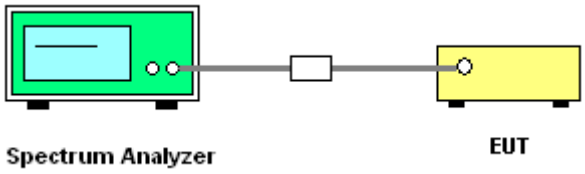
This section is for reporting purpose only.

There is no restriction limits for bandwidth.

## 5.2.2 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

## 5.2.3 Test Setup




## 5.2.4 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

# 5.3 Maximum Conducted Output Power Measurement

## 5.3.1 Limit of Maximum Conducted Output Power

**<FCC 14-30 CFR 15.407>**

**For the 5.25–5.725 GHz bands:**

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

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

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW 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.

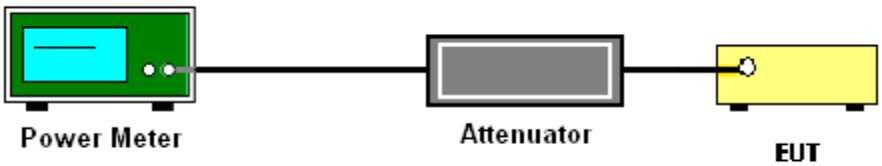
## 5.3.2 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

## 5.3.3 Test Setup




## 5.3.4 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

# 5.4 Power Spectral Density Measurement

## 5.4.1 Limit of Power Spectral Density

**<FCC 14-30 CFR 15.407>**

**For the 5.25–5.725 GHz bands:**

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

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

## 5.4.2 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

**# Method SA-3 #**

(power averaging (rms) detection with max hold):

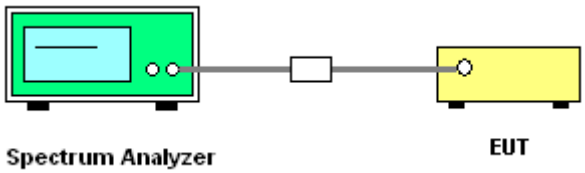
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
  Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (a): Measure and sum the spectra across the outputs.

   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

### 5.4.3 Test Setup




### 5.4.4 Test Result of Maximum Power Spectral Density

Please refer to Appendix A.

# 6 List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| Signal Generator | Keysight | N5182B | MY56200377 | 9kHz~6GHz | Apr. 18, 2024 | Sep. 09, 2024~ Nov. 12, 2024 | Apr. 17, 2025 | DFS (03CH18-HY) |
| Spectrum Analyzer | Rohde & Schwarz | FSV3013 | 101549 | 10Hz~13.6GHz | Jan. 30, 2024 | Sep. 09, 2024~ Nov. 12, 2024 | Jan. 29, 2025 | DFS (03CH18-HY) |
| Double Ridged Guide Horn Antenna | COM-POWER | AH-118 | 071027 | 1GHz~18GHz | Dec. 20, 2023 | Sep. 09, 2024~ Nov. 12, 2024 | Dec. 19, 2024 | DFS (03CH18-HY) |
| Double Ridged Guide Horn Antenna | COM-POWER | AH-118 | 071025 | 1GHz~18GHz | Nov. 27, 2023 | Sep. 09, 2024~ Nov. 12, 2024 | Nov. 26, 2024 | DFS (03CH18-HY) |
| Software 1 | Sporton | DFS & AdaptivityTest Tools | N/A | Ver 1.0 | NCR | Sep. 09, 2024~ Nov. 12, 2024 | NCR | DFS (03CH18-HY) |
| Software 2 | Keysight | Keysight Signal Studio for DFS Radar Profiles | N/A | Ver 1.5.5.0 | NCR | Sep. 09, 2024~ Nov. 12, 2024 | NCR | DFS (03CH18-HY) |
| Power Sensor | DARE | RPR3006W | 16I00054SNO13 (NO:255) | 10MHz~6GHz | Jan. 08, 2024 | Sep. 09, 2024~ Nov. 12, 2024 | Jan. 07, 2025 | DFS (03CH18-HY) |
| Software | Sporton | BTWIFI_Final_version_240823 | N/A | Conducted Other Test Item | N/A | Sep. 09, 2024~ Nov. 12, 2024 | N/A | DFS (03CH18-HY) |

# Appendix A. Test Result of Conducted Test Items

| | | | |
|---|---|---|---|
| **Test Engineer :** | Rebecca Li | **Temperature :** | 21~24℃ |
| | | **Relative Humidity :** | 46~56% |

Report Number : FZ480504

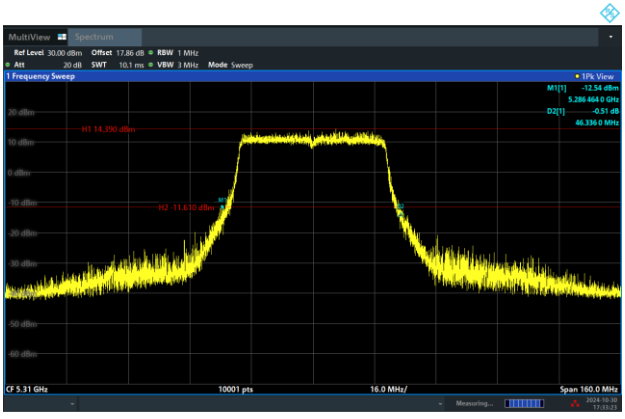
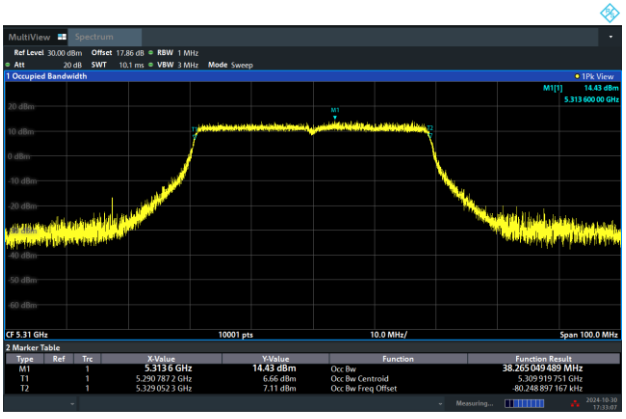
## ***TEST RESULTS DATA***

| Test Channel | | | Radar | Bandwidth Shrinking | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | CH. | Freq. (MHz) | Freq. (MHz) | Mod. | Freq. (MHz) | 99% Bandwidth (MHz) | | 26 dB Bandwidth (MHz) | | Average Conducted Power (dBm) | | | | Average Conducted PSD (dBm/MHz) | |
| | | | | | | Ant 3 | Ant 1 | Ant 3 | Ant 1 | Ant 3 | Ant 1 | SUM | Limit | SUM | Limit |
| EHT80 | 58 | 5290 | 5260 | EHT40 | 5310 | 38.27 | 38.36 | 46.34 | 45.50 | 18.37 | 18.57 | 21.48 | 23.98 | 9.58 | 11.00 |
| | | | 5280 | EHT40 | 5310 | 38.29 | 38.28 | 46.62 | 45.90 | 18.37 | 18.37 | 21.38 | 23.98 | 9.69 | 11.00 |
| EHT160 | 50 | 5250 | 5260 | EHT40 | 5310 | 38.33 | 38.28 | 45.93 | 46.74 | 18.27 | 18.27 | 21.28 | 23.98 | 9.80 | 11.00 |
| | | | 5280 | EHT40 | 5310 | 38.30 | 38.27 | 46.53 | 45.71 | 18.27 | 18.47 | 21.38 | 23.98 | 9.57 | 11.00 |
| EHT80 | 106 | 5530 | 5500 | EHT40 | 5550 | 38.39 | 38.43 | 46.54 | 45.66 | 18.82 | 18.82 | 21.83 | 23.98 | 10.15 | 11.00 |
| | | | 5520 | EHT40 | 5550 | 38.30 | 38.42 | 46.99 | 44.98 | 18.62 | 18.72 | 21.68 | 23.98 | 9.96 | 11.00 |
| | | | 5560 | EHT40 | 5510 | 38.39 | 38.12 | 47.02 | 47.55 | 17.82 | 17.82 | 20.83 | 23.98 | 9.60 | 11.00 |
| EHT160 | 114 | 5570 | 5500 | EHT80 | 5610 | 77.56 | 77.31 | 84.38 | 84.45 | 18.42 | 18.52 | 21.48 | 23.98 | 10.22 | 11.00 |
| | | | 5520 | EHT80 | 5610 | 77.55 | 77.44 | 85.60 | 84.22 | 18.52 | 18.52 | 21.53 | 23.98 | 10.12 | 11.00 |
| | | | 5640 | EHT80 | 5530 | 77.50 | 77.48 | 84.06 | 84.22 | 18.82 | 18.92 | 21.88 | 23.98 | 10.90 | 11.00 |
| EHT240 | 122 | 5610 | 5500 | EHT80 | 5610 | 77.12 | 77.10 | 82.78 | 82.98 | 18.62 | 18.52 | 21.58 | 23.98 | 10.47 | 11.00 |
| | | | 5520 | EHT80 | 5610 | 77.10 | 77.05 | 83.07 | 83.17 | 18.52 | 18.42 | 21.48 | 23.98 | 10.22 | 11.00 |
| | | | 5580 | EHT80 | 5530 | 77.02 | 77.04 | 83.17 | 83.84 | 18.82 | 18.92 | 21.88 | 23.98 | 10.77 | 11.00 |
| | | | 5720 | EHT160 | 5570 | 157.42 | 157.40 | 164.64 | 165.65 | 18.72 | 18.82 | 21.78 | 23.98 | 10.35 | 11.00 |

**Remark:**The directional gain of the transmit antenna is less than 6 dBi.

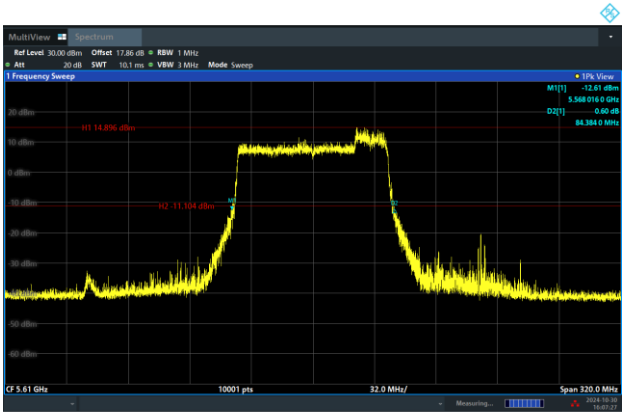
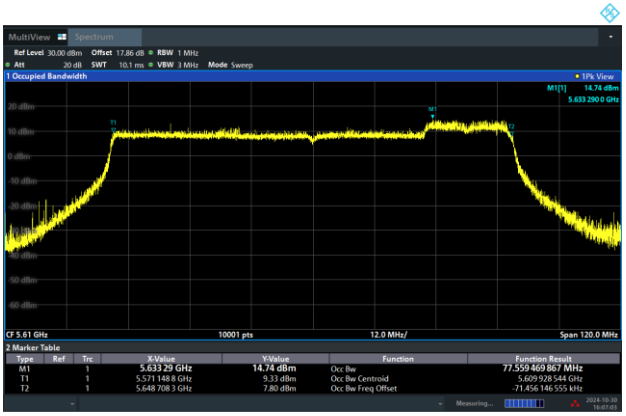
## Test Result of 26dB & 99% Occupied Bandwidth

**<802.11be EHT40>**

| 26dB Bandwidth | 99% Occupied Bandwidth |
|---|---|
|  |  |

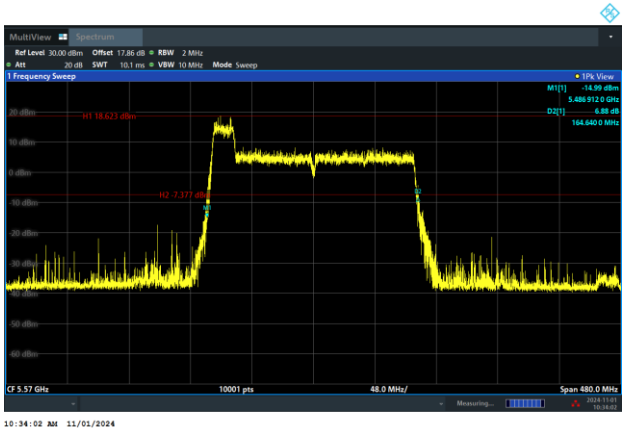
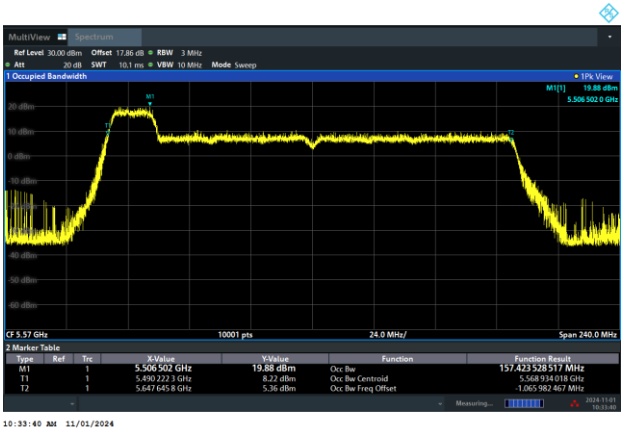
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**<802.11be EHT80>**

| 26dB Bandwidth | 99% Occupied Bandwidth |
|---|---|
|  |  |

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

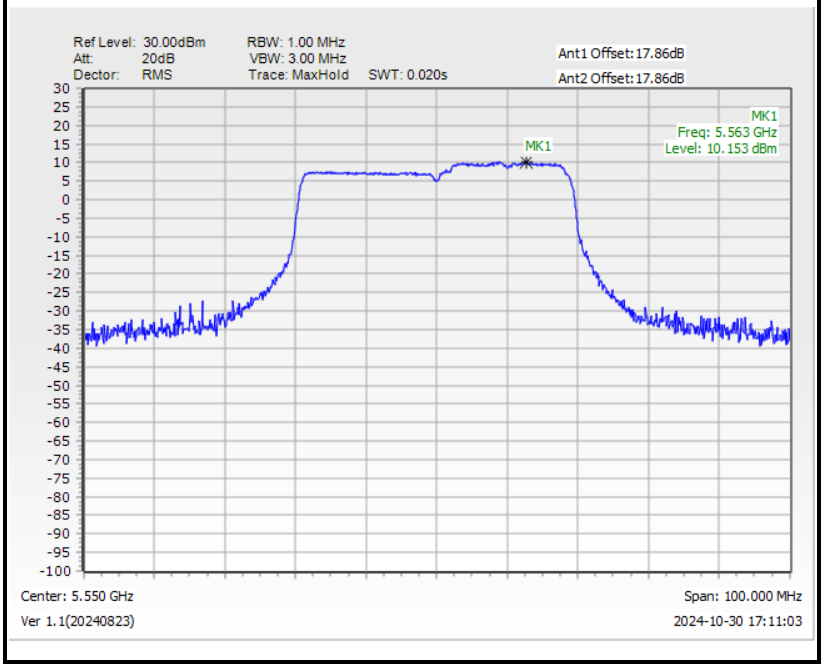
**<802.11be EHT160>**

| 26dB Bandwidth | 99% Occupied Bandwidth |
|---|---|
|  |  |

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

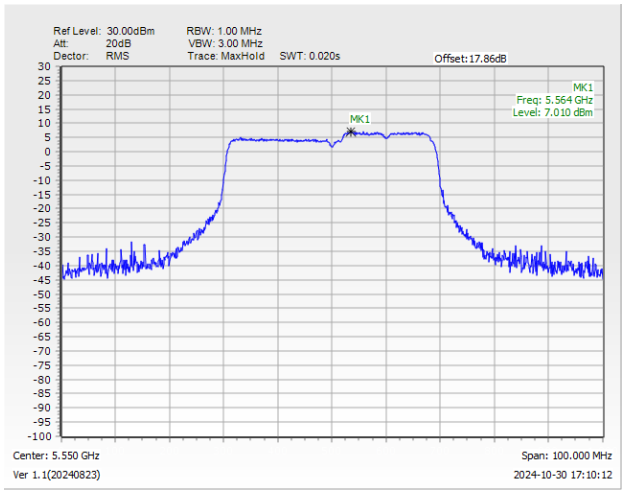
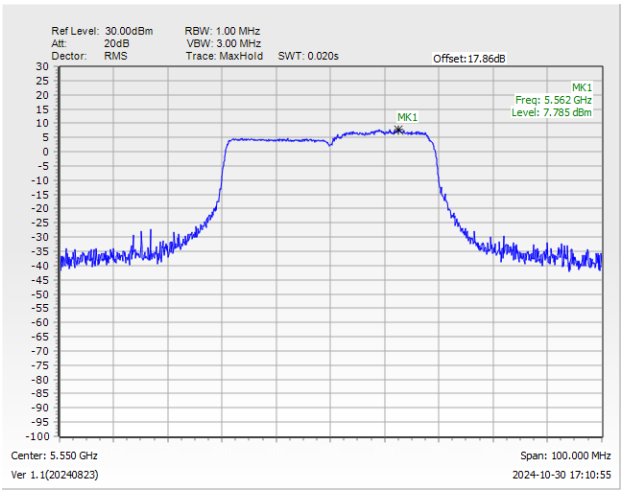
## Test Result of Power Spectral Density

**<802.11be EHT40>**

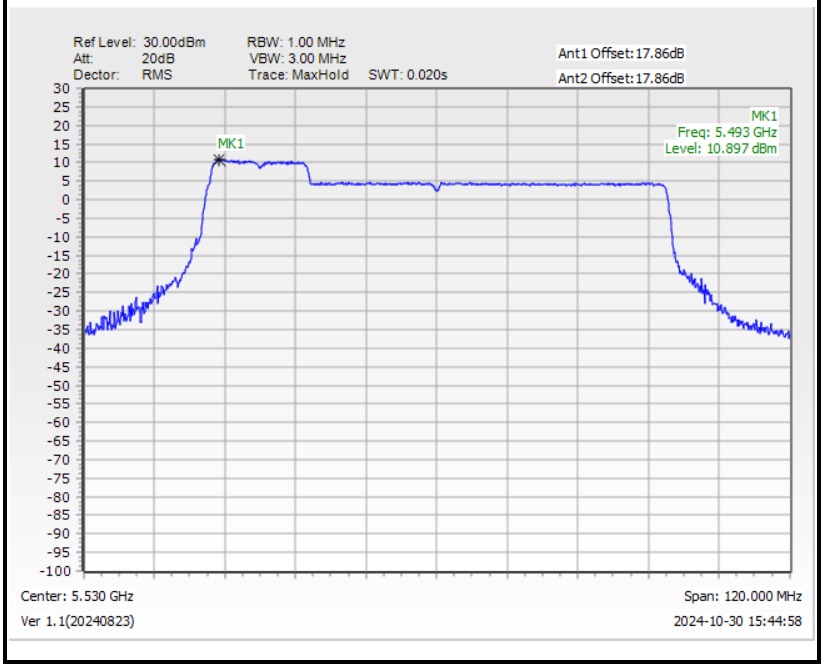
| Maximum Power Density Plot (dBm/MHz) |
|---|
|  |



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

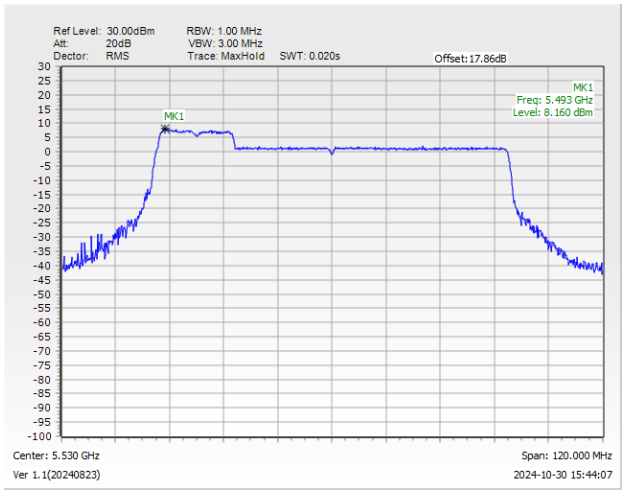
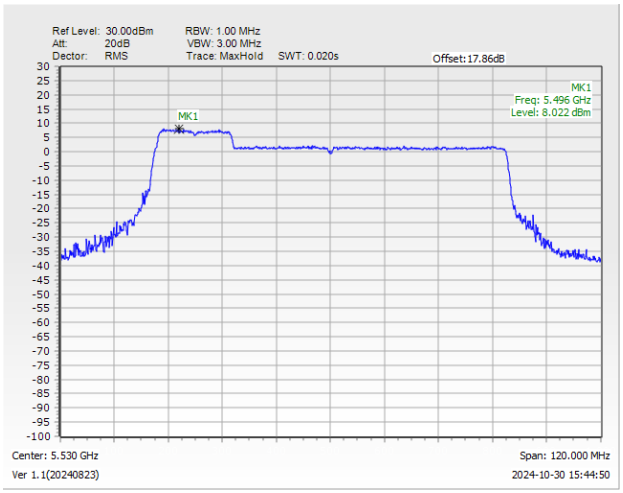
| Maximum Power Density Plot Trace 1 (Ant 3) | Maximum Power Density Plot Trace 2 (Ant 1) |
|---|---|
|  |  |

**<802.11be EHT80>**

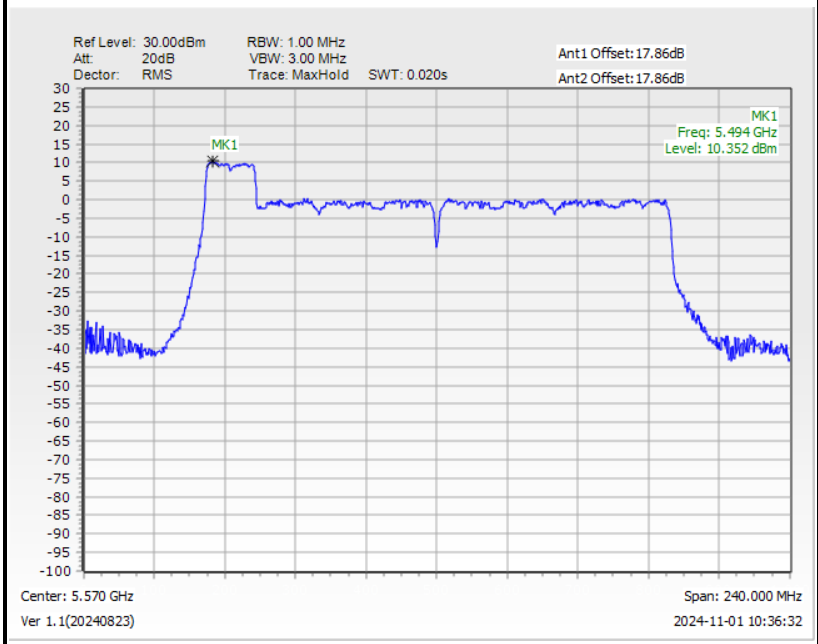
| Maximum Power Density Plot (dBm/MHz) |
|---|
|  |



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

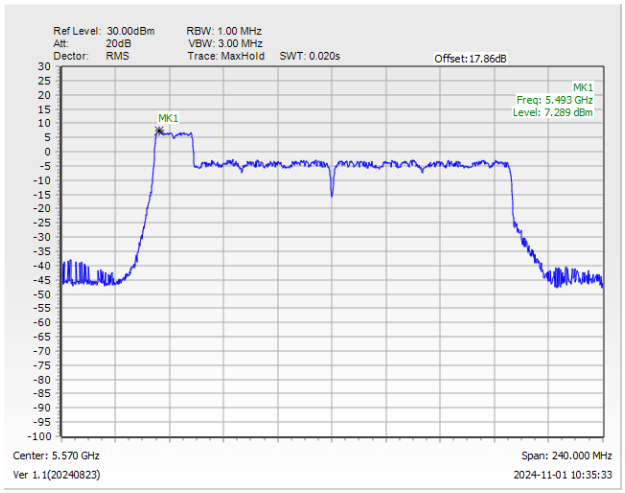
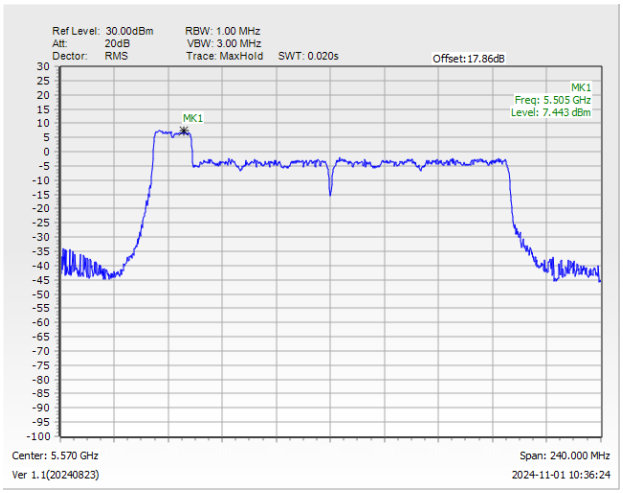
| Maximum Power Density Plot Trace 1 (Ant 3) | Maximum Power Density Plot Trace 2 (Ant 1) |
|---|---|
|  |  |

**<802.11be EHT160>**

| Maximum Power Density Plot (dBm/MHz) |
|---|
|  |



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

| Maximum Power Density Plot Trace 1 (Ant 3) | Maximum Power Density Plot Trace 2 (Ant 1) |
|---|---|
|  |  |





———THE END———