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#### 2. Bandwidth

#### 2.1 OBW

#### 2.1.1 Test Result

| Mode              | TX<br>Type | Frequency (MHz) Ant | Ant | 99% Occupied Bandwidth (MHz) | Verdict |
|-------------------|------------|---------------------|-----|------------------------------|---------|
|                   |            |                     | Ant | Result                       |         |
|                   | SISO       | 2412                | 1   | 13.081                       | Pass    |
| 802.11b           |            | 2437                | 1   | 13.083                       | Pass    |
|                   |            | 2462                | 1   | 13.101                       | Pass    |
|                   | SISO       | 2412                | 1   | 17.128                       | Pass    |
| 802.11g           |            | 2437                | 1   | 17.132                       | Pass    |
|                   |            | 2462                | 1   | 17.129                       | Pass    |
| 802.11n<br>(HT20) | SISO       | 2412                | 1   | 17.809                       | Pass    |
|                   |            | 2437                | 1   | 17.813                       | Pass    |
|                   |            | 2462                | 1   | 17.813                       | Pass    |
| 802.11n<br>(HT40) | . I SISO I | 2422                | 1   | 37.129                       | Pass    |
|                   |            | 2437                | 1   | 37.082                       | Pass    |
|                   |            | 2452                | 1   | 37.088                       | Pass    |



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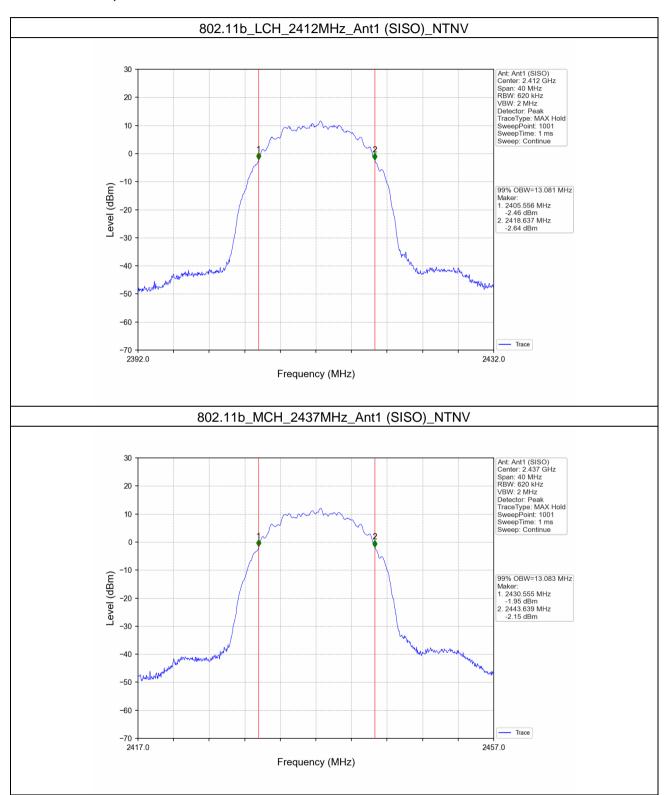
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#### 2.1.2 Test Graph





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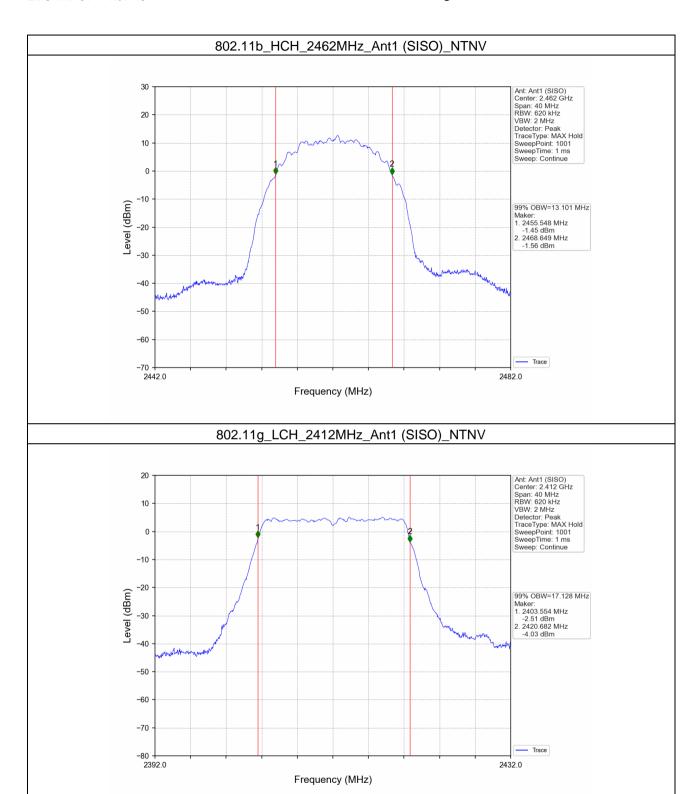
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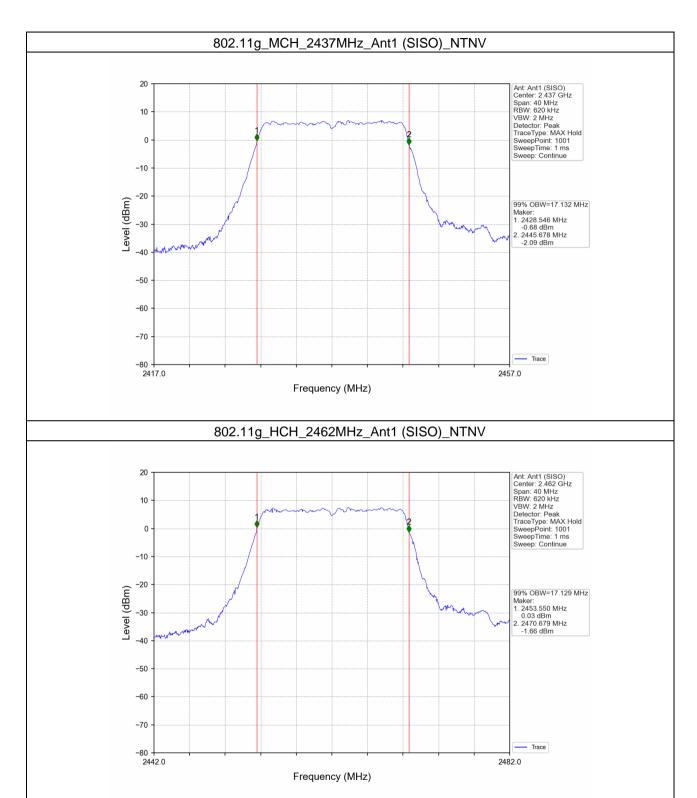
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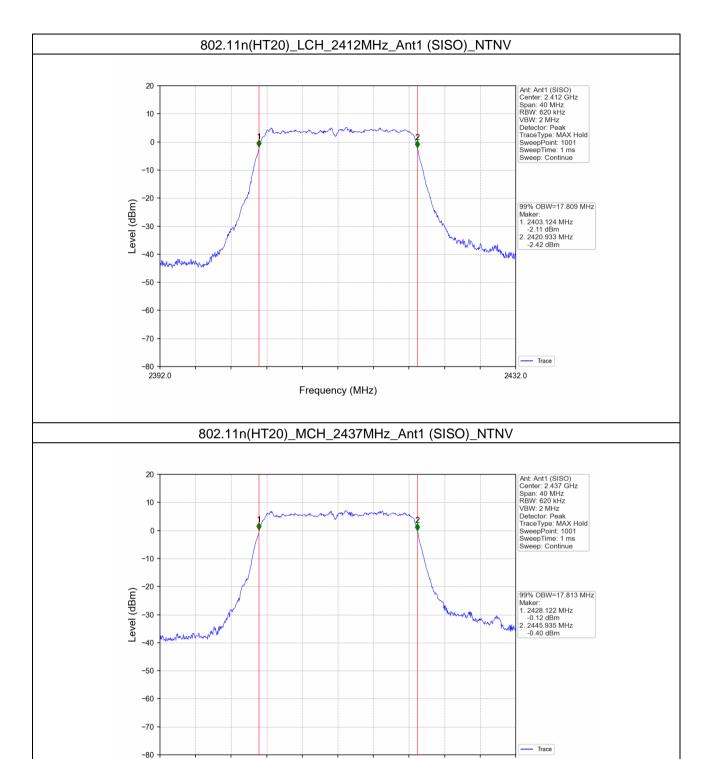
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2417.0

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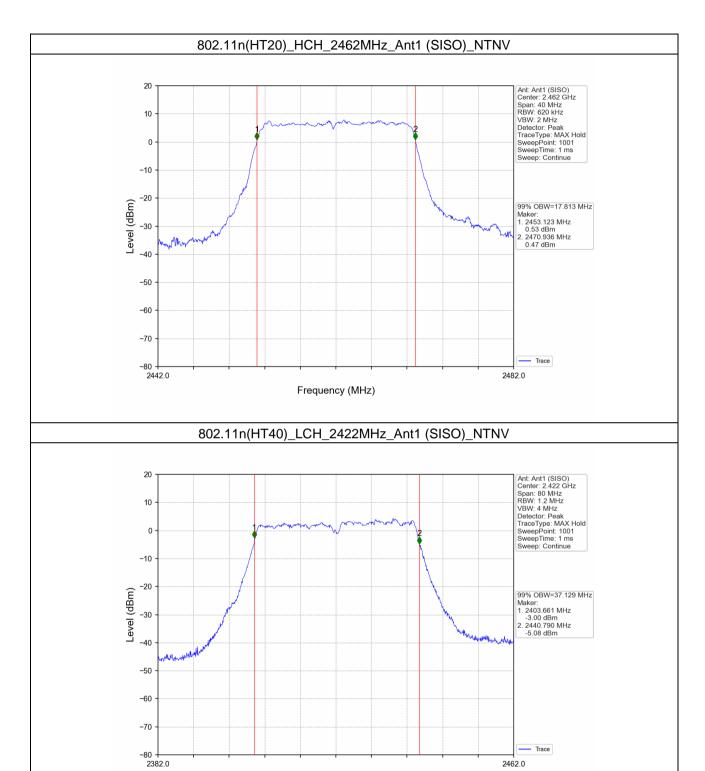
Frequency (MHz)

2457.0



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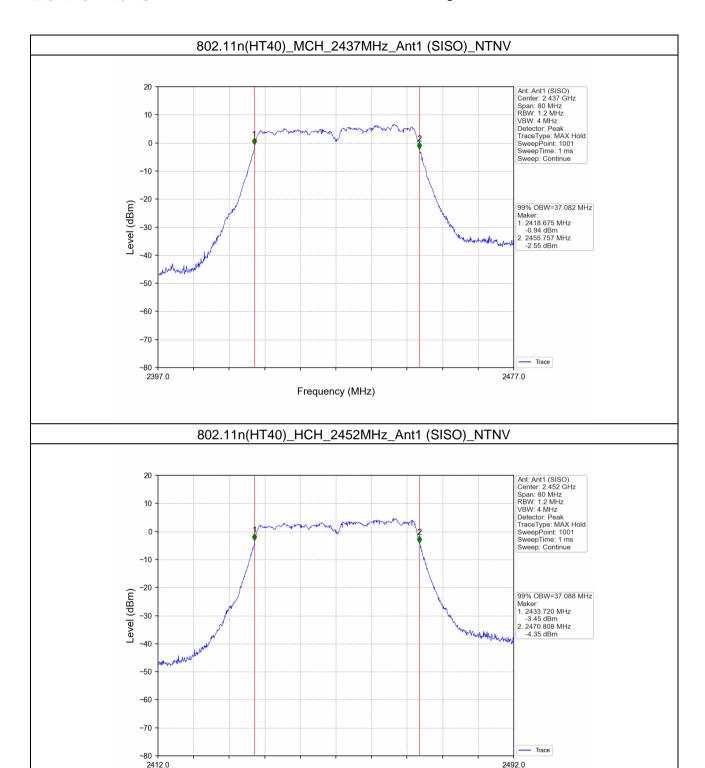
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Frequency (MHz)



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Frequency (MHz)

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#### 2.2 6dB BW

#### 2.2.1 Test Result

| Mode              | TX<br>Type | Frequency (MHz) Ant | Λ ·n.4 | 6dB Bandwidth (MHz) |       | Verdict |
|-------------------|------------|---------------------|--------|---------------------|-------|---------|
|                   |            |                     | Result | Limit               |       |         |
|                   | SISO       | 2412                | 1      | 10.124              | >=0.5 | Pass    |
| 802.11b           |            | 2437                | 1      | 10.123              | >=0.5 | Pass    |
|                   |            | 2462                | 1      | 10.123              | >=0.5 | Pass    |
|                   | SISO       | 2412                | 1      | 16.490              | >=0.5 | Pass    |
| 802.11g           |            | 2437                | 1      | 16.490              | >=0.5 | Pass    |
|                   |            | 2462                | 1      | 16.492              | >=0.5 | Pass    |
| 802.11n<br>(HT20) | SISO       | 2412                | 1      | 17.656              | >=0.5 | Pass    |
|                   |            | 2437                | 1      | 17.671              | >=0.5 | Pass    |
|                   |            | 2462                | 1      | 17.653              | >=0.5 | Pass    |
| 802.11n<br>(HT40) | SISO       | 2422                | 1      | 36.518              | >=0.5 | Pass    |
|                   |            | 2437                | 1      | 36.475              | >=0.5 | Pass    |
|                   |            | 2452                | 1      | 36.501              | >=0.5 | Pass    |



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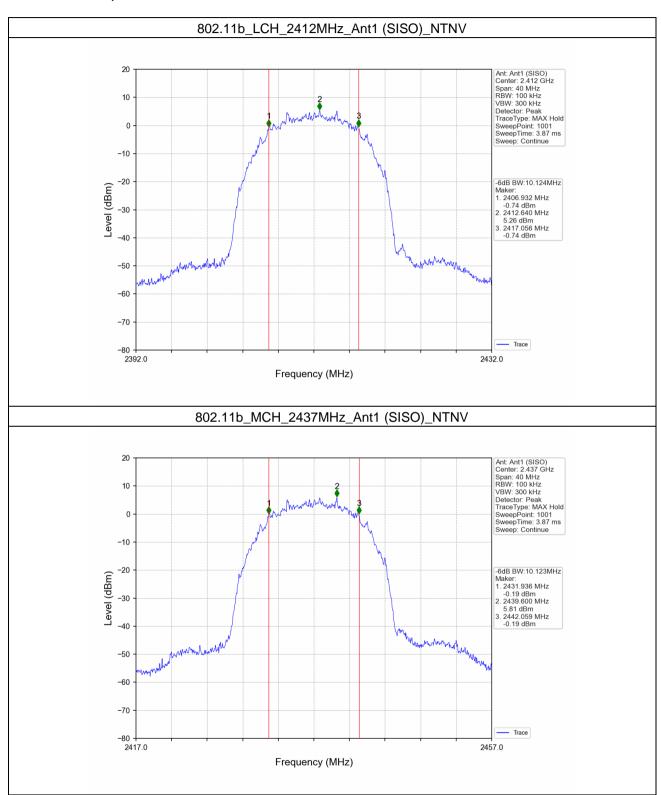
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#### 2.2.2 Test Graph





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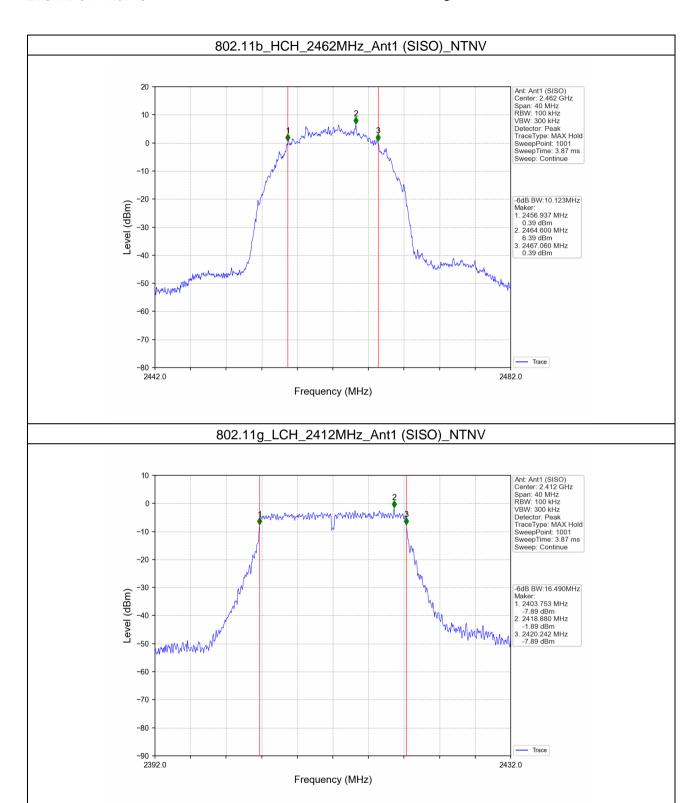
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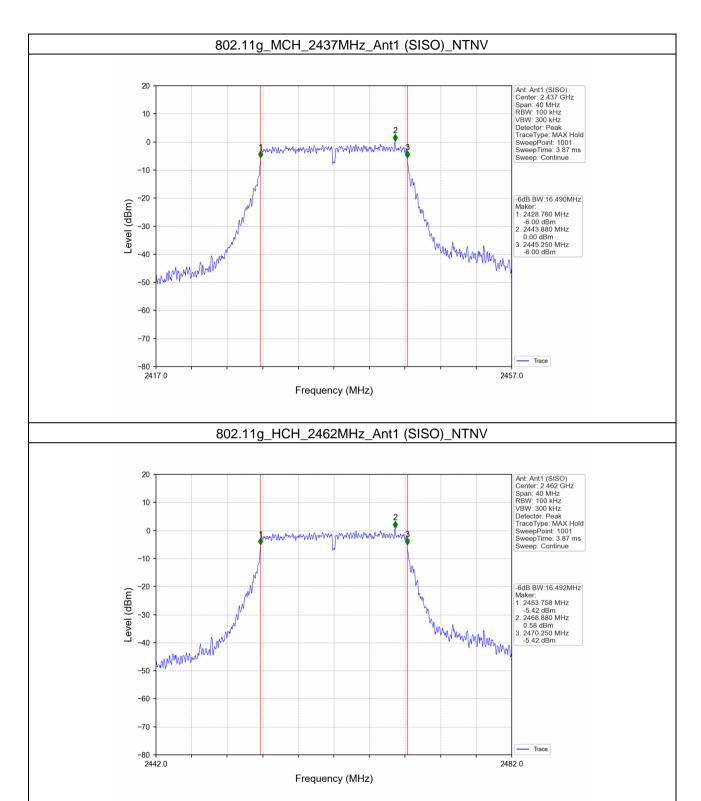
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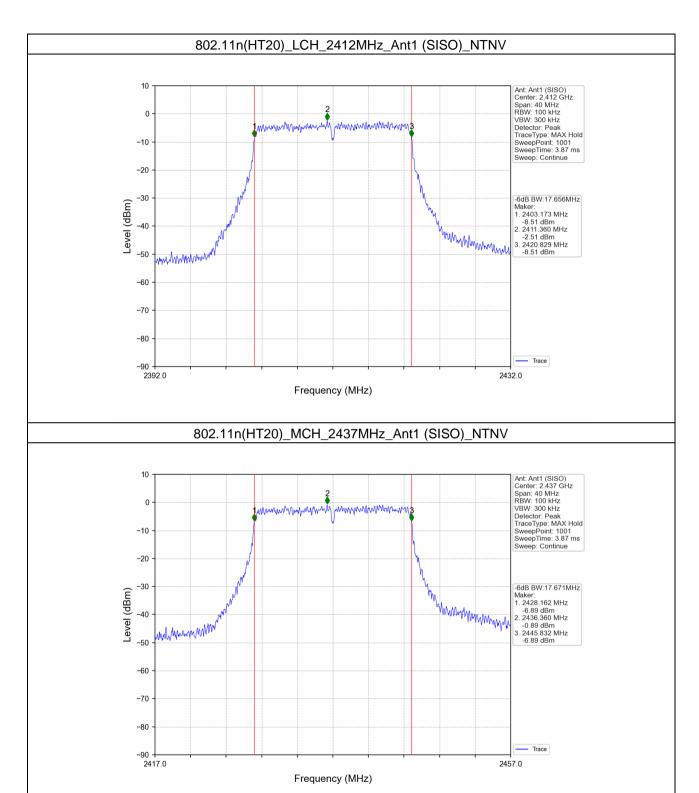
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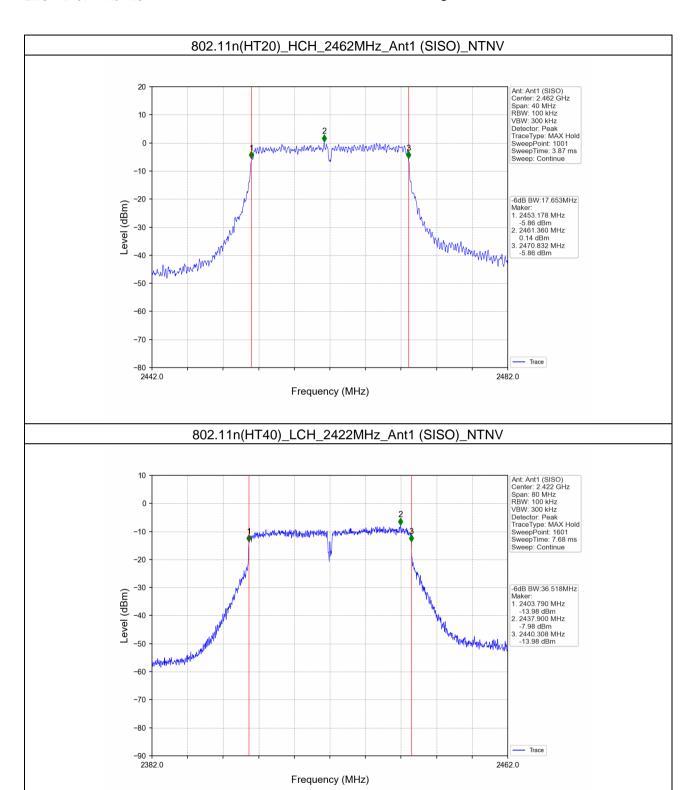
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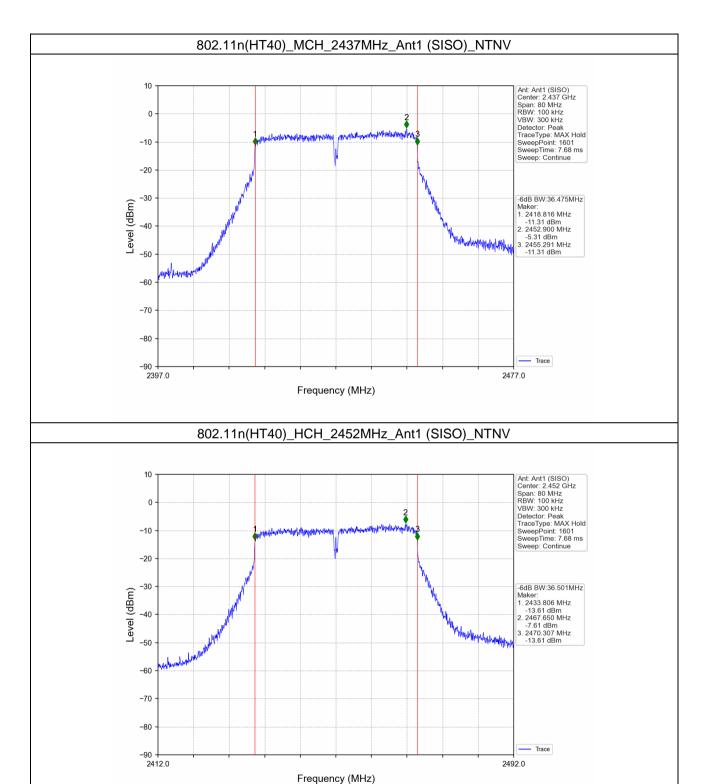
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#### 3. Maximum Conducted Output Power

#### 3.1 Power

#### 3.1.1 Test Result

| Mode              | TX   | Frequency<br>(MHz) | Maximum Peak Conduct | Vordict |         |
|-------------------|------|--------------------|----------------------|---------|---------|
|                   | Type |                    | Ant1                 | Limit   | Verdict |
| 802.11b           | SISO | 2412               | 20.47                | <=30    | Pass    |
|                   |      | 2437               | 20.94                | <=30    | Pass    |
|                   |      | 2462               | 21.54                | <=30    | Pass    |
| 802.11g           |      | 2412               | 18.58                | <=30    | Pass    |
|                   | SISO | 2437               | 20.46                | <=30    | Pass    |
|                   |      | 2462               | 17.76                | <=30    | Pass    |
| 802.11n<br>(HT20) |      | 2412               | 18.59                | <=30    | Pass    |
|                   | SISO | 2437               | 20.52                | <=30    | Pass    |
|                   |      | 2462               | 16.38                | <=30    | Pass    |
| 802.11n<br>(HT40) |      | 2422               | 14.59                | <=30    | Pass    |
|                   | SISO | 2437 18.62         | 18.62                | <=30    | Pass    |
|                   |      | 2452               | 16.69                | <=30    | Pass    |

#### 4. Maximum Power Spectral Density

#### 4.1 PSD

#### 4.1.1 Test Result

| Mode              | TX<br>Type | Frequency<br>(MHz) | Maximum PS | \/a=d:at |         |
|-------------------|------------|--------------------|------------|----------|---------|
|                   |            |                    | Ant1       | Limit    | Verdict |
|                   | SISO       | 2412               | -10.42     | <=8      | Pass    |
| 802.11b           |            | 2437               | -9.86      | <=8      | Pass    |
|                   |            | 2462               | -9.56      | <=8      | Pass    |
|                   | SISO       | 2412               | -17.26     | <=8      | Pass    |
| 802.11g           |            | 2437               | -15.46     | <=8      | Pass    |
|                   |            | 2462               | -17.75     | <=8      | Pass    |
| 802.11n<br>(HT20) | SISO       | 2412               | -17.03     | <=8      | Pass    |
|                   |            | 2437               | -14.95     | <=8      | Pass    |
|                   |            | 2462               | -19.26     | <=8      | Pass    |
| 802.11n<br>(HT40) | SISO       | 2422               | -23.12     | <=8      | Pass    |
|                   |            | 2437               | -16.72     | <=8      | Pass    |
|                   |            | 2452               | -16.93     | <=8      | Pass    |



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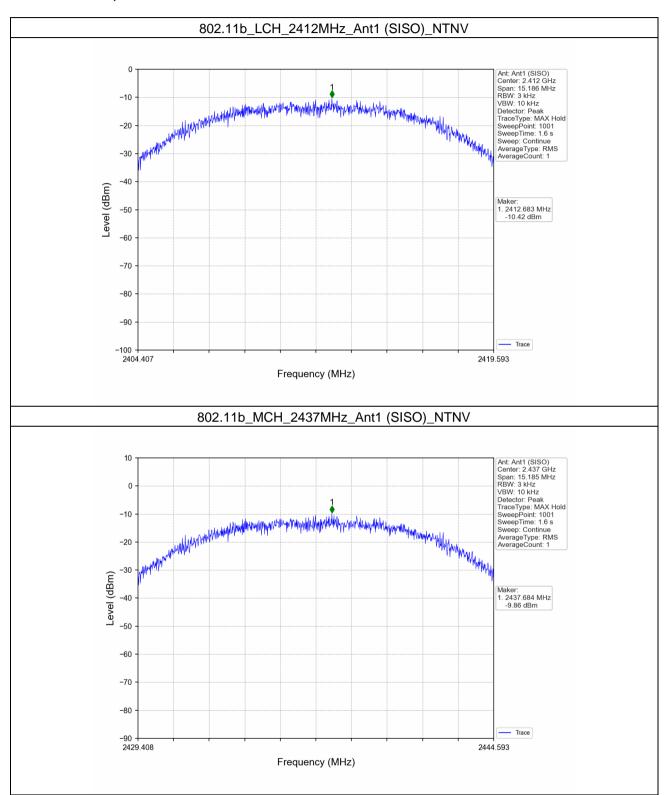
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#### 4.1.2 Test Graph





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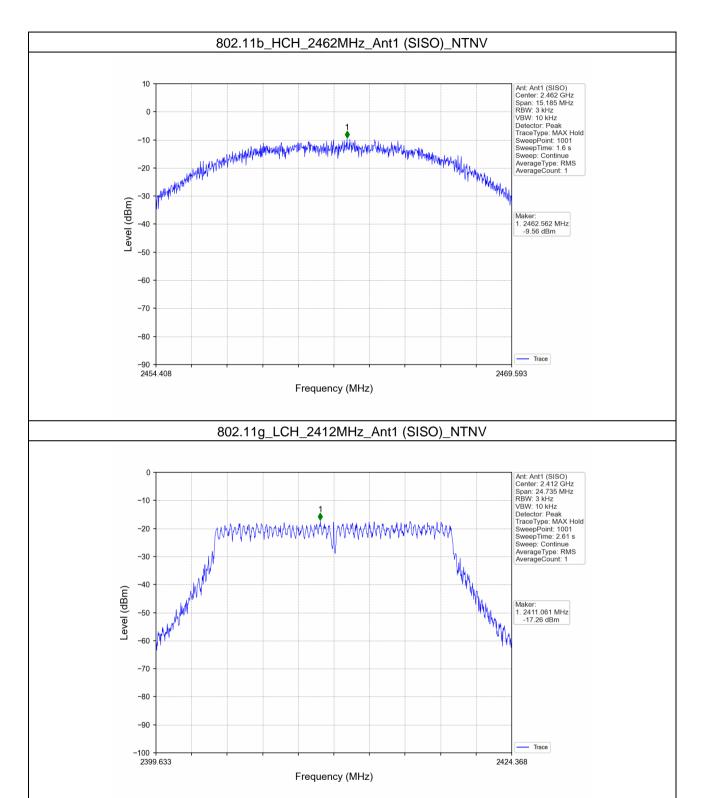
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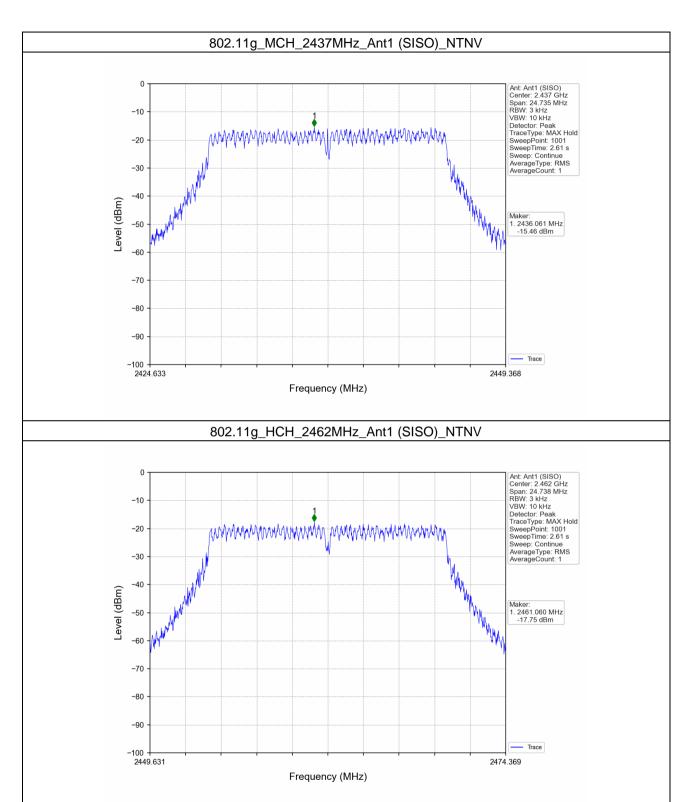
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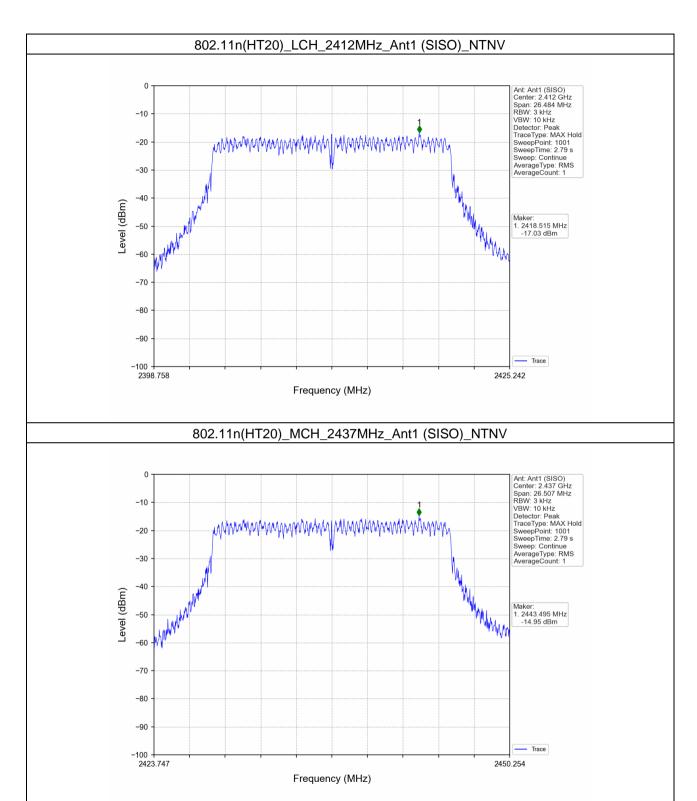
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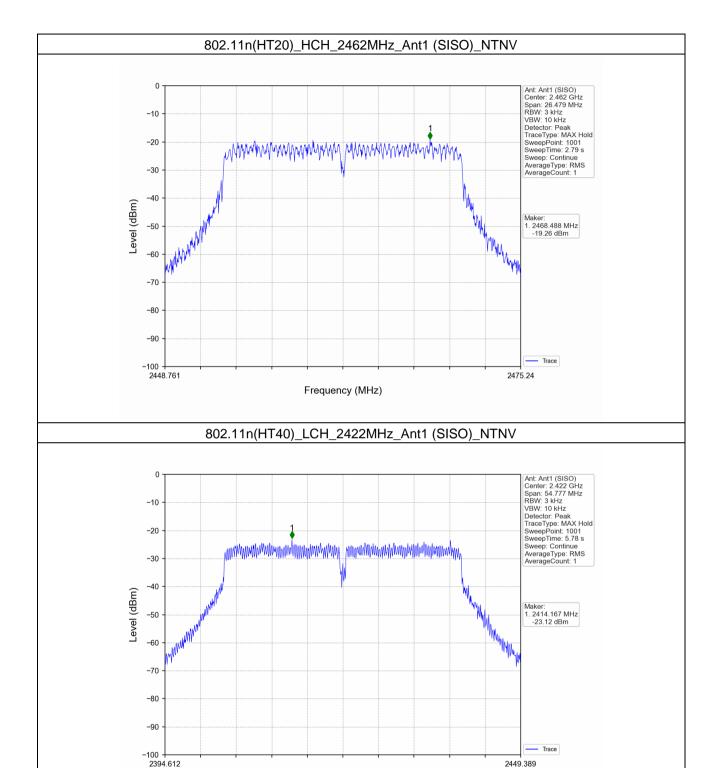
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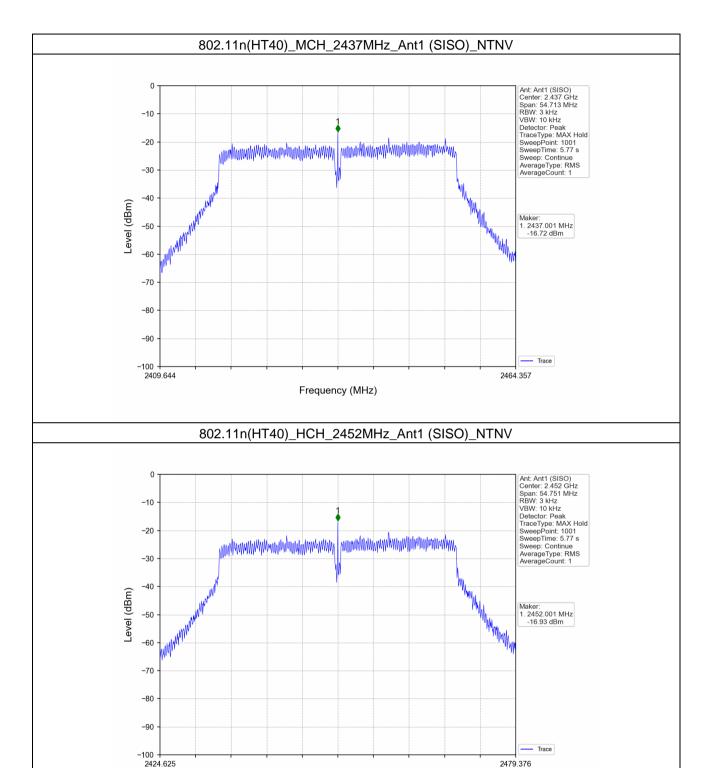
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Frequency (MHz)



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#### 5. Unwanted Emissions In Non-restricted Frequency Bands

#### 5.1 Ref

#### 5.1.1 Test Result

| Mode              | TX<br>Type | Frequency<br>(MHz) | Ant | Level of Reference<br>(dBm) |
|-------------------|------------|--------------------|-----|-----------------------------|
|                   | SISO       | 2412               | 1   | 5.24                        |
| 802.11b           |            | 2437               | 1   | 5.80                        |
| 002.110           |            | 2462               | 1   | 6.23                        |
|                   | SISO       | 2412               | 1   | -1.94                       |
| 802.11g           |            | 2437               | 1   | -0.15                       |
| 002.11g           |            | 2462               | 1   | 0.52                        |
|                   | SISO       | 2412               | 1   | -2.51                       |
| 802.11n           |            | 2437               | 1   | -0.66                       |
| (HT20)            |            | 2462               | 1   | -0.21                       |
| 802.11n<br>(HT40) | SISO       | 2422               | 1   | -7.80                       |
|                   |            | 2437               | 1   | -5.79                       |
|                   |            | 2452               | 1   | -7.27                       |

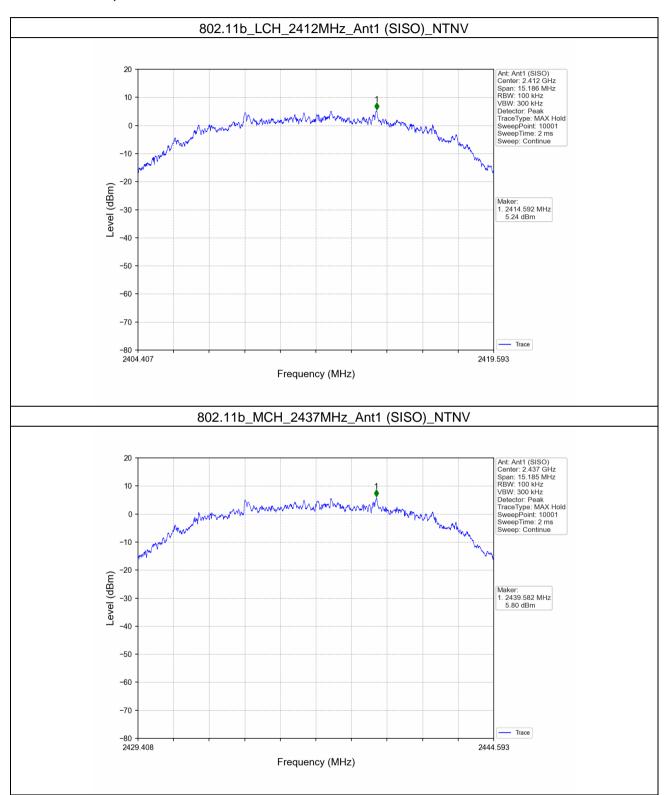




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#### 5.1.2 Test Graph





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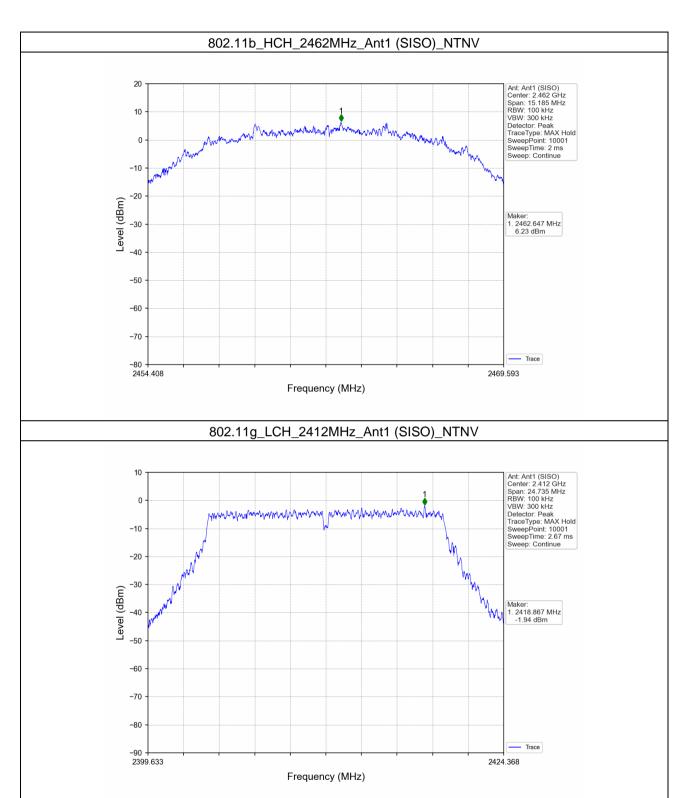
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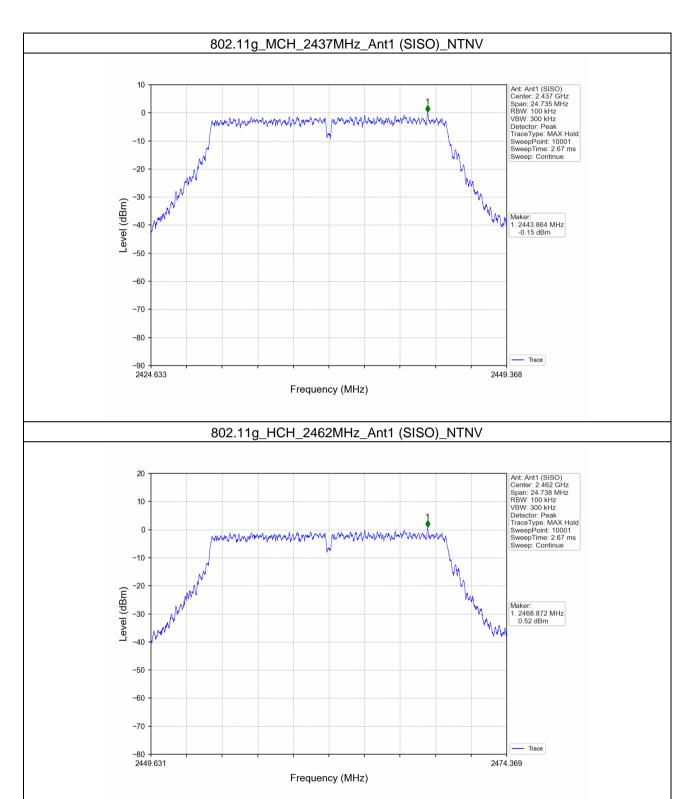
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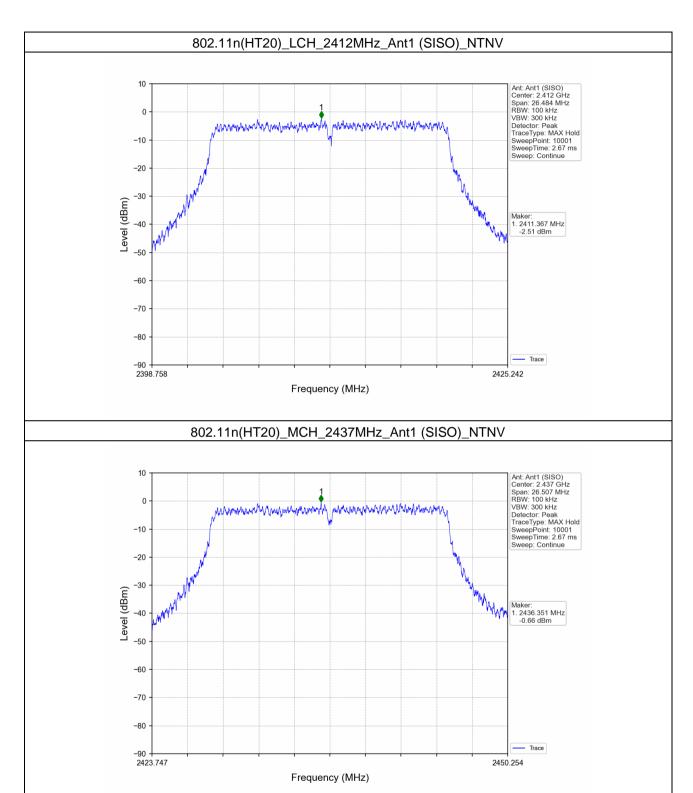
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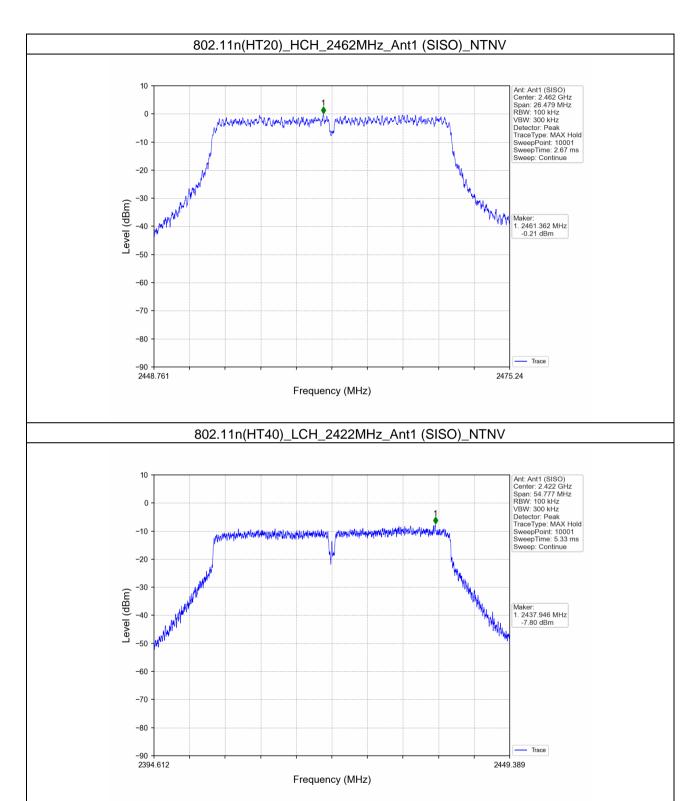
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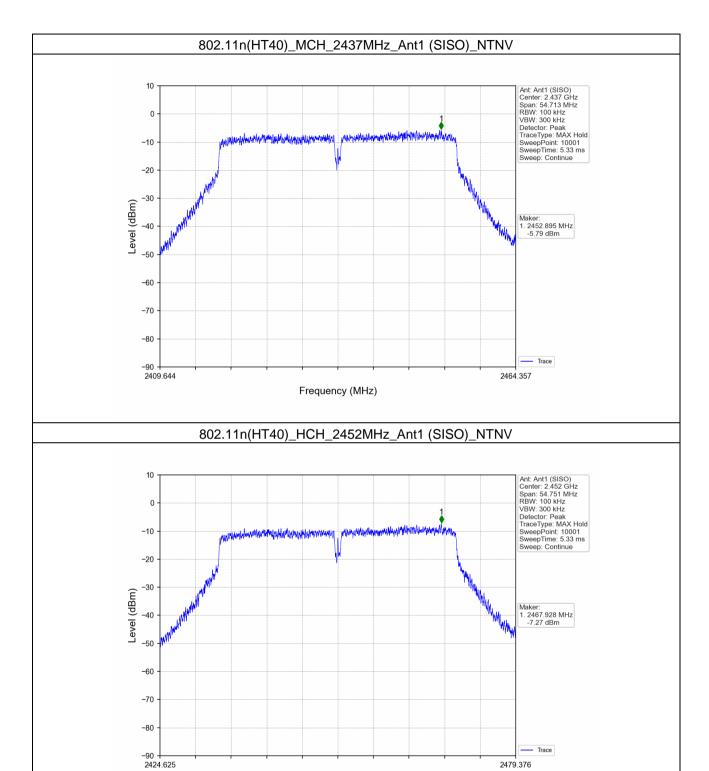
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#### 5.2 CSE

#### 5.2.1 Test Result

| Mode              | TX<br>Type | Frequency<br>(MHz) | Ant | Level of Reference<br>(dBm) | Limit<br>(dBm) | Verdict |
|-------------------|------------|--------------------|-----|-----------------------------|----------------|---------|
|                   |            | 2412               | 1   | 6.23                        | -13.77         | Pass    |
| 802.11b           | SISO       | 2437               | 1   | 6.23                        | -13.77         | Pass    |
|                   |            | 2462               | 1   | 6.23                        | -13.77         | Pass    |
|                   | SISO       | 2412               | 1   | 0.52                        | -19.48         | Pass    |
| 802.11g           |            | 2437               | 1   | 0.52                        | -19.48         | Pass    |
|                   |            | 2462               | 1   | 0.52                        | -19.48         | Pass    |
| 802.11n<br>(HT20) |            | 2412               | 1   | -0.21                       | -20.21         | Pass    |
|                   | SISO       | 2437               | 1   | -0.21                       | -20.21         | Pass    |
|                   |            | 2462               | 1   | -0.21                       | -20.21         | Pass    |
| 802.11n<br>(HT40) |            | 2422               | 1   | -5.79                       | -25.79         | Pass    |
|                   | SISO       | 2437               | 1   | -5.79                       | -25.79         | Pass    |
|                   |            | 2452               | 1   | -5.79                       | -25.79         | Pass    |



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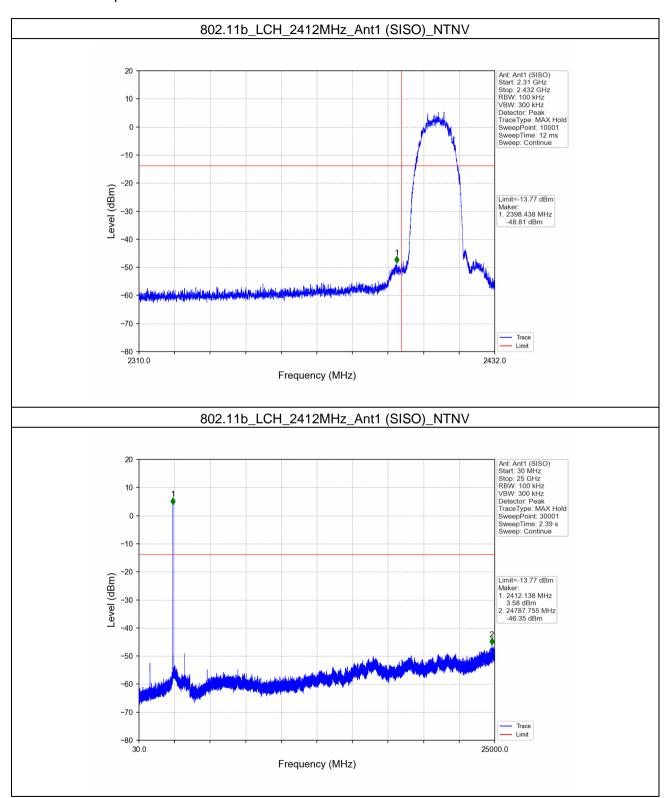
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#### 5.2.2 Test Graph





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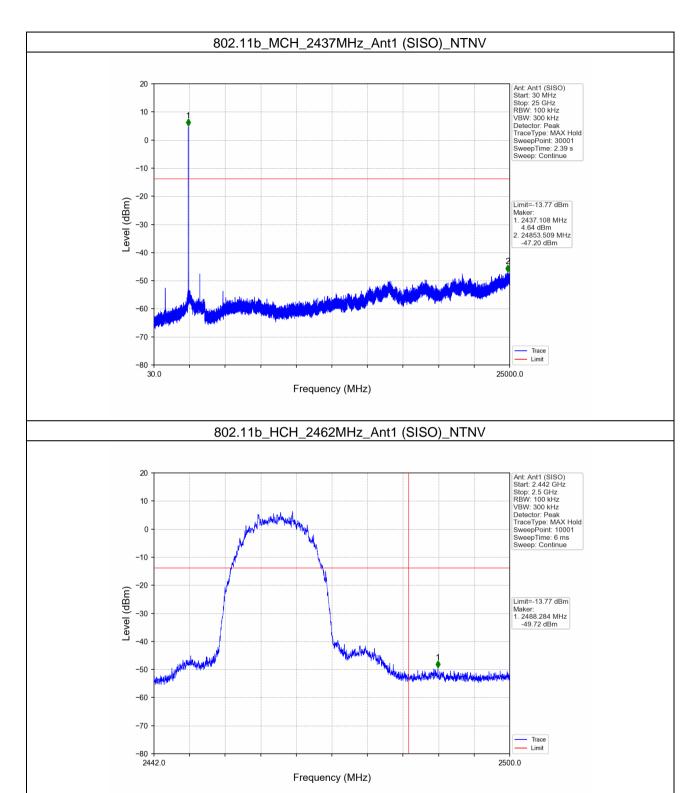
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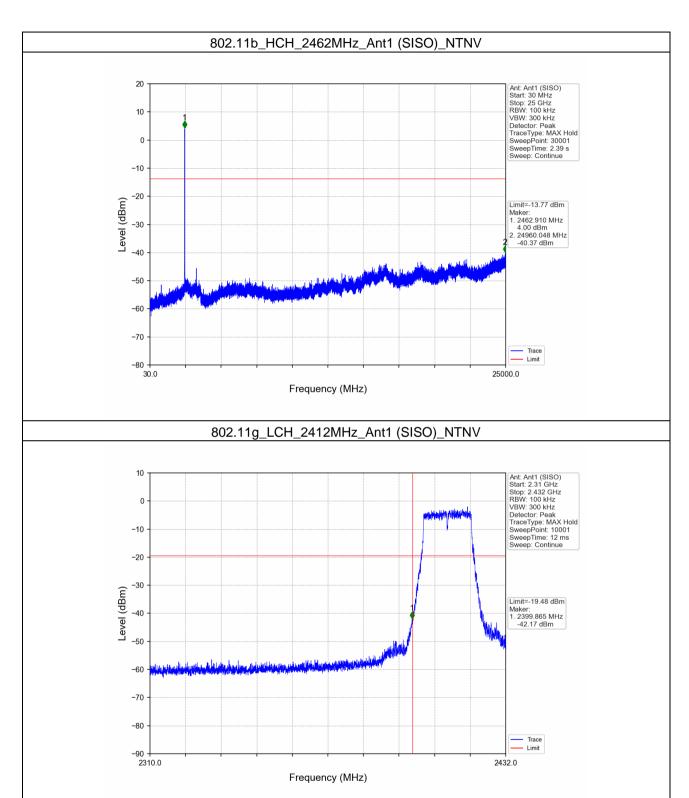
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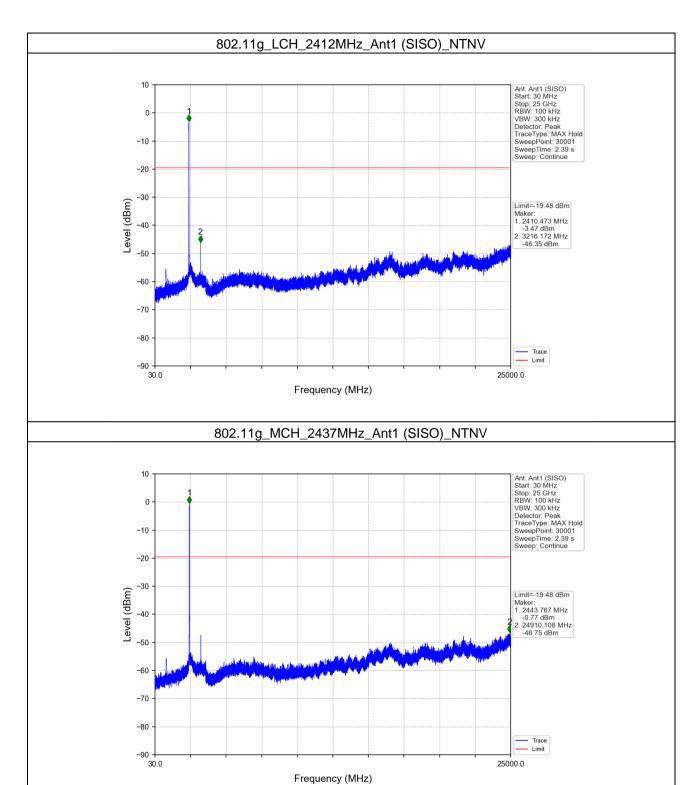
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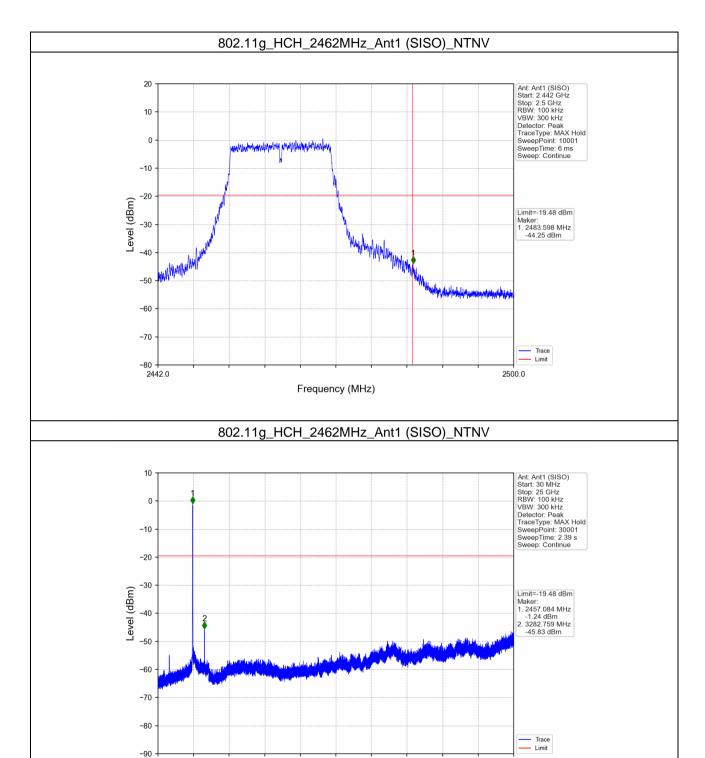
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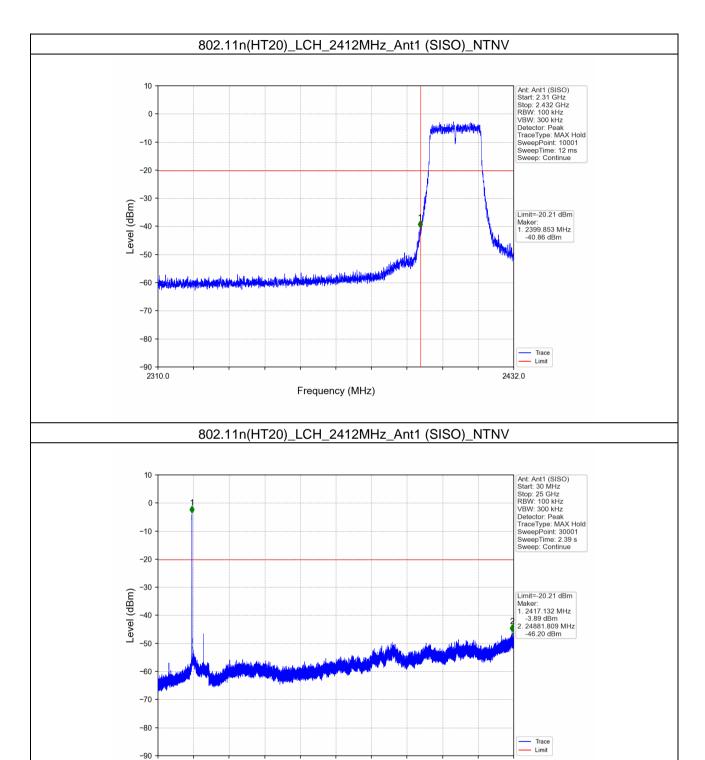
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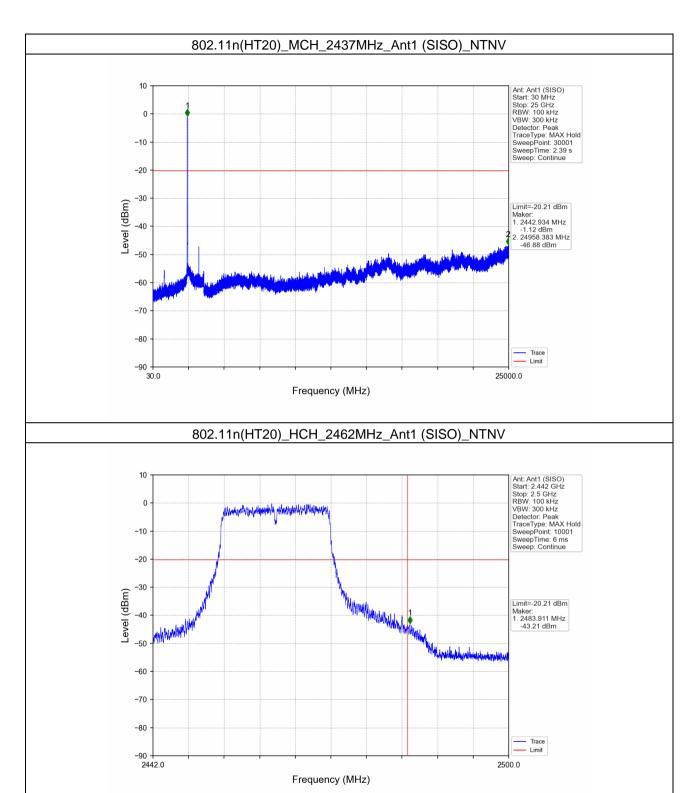
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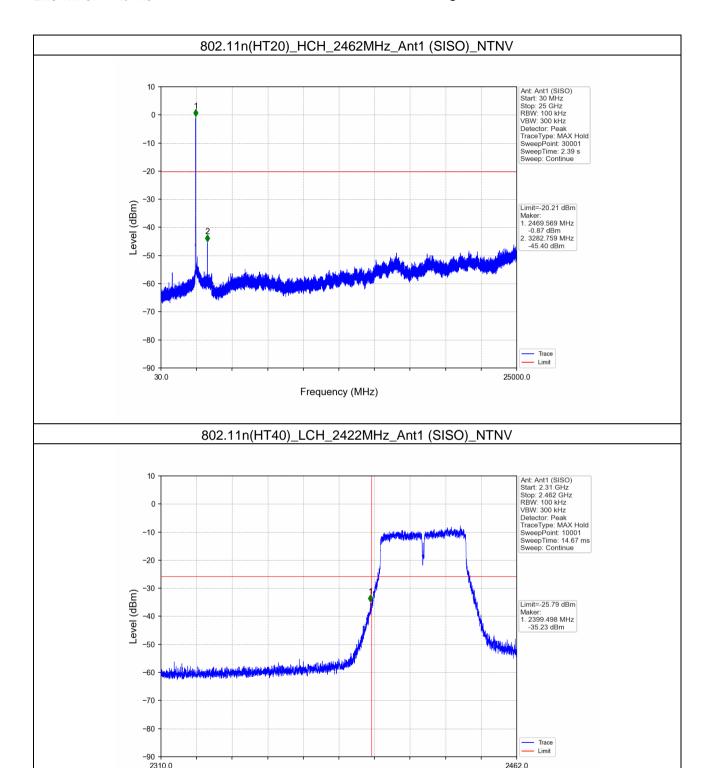
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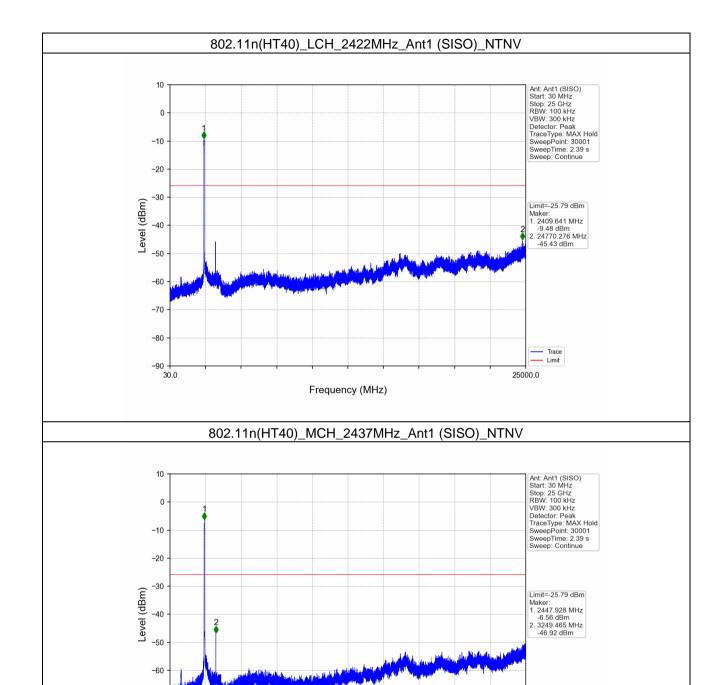
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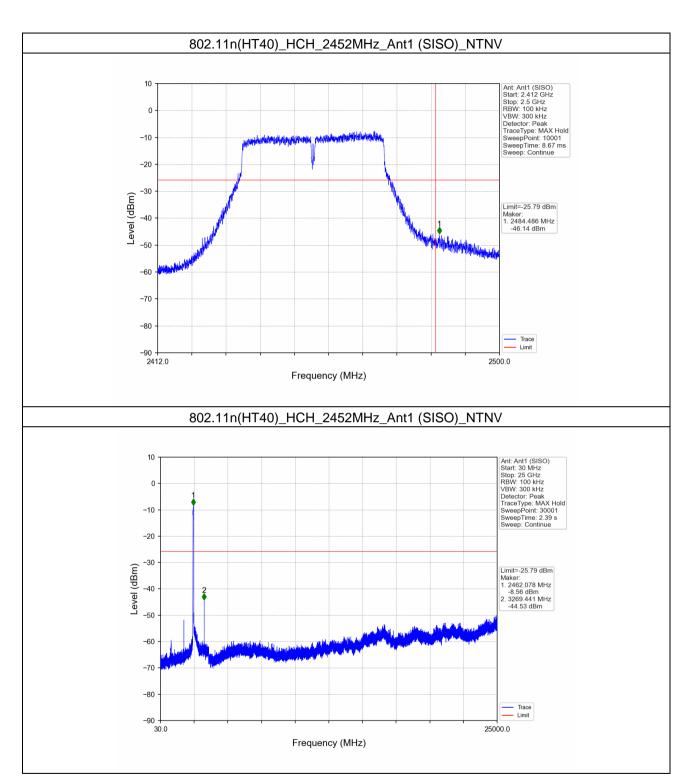
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