

Report No.: GZCR241200154304 EMC-TRF-01 Rev 1.1

> Page: 65 of 103

### 10 Appendix

1. Duty Cycle

1.1 Test Result

#### 1.1.1 Ant1

| Ant1              |            |                    |              |             |                   |                                      |                          |  |
|-------------------|------------|--------------------|--------------|-------------|-------------------|--------------------------------------|--------------------------|--|
| Mode              | TX<br>Type | Frequency<br>(MHz) | T_on<br>(ms) | Period (ms) | Duty Cycle<br>(%) | Duty Cycle<br>Correction Factor (dB) | Max. DC<br>Variation (%) |  |
|                   |            | 2412               | 0.592        | 1.818       | 32.56             | 4.87                                 | 0.03                     |  |
| 802.11b           | SISO       | 2437               | 0.593        | 1.824       | 32.51             | 4.88                                 | 0.10                     |  |
|                   |            | 2462               | 0.593        | 1.819       | 32.60             | 4.87                                 | 0.01                     |  |
|                   | SISO       | 2412               | 0.584        | 1.894       | 30.83             | 5.11                                 | 1.52                     |  |
| 802.11g           |            | 2437               | 0.585        | 1.817       | 32.20             | 4.92                                 | 0.17                     |  |
|                   |            | 2462               | 0.584        | 1.815       | 32.18             | 4.92                                 | 0.15                     |  |
| 000 44            | SISO       | 2412               | 0.560        | 1.792       | 31.25             | 5.05                                 | 0.19                     |  |
| 802.11n<br>(HT20) |            | 2437               | 0.560        | 1.791       | 31.27             | 5.05                                 | 0.18                     |  |
| (П120)            |            | 2462               | 0.561        | 1.792       | 31.31             | 5.04                                 | 0.16                     |  |
| 802.11n<br>(HT40) | SISO       | 2422               | 0.580        | 1.812       | 32.01             | 4.95                                 | 0.07                     |  |
|                   |            | 2437               | 0.581        | 1.812       | 32.06             | 4.94                                 | 0.17                     |  |
|                   |            | 2452               | 0.580        | 1.812       | 32.01             | 4.95                                 | 0.03                     |  |



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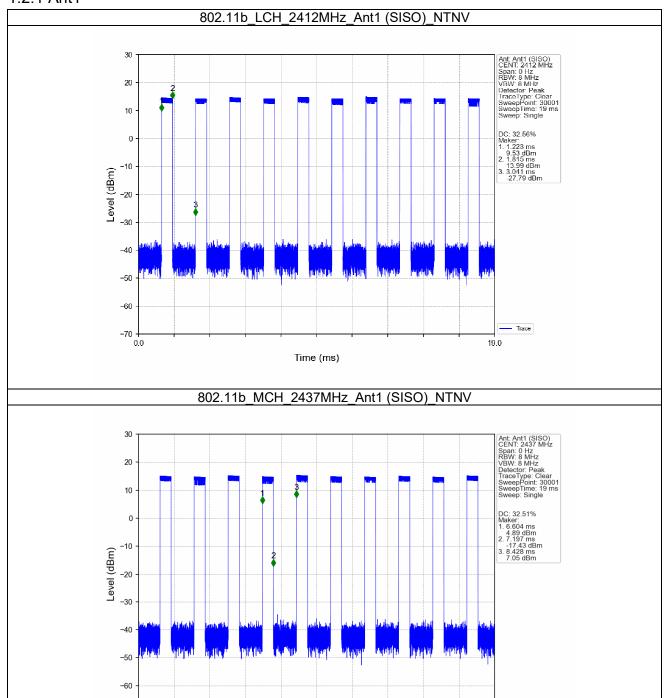


EMC-TRF-01 Rev 1.1 Report No.: GZCR241200154304

Page: 66 of 103

#### 1.2 Test Graph

#### 1.2.1 Ant1





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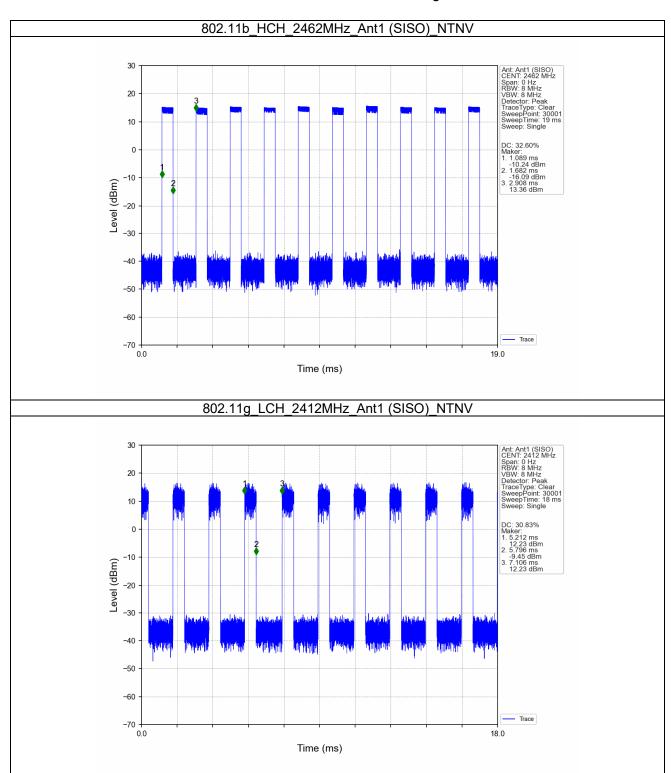
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Page: 67 of 103





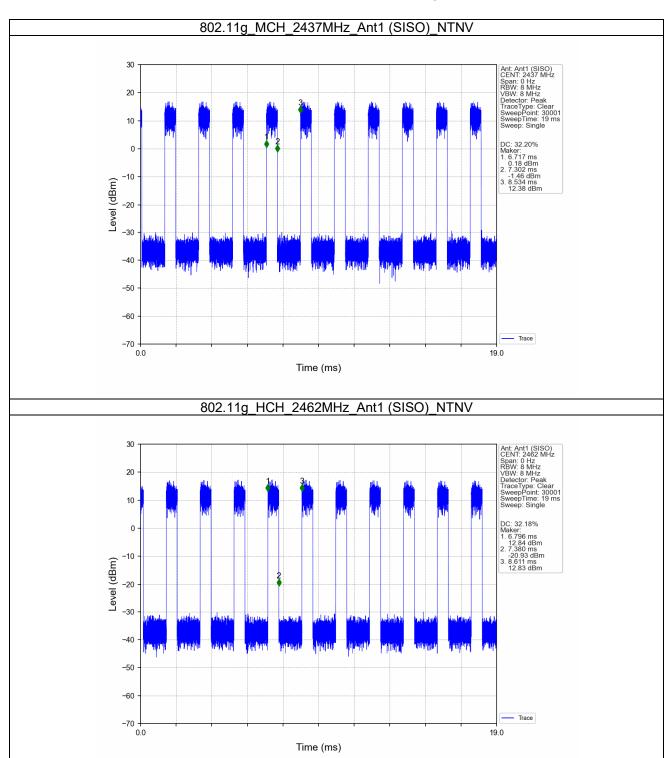
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Page: 68 of 103





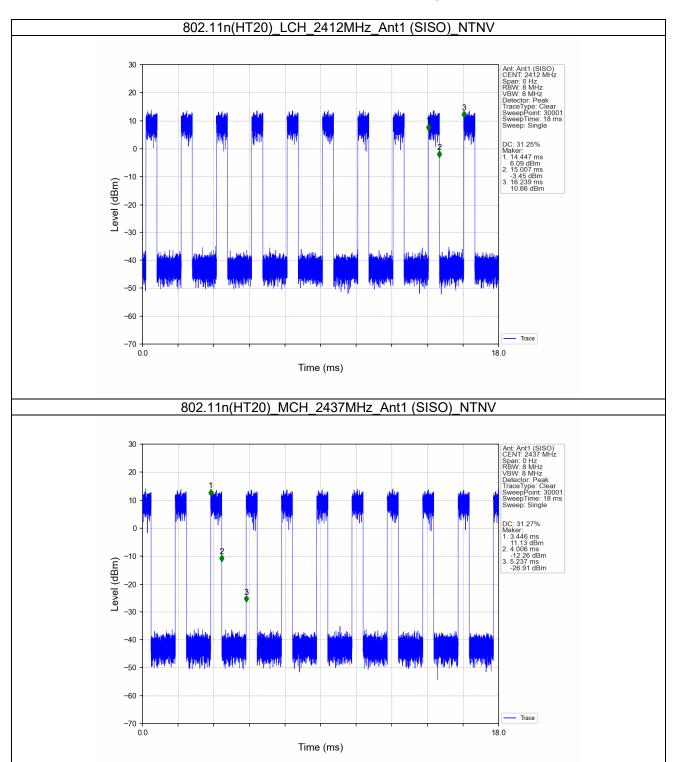
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Page: 69 of 103





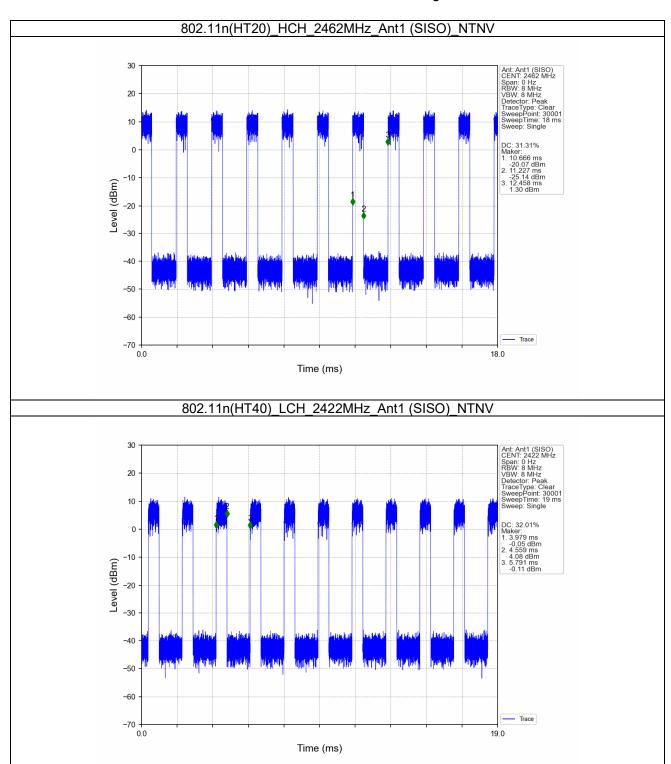
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Page: 70 of 103





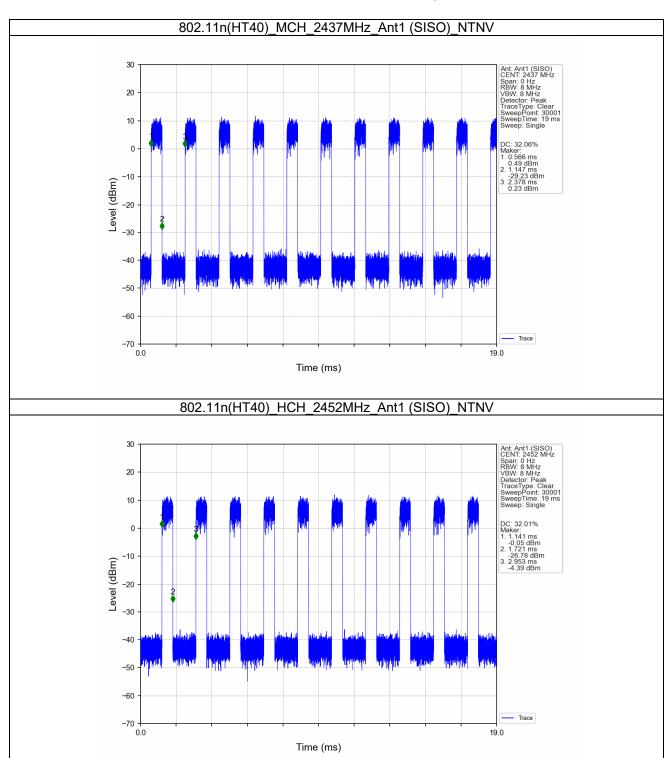
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Page: 71 of 103





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Report No.: GZCR241200154304 EMC-TRF-01 Rev 1.1

> Page: 72 of 103

#### 2. Bandwidth

#### 2.1 Test Result

#### 2.1.1 6dB BW

| Mode            | TX   | Frequency | ANT    | 6dB Bandv | Verdict |                                    |       |      |
|-----------------|------|-----------|--------|-----------|---------|------------------------------------|-------|------|
| Mode            | Type | (MHz)     |        | Result    | Limit   | verdict                            |       |      |
|                 |      | 2412      | 1      | 9.151     | >=0.5   | Pass                               |       |      |
| 802.11b         | SISO | 2437      | 1      | 9.178     | >=0.5   | Pass                               |       |      |
|                 |      | 2462      | 1      | 9.136     | >=0.5   | Pass                               |       |      |
|                 |      | 2412      | 1      | 16.326    | >=0.5   | Pass                               |       |      |
| 802.11g         | SISO | 2437      | 1      | 16.340    | >=0.5   | Pass                               |       |      |
|                 |      | 2462      | 1      | 16.084    | >=0.5   | Pass                               |       |      |
| 802.11n         |      | 2412      | 1      | 16.187    | >=0.5   | Pass                               |       |      |
|                 | SISO | 2437      | 1      | 15.798    | >=0.5   | Pass                               |       |      |
| (HT20)          |      | 2462      | 1      | 15.500    | >=0.5   | Pass                               |       |      |
| 802.11n         | SISO |           | 00.11= | 2422      | 1       | 35.134                             | >=0.5 | Pass |
| ~ ~ · · · · · · |      | 2437      | 1      | 35.142    | >=0.5   | Pass                               |       |      |
| (HT40)          |      | 2452      | 1      | 35.154    | >=0.5   | Pass Pass Pass Pass Pass Pass Pass |       |      |



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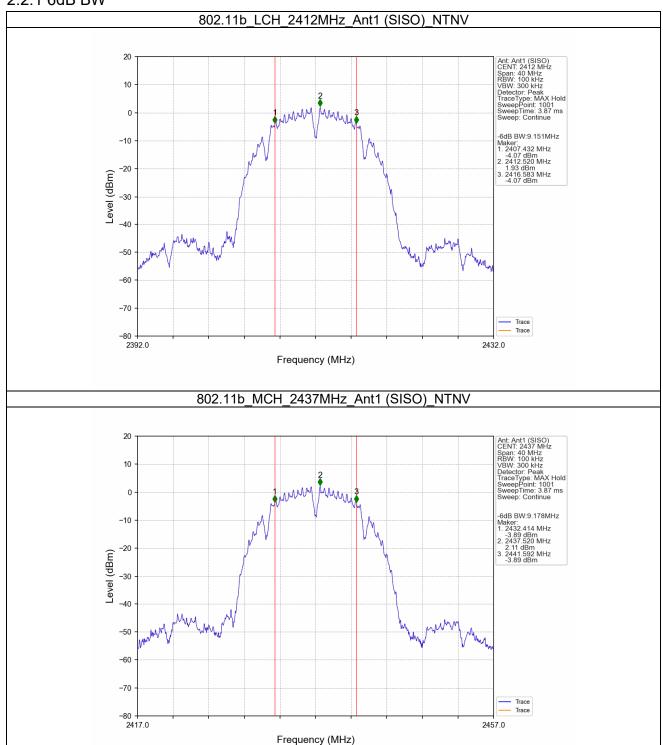


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Page: 73 of 103

#### 2.2 Test Graph

#### 2.2.1 6dB BW





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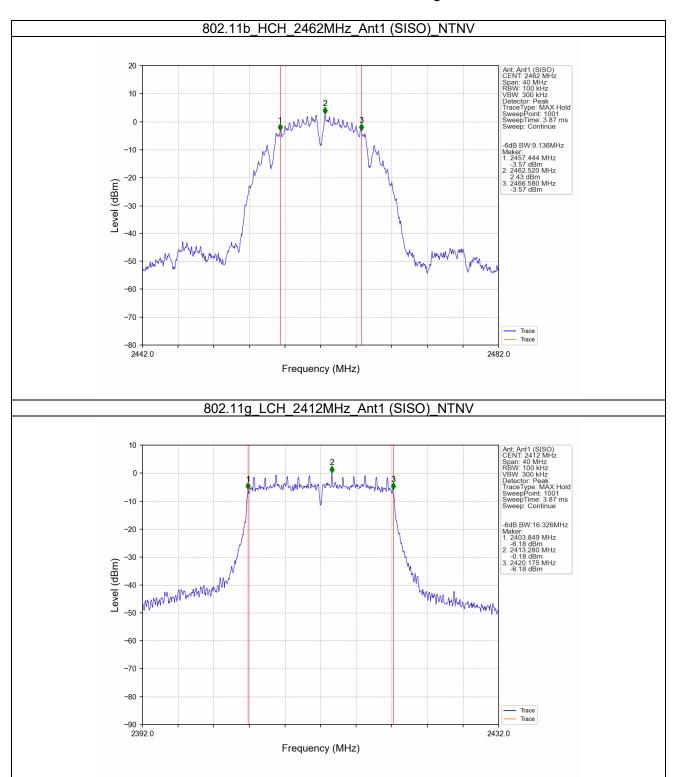
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Page: 74 of 103





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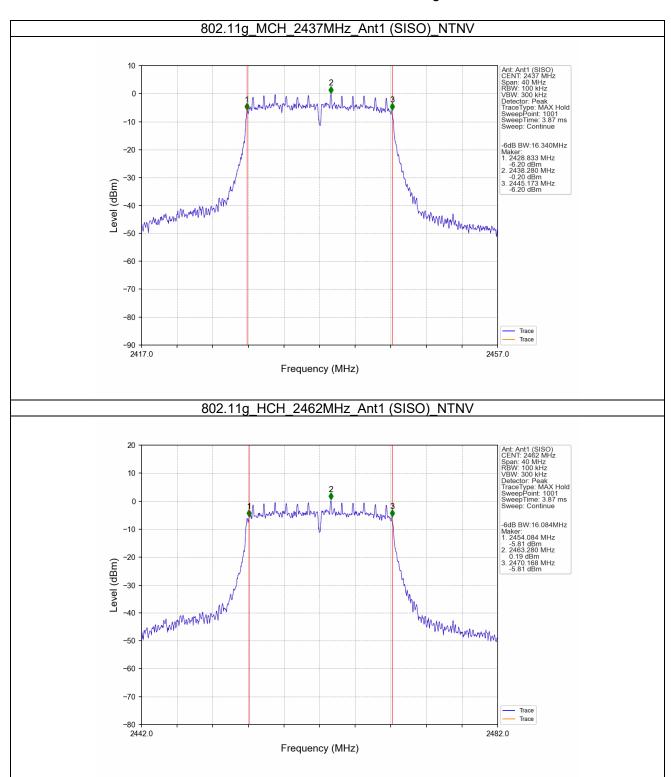
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Page: 75 of 103





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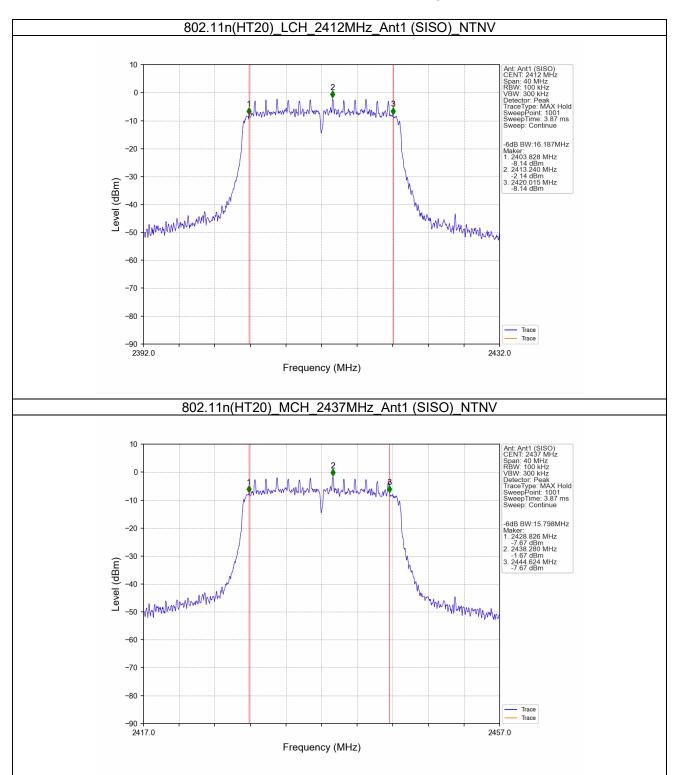
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Page: 76 of 103





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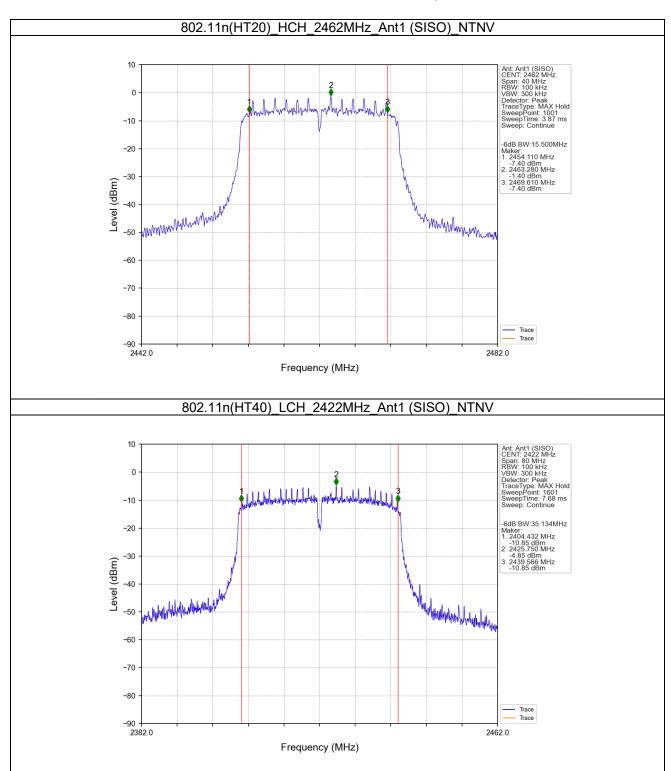
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Page: 77 of 103





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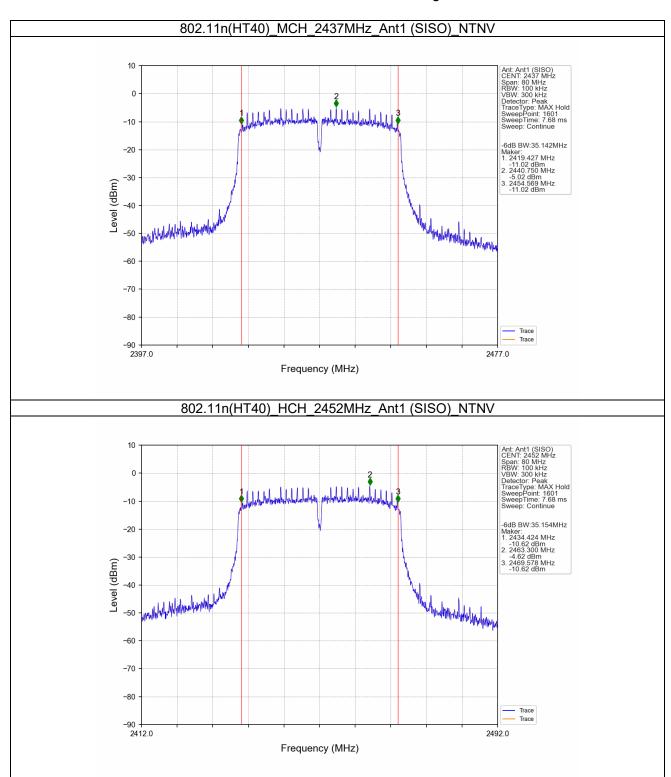
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Page: 78 of 103





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Report No.: GZCR241200154304 EMC-TRF-01 Rev 1.1

> Page: 79 of 103

#### 3. Maximum Conducted Output Power

#### 3.1 Test Result

#### 3.1.1 Power

| Mada                                | TX   | Frequency | Maximum Peak Conduc | Verdict |         |  |  |
|-------------------------------------|------|-----------|---------------------|---------|---------|--|--|
| Mode                                | Type | (MHz)     | ANT1                | Limit   | verdict |  |  |
|                                     | SISO | 2412      | 13.64               | <=30    | Pass    |  |  |
| 802.11b                             |      | 2437      | 13.88               | <=30    | Pass    |  |  |
|                                     |      | 2462      | 14.13               | <=30    | Pass    |  |  |
|                                     |      | 2412      | 18.00               | <=30    | Pass    |  |  |
| 802.11g                             | SISO | 2437      | 18.15               | <=30    | Pass    |  |  |
|                                     |      | 2462      | 18.20               | <=30    | Pass    |  |  |
| 902 11p                             | SISO | 2412      | 15.74               | <=30    | Pass    |  |  |
| 802.11n<br>(HT20)                   |      | 2437      | 15.84               | <=30    | Pass    |  |  |
|                                     |      | 2462      | 15.96               | <=30    | Pass    |  |  |
| 802.11n<br>(HT40)                   |      | 2422      | 15.80               | <=30    | Pass    |  |  |
|                                     | SISO | 2437      | 15.86               | <=30    | Pass    |  |  |
|                                     |      | 2452      | 16.27               | <=30    | Pass    |  |  |
| Note1: Antenna Gain: Ant1: 1.56dBi; |      |           |                     |         |         |  |  |

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EMC-TRF-01 Rev 1.1

Report No.: GZCR241200154304

Page: 80 of 103

#### 4. Maximum Power Spectral Density

#### 4.1 Test Result

#### 4.1.1 PSD

| Mode              | TX   | Frequency | Maximum PS | Vardiat |         |      |
|-------------------|------|-----------|------------|---------|---------|------|
| Mode              | Туре | (MHz)     | ANT1       | Limit   | Verdict |      |
|                   | SISO | 2412      | -12.52     | <=8     | Pass    |      |
| 802.11b           |      | 2437      | -12.32     | <=8     | Pass    |      |
|                   |      | 2462      | -12.69     | <=8     | Pass    |      |
| 802.11g           | SISO | 2412      | -15.55     | <=8     | Pass    |      |
|                   |      | 2437      | -15.61     | <=8     | Pass    |      |
|                   |      | 2462      | -15.71     | <=8     | Pass    |      |
| 802.11n<br>(HT20) |      | 2412      | -16.84     | <=8     | Pass    |      |
|                   | SISO | 2437      | -16.71     | <=8     | Pass    |      |
|                   |      | 2462      | -16.41     | <=8     | Pass    |      |
| 802.11n<br>(HT40) | SISO | 000 44:-  | 2422       | -20.76  | <=8     | Pass |
|                   |      | 2437      | -19.42     | <=8     | Pass    |      |
|                   |      | 2452      | -20.55     | <=8     | Pass    |      |

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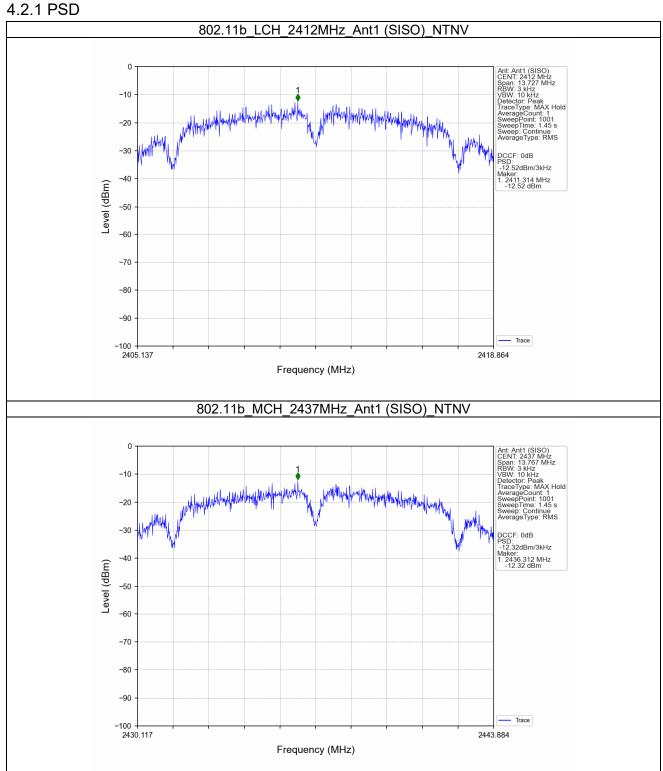
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EMC-TRF-01 Rev 1.1 Report No.: GZCR241200154304

Page: 81 of 103

#### 4.2 Test Graph





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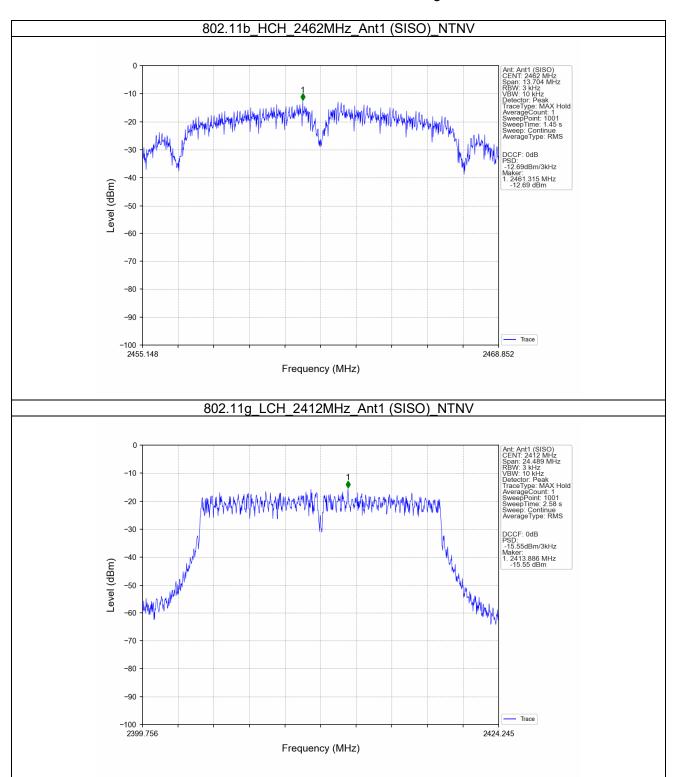
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EMC-TRF-01 Rev 1.1 Report No.: GZCR241200154304

Page: 82 of 103





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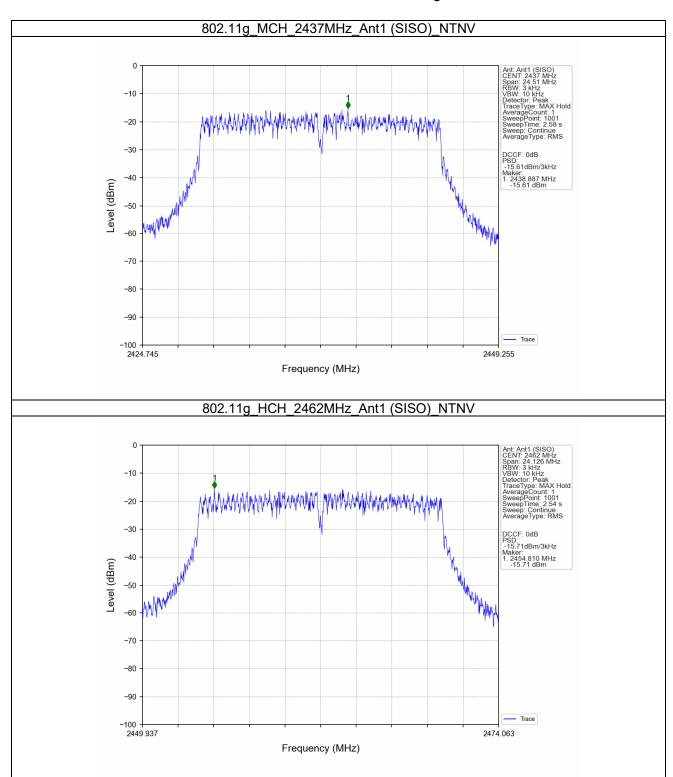
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83 of 103 Page:





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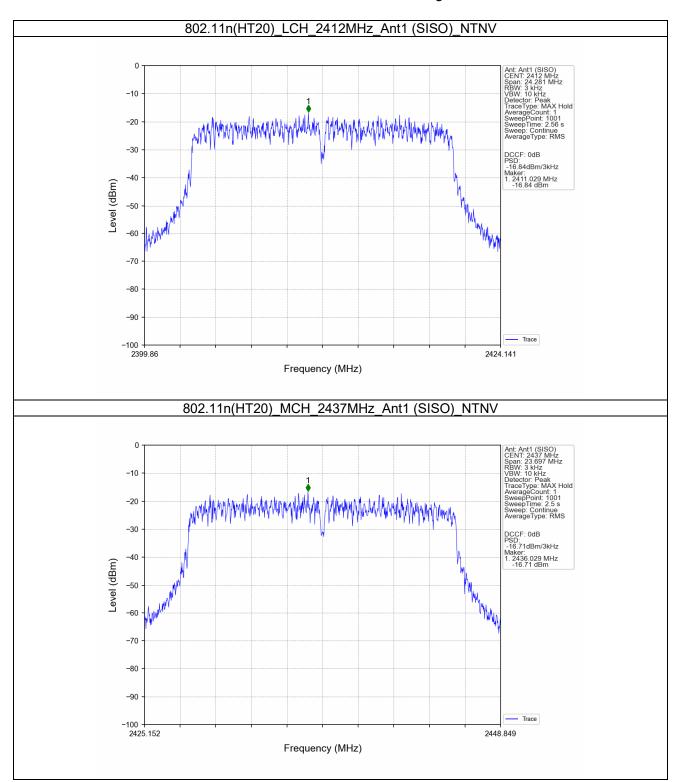
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Report No.: GZCR241200154304

Page: 84 of 103





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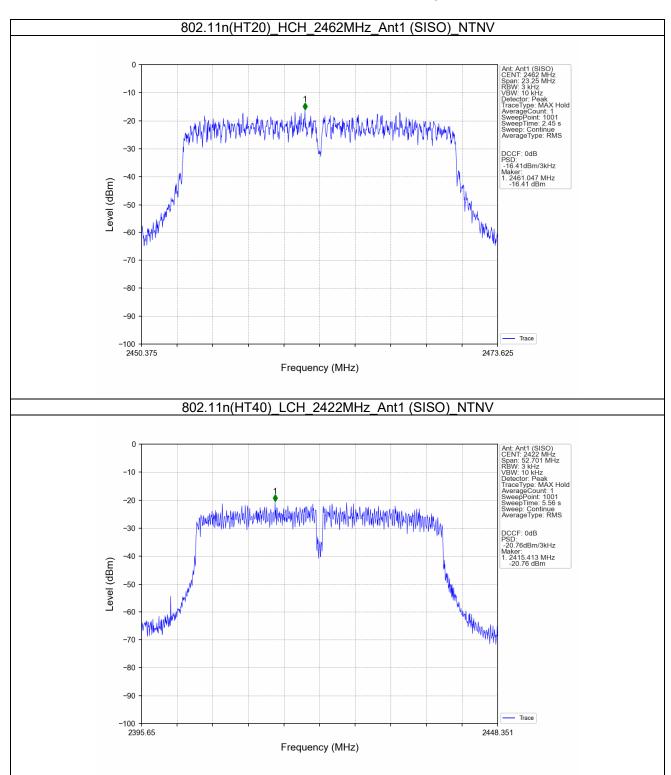
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85 of 103 Page:





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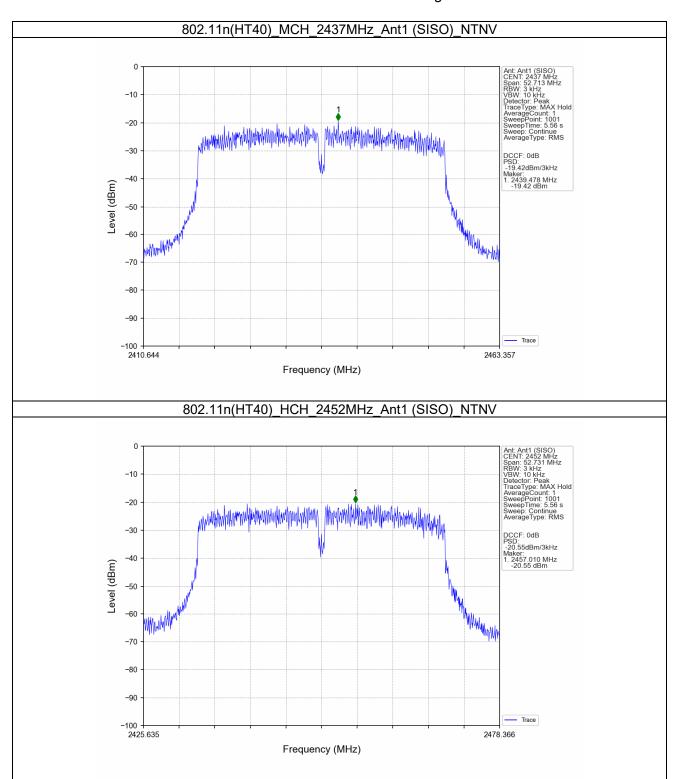
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Page: 86 of 103





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EMC-TRF-01 Rev 1.1

Report No.: GZCR241200154304

Page: 87 of 103

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

#### 5.1 Test Result

#### 5.1.1 Ref

| Mode    | TX<br>Type | Frequency<br>(MHz) | ANT | Level of Reference<br>(dBm) |  |
|---------|------------|--------------------|-----|-----------------------------|--|
|         |            | 2412               | 1   | 1.78                        |  |
| 802.11b | SISO       | 2437               | 1   | 2.12                        |  |
|         |            | 2462               | 1   | 2.29                        |  |
|         | SISO       | 2412               | 1   | -0.76                       |  |
| 802.11g |            | 2437               | 1   | -0.29                       |  |
|         |            | 2462               | 1   | 0.13                        |  |
| 900 11n | SISO       | 2412               | 1   | -1.82                       |  |
| 802.11n |            | 2437               | 1   | -1.58                       |  |
| (HT20)  |            | 2462               | 1   | -1.38                       |  |
| 802.11n | SISO       | 2422               | 1   | -5.15                       |  |
|         |            | 2437               | 1   | -4.86                       |  |
| (HT40)  |            | 2452               | 1   | -4.68                       |  |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level

#### 5.1.2 CSE and Band Edges

|                   |      | 3         |      |                    |        |         |
|-------------------|------|-----------|------|--------------------|--------|---------|
| Mode              | TX   | Frequency | ANT  | Level of Reference | Limit  | Verdict |
|                   | Type | (MHz)     | AINT | (dBm)              | (dBm)  | verdict |
|                   | SISO | 2412      | 1    | 2.29               | -17.71 | Pass    |
| 802.11b           |      | 2437      | 1    | 2.29               | -17.71 | Pass    |
|                   |      | 2462      | 1    | 2.29               | -17.71 | Pass    |
|                   |      | 2412      | 1    | 0.13               | -19.87 | Pass    |
| 802.11g           | SISO | 2437      | 1    | 0.13               | -19.87 | Pass    |
|                   |      | 2462      | 1    | 0.13               | -19.87 | Pass    |
| 802.11n<br>(HT20) | SISO | 2412      | 1    | -1.38              | -21.38 | Pass    |
|                   |      | 2437      | 1    | -1.38              | -21.38 | Pass    |
|                   |      | 2462      | 1    | -1.38              | -21.38 | Pass    |
| 000 115           |      | 2422      | 1    | -4.68              | -24.68 | Pass    |
| 802.11n           | SISO | 2437      | 1    | -4.68              | -24.68 | Pass    |
| (HT40)            |      | 2452      | 1    | -4.68              | -24.68 | Pass    |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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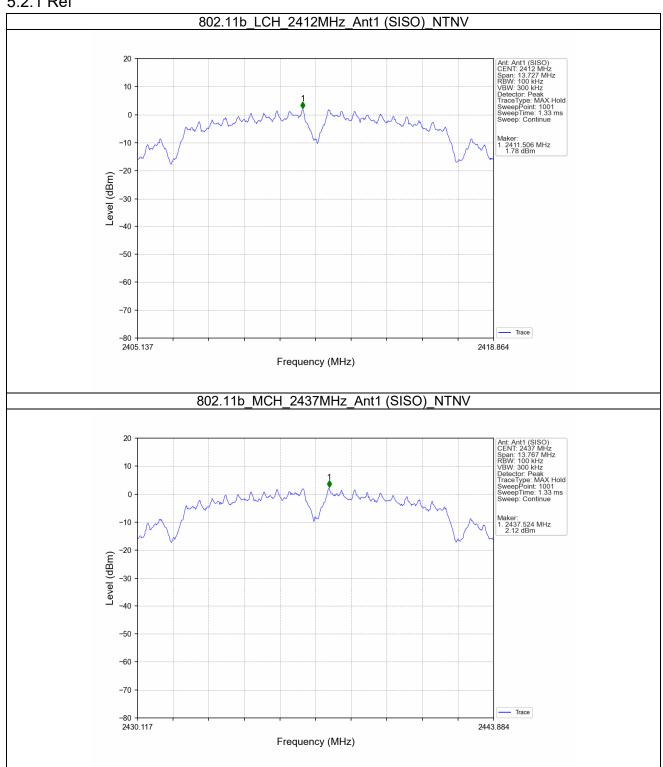


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Page: 88 of 103

#### 5.2 Test Graph

#### 5.2.1 Ref





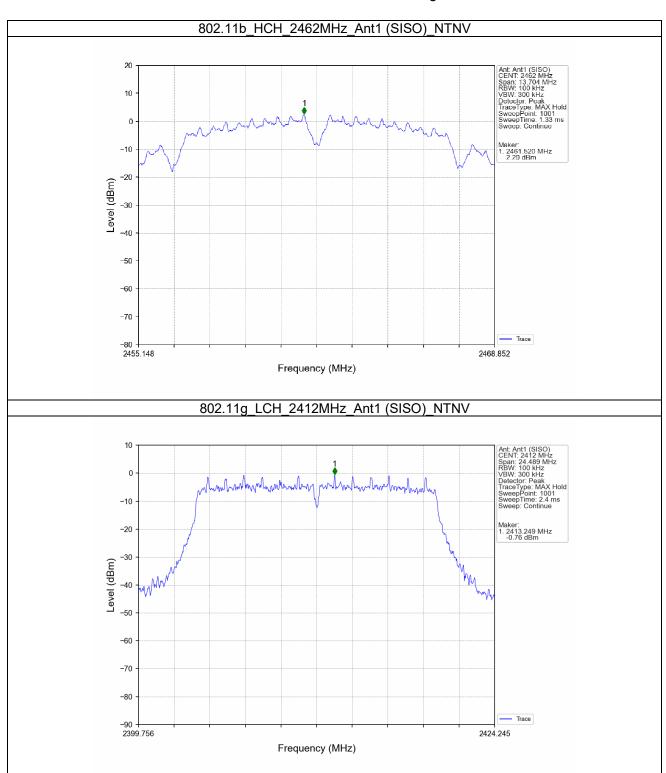
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Page: 89 of 103





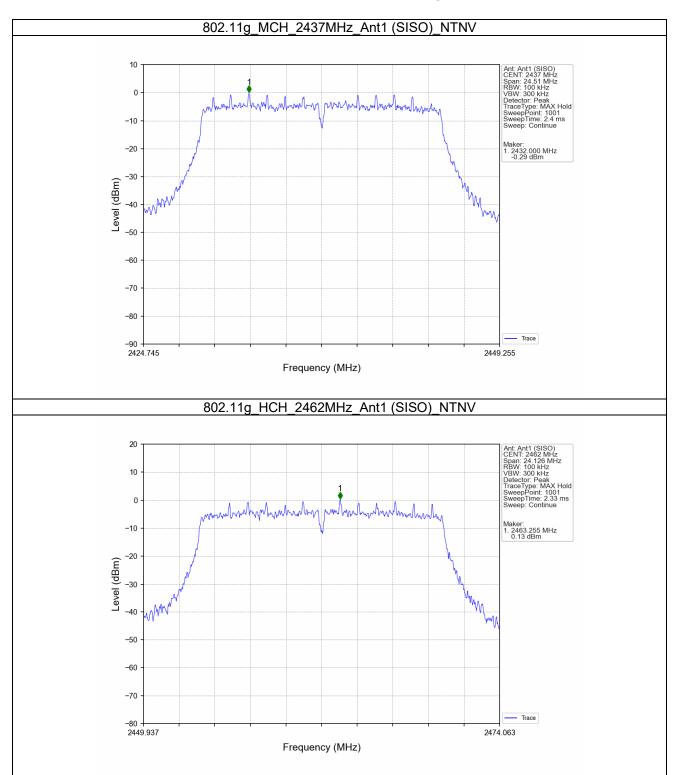
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Page: 90 of 103





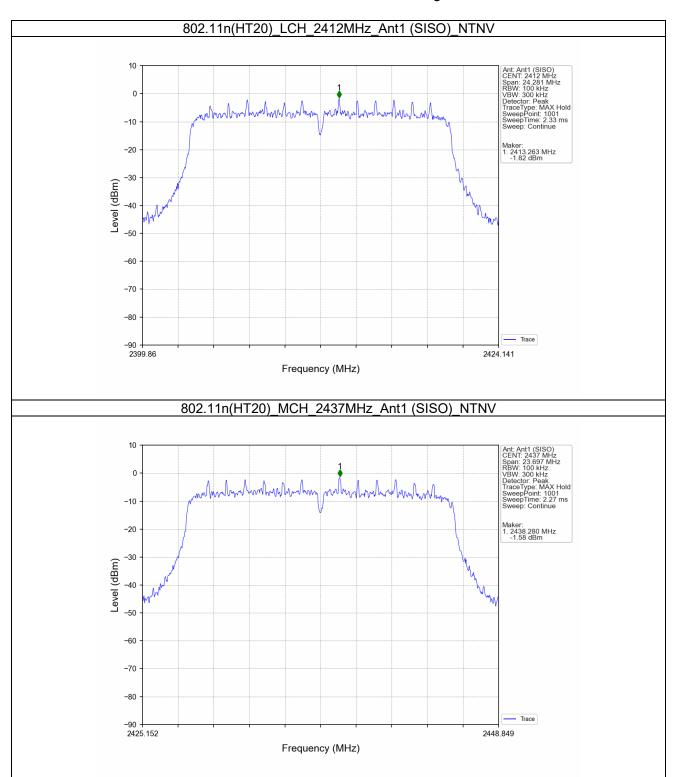
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Page: 91 of 103





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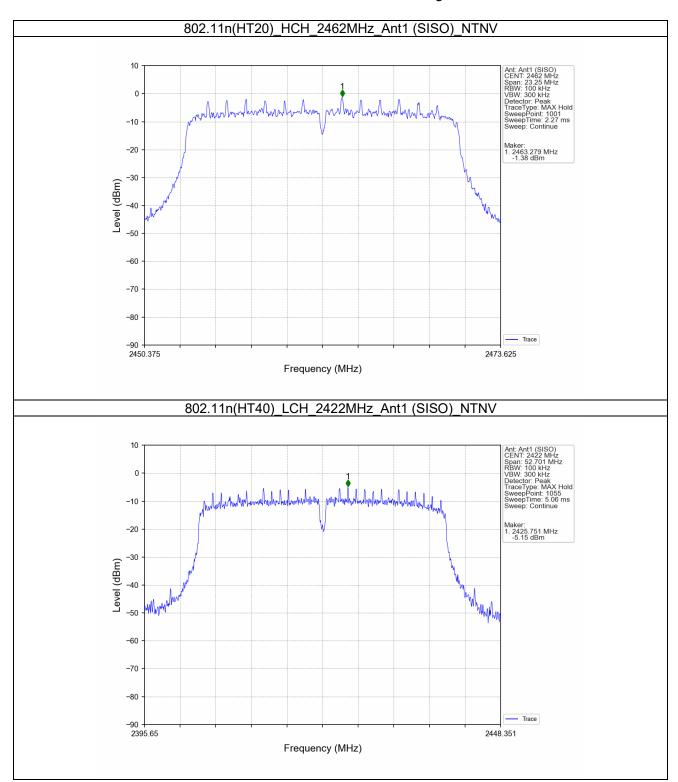
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Page: 92 of 103





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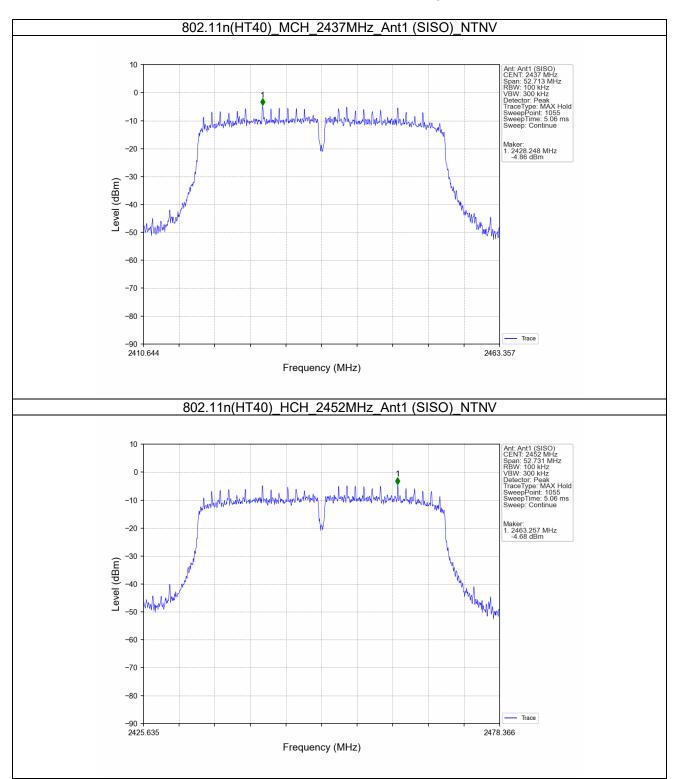
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EMC-TRF-01 Rev 1.1 Report No.: GZCR241200154304

Page: 93 of 103





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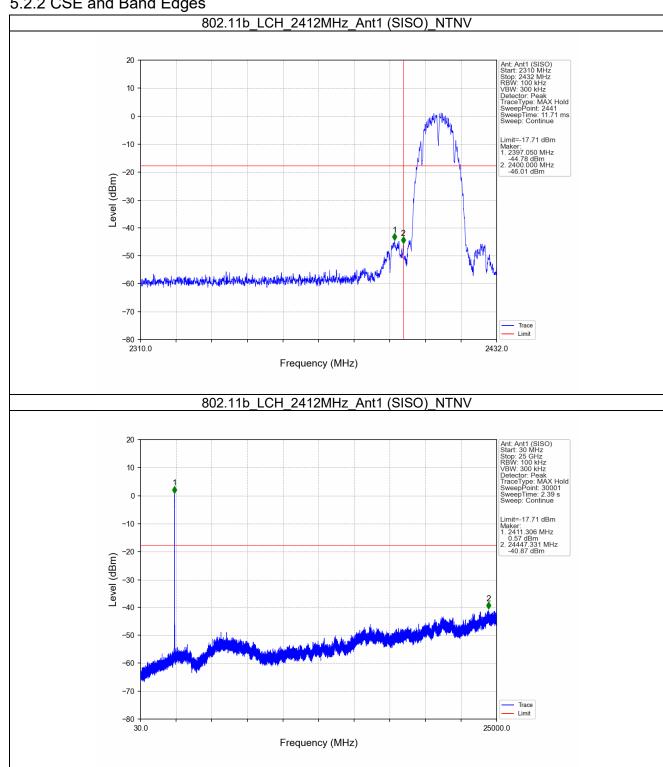
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EMC-TRF-01 Rev 1.1 Report No.: GZCR241200154304

Page: 94 of 103

#### 5.2.2 CSE and Band Edges





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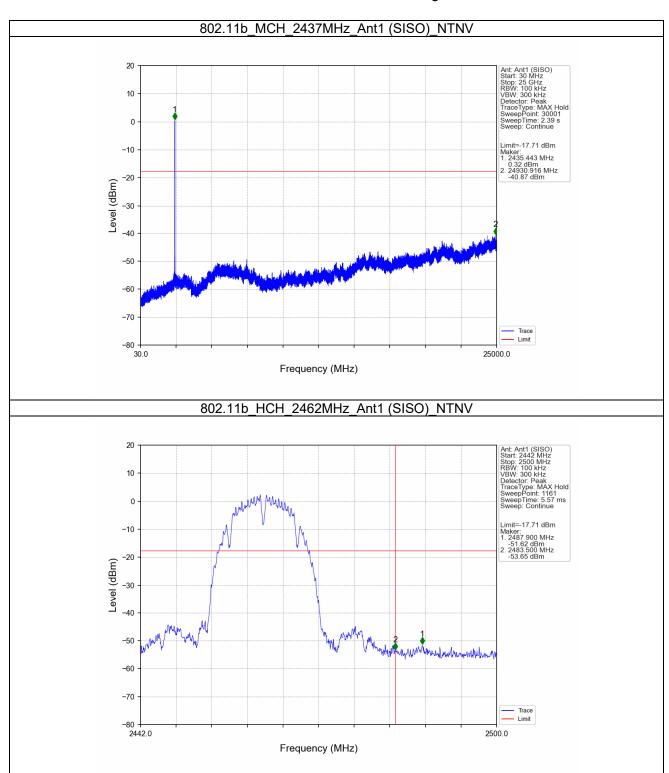
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Page: 95 of 103





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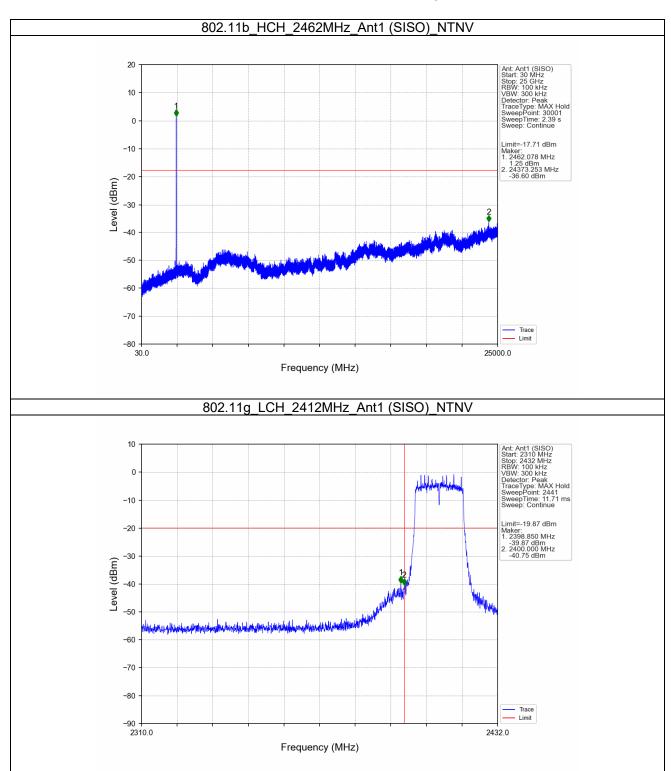
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EMC-TRF-01 Rev 1.1

Report No.: GZCR241200154304

Page: 96 of 103





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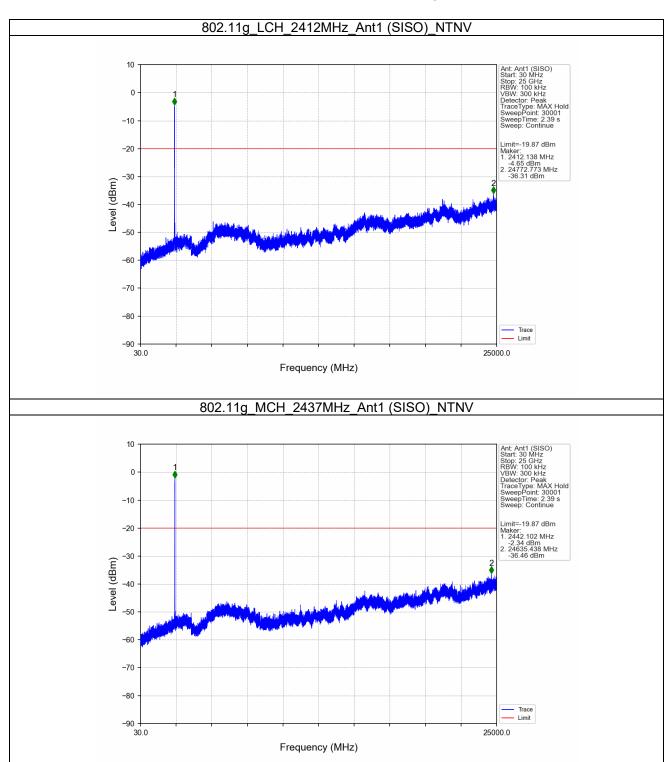
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EMC-TRF-01 Rev 1.1 Report No.: GZCR241200154304

Page: 97 of 103





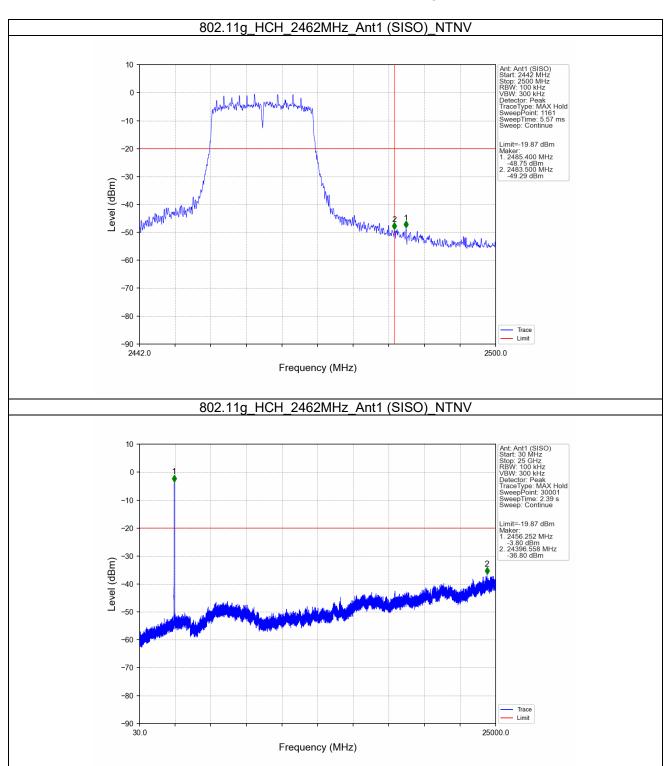
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EMC-TRF-01 Rev 1.1 Report No.: GZCR241200154304

Page: 98 of 103





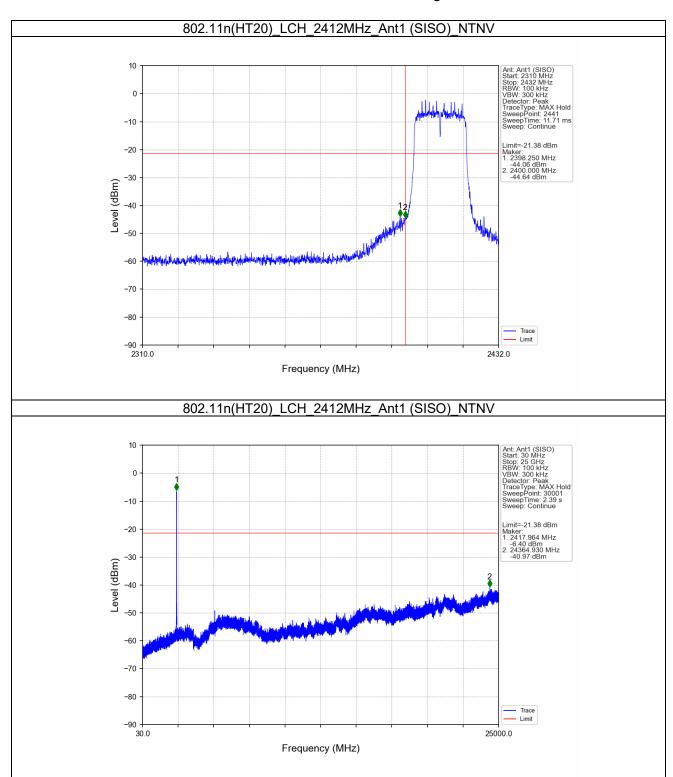
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Page: 99 of 103





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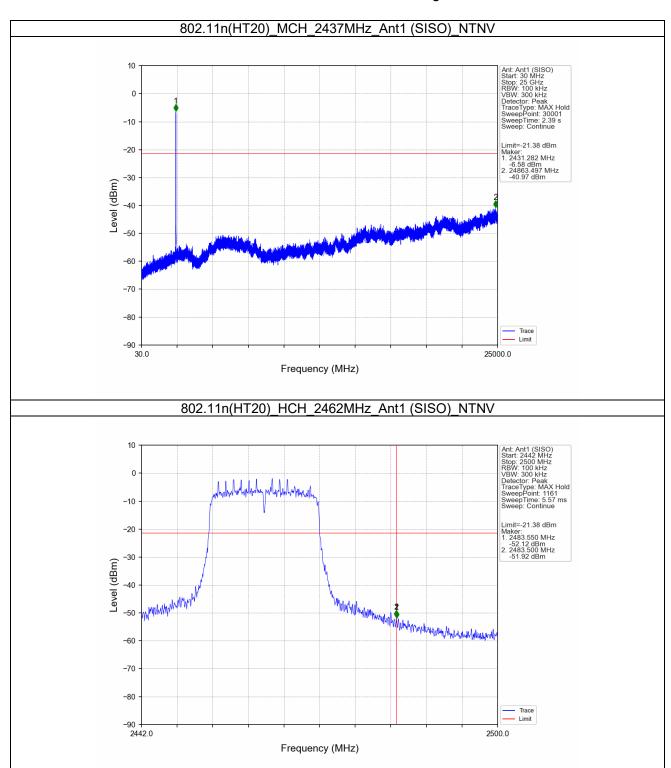
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100 of 103 Page:





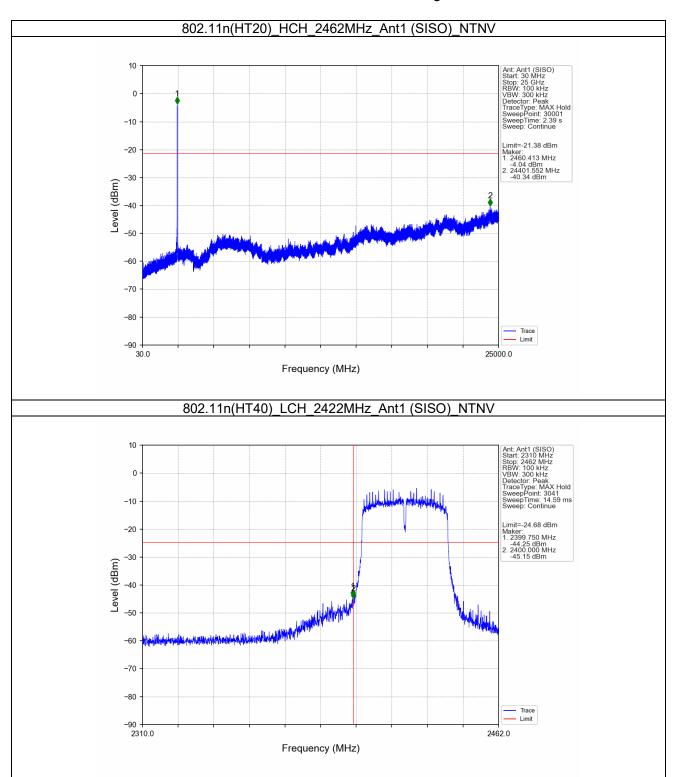
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EMC-TRF-01 Rev 1.1 Report No.: GZCR241200154304

101 of 103 Page:





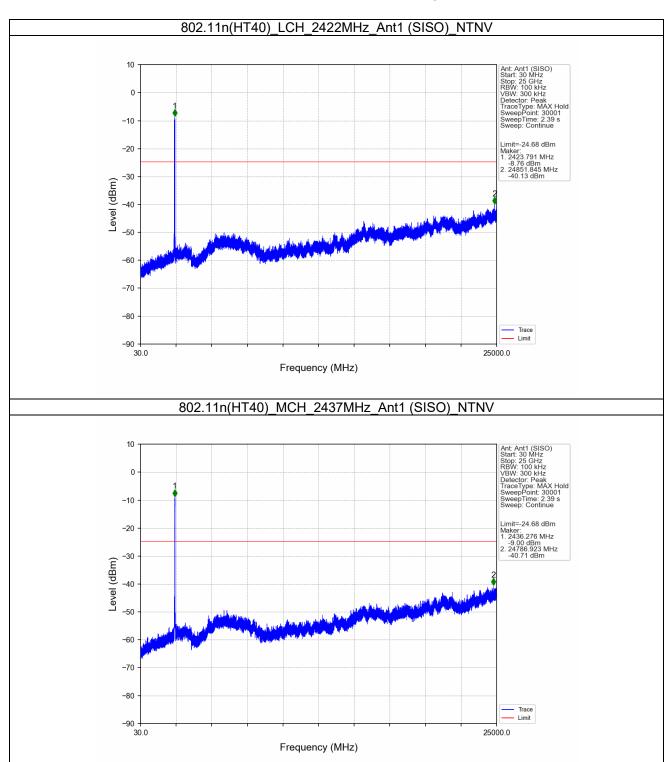
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102 of 103 Page:





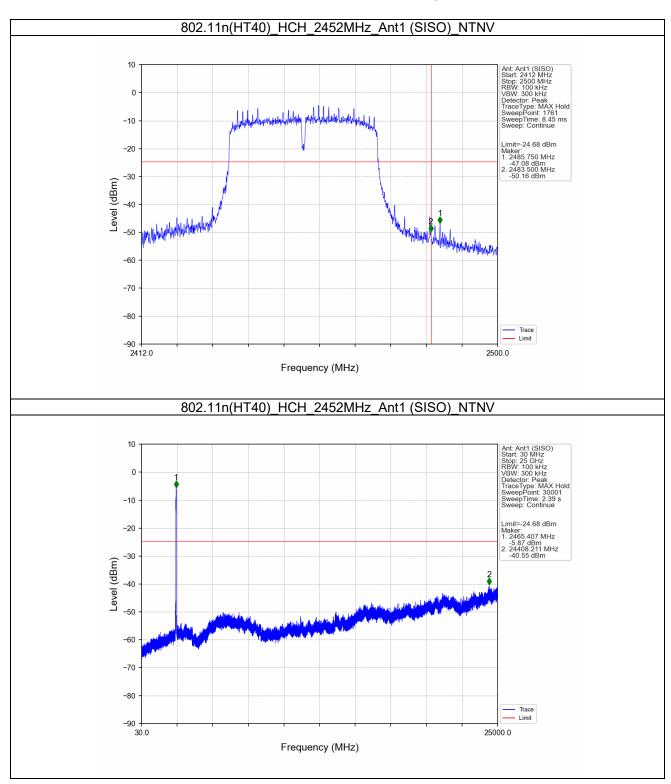
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