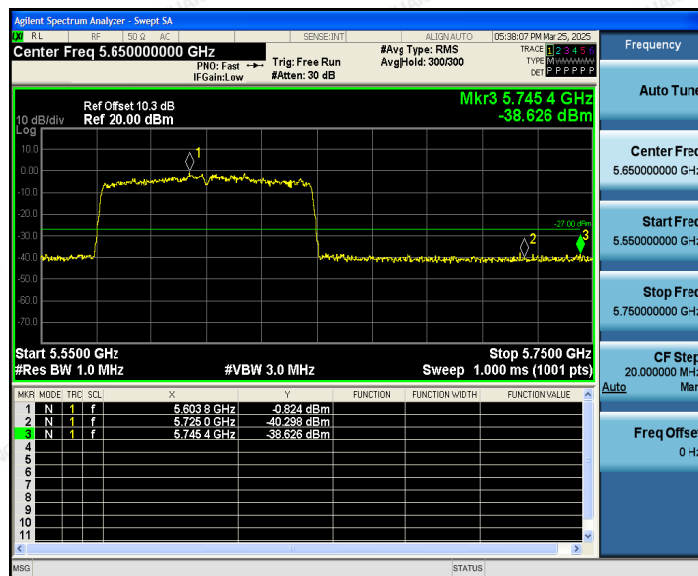




## 5530MHz



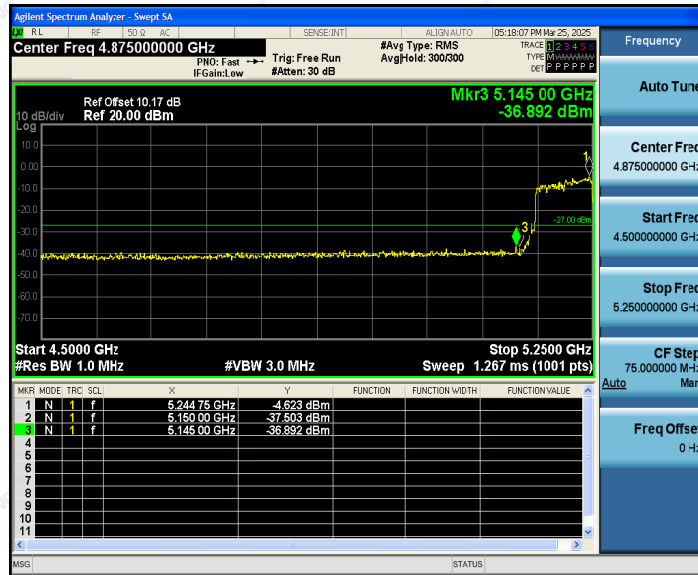
## 5610MHz





Band Edges(IEEE802.11ac HT160 mode)

5250MHz



5250MHz





## 5570MHz

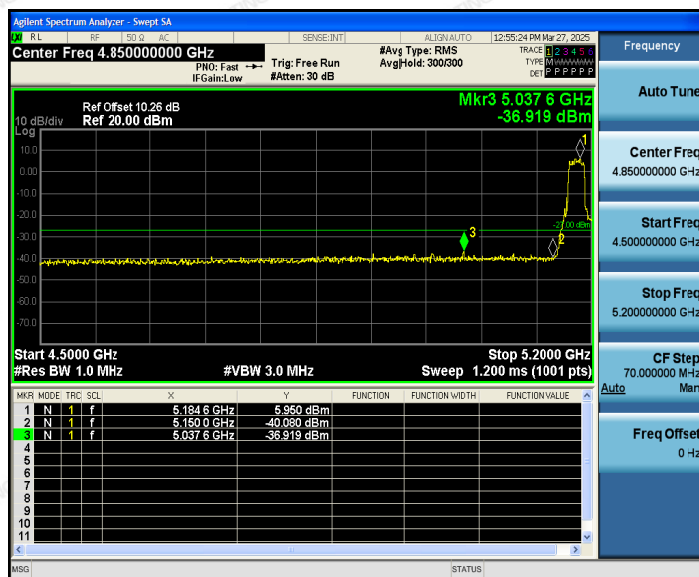


## 5570MHz

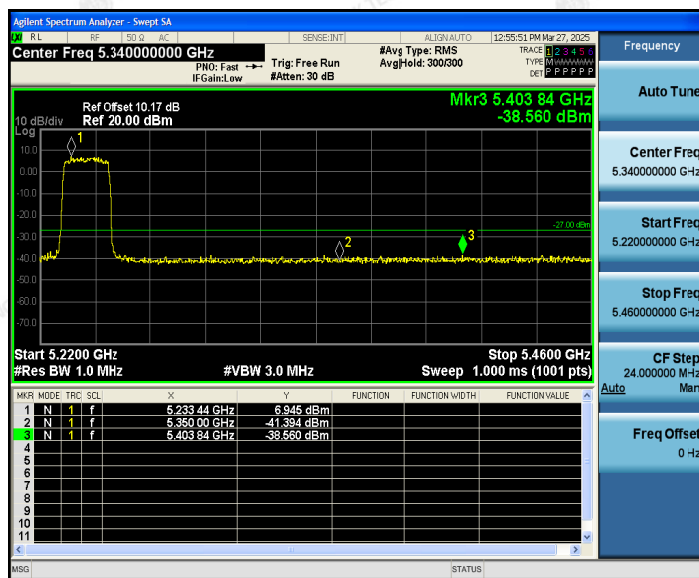


### Band Edges(IEEE802.11ax HE20 mode)

**5180MHz**



5240MHz



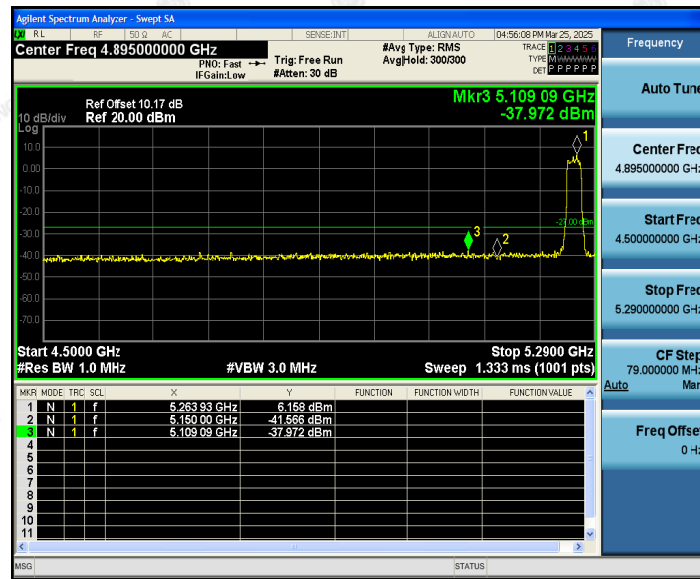
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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## 5260MHz



## 5320MHz







## 5500MHz



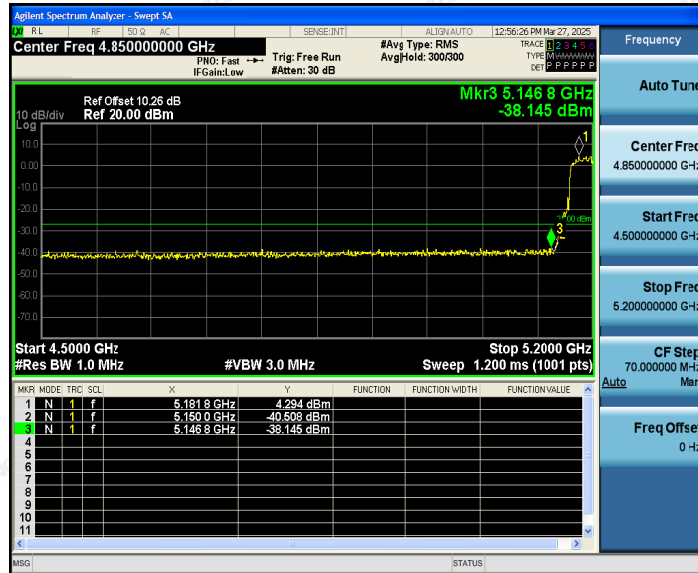
## 5700MHz



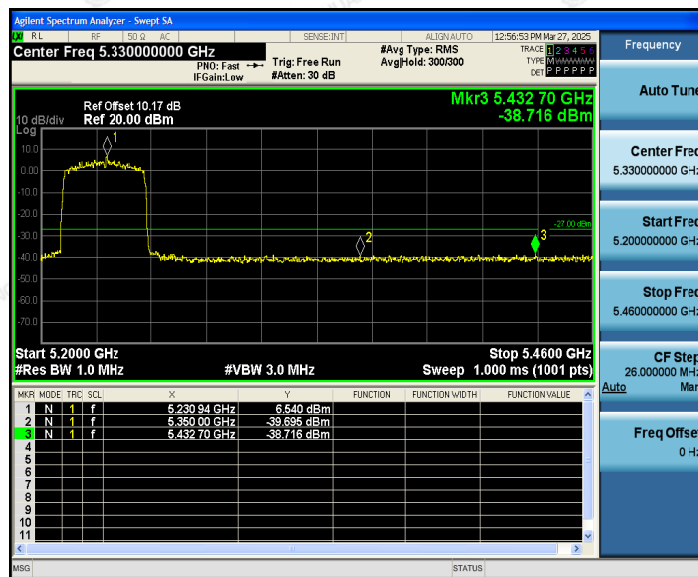


## Band Edges(IEEE802.11ax HE40 mode)

5190MHz

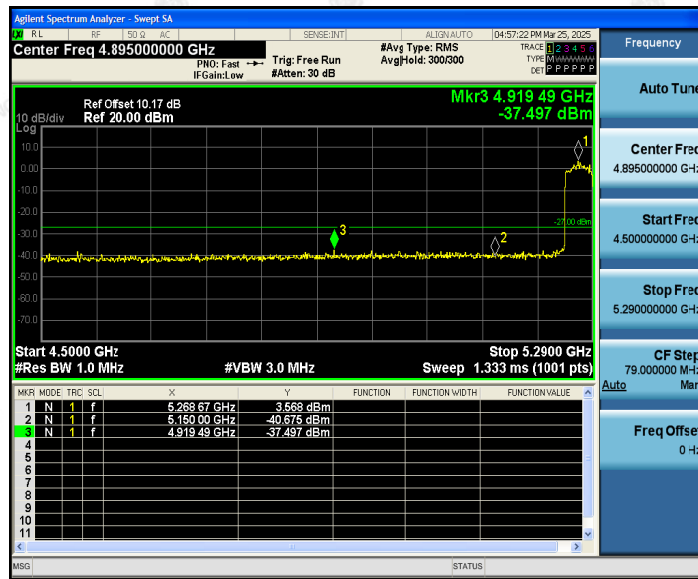


5230MHz





### 5270MHz



### 5310MHz







## 5510MHz



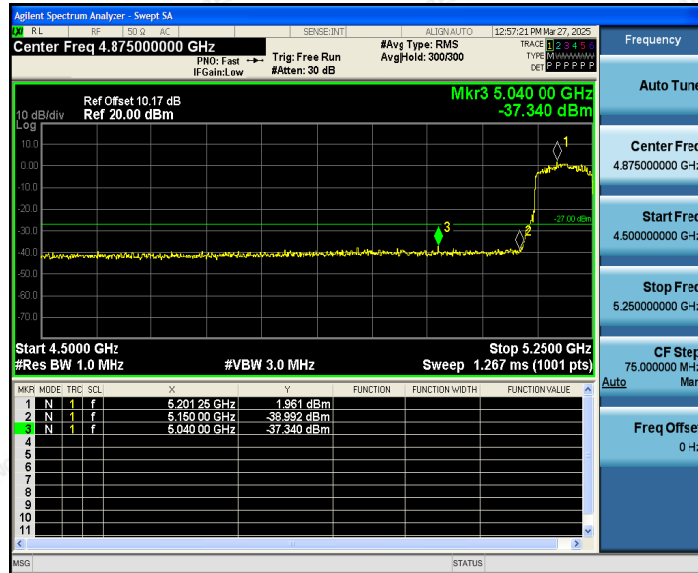
## 5670MHz





Band Edges(IEEE802.11ax HE80 mode)

5210MHz

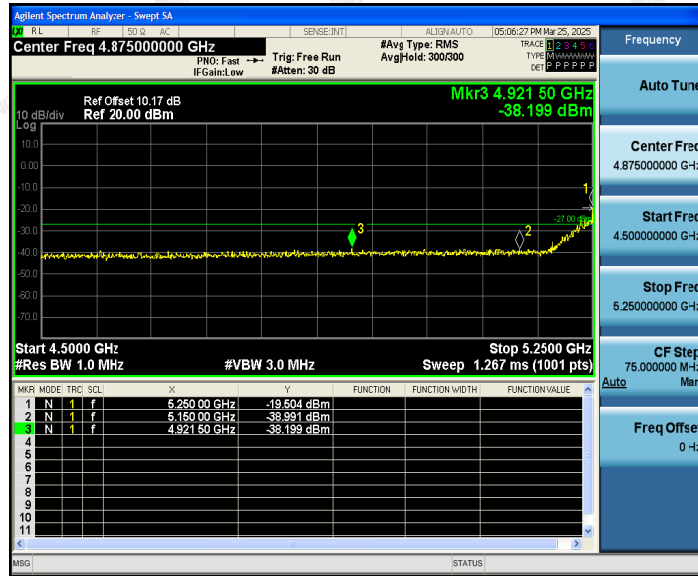


5210MHz





5290MHz



5290MHz

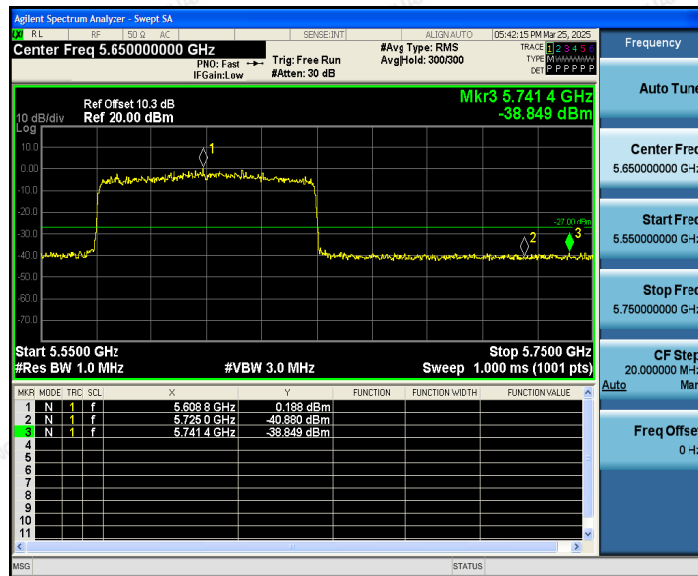




## 5530MHz



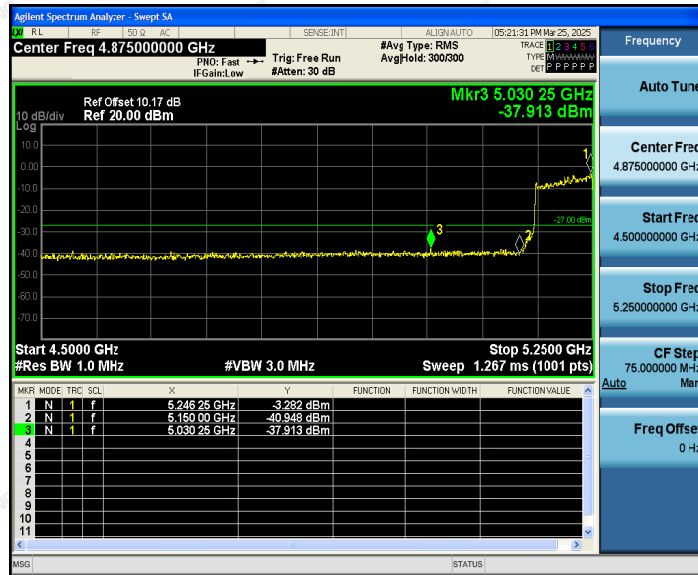
## 5610MHz





Band Edges(IEEE802.11ax HE160 mode)

5250MHz



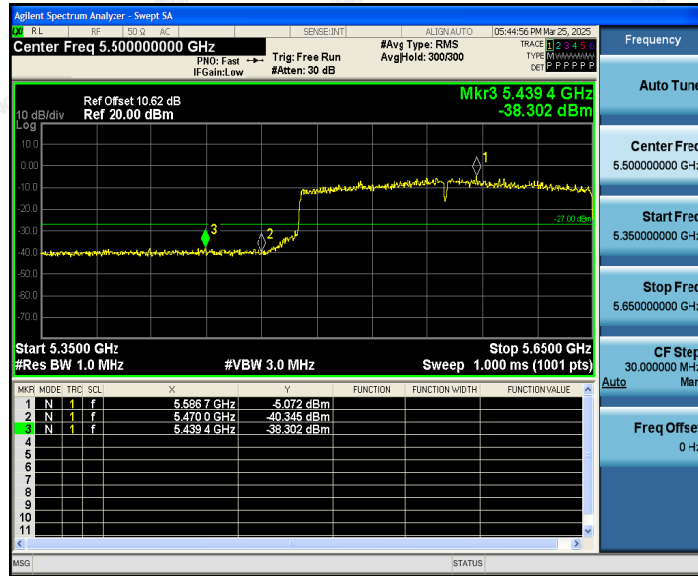
5250MHz



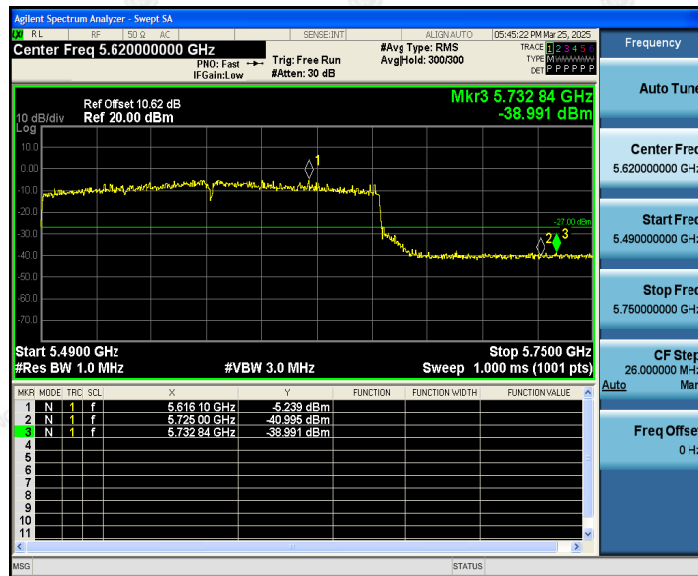




5570MHz



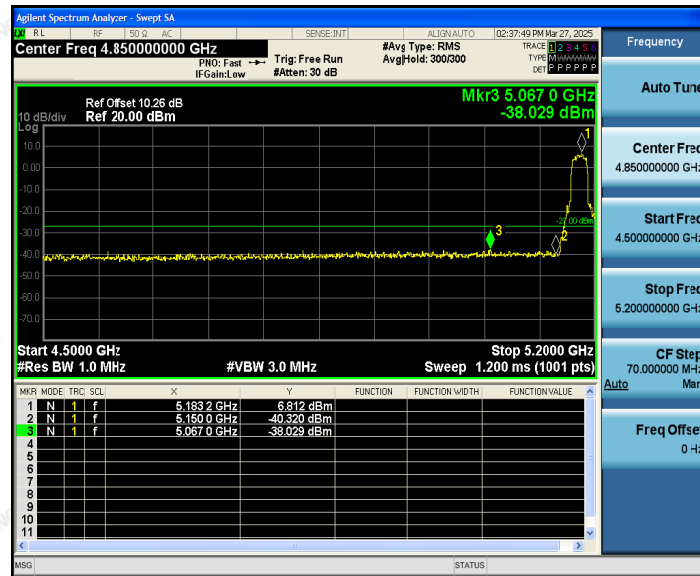
5570MHz



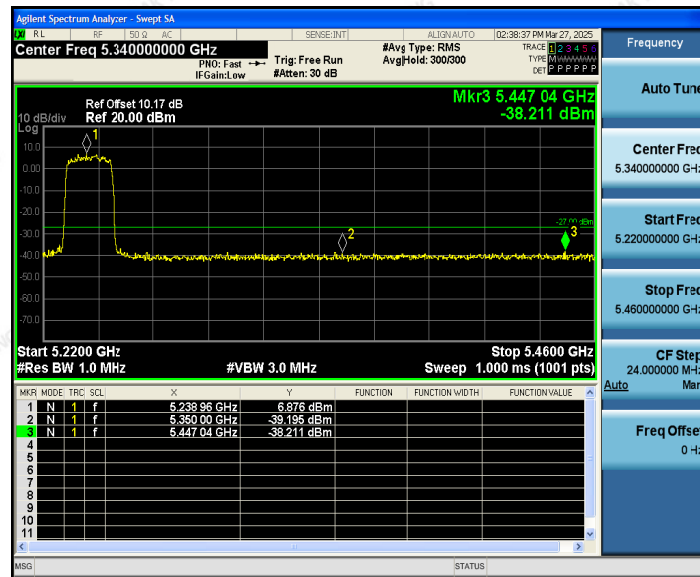


Band Edges(IEEE802.11be EHT20 mode)

5180MHz



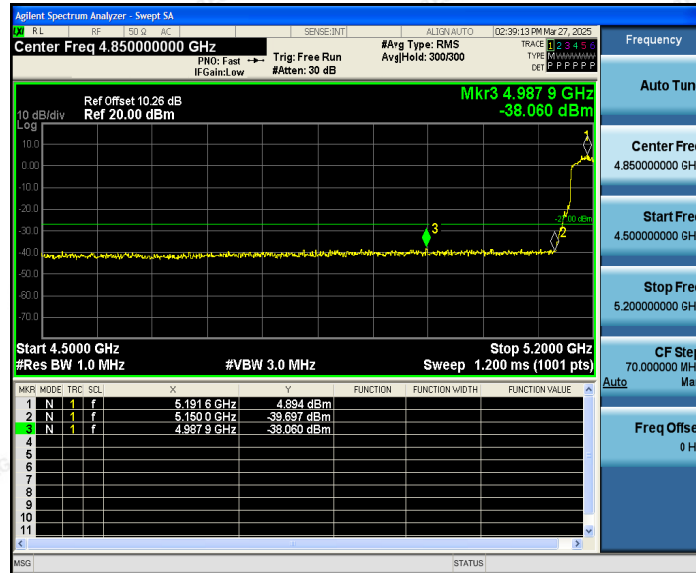
5240MHz



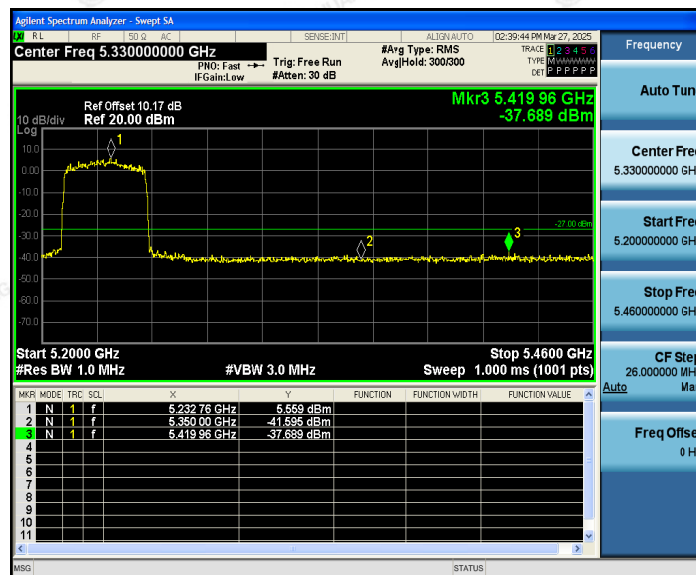


Band Edges(IEEE802.11be EHT40 mode)

5190MHz



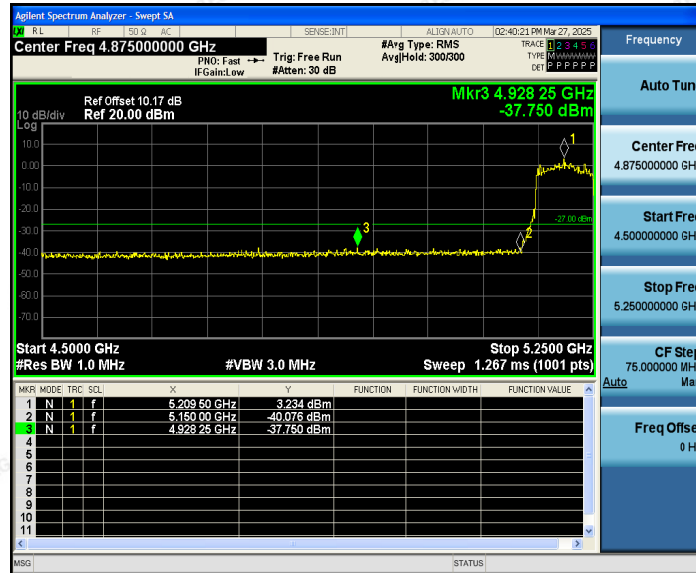
5230MHz





Band Edges(IEEE802.11be EHT80 mode)

5210MHz



5210MHz







## 6.4 Maximum Power Spectral Density

### LIMIT

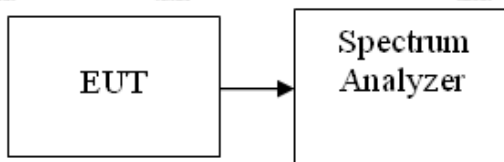
According to §15.407(a),

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

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

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

### Test Configuration



### TESTPROCEDURE

1. Place the EUT on the table and set it in transmitting mode.  
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span must be greater than 26dB bandwidth, adjust as necessary, Sweep= auto, Detector RMS
3. Record the max. reading.

### TESTRESULTS

*No non-compliance noted*

### Test Data





Testmode:IEEE802.11a mode

5150~5250MHz

| Channel | Frequency (MHz) | PPSD(dBm) |      | Mimo | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------|------------|--------|
|         |                 | Ant1      | Ant2 |      |            |        |
| Low     | 5180            | 1.75      | 2.21 | /    | 11         | PASS   |
| Mid     | 5200            | 1.49      | 2.29 | /    | 11         | PASS   |
| High    | 5240            | 1.52      | 1.34 | /    | 11         | PASS   |

5250~5350MHz

| Channel | Frequency (MHz) | PPSD(dBm) |      | Mimo | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------|------------|--------|
|         |                 | Ant1      | Ant2 |      |            |        |
| Low     | 5260            | 1.91      | 2.06 | /    | 11         | PASS   |
| Mid     | 5280            | 1.63      | 2.17 | /    | 11         | PASS   |
| High    | 5320            | 2.82      | 2.72 | /    | 11         | PASS   |

5470~5725MHz

| Channel | Frequency (MHz) | PPSD(dBm) |      | Mimo | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------|------------|--------|
|         |                 | Ant1      | Ant2 |      |            |        |
| Low     | 5500            | 3.03      | 3.17 | /    | 11         | PASS   |
| Mid     | 5580            | 2.82      | 3.25 | /    | 11         | PASS   |
| High    | 5700            | 1.24      | 1.17 | /    | 11         | PASS   |

Testmode:IEEE802.11n HT20 mode

5150~5250MHz

| Channel | Frequency (MHz) | PPSD(dBm) |      | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------------|--------|
|         |                 | Ant1      | Ant2 |            |        |
| Low     | 5180            | 2.05      | 1.18 | 11         | PASS   |
| Mid     | 5200            | 2.01      | 1.68 | 11         | PASS   |
| High    | 5240            | 1.28      | 1.43 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5180            | 4.65 | 11         | PASS   |
| Mid     | 5200            | 4.86 | 11         | PASS   |
| High    | 5240            | 4.37 | 11         | PASS   |

**5250~5350MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |      | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------------|--------|
|         |                 | Ant1      | Ant2 |            |        |
| Low     | 5260            | 1.84      | 1.69 | 11         | PASS   |
| Mid     | 5280            | 1.42      | 1.82 | 11         | PASS   |
| High    | 5320            | 2.21      | 2.57 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5260            | 4.78 | 11         | PASS   |
| Mid     | 5280            | 4.63 | 11         | PASS   |
| High    | 5320            | 5.40 | 11         | PASS   |

**5470~5725MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |      | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------------|--------|
|         |                 | Ant1      | Ant2 |            |        |
| Low     | 5500            | 2.40      | 2.52 | 11         | PASS   |
| Mid     | 5580            | 2.24      | 2.33 | 11         | PASS   |
| High    | 5700            | 0.74      | 1.02 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5500            | 5.47 | 10.55      | PASS   |
| Mid     | 5580            | 5.30 | 10.55      | PASS   |
| High    | 5700            | 3.89 | 10.55      | PASS   |

**Testmode:IEEE802.11n HT40 mode****5150~5250MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5190            | -2.56     | -2.69 | 11         | PASS   |
| High    | 5230            | -2.47     | -2.86 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5190            | 0.39 | 11         | PASS   |
| High    | 5230            | 0.35 | 11         | PASS   |

**5250~5350MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5270            | -1.34     | -2.17 | 11         | PASS   |
| High    | 5310            | -1.88     | -1.98 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5270            | 1.28 | 11         | PASS   |
| High    | 5310            | 1.08 | 11         | PASS   |

**5470~5725MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5510            | 0.32      | 0.44  | 11         | PASS   |
| Mid     | 5550            | -1.45     | -0.96 | 11         | PASS   |
| High    | 5670            | -2.53     | -1.80 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5510            | 3.39 | 10.55      | PASS   |
| Mid     | 5550            | 1.81 | 10.55      | PASS   |
| High    | 5670            | 0.86 | 10.55      | PASS   |

**Testmode:IEEE802.11ac HT20 mode****5150~5250MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |      | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------------|--------|
|         |                 | Ant1      | Ant2 |            |        |
| Low     | 5180            | 2.40      | 3.16 | 11         | PASS   |
| Mid     | 5200            | 1.94      | 2.11 | 11         | PASS   |
| High    | 5240            | 1.97      | 2.17 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5180            | 5.81 | 11         | PASS   |
| Mid     | 5200            | 5.04 | 11         | PASS   |
| High    | 5240            | 5.08 | 11         | PASS   |

**5250~5350MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |      | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------------|--------|
|         |                 | Ant1      | Ant2 |            |        |
| Low     | 5260            | 3.78      | 2.67 | 11         | PASS   |
| Mid     | 5280            | 2.14      | 3.00 | 11         | PASS   |
| High    | 5320            | 3.26      | 3.52 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5260            | 6.27 | 11         | PASS   |
| Mid     | 5280            | 5.60 | 11         | PASS   |
| High    | 5320            | 6.40 | 11         | PASS   |

**5470~5725MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |      | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------------|--------|
|         |                 | Ant1      | Ant2 |            |        |
| Low     | 5500            | 2.89      | 3.48 | 11         | PASS   |
| Mid     | 5580            | 4.06      | 4.54 | 11         | PASS   |
| High    | 5700            | 2.72      | 2.19 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5500            | 6.21 | 10.55      | PASS   |
| Mid     | 5580            | 7.32 | 10.55      | PASS   |
| High    | 5700            | 5.47 | 10.55      | PASS   |

**Testmode:IEEE802.11ac HT40 mode****5150~5250MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5190            | -0.32     | -1.94 | 11         | PASS   |
| High    | 5230            | -1.17     | -0.89 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5190            | 1.96 | 11         | PASS   |
| High    | 5230            | 1.98 | 11         | PASS   |



**5250~5350MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5270            | -0.53     | -0.13 | 11         | PASS   |
| High    | 5310            | -0.70     | -0.57 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5270            | 2.68 | 11         | PASS   |
| High    | 5310            | 2.38 | 11         | PASS   |

**5470~5725MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5510            | -0.63     | 0.87  | 11         | PASS   |
| Mid     | 5550            | -0.18     | 1.12  | 11         | PASS   |
| High    | 5670            | -1.79     | -0.95 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5510            | 3.19 | 10.55      | PASS   |
| Mid     | 5550            | 3.53 | 10.55      | PASS   |
| High    | 5670            | 1.66 | 10.55      | PASS   |

**Testmode:IEEE802.11ac HT80 mode****5150~5250MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5210            | -6.02     | -5.68 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo  | Limit(dBm) | Result |
|---------|-----------------|-------|------------|--------|
| Low     | 5210            | -2.84 | 11         | PASS   |



**5250~5350MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5290            | -5.79     | -4.87 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo  | Limit(dBm) | Result |
|---------|-----------------|-------|------------|--------|
| Low     | 5290            | -2.30 | 11         | PASS   |

**5470~5725MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5530            | -4.79     | -3.73 | 11         | PASS   |
| High    | 5610            | -4.64     | -4.42 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo  | Limit(dBm) | Result |
|---------|-----------------|-------|------------|--------|
| Low     | 5530            | -1.22 | 10.55      | PASS   |
| High    | 5610            | -1.52 | 10.55      | PASS   |

Testmode:IEEE802.11ac HT160 mode

**5150~5350MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |        | Limit(dBm) | Result |
|---------|-----------------|-----------|--------|------------|--------|
|         |                 | Ant1      | Ant2   |            |        |
| Low     | 5250            | -11.60    | -11.10 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo  | Limit(dBm) | Result |
|---------|-----------------|-------|------------|--------|
| Low     | 5250            | -8.33 | 11         | PASS   |

**5470~5725MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |        | Limit(dBm) | Result |
|---------|-----------------|-----------|--------|------------|--------|
|         |                 | Ant1      | Ant2   |            |        |
| Low     | 5570            | -10.04    | -18.59 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo  | Limit(dBm) | Result |
|---------|-----------------|-------|------------|--------|
| Low     | 5570            | -9.47 | 10.55      | PASS   |

**Testmode:IEEE802.11ax HE20 mode****5150~5250MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |      | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------------|--------|
|         |                 | Ant1      | Ant2 |            |        |
| Low     | 5180            | 3.35      | 3.64 | 11         | PASS   |
| Mid     | 5200            | 4.19      | 3.40 | 11         | PASS   |
| High    | 5240            | 1.87      | 2.58 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5180            | 6.51 | 11         | PASS   |
| Mid     | 5200            | 6.82 | 11         | PASS   |
| High    | 5240            | 5.25 | 11         | PASS   |

**5250~5350MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |      | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------------|--------|
|         |                 | Ant1      | Ant2 |            |        |
| Low     | 5260            | 4.77      | 2.70 | 11         | PASS   |
| Mid     | 5280            | 3.44      | 2.46 | 11         | PASS   |
| High    | 5320            | 4.00      | 3.30 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5260            | 6.87 | 11         | PASS   |
| Mid     | 5280            | 5.99 | 11         | PASS   |
| High    | 5320            | 6.67 | 11         | PASS   |

**5470~5725MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |      | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------------|--------|
|         |                 | Ant1      | Ant2 |            |        |
| Low     | 5500            | 4.56      | 4.51 | 11         | PASS   |
| Mid     | 5580            | 2.56      | 4.12 | 11         | PASS   |
| High    | 5700            | 1.37      | 3.07 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5500            | 7.55 | 10.55      | PASS   |
| Mid     | 5580            | 6.42 | 10.55      | PASS   |
| High    | 5700            | 5.31 | 10.55      | PASS   |



Testmode:IEEE802.11ax HE40 mode

## 5150~5250MHz

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5190            | -0.15     | 0.89  | 11         | PASS   |
| High    | 5230            | -0.68     | -1.55 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5190            | 3.41 | 11         | PASS   |
| High    | 5230            | 1.92 | 11         | PASS   |

## 5250~5350MHz

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5270            | -0.05     | -0.49 | 11         | PASS   |
| High    | 5310            | -0.61     | -0.20 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5270            | 2.75 | 11         | PASS   |
| High    | 5310            | 2.61 | 11         | PASS   |

## 5470~5725MHz

| Channel | Frequency (MHz) | PPSD(dBm) |      | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------------|--------|
|         |                 | Ant1      | Ant2 |            |        |
| Low     | 5510            | 0.50      | 1.38 | 11         | PASS   |
| Mid     | 5550            | 0.48      | 1.57 | 11         | PASS   |
| High    | 5670            | -1.13     | 0.66 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5510            | 3.97 | 10.55      | PASS   |
| Mid     | 5550            | 4.07 | 10.55      | PASS   |
| High    | 5670            | 2.87 | 10.55      | PASS   |



Testmode:IEEE802.11ax HE80 mode

## 5150~5250MHz

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5210            | -4.60     | -5.14 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo  | Limit(dBm) | Result |
|---------|-----------------|-------|------------|--------|
| Low     | 5210            | -1.85 | 11         | PASS   |

## 5250~5350MHz

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5290            | -4.84     | -3.74 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo  | Limit(dBm) | Result |
|---------|-----------------|-------|------------|--------|
| Low     | 5290            | -1.24 | 11         | PASS   |

## 5470~5725MHz

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5530            | -3.28     | -2.66 | 11         | PASS   |
| High    | 5610            | -4.49     | -2.69 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo  | Limit(dBm) | Result |
|---------|-----------------|-------|------------|--------|
| Low     | 5530            | 0.05  | 10.55      | PASS   |
| High    | 5610            | -0.49 | 10.55      | PASS   |





Testmode:IEEE802.11ax HE160 mode

**5150~5350MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5250            | -10.87    | -8.78 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo  | Limit(dBm) | Result |
|---------|-----------------|-------|------------|--------|
| Low     | 5250            | -6.69 | 11         | PASS   |

**5470~5725MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5570            | -8.12     | -7.18 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo  | Limit(dBm) | Result |
|---------|-----------------|-------|------------|--------|
| Low     | 5570            | -4.61 | 10.55      | PASS   |

Testmode:IEEE802.11be EHT20 mode

**5150~5250MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |      | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------------|--------|
|         |                 | Ant1      | Ant2 |            |        |
| Low     | 5180            | 5.25      | 4.06 | 11         | PASS   |
| Mid     | 5200            | 4.58      | 5.17 | 11         | PASS   |
| High    | 5240            | 4.51      | 4.97 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5180            | 7.71 | 11         | PASS   |
| Mid     | 5200            | 7.90 | 11         | PASS   |
| High    | 5240            | 7.76 | 11         | PASS   |

**Testmode:IEEE802.11be EHT40 mode****5150~5250MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |      | Limit(dBm) | Result |
|---------|-----------------|-----------|------|------------|--------|
|         |                 | Ant1      | Ant2 |            |        |
| Low     | 5190            | 2.16      | 1.12 | 11         | PASS   |
| High    | 5230            | 0.75      | 2.75 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo | Limit(dBm) | Result |
|---------|-----------------|------|------------|--------|
| Low     | 5190            | 4.68 | 11         | PASS   |
| High    | 5230            | 4.87 | 11         | PASS   |

**Testmode:IEEE802.11be EHT80 mode****5150~5250MHz**

| Channel | Frequency (MHz) | PPSD(dBm) |       | Limit(dBm) | Result |
|---------|-----------------|-----------|-------|------------|--------|
|         |                 | Ant1      | Ant2  |            |        |
| Low     | 5210            | -5.63     | -1.92 | 11         | PASS   |

| Channel | Frequency (MHz) | Mimo  | Limit(dBm) | Result |
|---------|-----------------|-------|------------|--------|
| Low     | 5210            | -0.38 | 11         | PASS   |

**Note:**

1. Duty factor has been off seted with cable loss
2. According to KDB 662911, Result power =  $10\log(10(\text{ant1}/10)+10(\text{ant2}/10))$ .
3. Result unit: W, The end result is converted to units of dBm.  
 $5.6\text{G MIMO limit}=11\text{dBm}-(\text{direction gain}-6\text{dBi})= 10.55(\text{dBm/MHz})$



**Test Plot**  
**Antenna 1**

**IEEE802.11a mode:**

**5150~5250MHz**

**Low Channel**

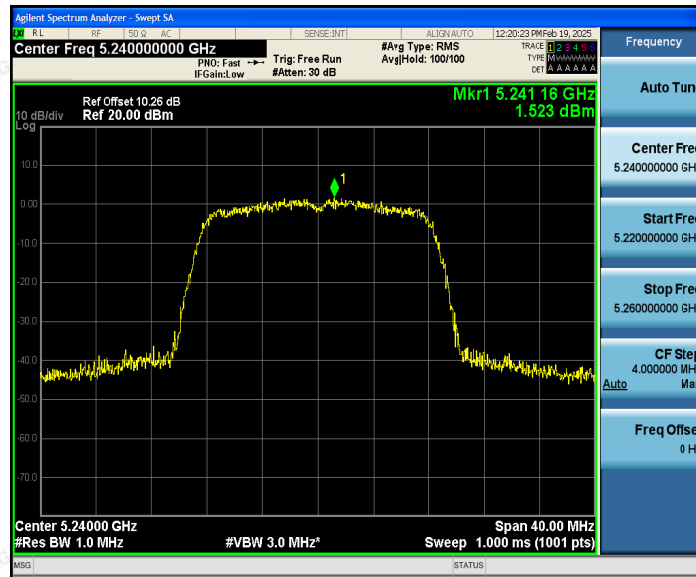


**Mid Channel**





## High Channel



5250~5350MHz

## Low Channel







### Mid Channel



### High Channel



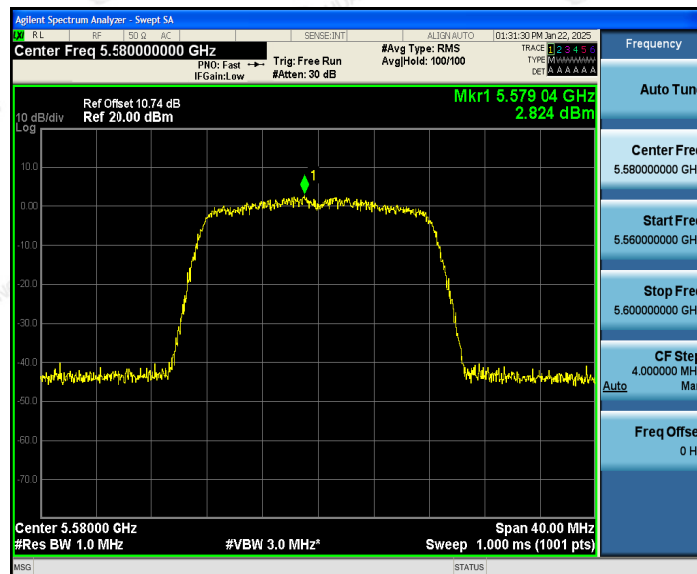


5470~5725MHz

### Low Channel



### Mid Channel





## High Channel

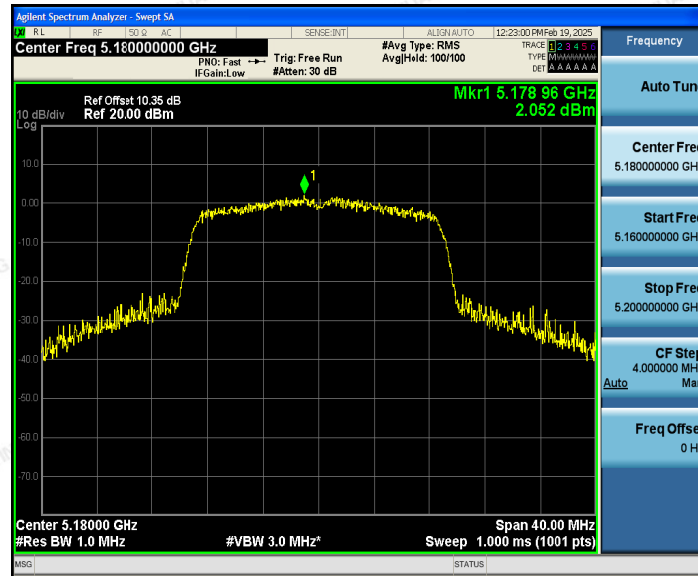




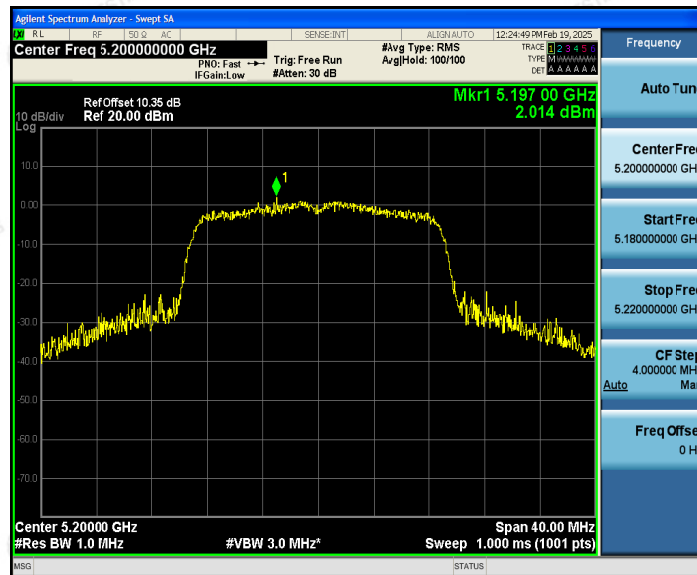
**IEEE802.11n HT20 mode**

**5150~5250MHz**

**Low Channel**



**Mid Channel**





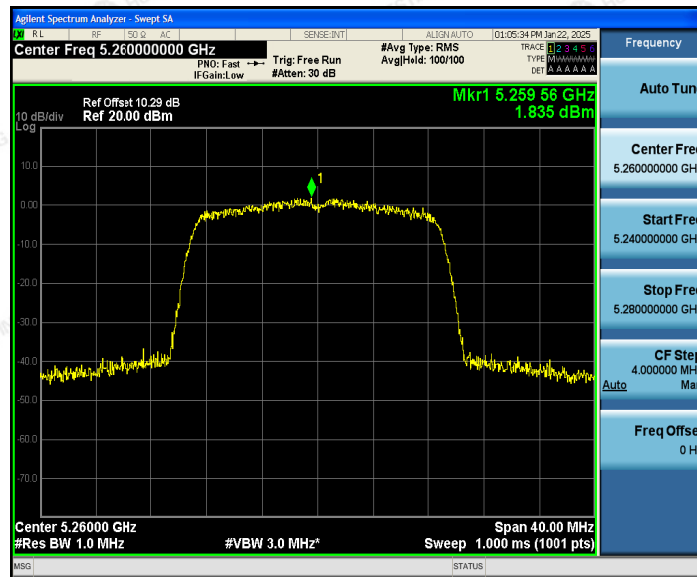


## High Channel



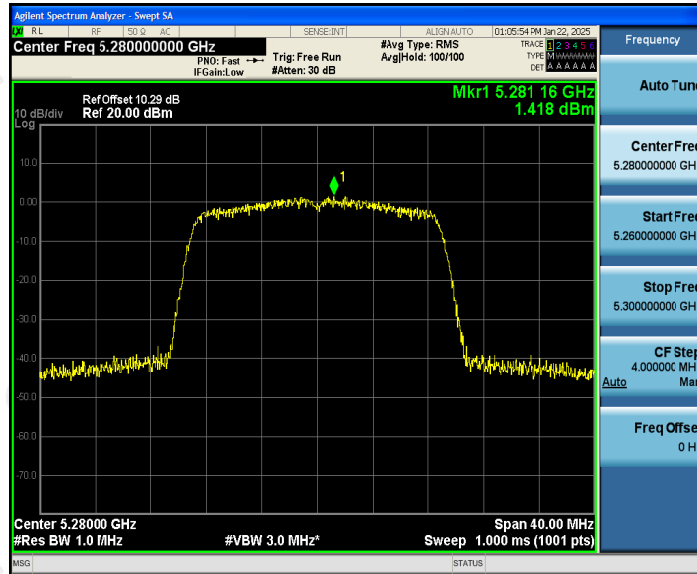
5250~5350MHz

## Low Channel

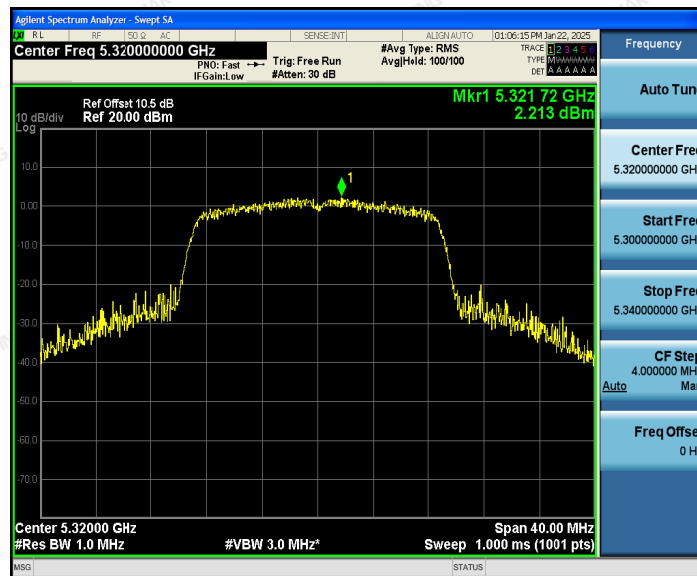




### Mid Channel



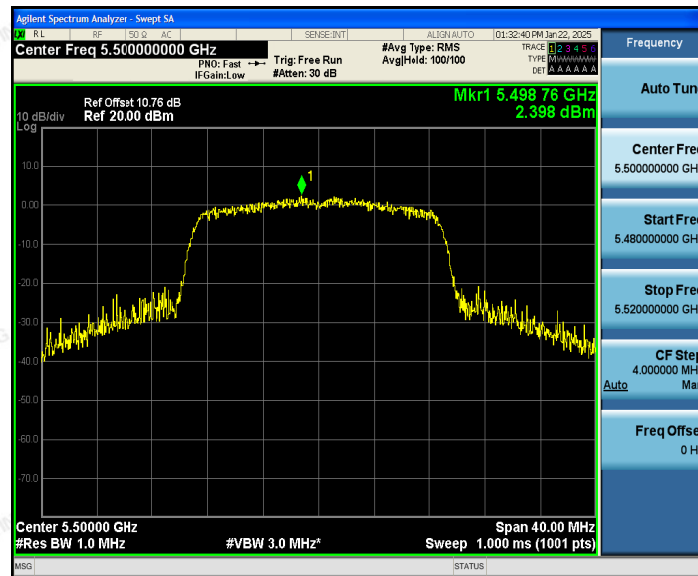
### High Channel



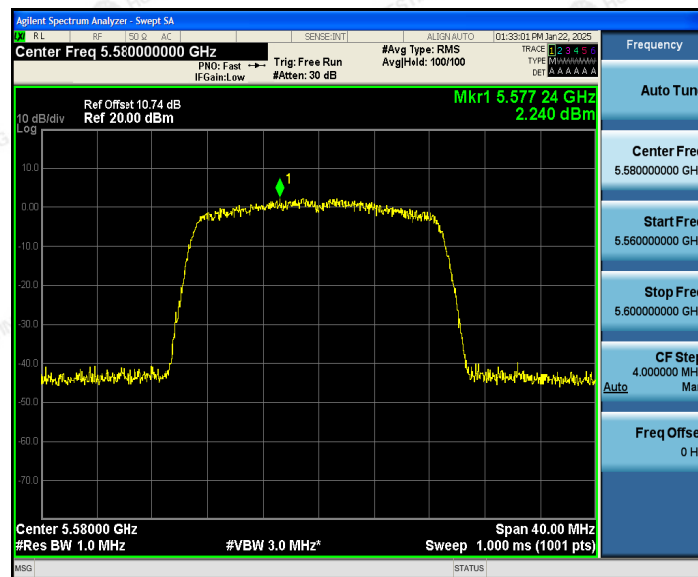


5470~5725MHz

### Low Channel

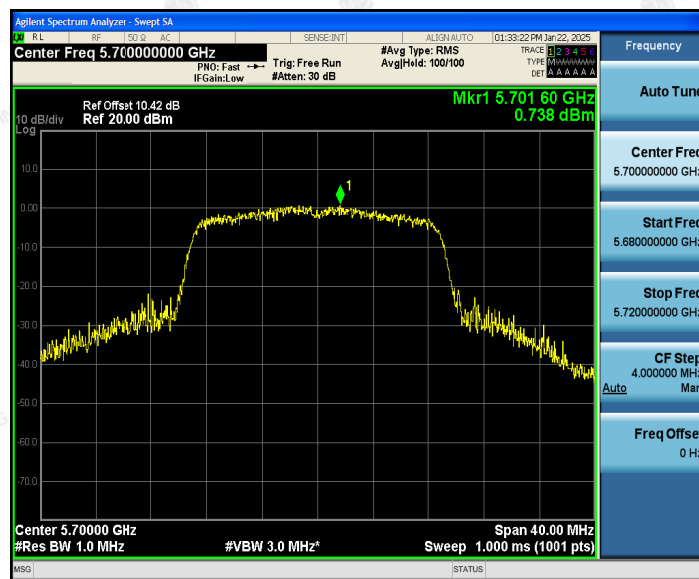


### Mid Channel





## High Channel





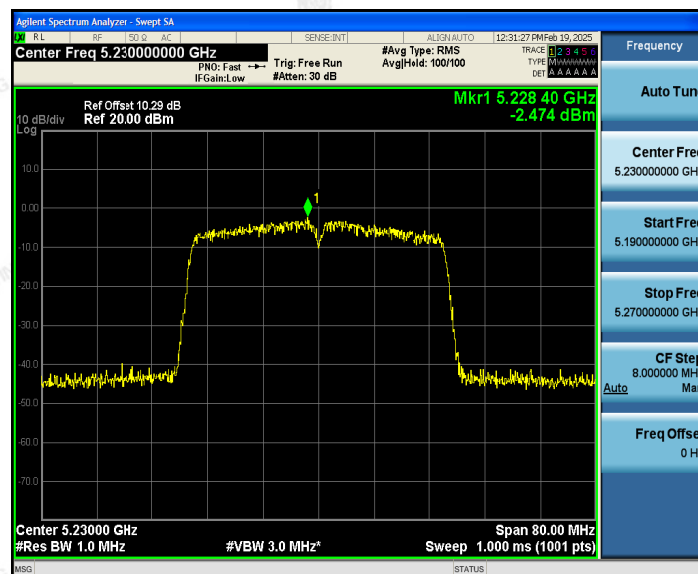
**IEEE802.11n HT40 mode**

**5150~5250MHz**

**Low Channel**



**High Channel**







5250~5350MHz

### Low Channel



### High Channel



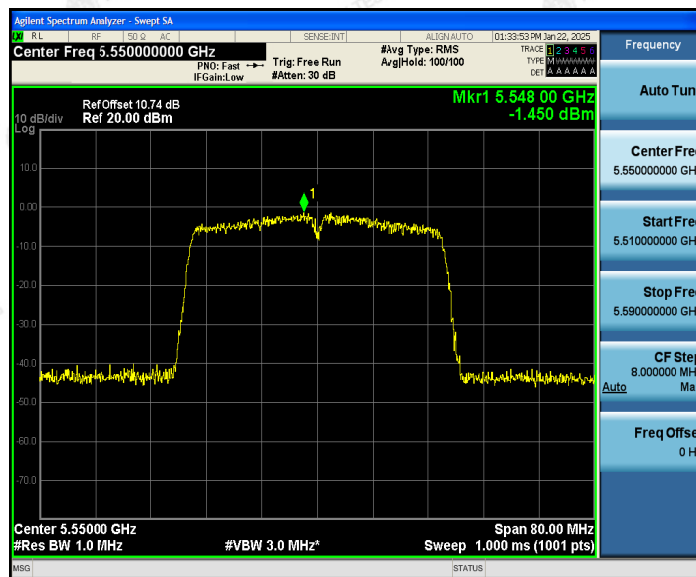


5470~5725MHz

### Low Channel



### Mid Channel





## High Channel



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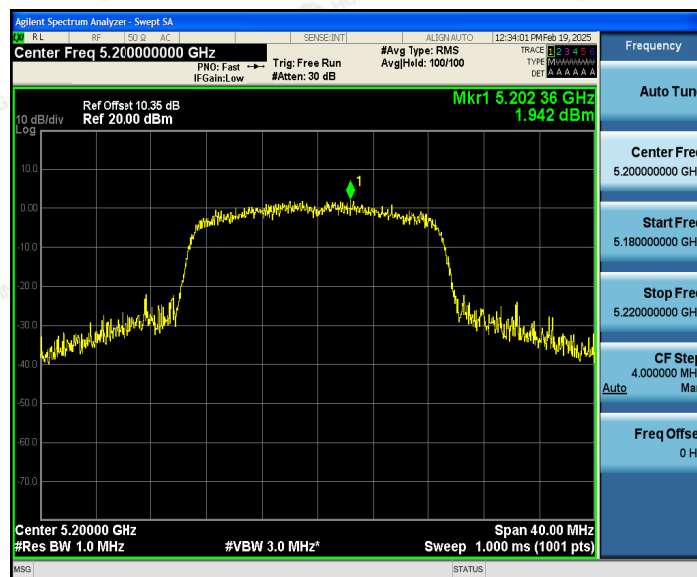
**IEEE802.11ac HT20 mode**

**5150~5250MHz**

**Low Channel**



**Mid Channel**





## High Channel



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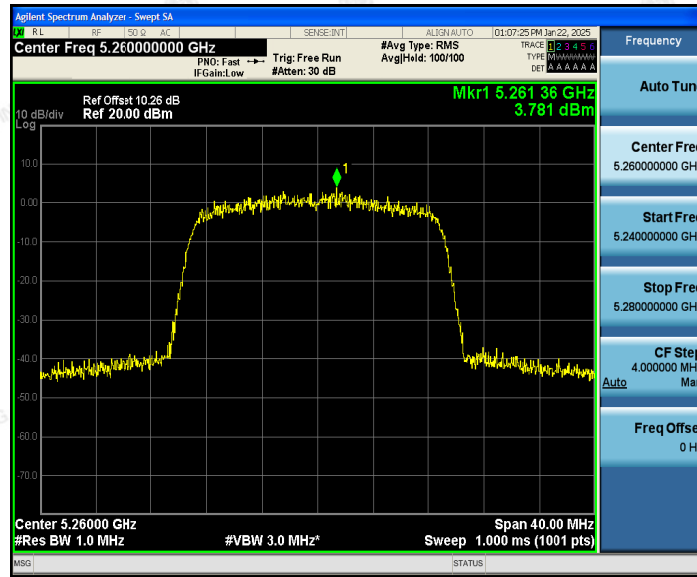
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



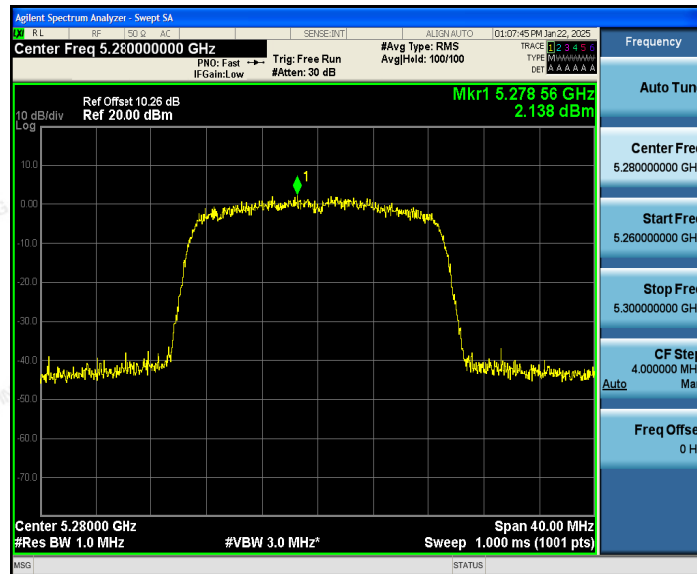


5250~5350MHz

### Low Channel



### Mid Channel





## High Channel



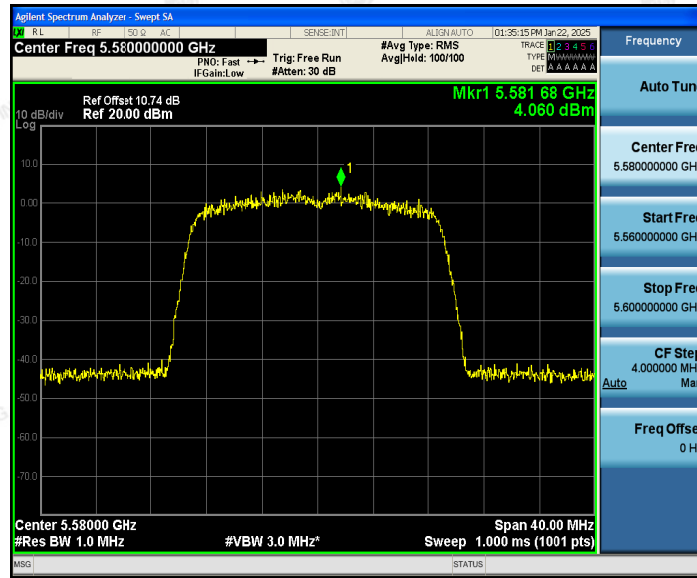
5470~5725MHz

## Low Channel

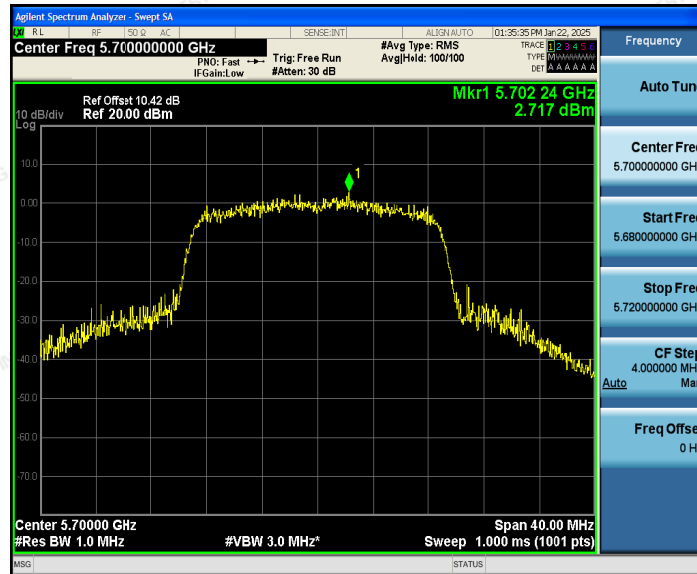




## Mid Channel



## High Channel

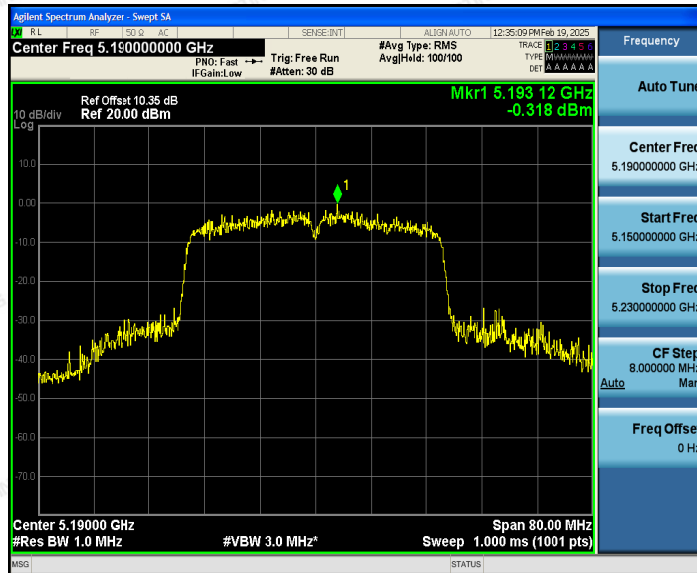




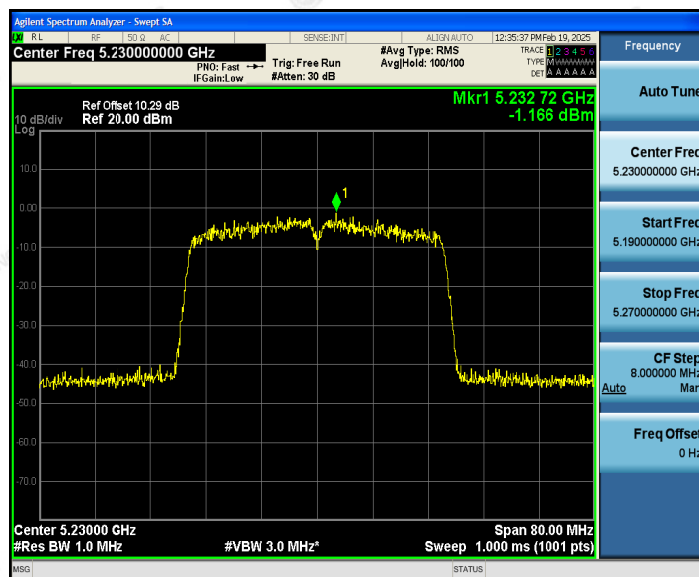
## IEEE802.11ac HT40 mode

5150~5250MHz

### Low Channel



### High Channel





5250~5350MHz

### Low Channel



### High Channel







5470~5725MHz

### Low Channel

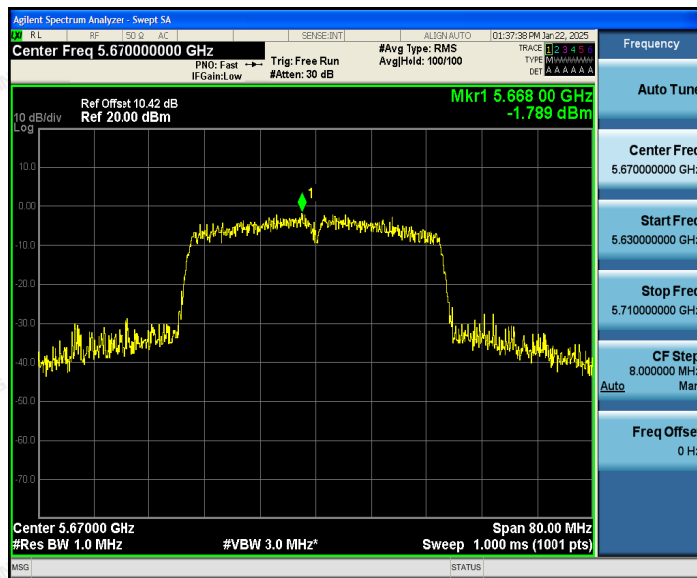


### Mid Channel





## High Channel



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**IEEE802.11ac HT80 mode**

**5150~5250MHz**



**5250~5350MHz**





5470~5725MHz

### Low Channel



### High Channel





## IEEE802.11ac HT160 mode

5150~5350MHz



5470~5725MHz







## 5150~5250MHz

Agilent Spectrum Analyzer - Swept SA

RL RF RBW AC SENSE:INT ALGN: AUTO 12:39:53 PM Feb 19, 2025

Center Freq 5.180000000 GHz #Avg Type: RMS #Att: 30 dB Trg: Free Run  
IF Gain: Low #Atten: 30 dB DE: AAAAAA

Ref Offset: 10.38 dB  
Ref 20.00 dBm

Mkr1 5.181 28 GHz  
3.351 dBm

10 dB/div  
Log

Center 5.18000 GHz  
#Res BW 1.0 MHz  
#VBW 3.0 MHz  
Sweep 1.000 ms (1001 pts)

Span 40.00 MHz

Frequency

Auto Tune

Center Freq 5.18000000 GHz

Start Freq 5.16000000 GHz

Stop Freq 5.20000000 GHz

CF Step 4.000000 MHz

Auto

Freq Offset 0 Hz

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.20000000 GHz

Ref Offst 10.38 dB  
Ref 20.00 dBm

Trig: Free Run  
#Atten: 30 dB

#Avg Type: RMS  
AvgHld: 100/100

12:40:26 PM Feb 19, 2025

TYPE: DMMANAL  
DEF: AAAAAA

Frequency

Auto Tune

Center Freq 5.20000000 GHz

Start Freq 5.180000000 GHz

Stop Freq 5.220000000 GHz

CF Step 4.000000 MHz

Auto

Freq Offset 0 Hz

10 dB/div  
Log

Center 5.20000 GHz  
#Res BW 1.0 MHz  
#VBW 3.0 MHz\*

Span 40.00 MHz  
Sweep 1.000 ms (1001 pts)

Mkr1 5.200 72 GHz  
4.193 dBm

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## High Channel



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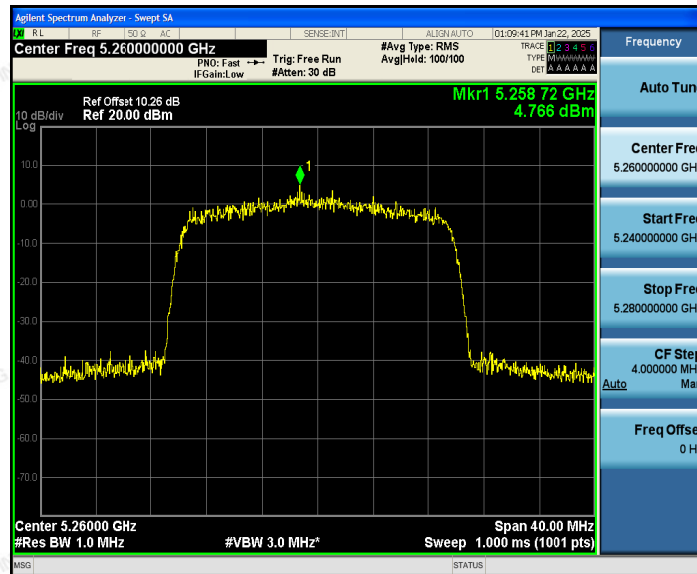
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## 5250~5350MHz

### Low Channel

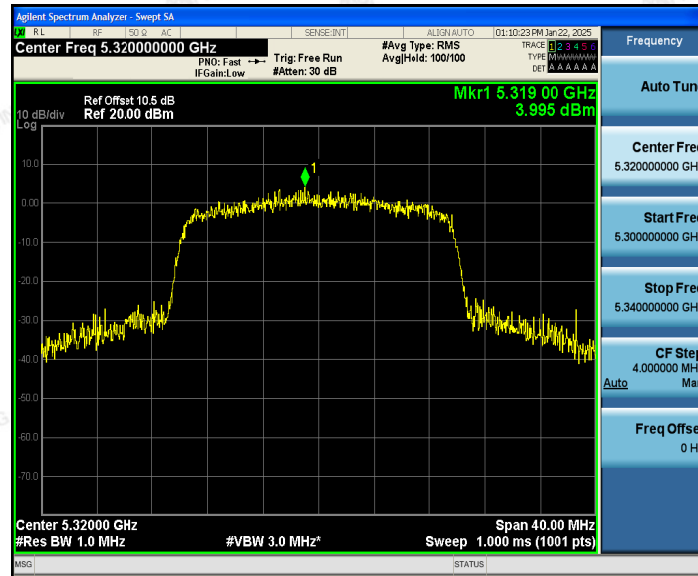


### Mid Channel





## High Channel



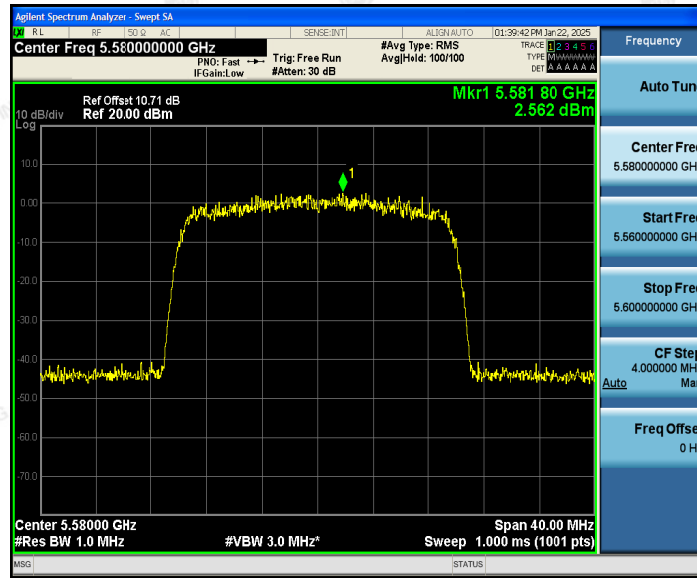
5470~5725MHz

## Low Channel





### Mid Channel



### High Channel







**IEEE802.11ax HE40 mode**

**5150~5250MHz**

**Low Channel**



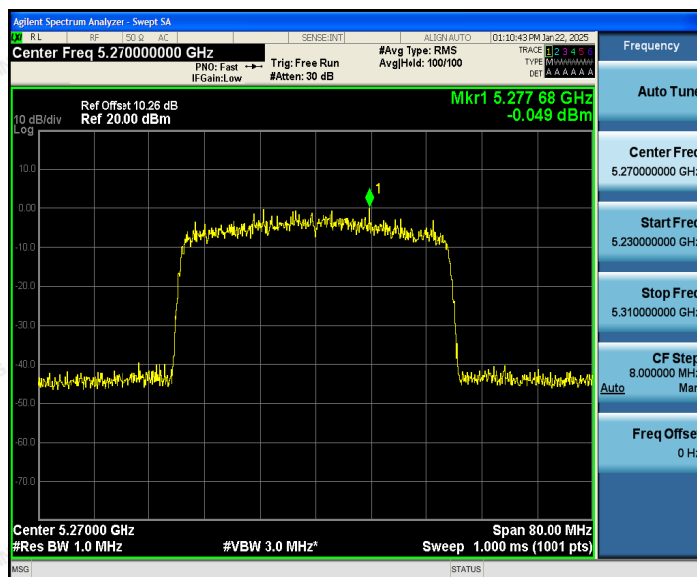
**High Channel**





5250~5350MHz

## Low Channel



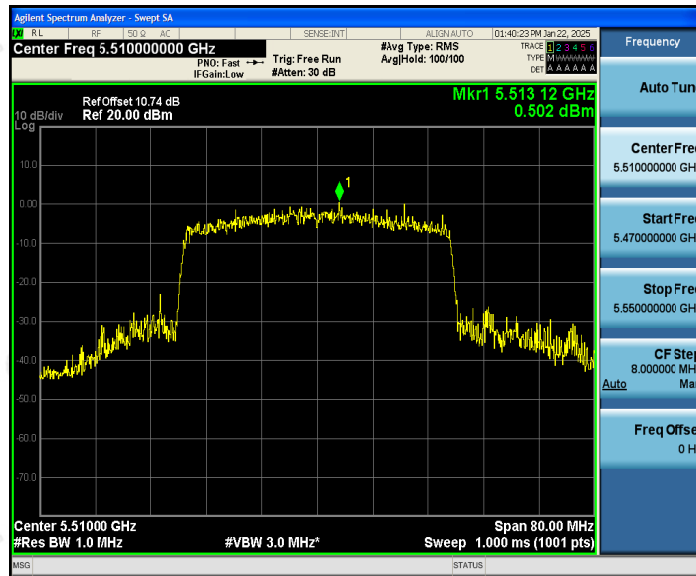
## High Channel





5470~5725MHz

### Low Channel



### Mid Channel





## High Channel



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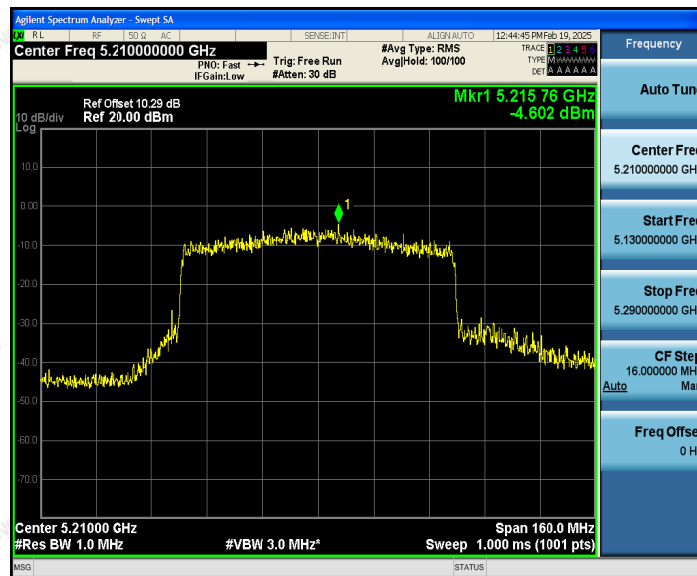
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**IEEE802.11ax HE80 mode**

**5150~5250MHz**



**5250~5350MHz**







5470~5725MHz

### Low Channel

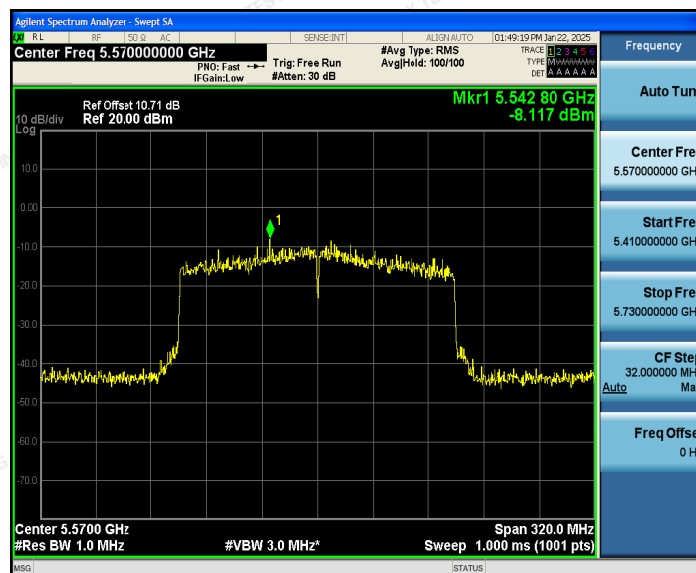


### High Channel





## 5150~5350MHz

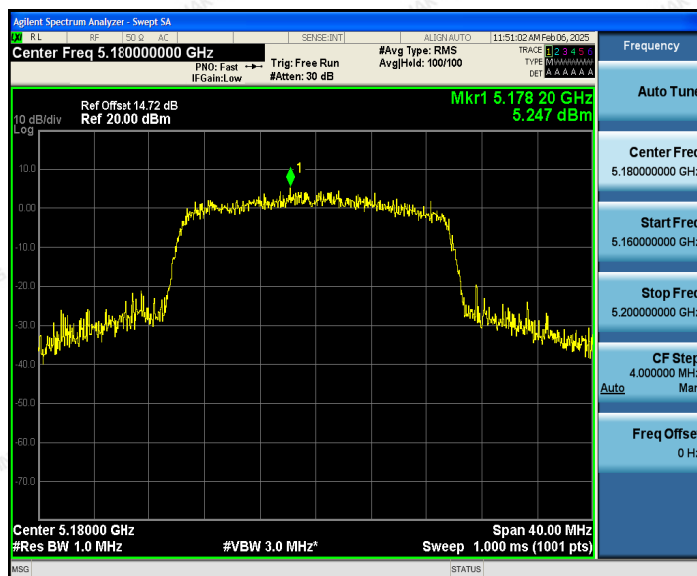


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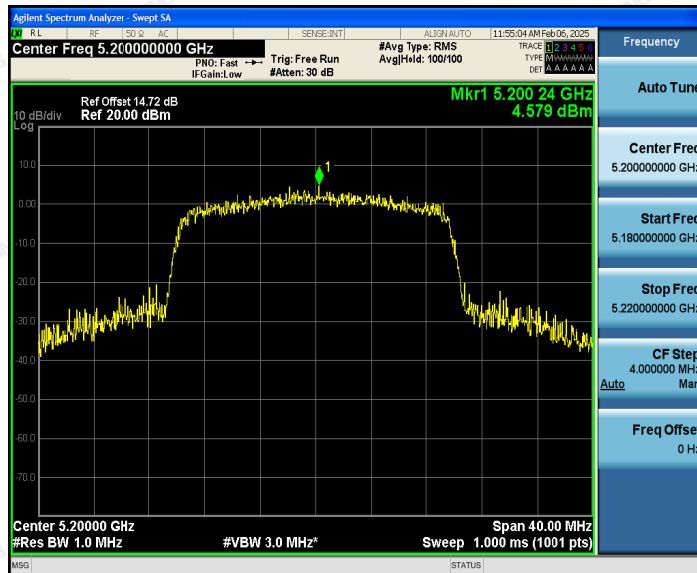
## IEEE802.11be EHT20 mode

## 5150~5250MHz

## Low Channel



## Mid Channel



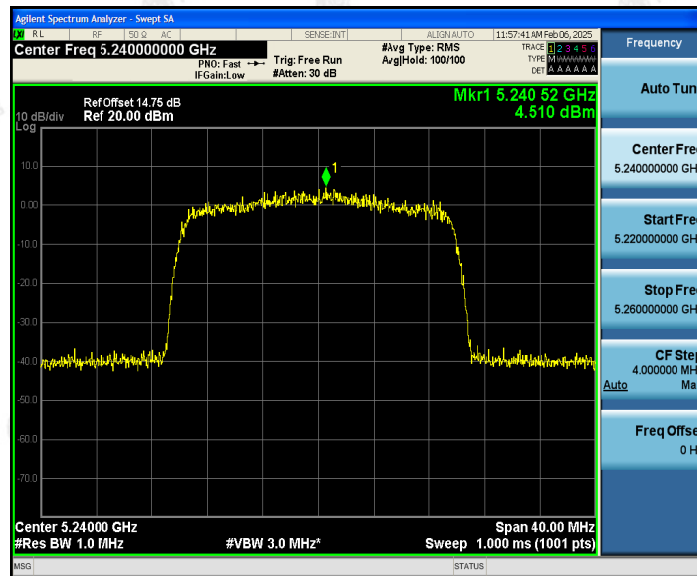
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## High Channel



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**IEEE802.11be EHT40 mode**

**5150~5250MHz**

**Low Channel**



**High Channel**

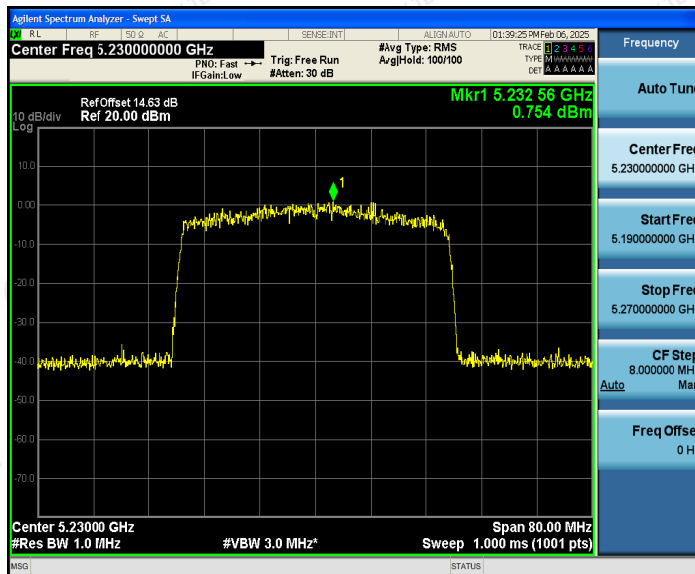






IEEE802.11be EHT80 mode

5150~5250MHz

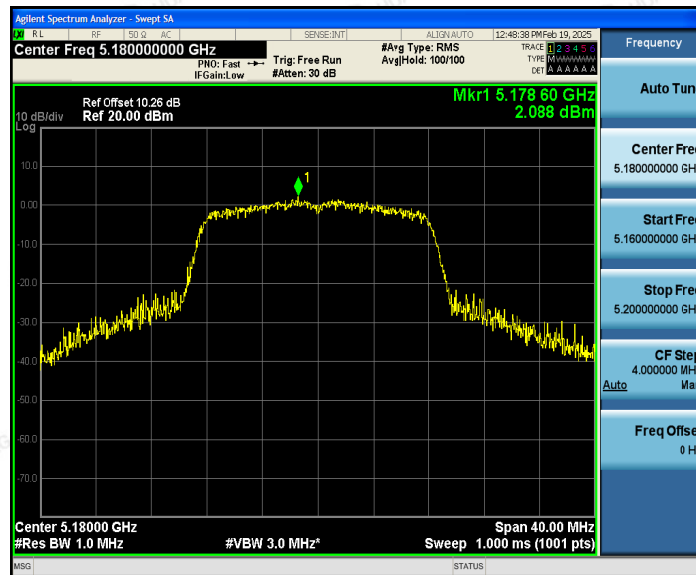




Antenna 2  
IEEE802.11a mode:

5150~5250MHz

### Low Channel

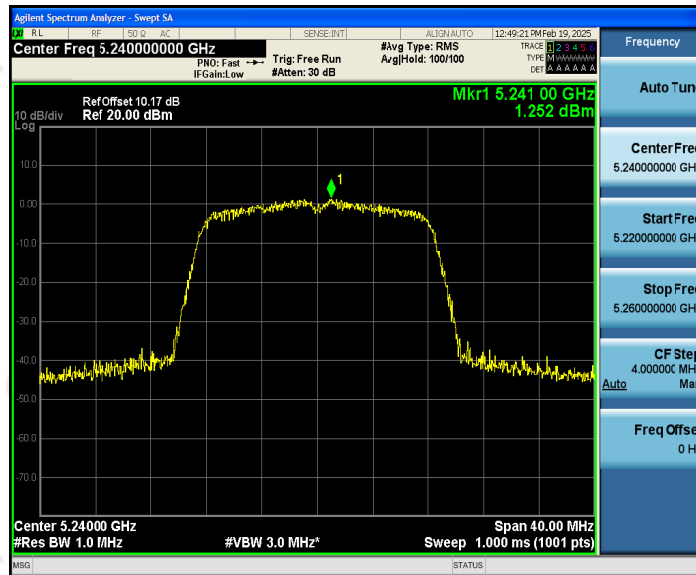


### Mid Channel





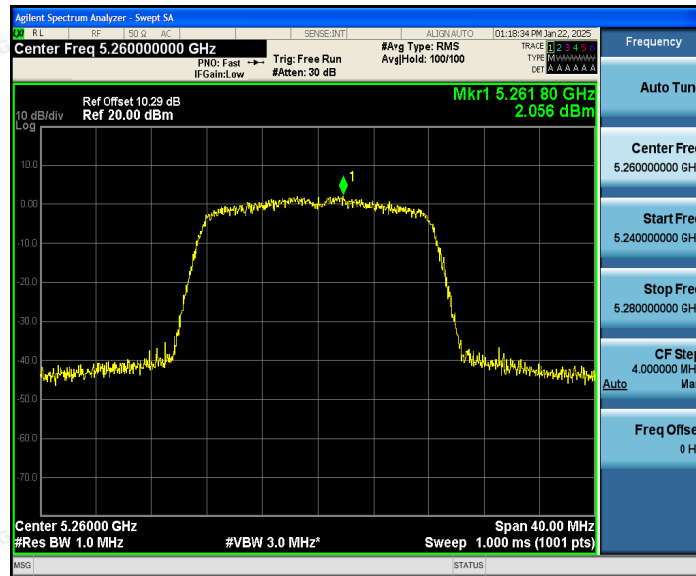
## High Channel





5250~5350MHz

### Low Channel

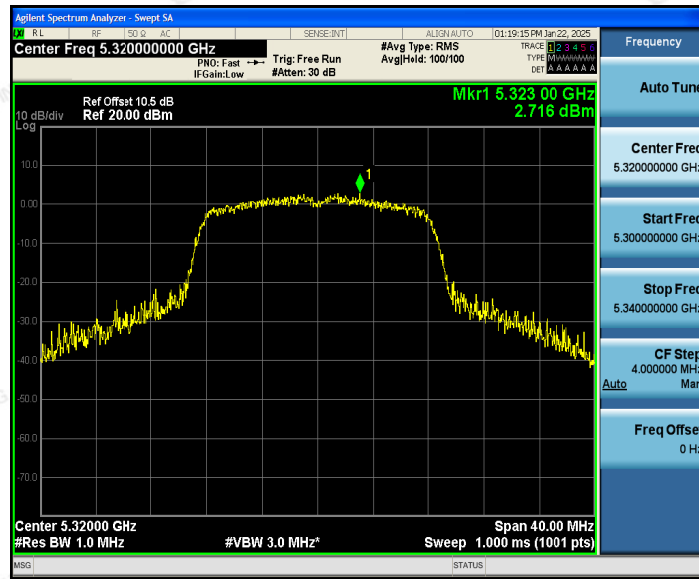


### Mid Channel





### High Channel



5470~5725MHz

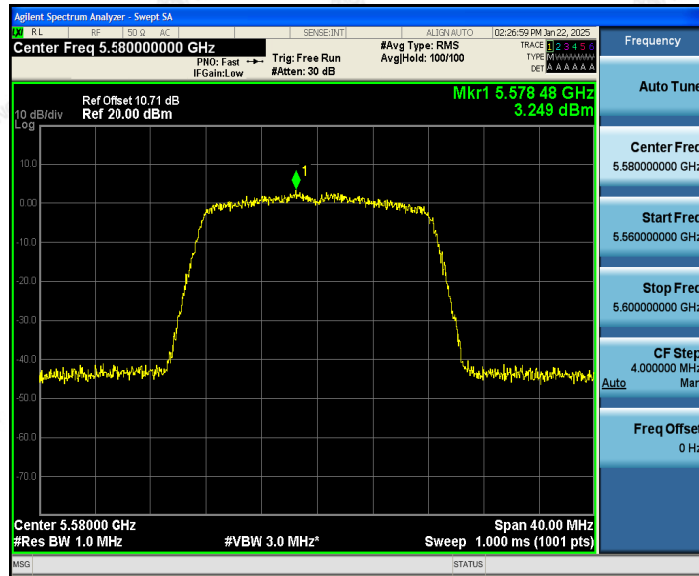
### Low Channel



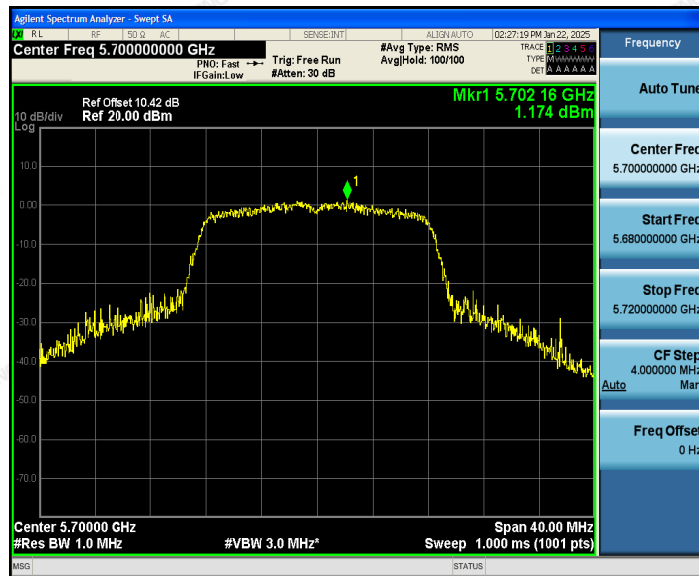




### Mid Channel



### High Channel





## 5150~5250MHz

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.18000000 GHz

Ref Offsot 10.26 dB  
Ref 20.00 dBm

Span 40.00 MHz  
#Res BW 1.0 MHz

#Vbw 3.0 MHz

Sweep 1.000 ms (1001 pts)

Auto

Frequency

Auto Tune

Center Freq 5.18000000 GHz

Start Freq 5.16000000 GHz

Stop Freq 5.20000000 GHz

CF Step 4.000000 MHz

Auto

Freq Offset 0 Hz

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.20000000 GHz

Span 40.00 MHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 1.000 ms (1001 pts)

Ref Offset 10.26 dB

Ref 20.00 dBm

Mkr1 5.198 76 GHz

1.562 dBm

10 dB/div

Log

Center Freq 5.20000000 GHz

Start Freq 5.180000000 GHz

Stop Freq 5.220000000 GHz

CF Step 4.000000 MHz

Auto

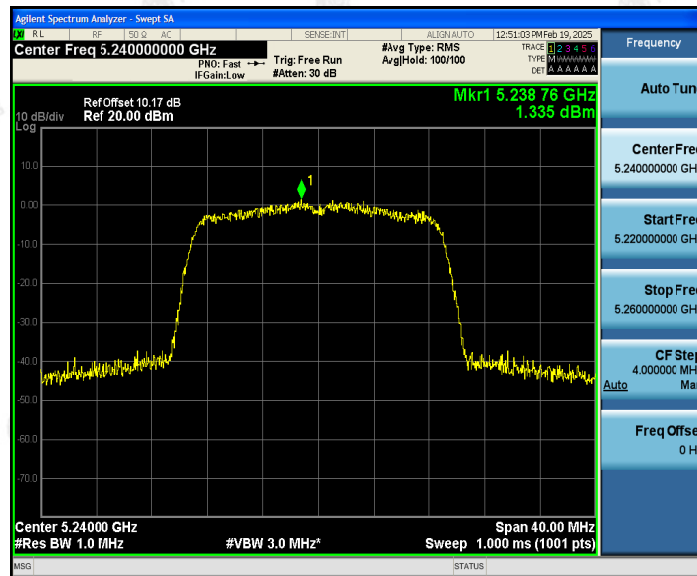
Freq Offset 0 Hz

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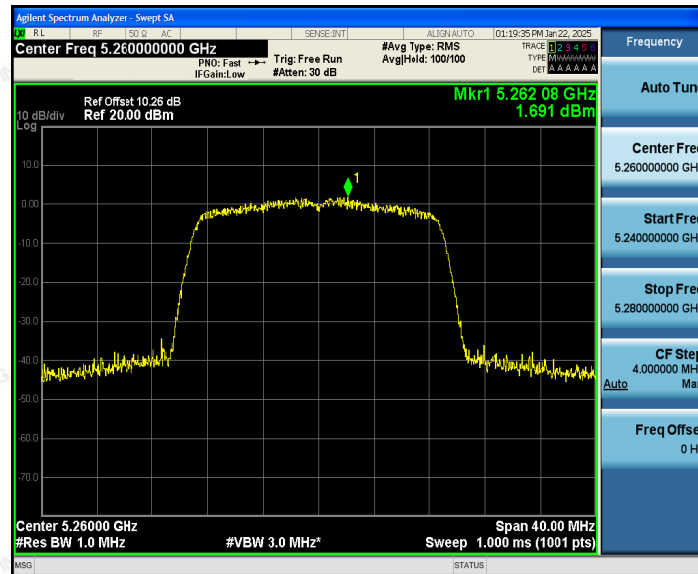
## High Channel





## 5250~5350MHz

### Low Channel

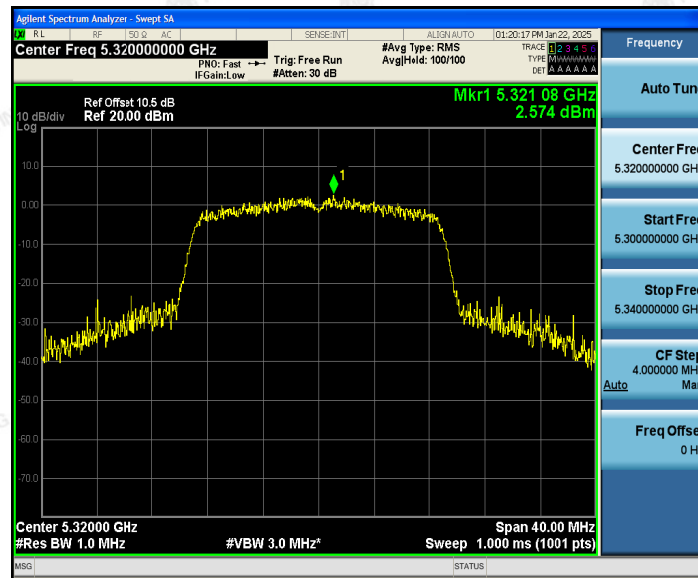


### Mid Channel



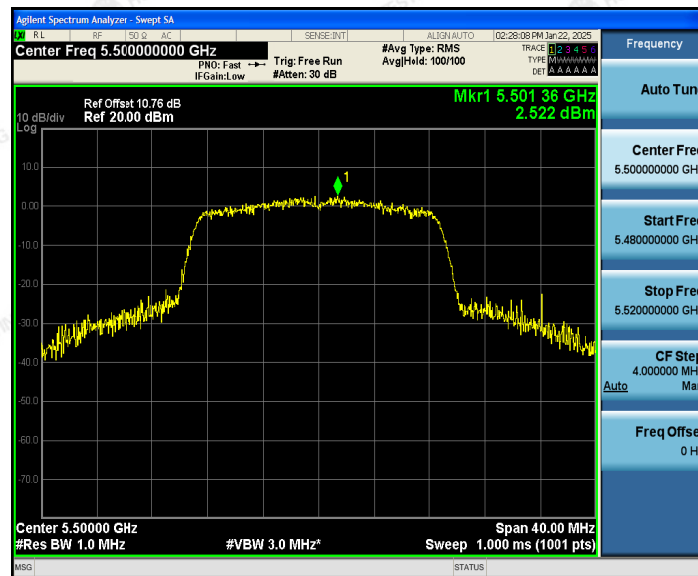


## High Channel



5470~5725MHz

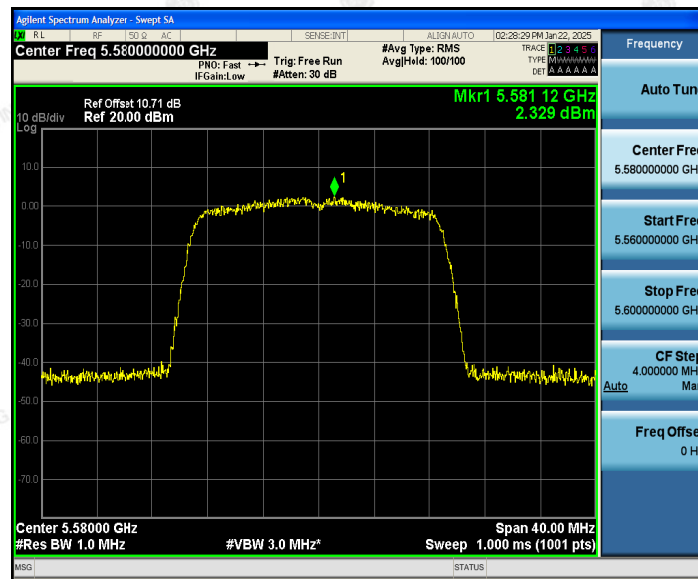
## Low Channel



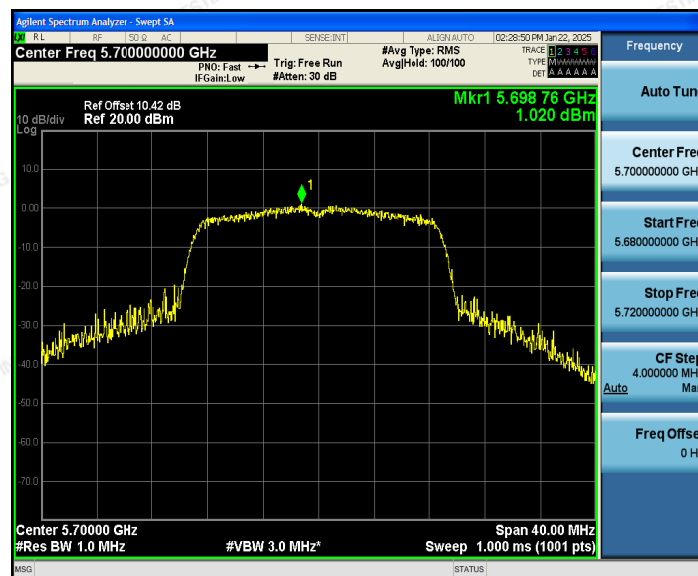




### Mid Channel



### High Channel

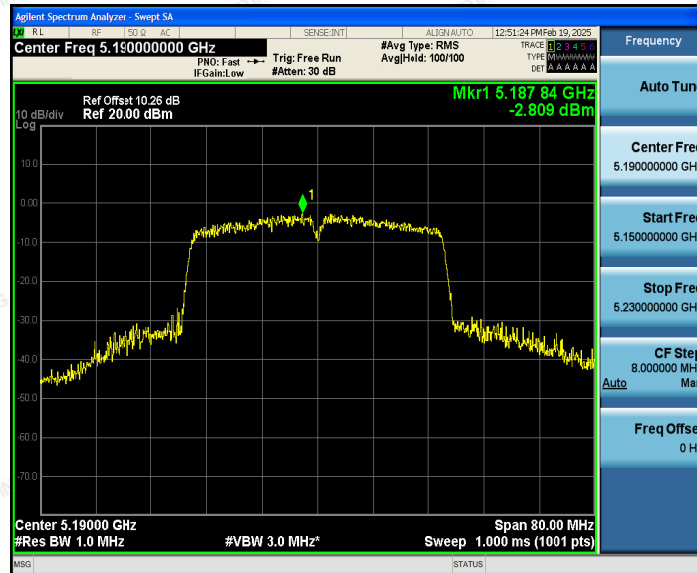




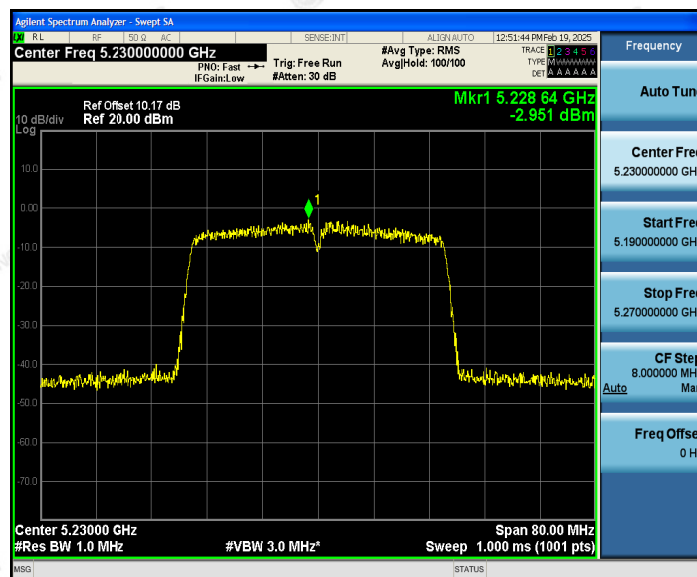
**IEEE802.11n HT40 mode**

**5150~52500MHz**

**Low Channel**



**High Channel**





5250~5350MHz

## Low Channel



## High Channel





5470~5725MHz

### Low Channel



### Mid Channel





## High Channel







## 5150~5250MHz

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.18000000 GHz

Ref Offsot 10.26 dB  
Ref 20.00 dBm

Span 40.00 MHz  
#Res BW 1.0 MHz

#Avg Type: RMS  
AvgHld: 100/100

Mkr1 5.178 44 GHz  
3.066 dBm

Center 5.18000 GHz  
#VBW 3.0 MHz

Sweep 1.000 ms (1001 pts)

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.20000000 GHz

Span 40.00 MHz

Ref Offset 10.26 dB

Ref 20.00 dBm

Mkr1 5.198 36 GHz, 2.019 dBm

10 dB/div Log

Center Freq 5.20000000 GHz

Span 40.00 MHz

Ref Offset 10.26 dB

Ref 20.00 dBm

Mkr1 5.198 36 GHz, 2.019 dBm

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