

Appendix A for KSCR220600090401

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

| Ant1 | | | | | | | |
|----------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b | SISO | 2412 | 8.416 | 8.580 | 98.09 | 0.08 | 1.27 |
| | | 2437 | 8.436 | 8.590 | 98.21 | 0.08 | 1.67 |
| | | 2462 | 8.416 | 8.586 | 98.02 | 0.09 | 1.55 |
| 802.11g | SISO | 2412 | 1.398 | 1.575 | 88.76 | 0.52 | 7.16 |
| | | 2437 | 1.397 | 1.574 | 88.75 | 0.52 | 7.72 |
| | | 2462 | 1.403 | 1.575 | 89.08 | 0.50 | 8.36 |
| 802.11n (HT20) | MIMO | 2412 | 1.316 | 1.487 | 88.50 | 0.53 | 8.82 |
| | | 2437 | 1.309 | 1.478 | 88.57 | 0.53 | 7.66 |
| | | 2462 | 1.309 | 1.477 | 88.63 | 0.52 | 3.34 |



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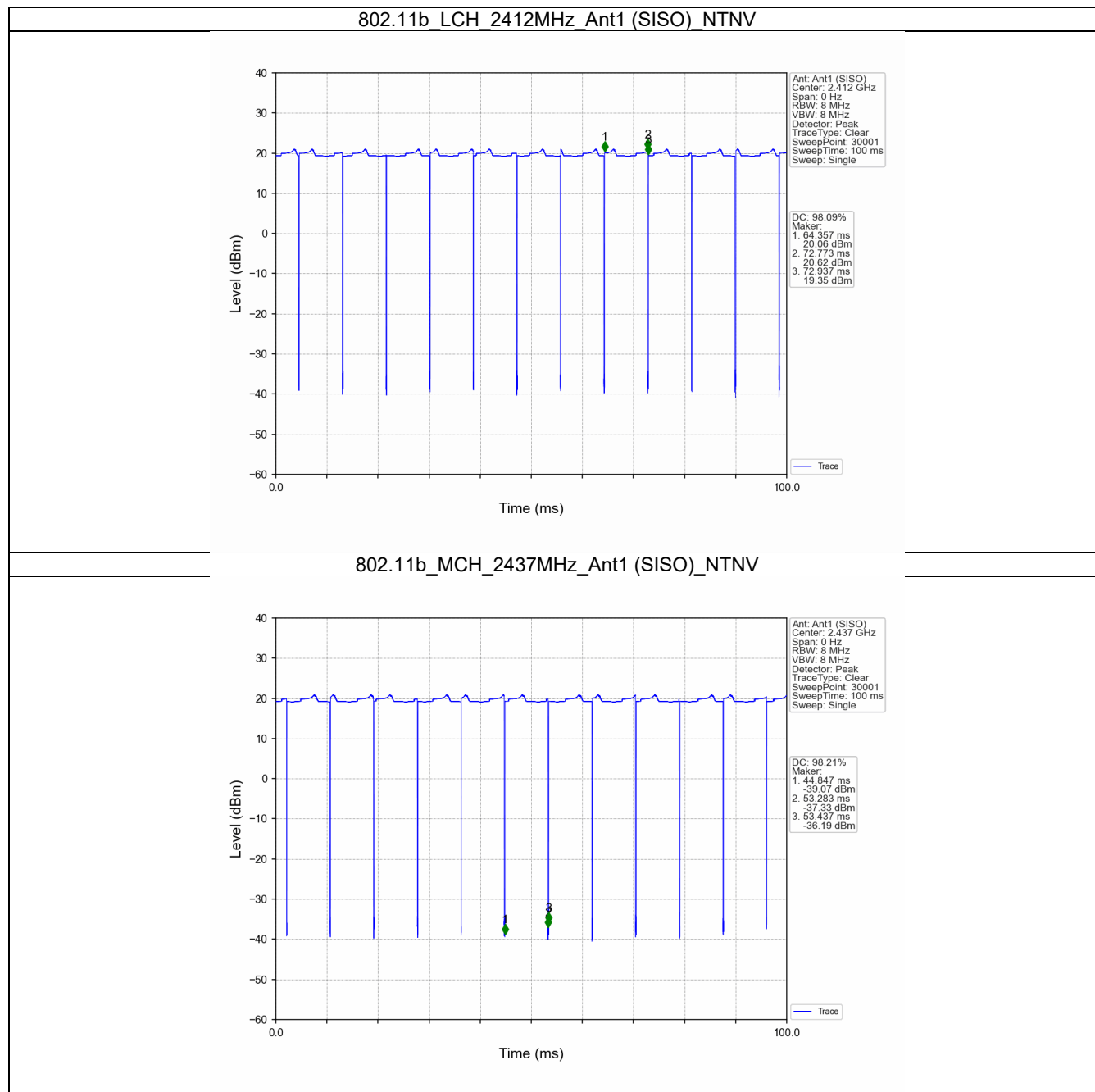
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1.1.2 Test Graph



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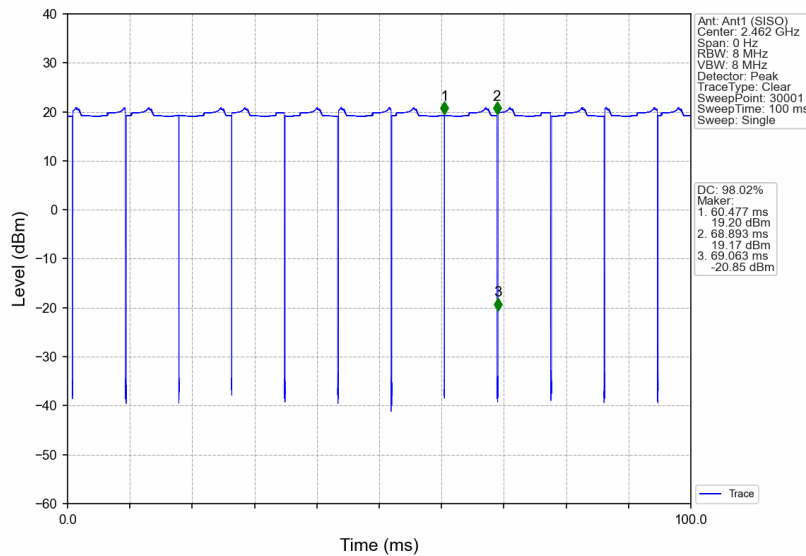
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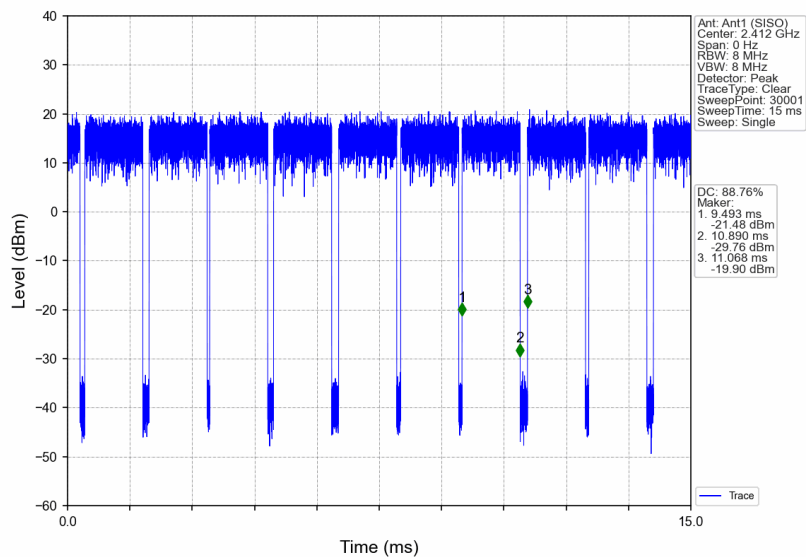
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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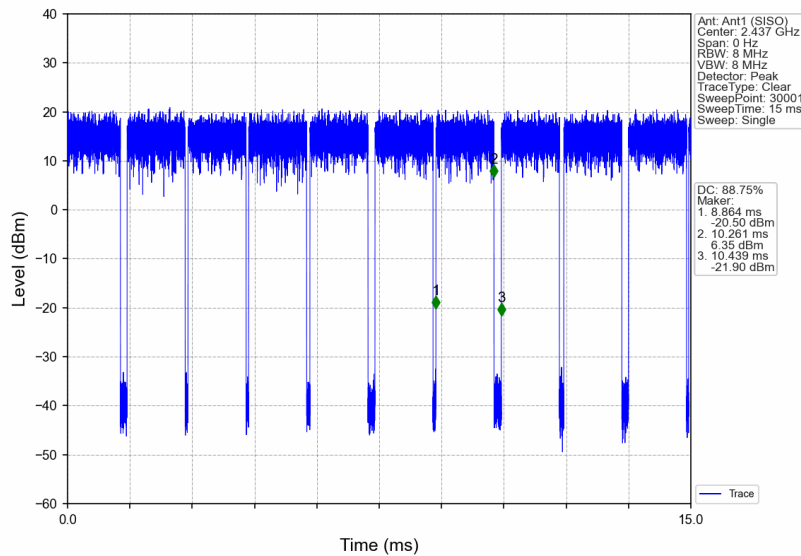
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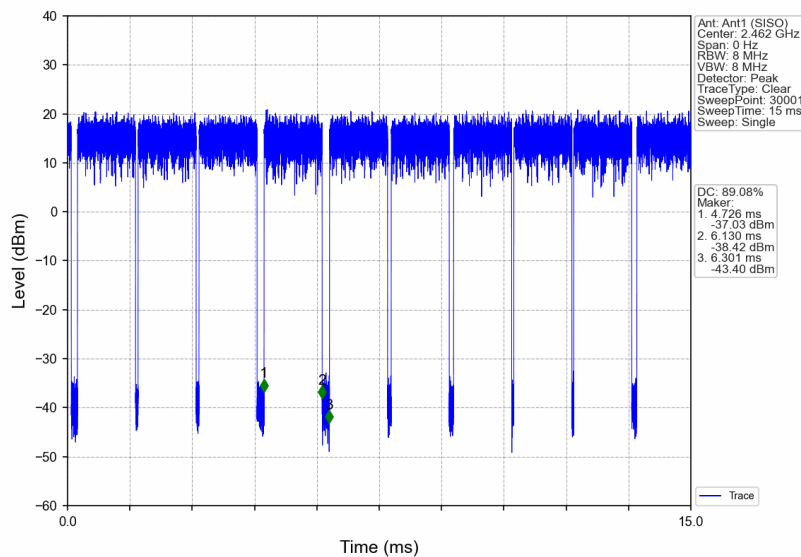
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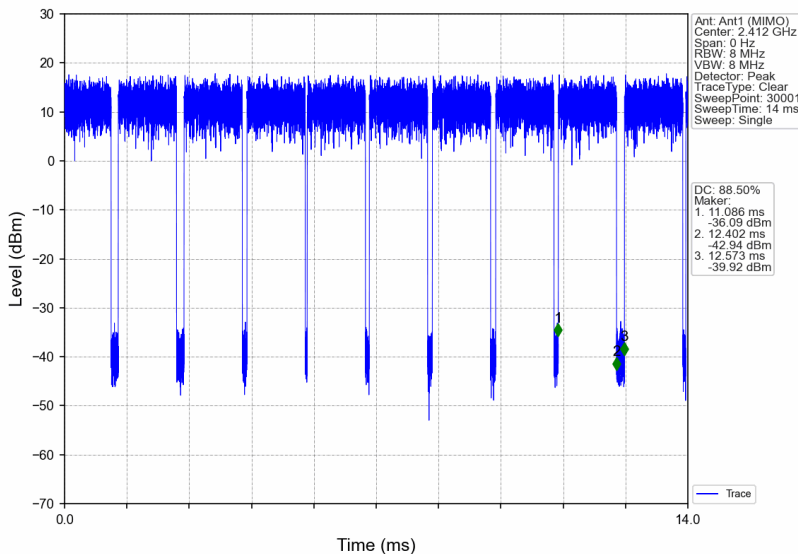
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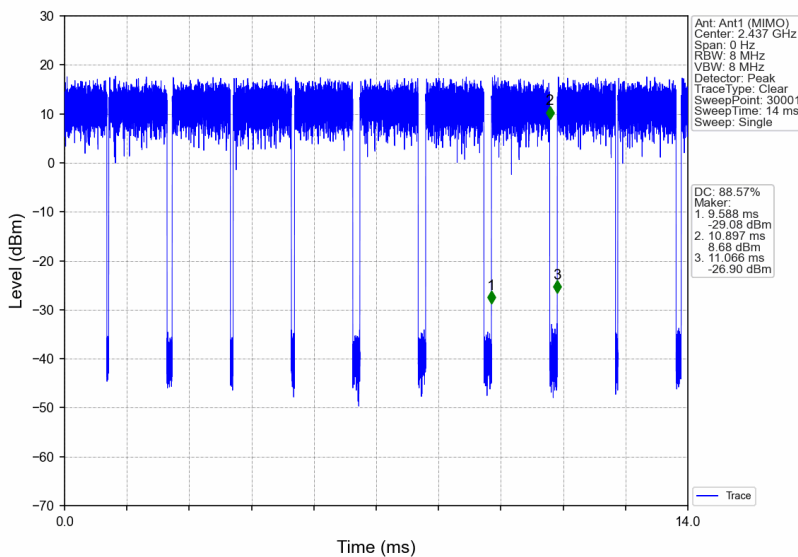
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO) NTN



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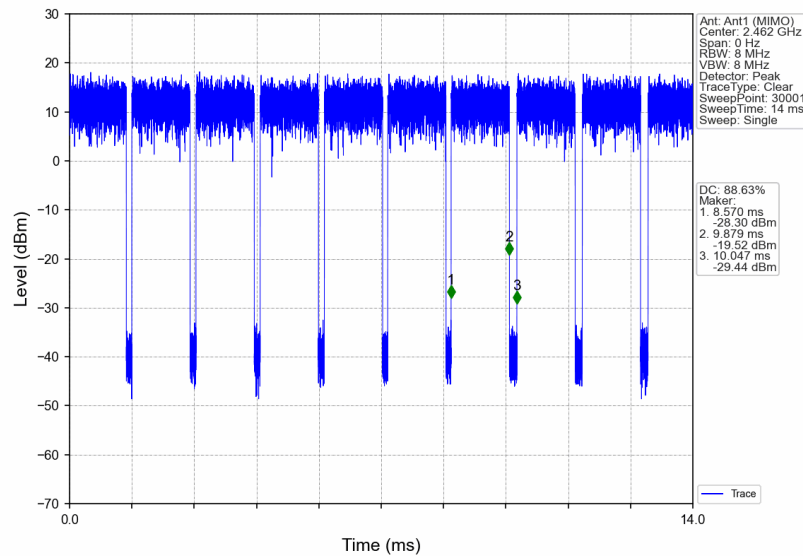
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|----------------|---------|-----------------|-----|------------------------------|---------|
| | | | | Result | |
| 802.11b | SISO | 2412 | 1 | 14.341 | Pass |
| | | | 2 | 14.197 | Pass |
| | | 2437 | 1 | 14.339 | Pass |
| | | | 2 | 14.177 | Pass |
| | | 2462 | 1 | 14.336 | Pass |
| | | | 2 | 14.205 | Pass |
| 802.11g | SISO | 2412 | 1 | 17.521 | Pass |
| | | | 2 | 17.551 | Pass |
| | | 2437 | 1 | 17.516 | Pass |
| | | | 2 | 17.516 | Pass |
| | | 2462 | 1 | 17.517 | Pass |
| | | | 2 | 17.542 | Pass |
| 802.11n (HT20) | MIMO | 2412 | 1 | 17.993 | Pass |
| | | | 2 | 17.679 | Pass |
| | | 2437 | 1 | 18.001 | Pass |
| | | | 2 | 17.677 | Pass |
| | | 2462 | 1 | 17.970 | Pass |
| | | | 2 | 17.699 | Pass |



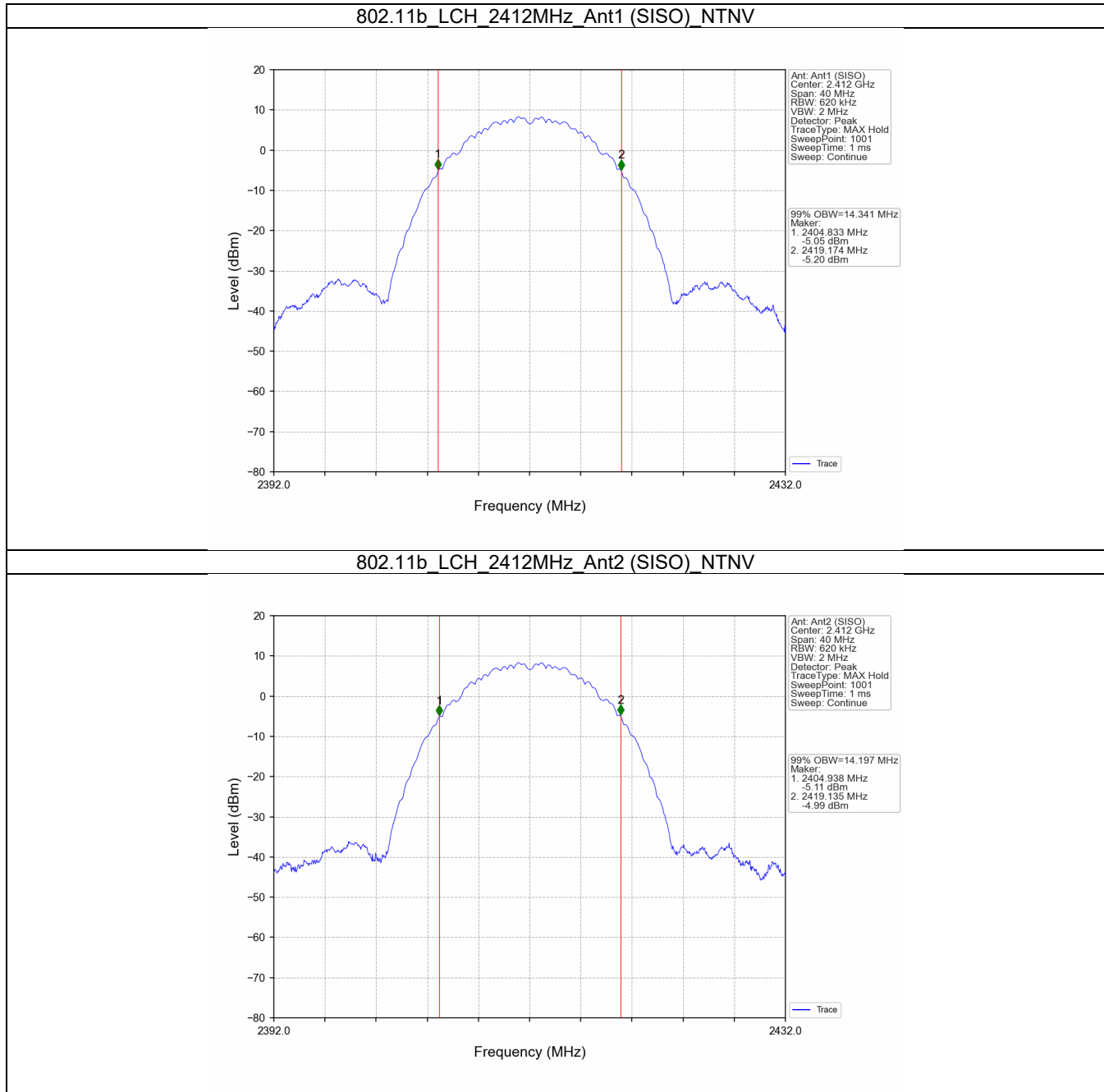
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2.1.2 Test Graph



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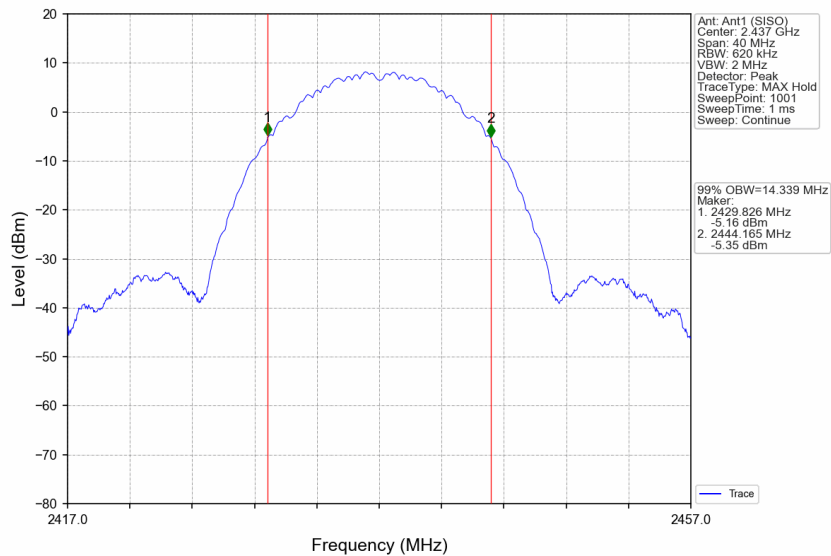
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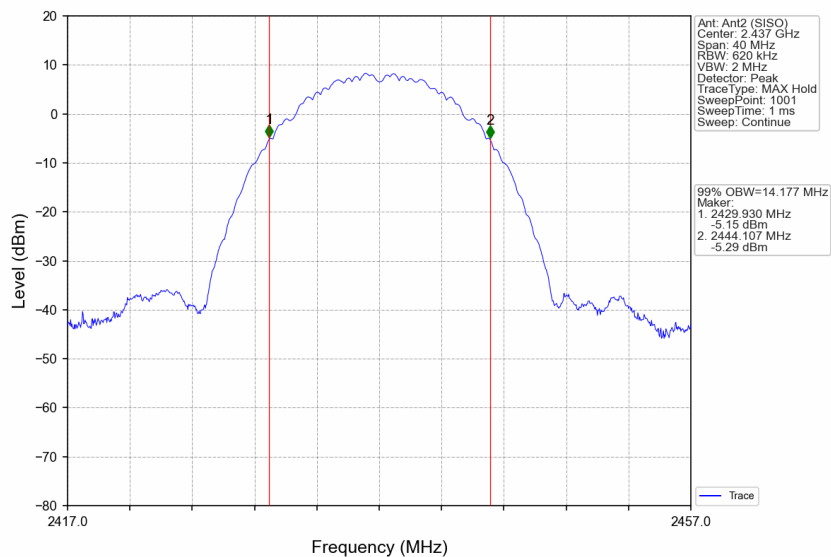
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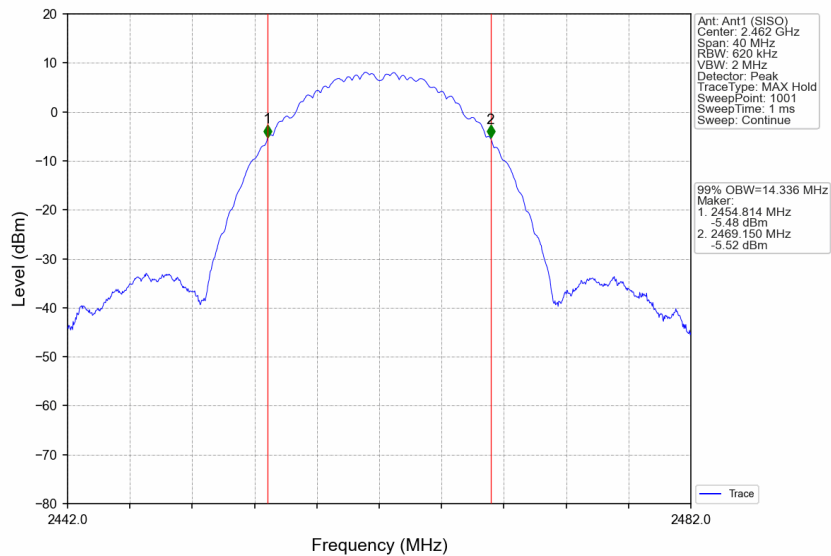
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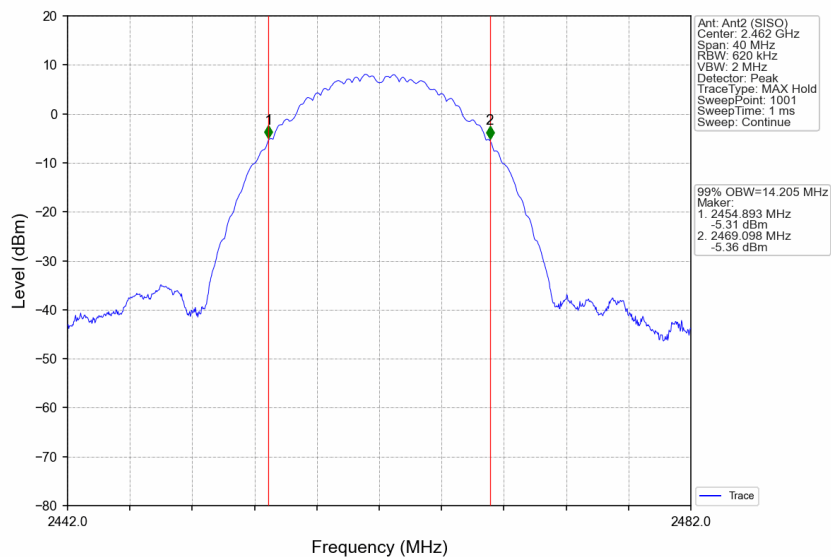
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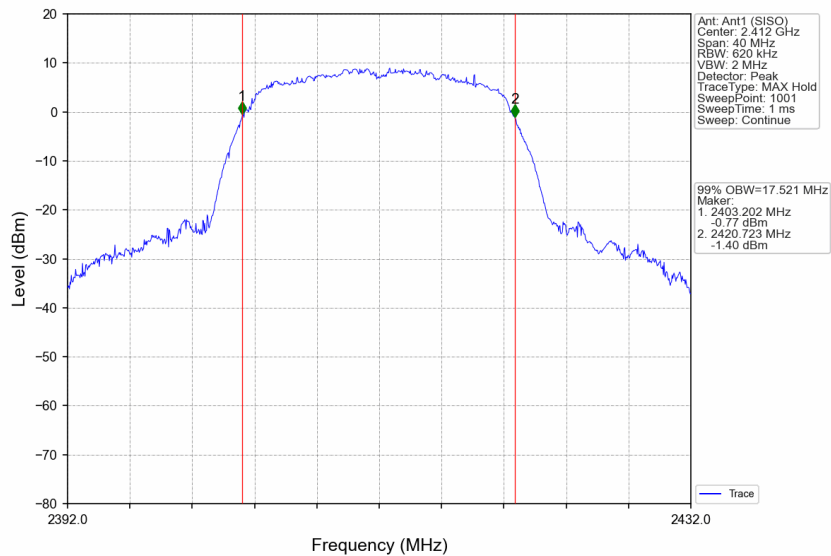
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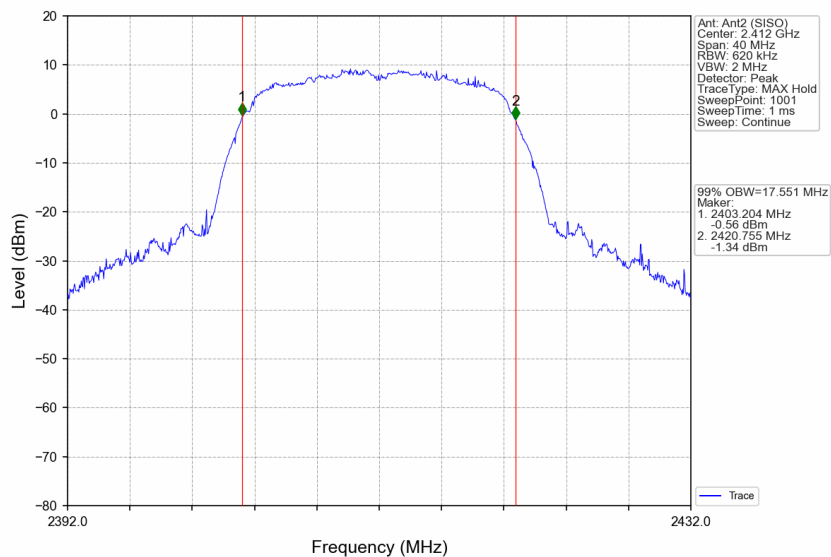
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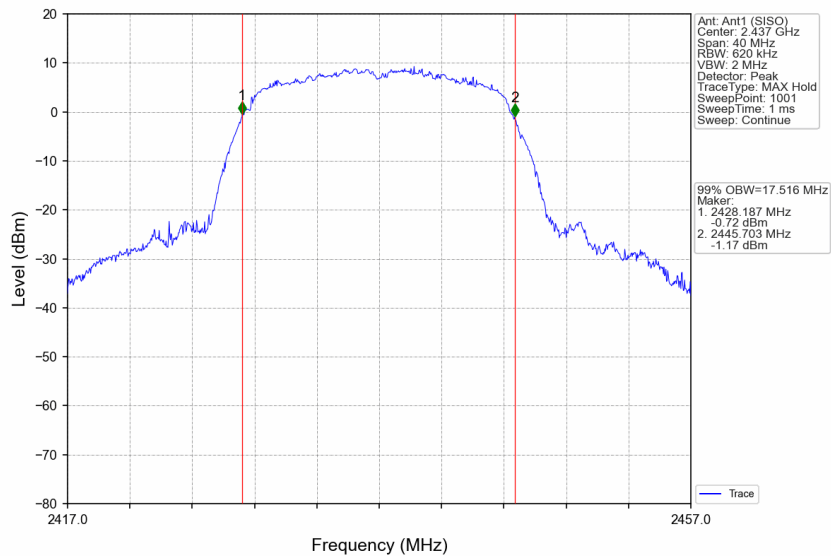
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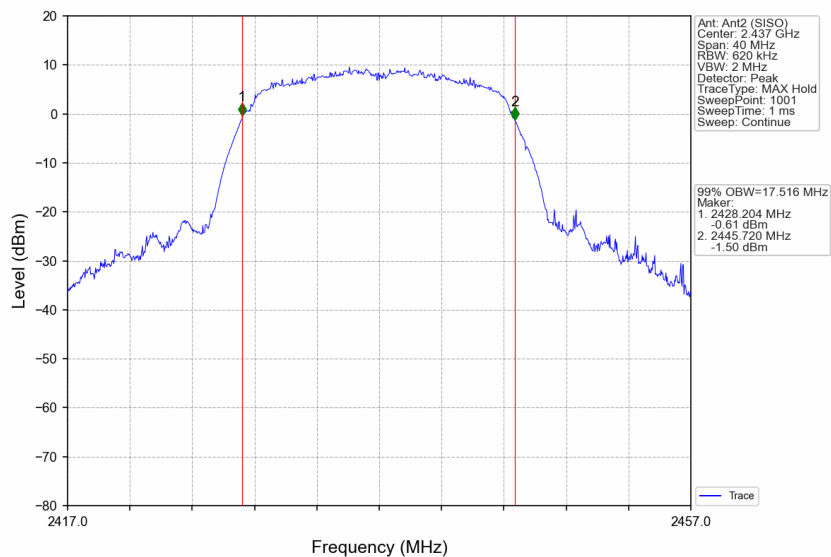
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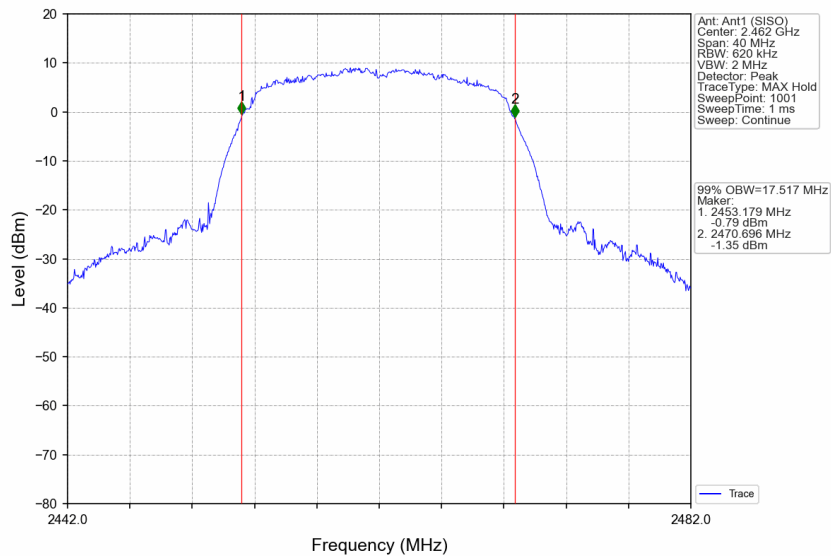
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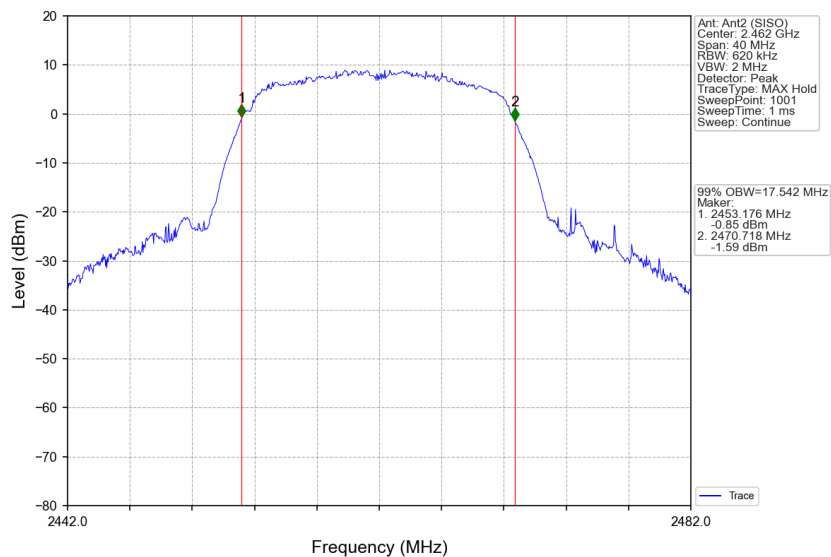
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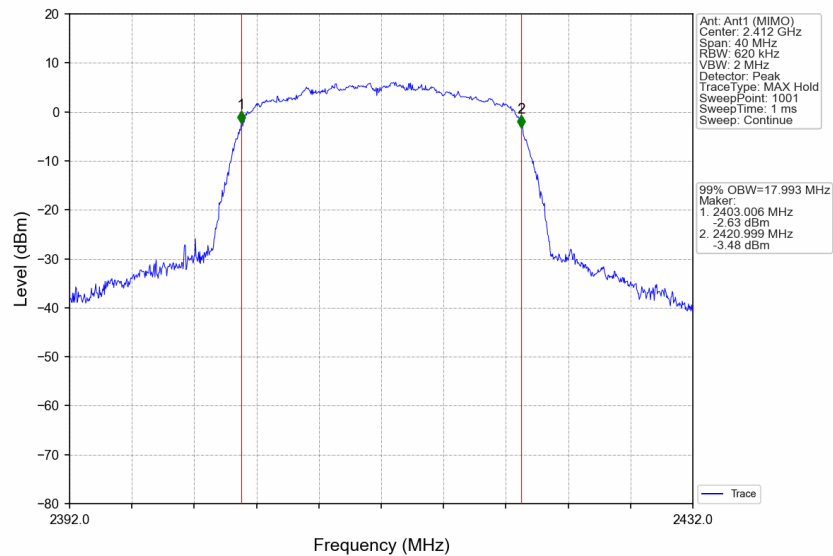
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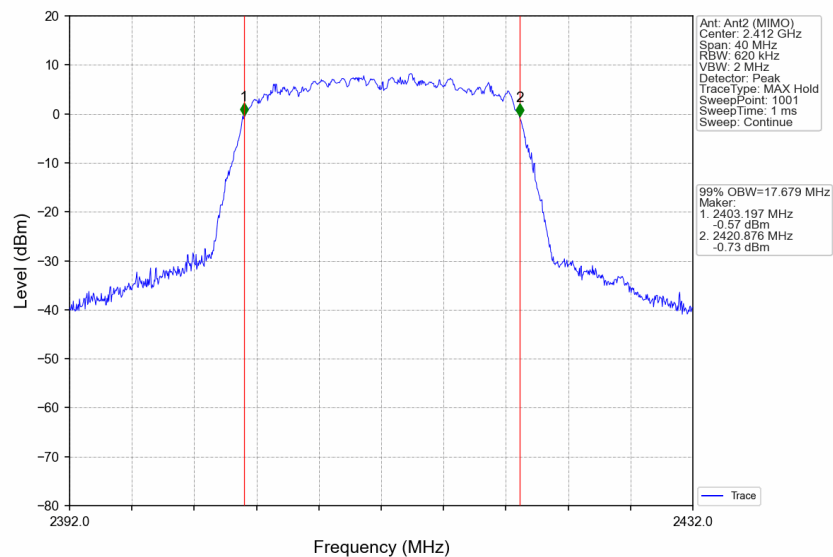
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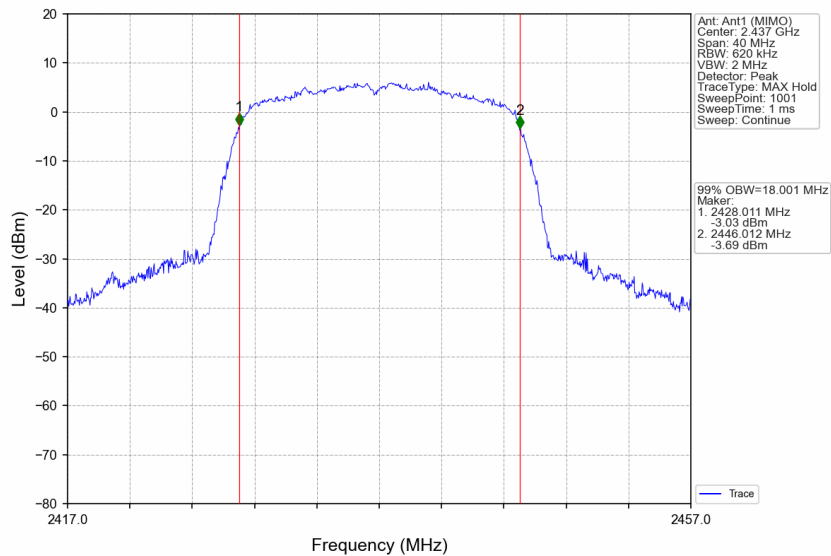
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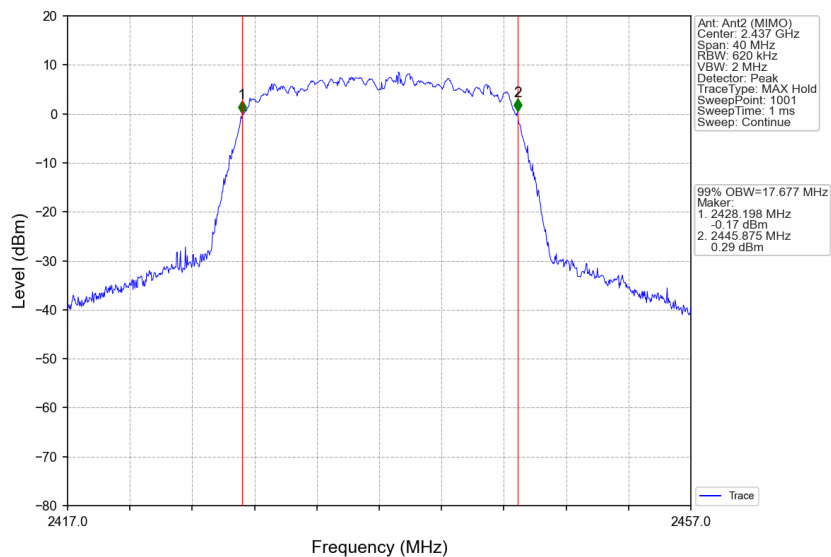
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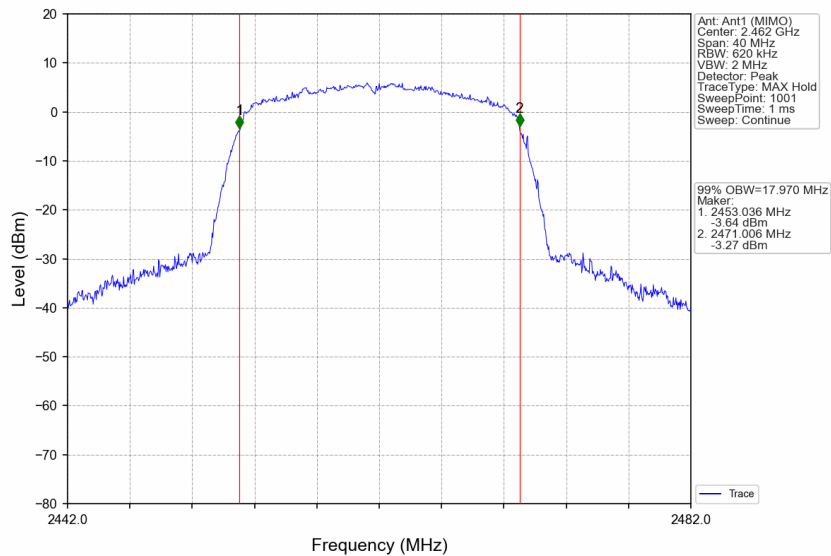
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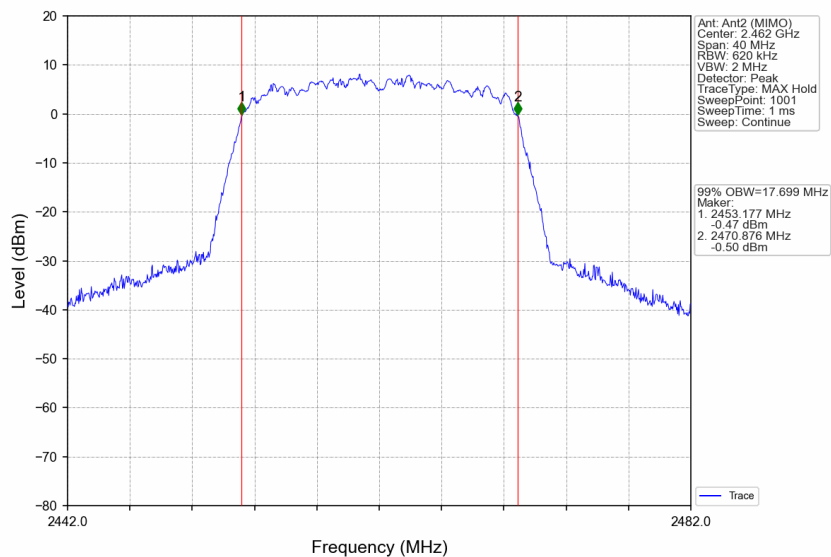
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2.2 6dB BW

2.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
| | | | | Result | Limit | |
| 802.11b | SISO | 2412 | 1 | 10.059 | ≥ 0.5 | Pass |
| | | | 2 | 10.052 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 10.058 | ≥ 0.5 | Pass |
| | | | 2 | 10.051 | ≥ 0.5 | Pass |
| | | 2462 | 1 | 10.057 | ≥ 0.5 | Pass |
| | | | 2 | 10.049 | ≥ 0.5 | Pass |
| 802.11g | SISO | 2412 | 1 | 15.139 | ≥ 0.5 | Pass |
| | | | 2 | 15.128 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 15.146 | ≥ 0.5 | Pass |
| | | | 2 | 15.143 | ≥ 0.5 | Pass |
| | | 2462 | 1 | 15.142 | ≥ 0.5 | Pass |
| | | | 2 | 15.109 | ≥ 0.5 | Pass |
| 802.11n (HT20) | MIMO | 2412 | 1 | 15.128 | ≥ 0.5 | Pass |
| | | | 2 | 15.150 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 15.130 | ≥ 0.5 | Pass |
| | | | 2 | 15.140 | ≥ 0.5 | Pass |
| | | 2462 | 1 | 15.125 | ≥ 0.5 | Pass |
| | | | 2 | 15.147 | ≥ 0.5 | Pass |



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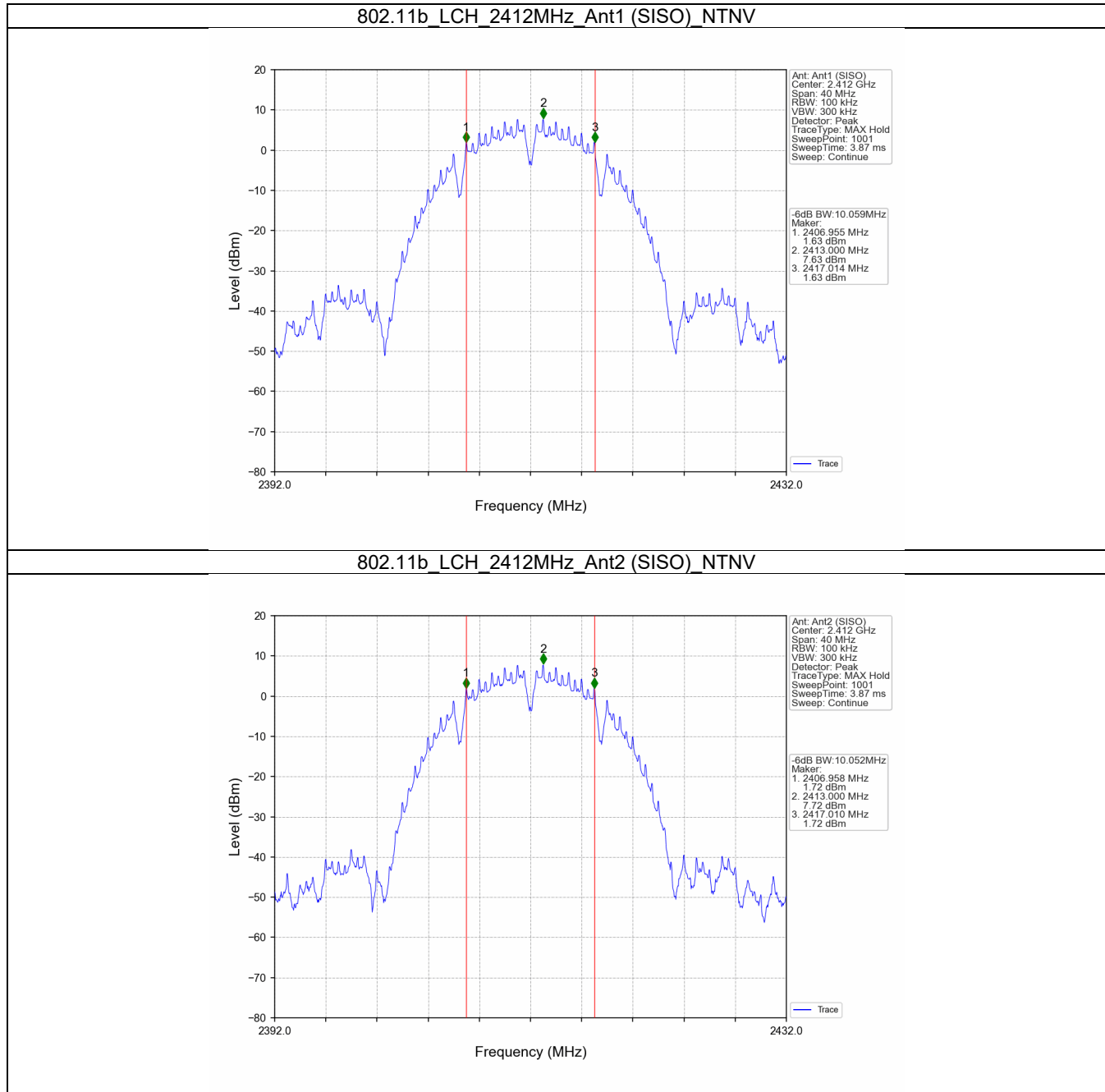
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2.2.2 Test Graph



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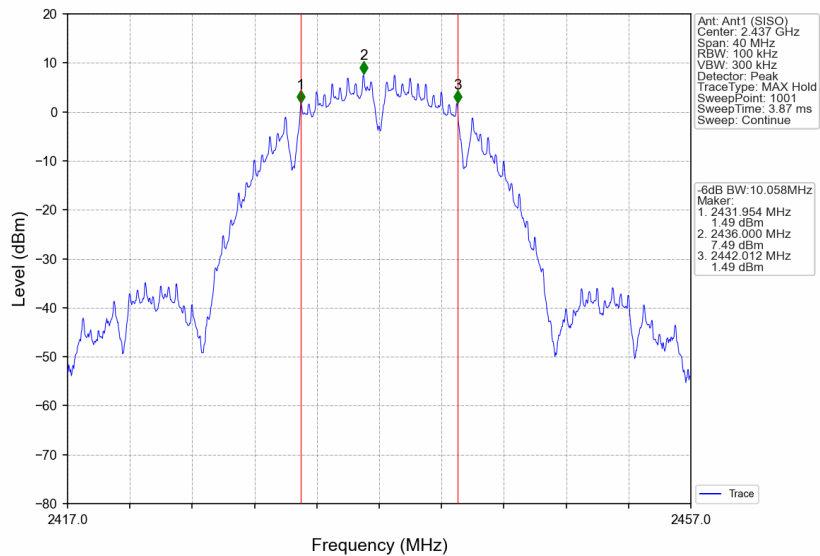
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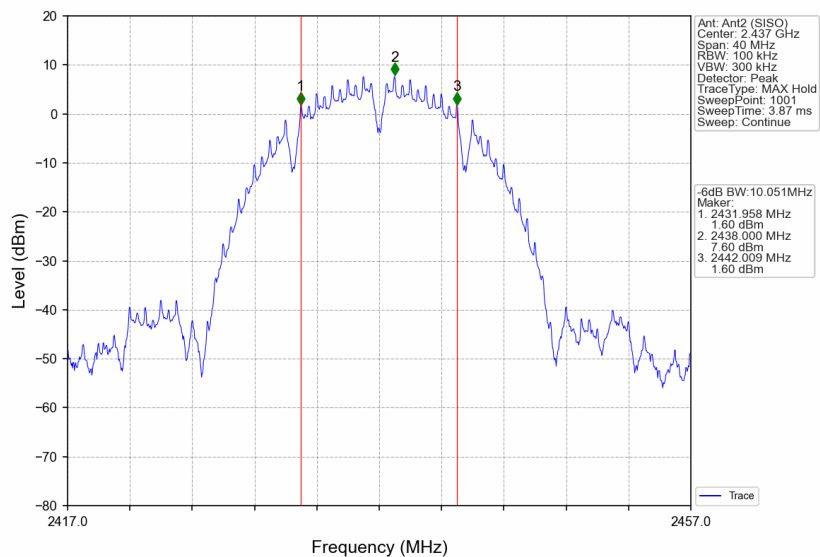
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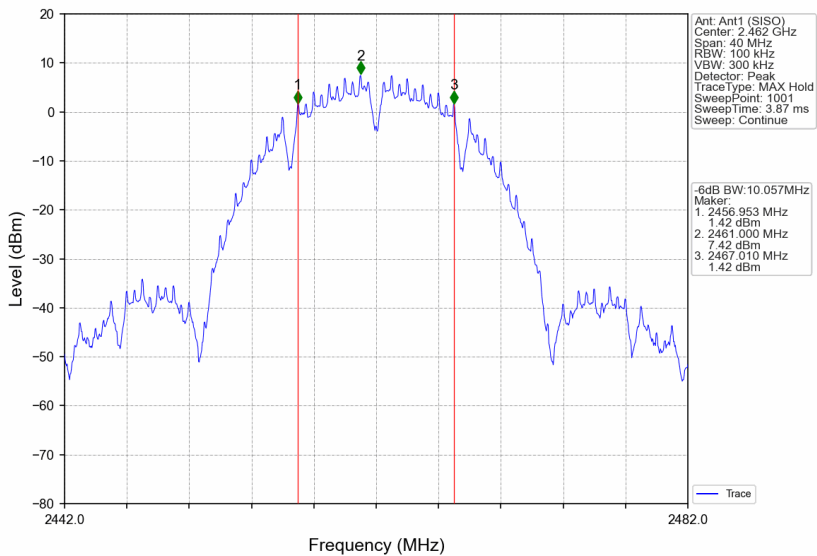
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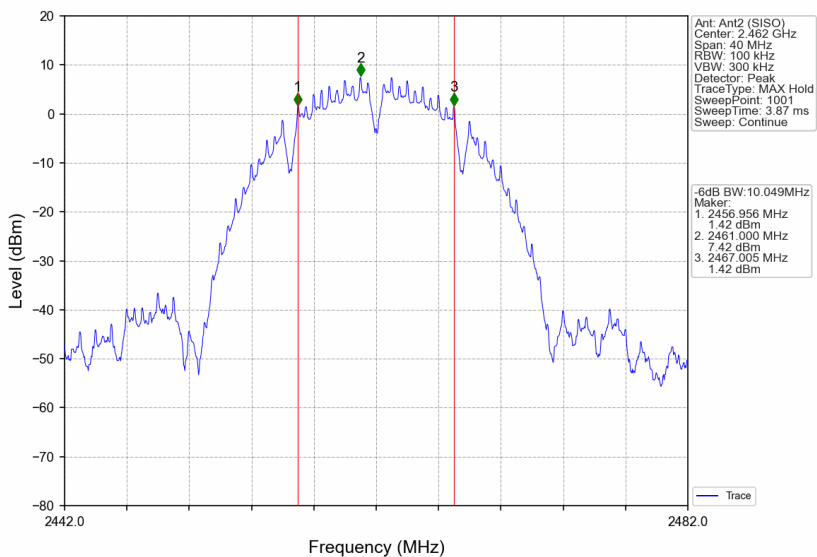
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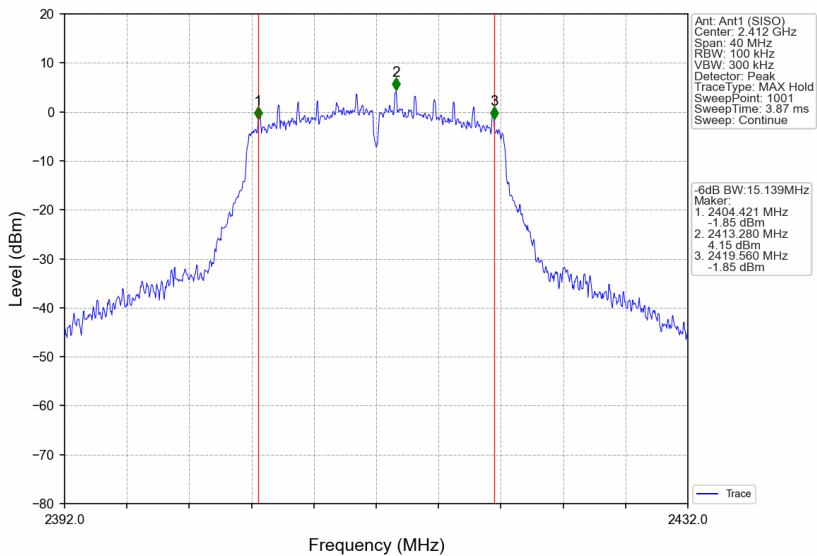
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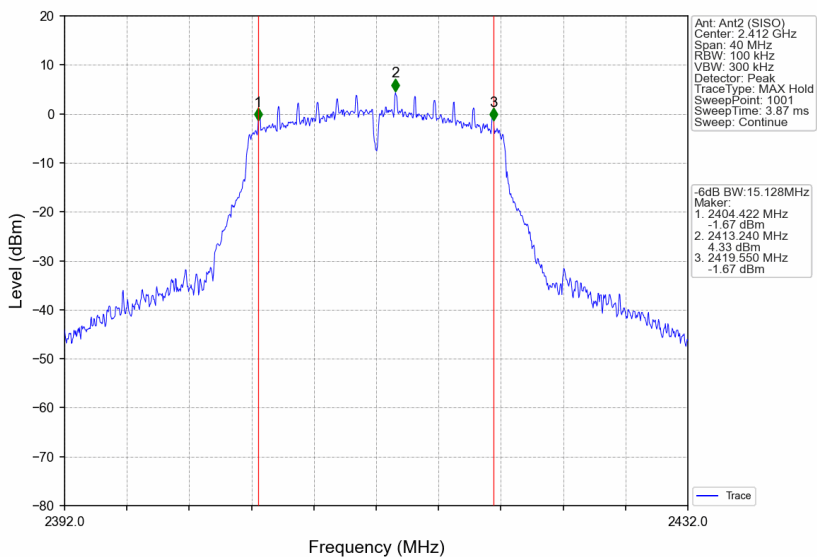
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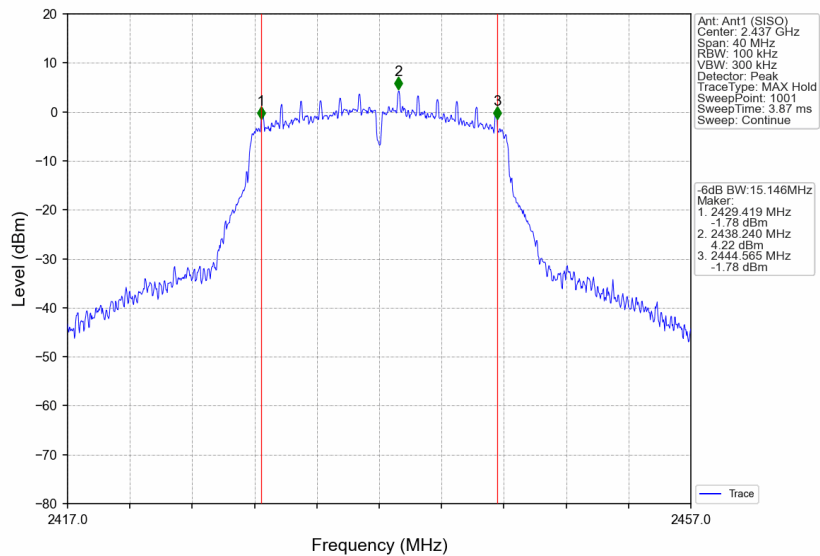
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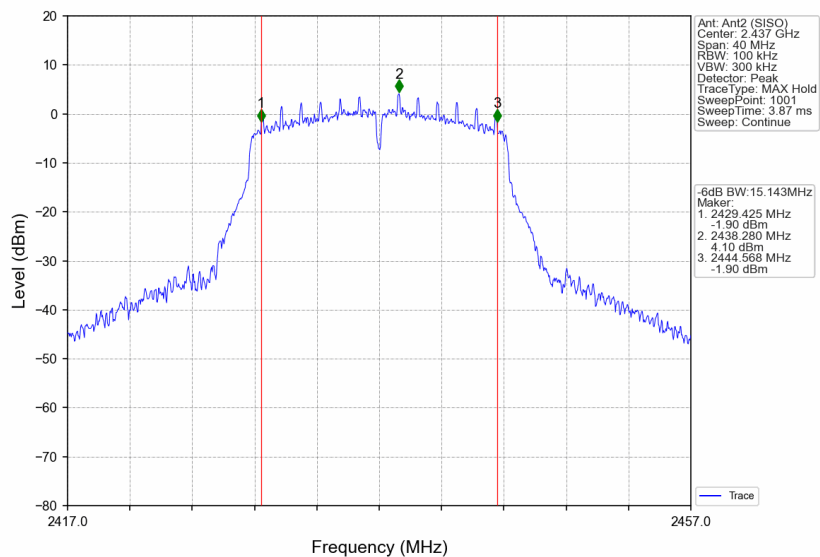
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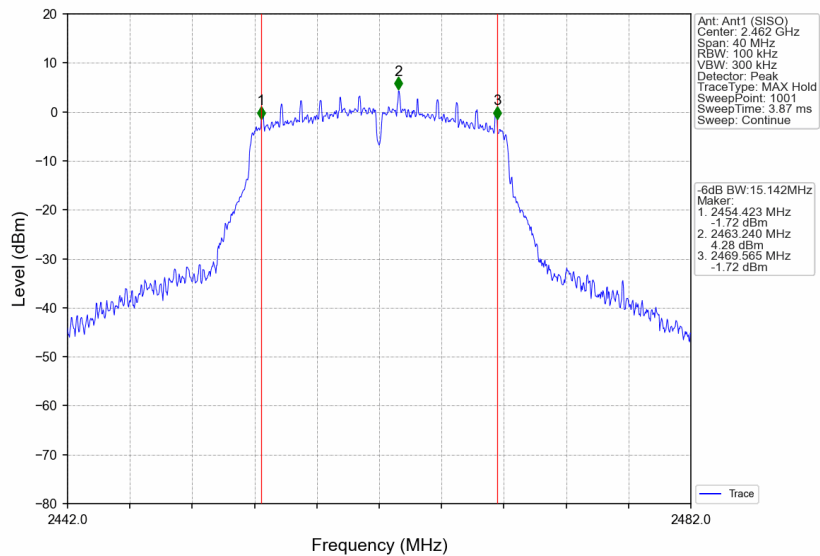
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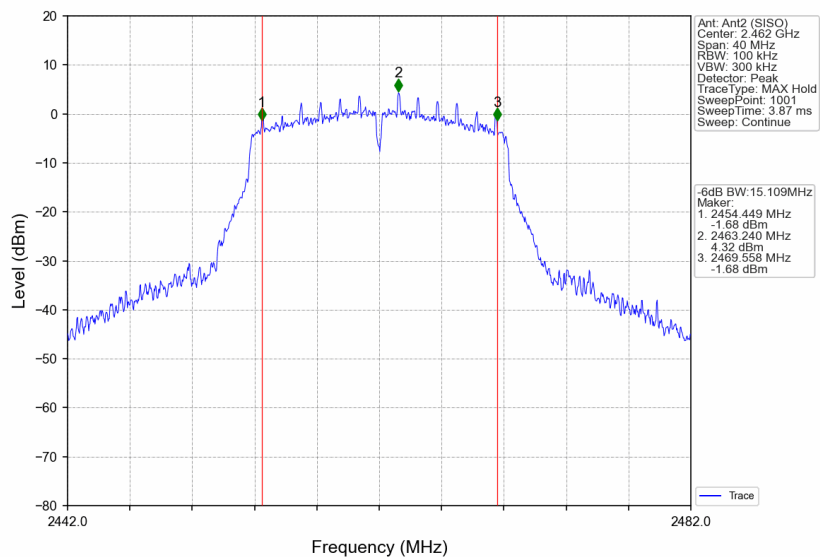
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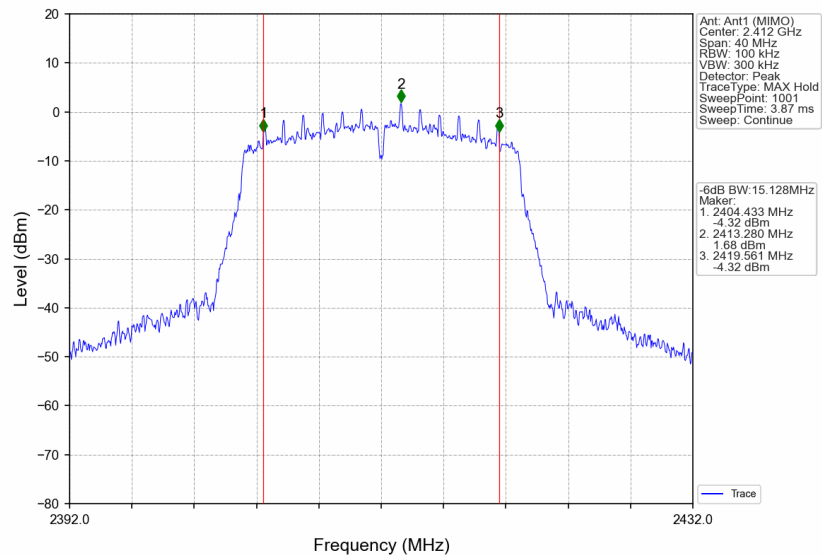
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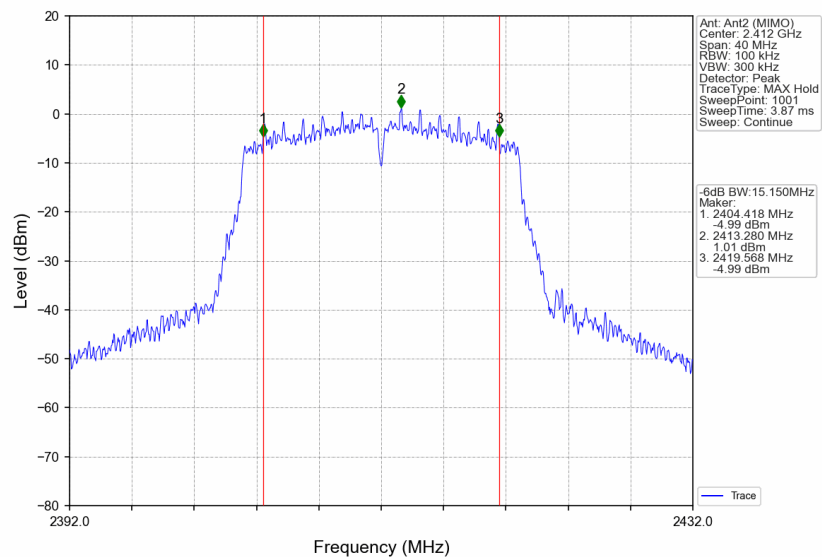
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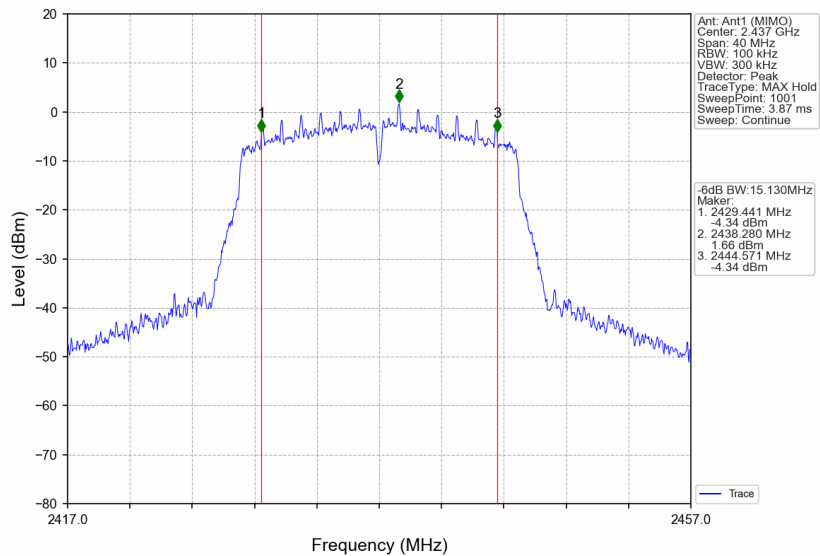
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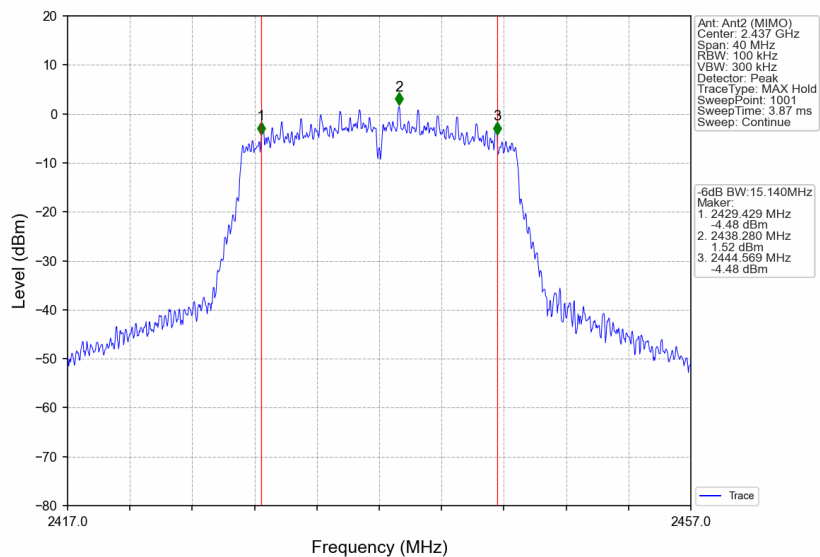
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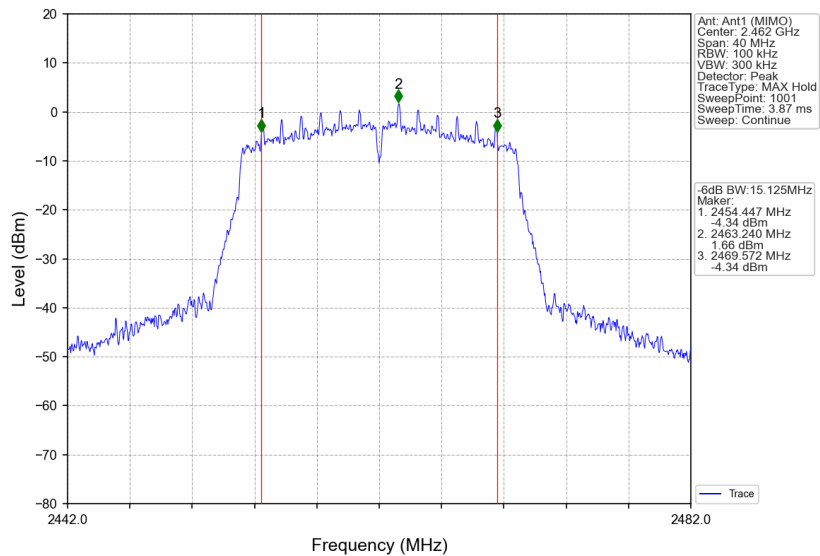
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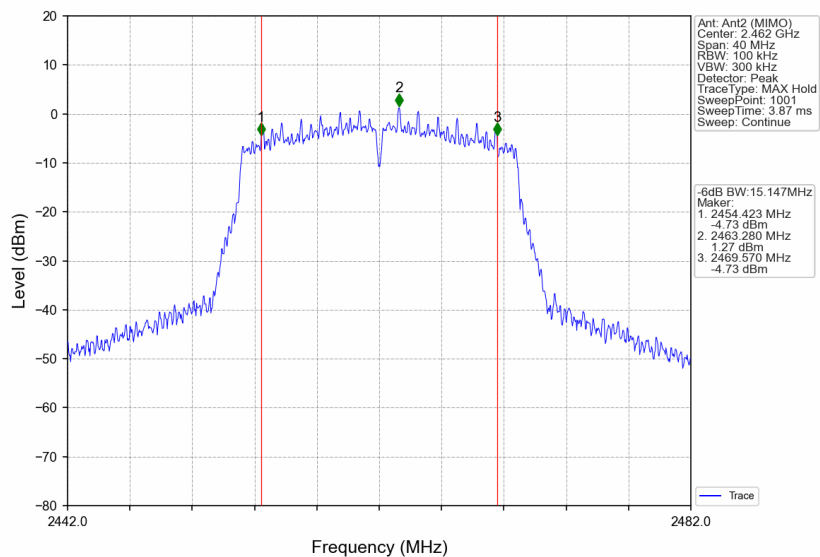
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|----------------|---------|-----------------|--|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| 802.11b | SISO | 2412 | 16.11 | 16.16 | / | <=30 | Pass |
| | | 2437 | 15.95 | 16.08 | / | <=30 | Pass |
| | | 2462 | 15.93 | 15.89 | / | <=30 | Pass |
| 802.11g | SISO | 2412 | 13.99 | 14.17 | / | <=30 | Pass |
| | | 2437 | 14.00 | 14.11 | / | <=30 | Pass |
| | | 2462 | 14.05 | 14.02 | / | <=30 | Pass |
| 802.11n (HT20) | MIMO | 2412 | 11.02 | 11.36 | 14.20 | <=30 | Pass |
| | | 2437 | 11.04 | 11.28 | 14.17 | <=30 | Pass |
| | | 2462 | 11.03 | 11.07 | 14.06 | <=30 | Pass |

Note1: Antenna Gain: Ant1: 3.44dBi; Ant2: 2.50dBi;
Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)



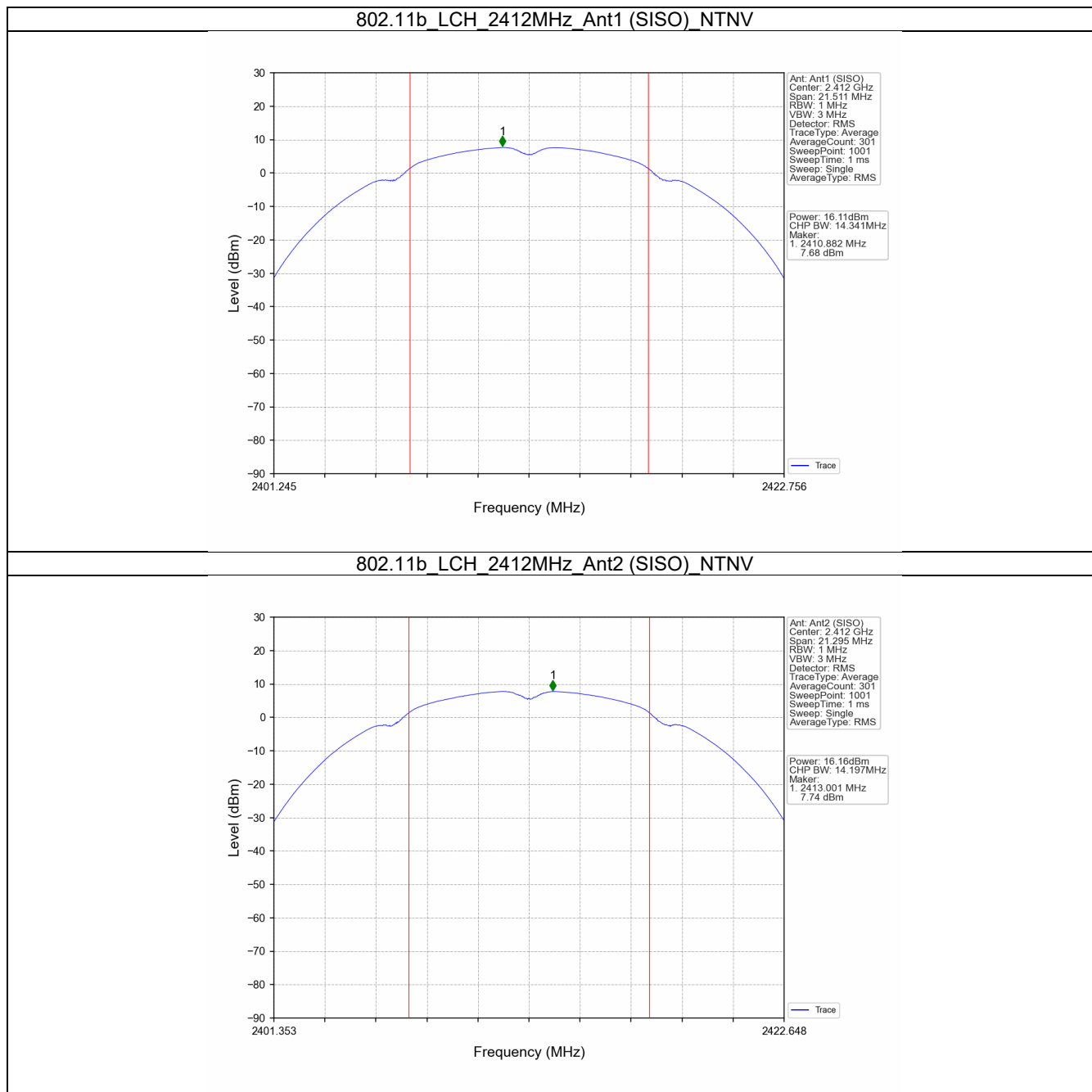
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3.1.2 Test Graph



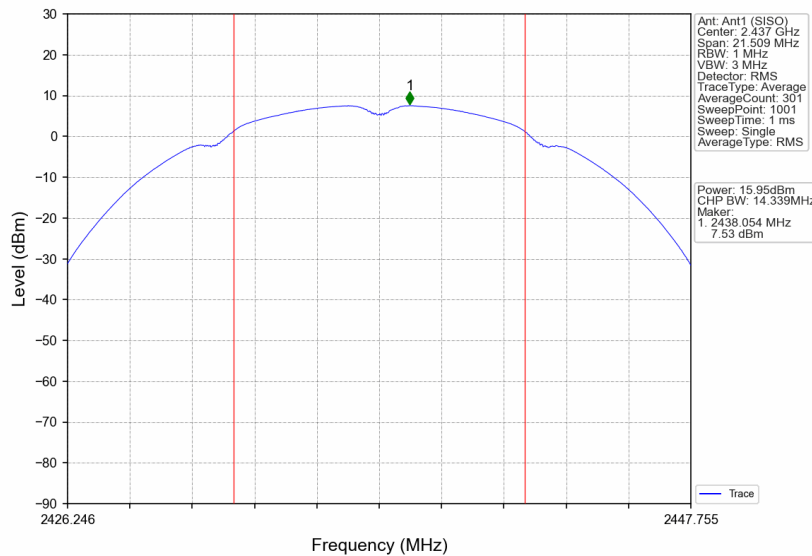
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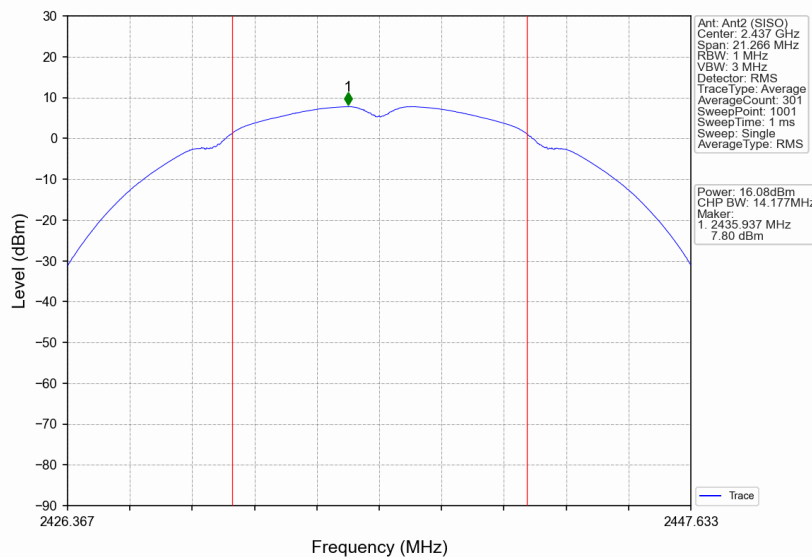
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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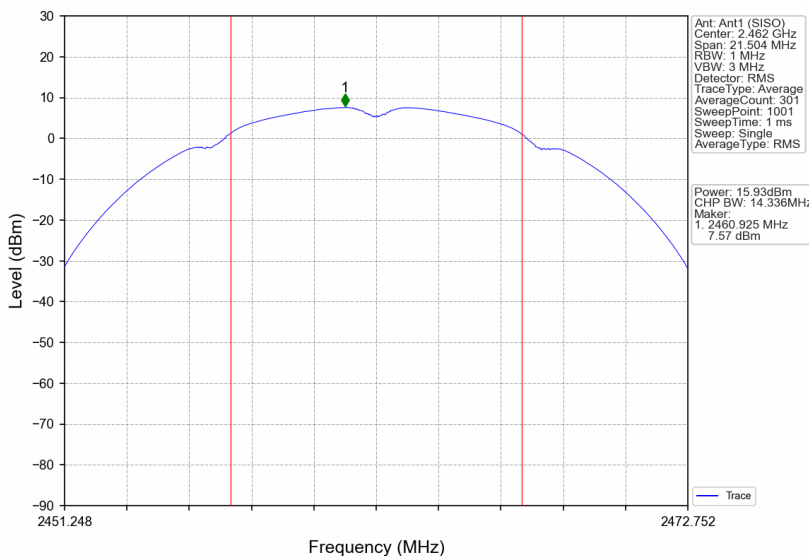
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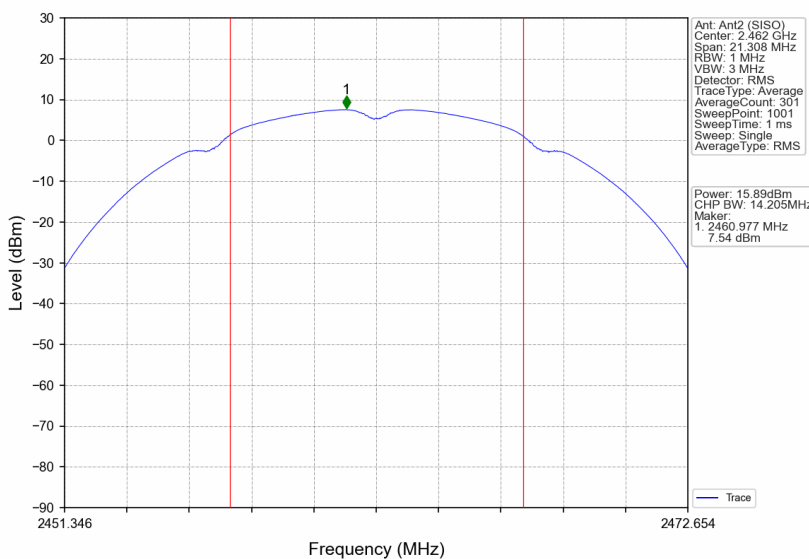
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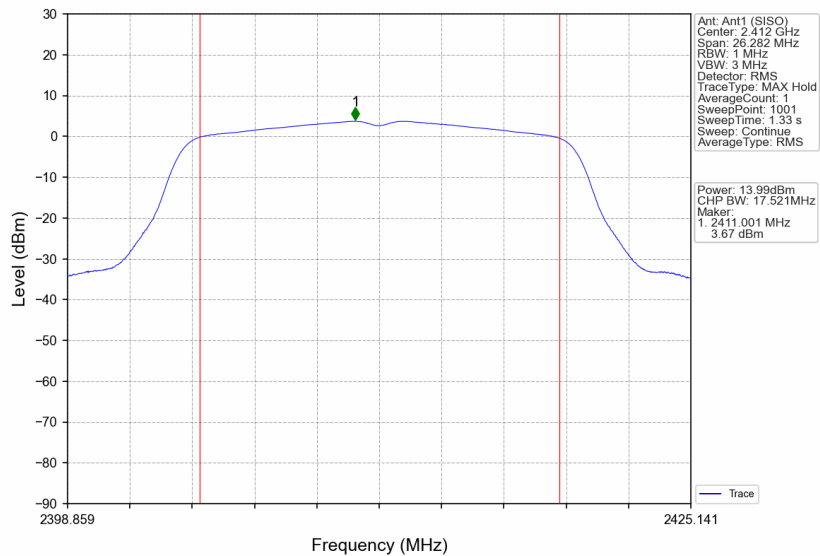
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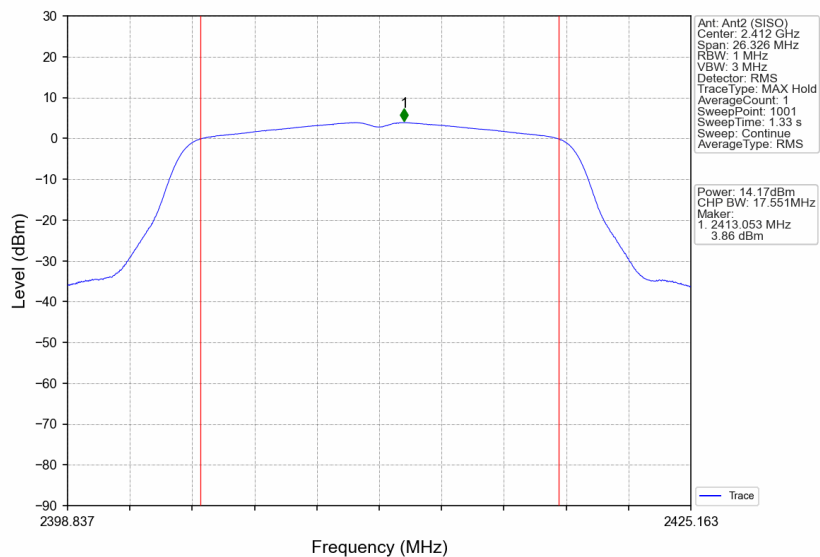
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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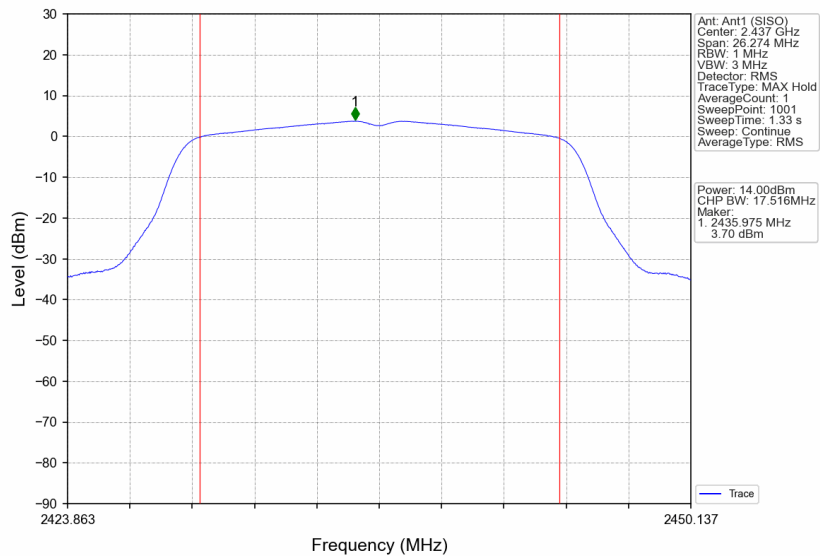
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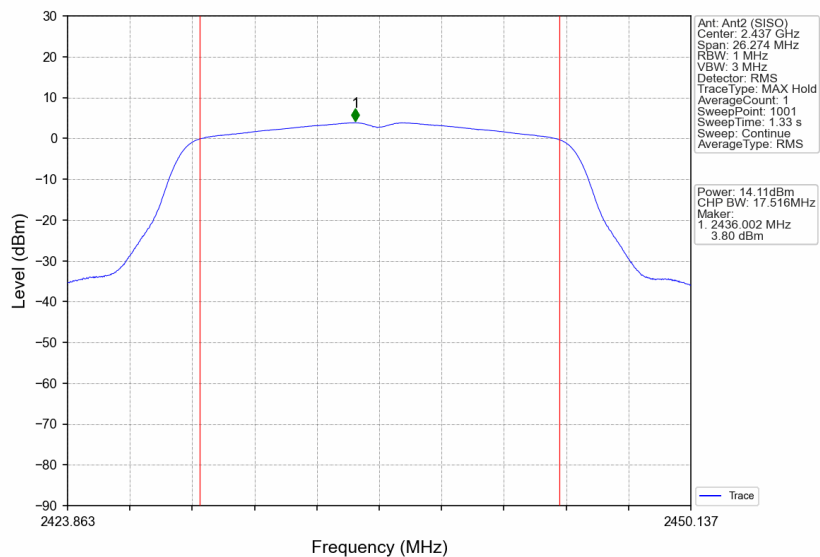
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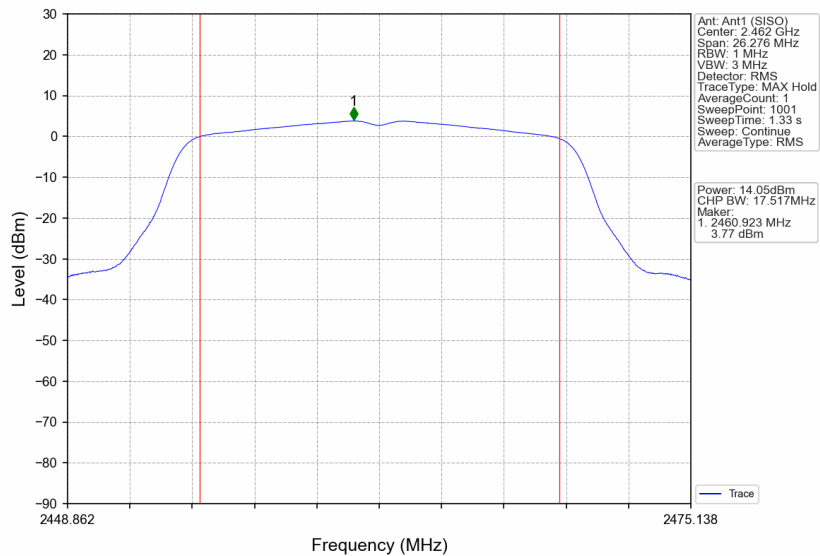
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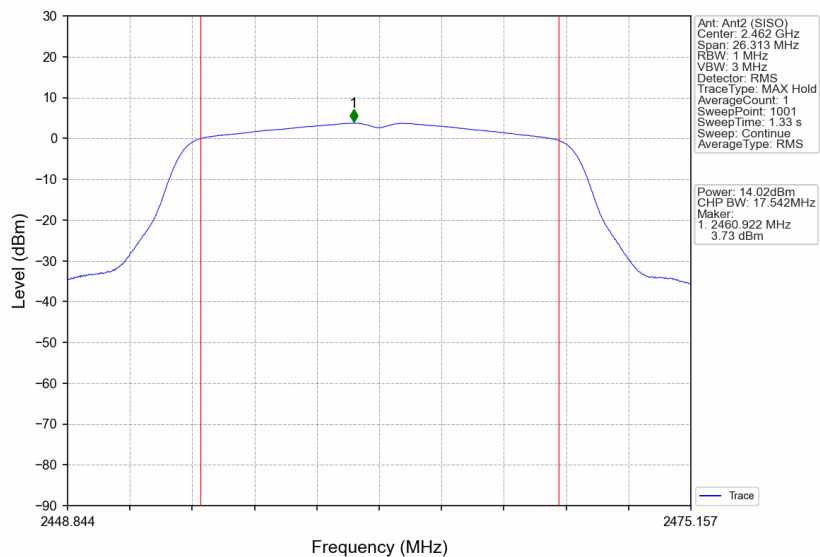
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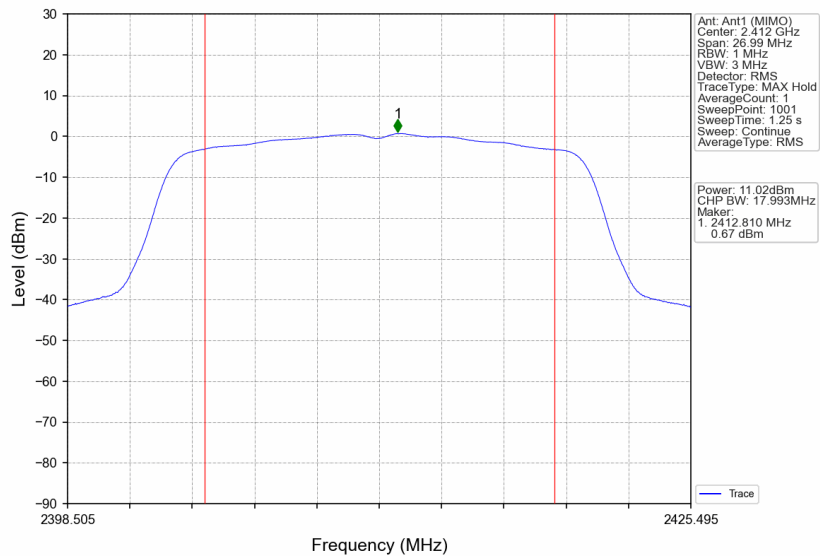
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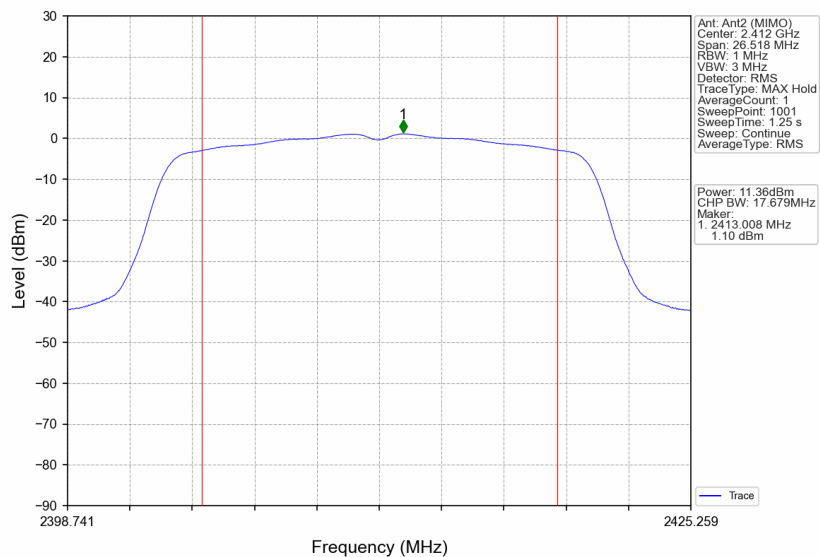
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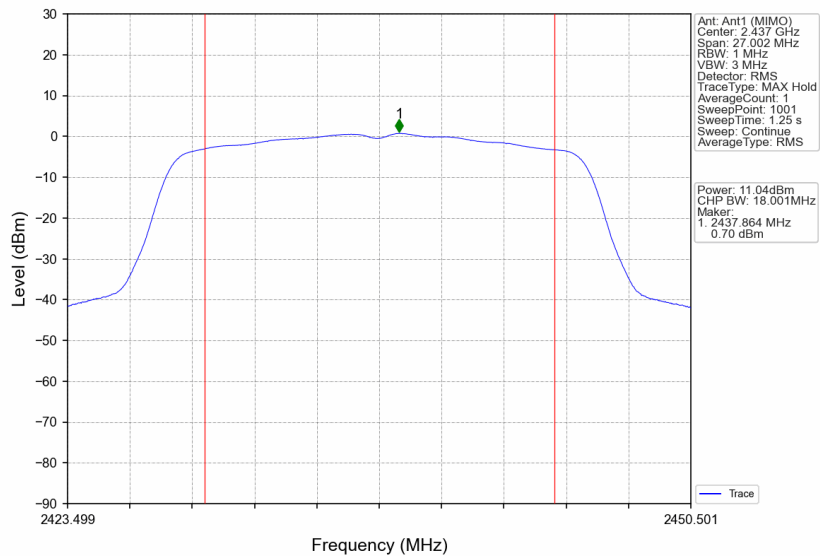
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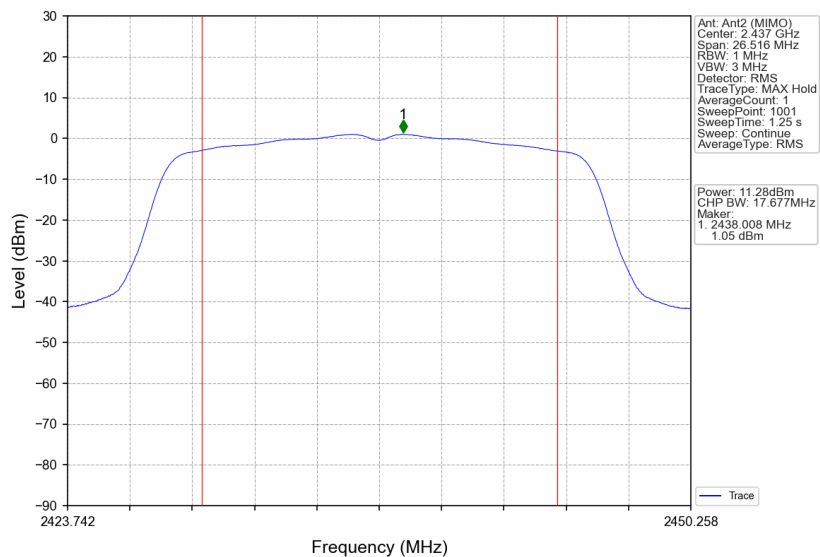
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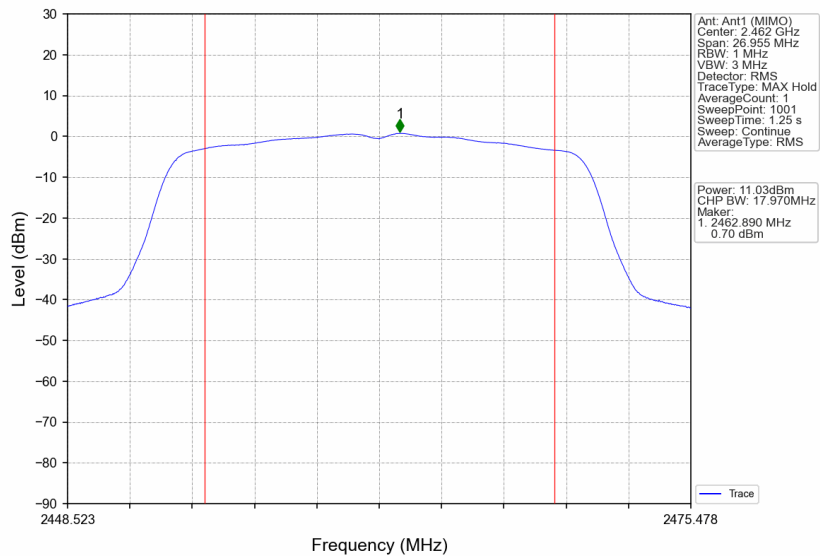
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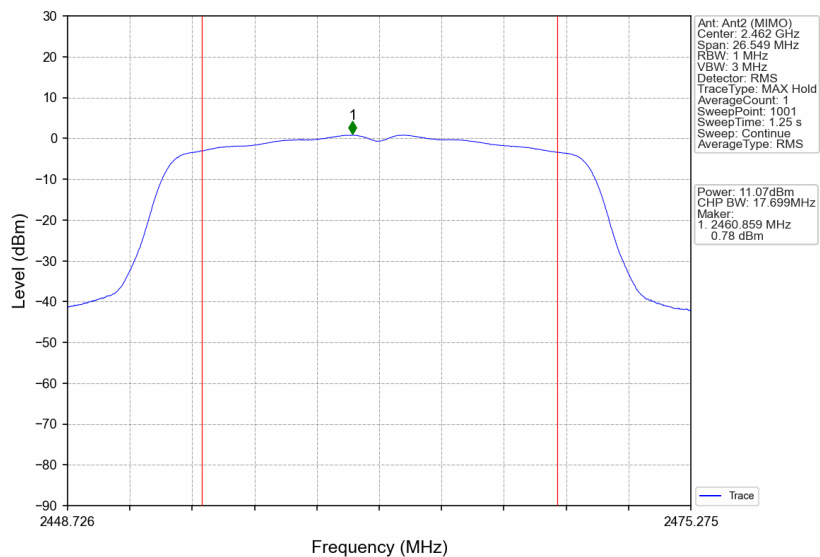
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) | | | | Verdict |
|----------------|---------|-----------------|------------------------|--------|--------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| 802.11b | SISO | 2412 | -7.58 | -7.59 | / | <=8 | Pass |
| | | 2437 | -8.56 | -8.30 | / | <=8 | Pass |
| | | 2462 | -7.57 | -6.53 | / | <=8 | Pass |
| 802.11g | SISO | 2412 | -11.95 | -11.46 | / | <=8 | Pass |
| | | 2437 | -11.20 | -12.23 | / | <=8 | Pass |
| | | 2462 | -11.88 | -12.33 | / | <=8 | Pass |
| 802.11n (HT20) | MIMO | 2412 | -11.77 | -14.42 | -10.20 | <=8 | Pass |
| | | 2437 | -15.10 | -14.67 | -12.46 | <=8 | Pass |
| | | 2462 | -14.75 | -14.70 | -11.88 | <=8 | Pass |

Note1: Antenna Gain: Ant1: 3.44dBi; Ant2: 2.50dBi;
Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)



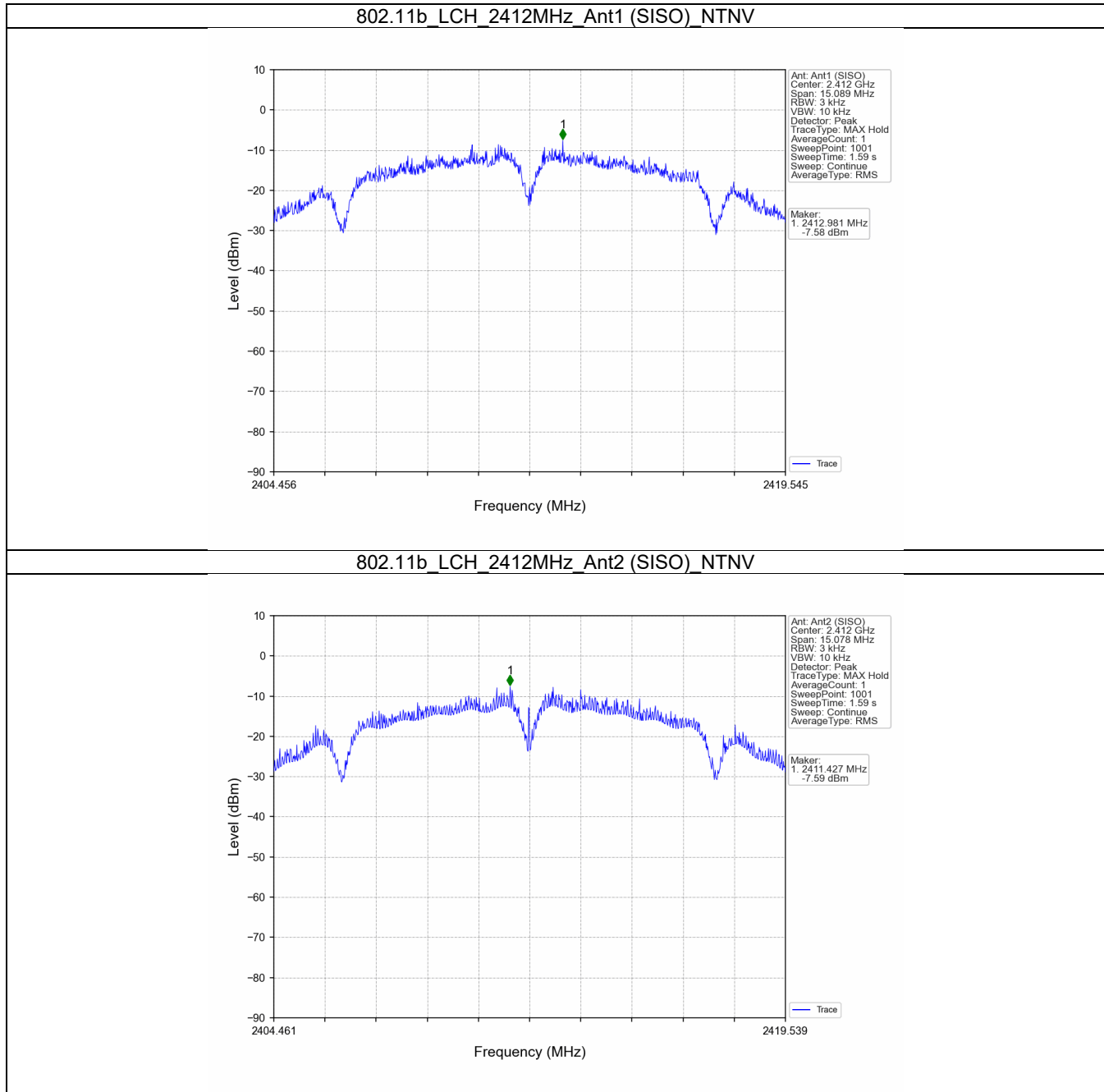
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4.1.2 Test Graph



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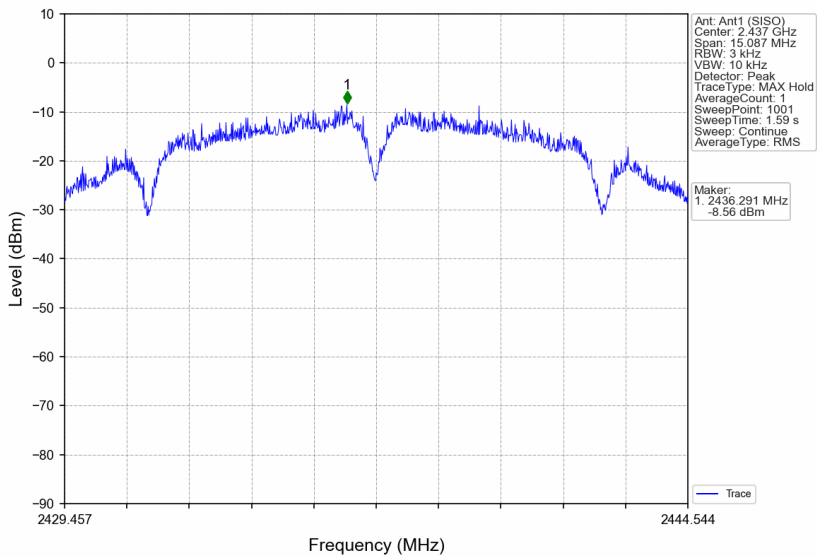
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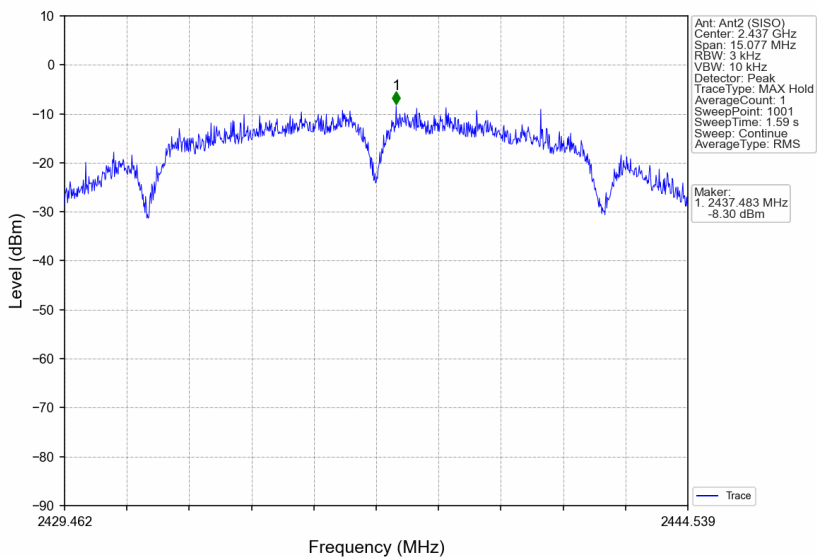
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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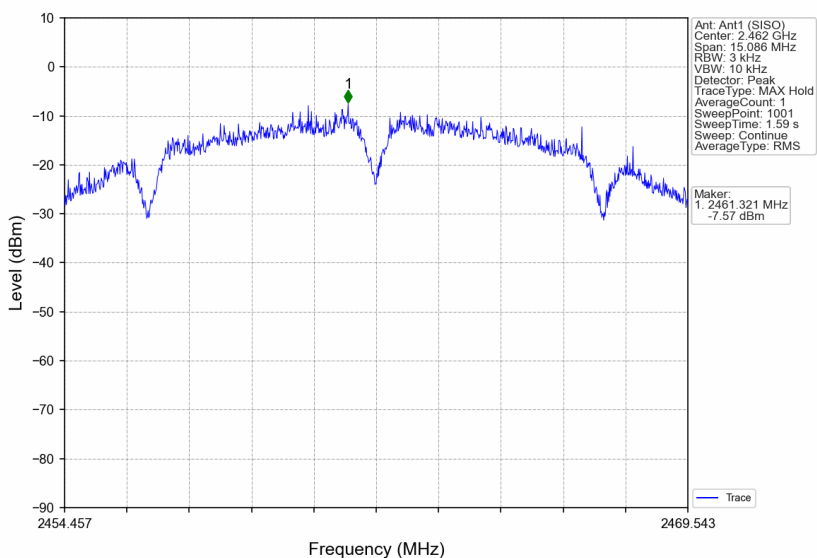
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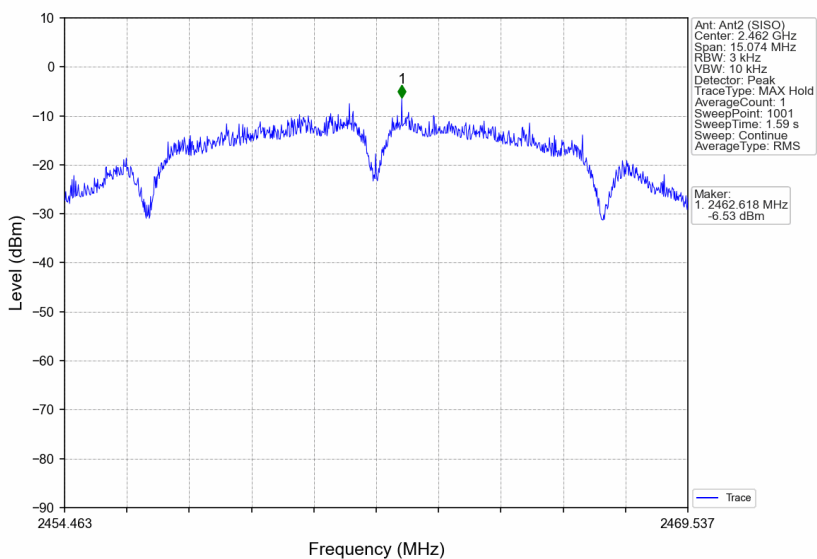
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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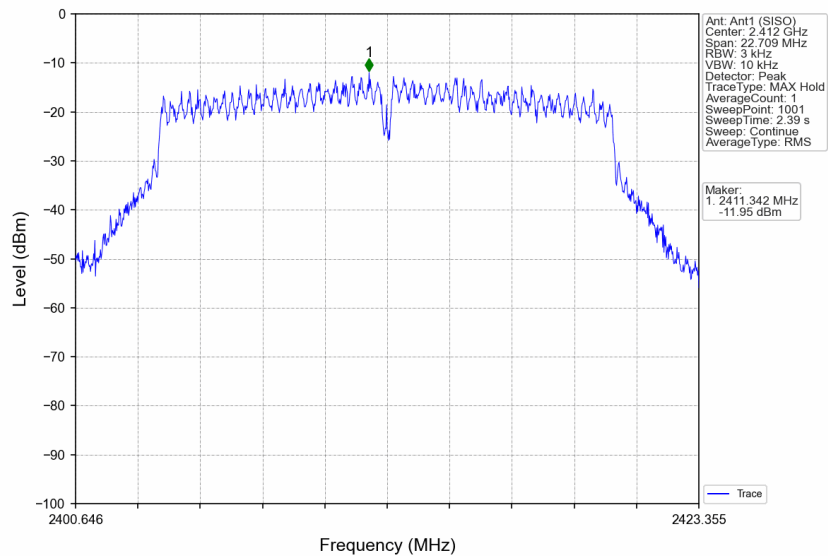
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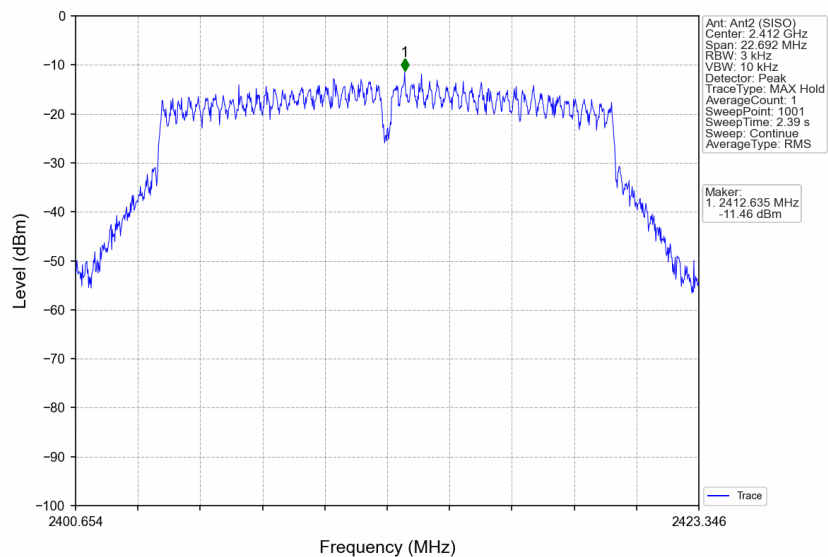
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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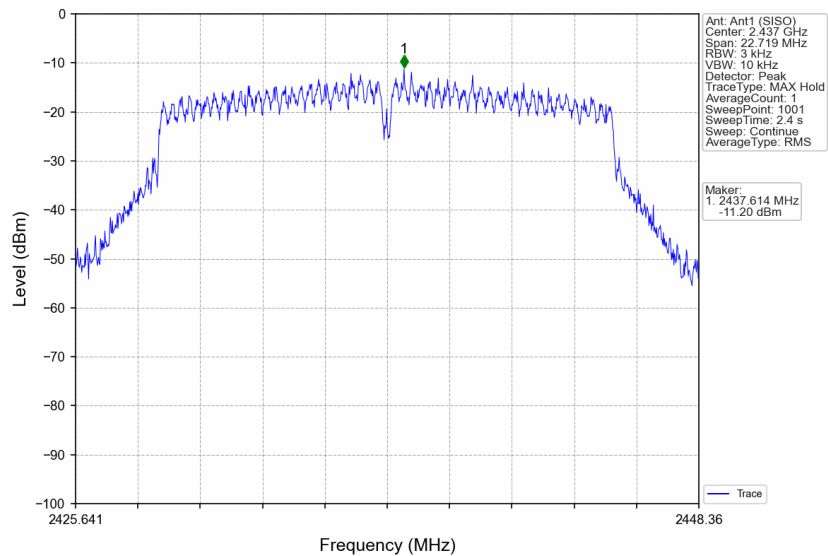
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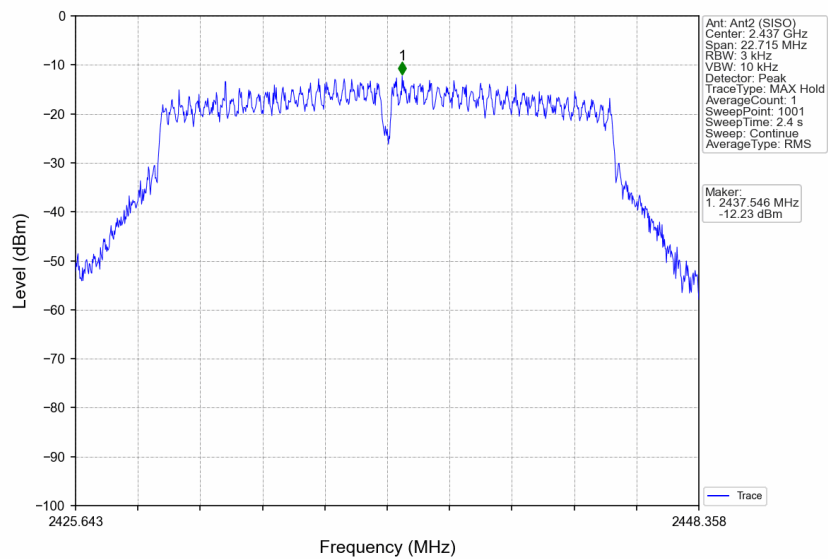
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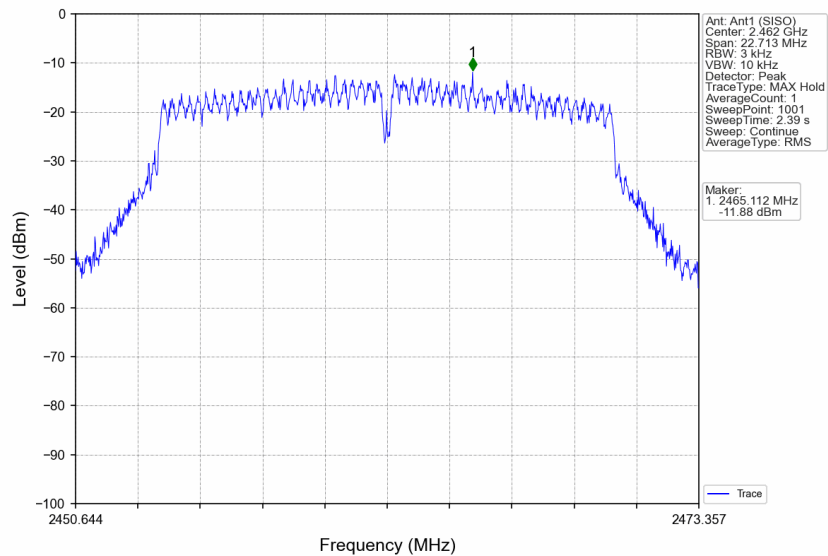
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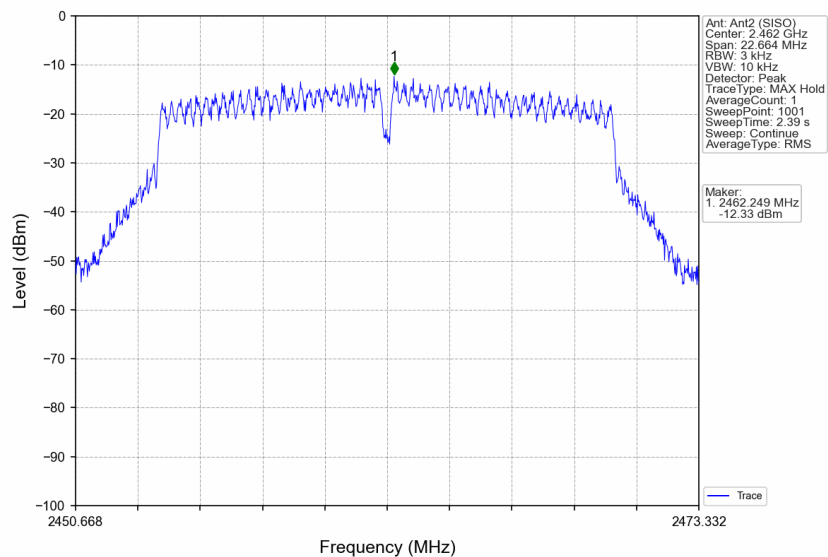
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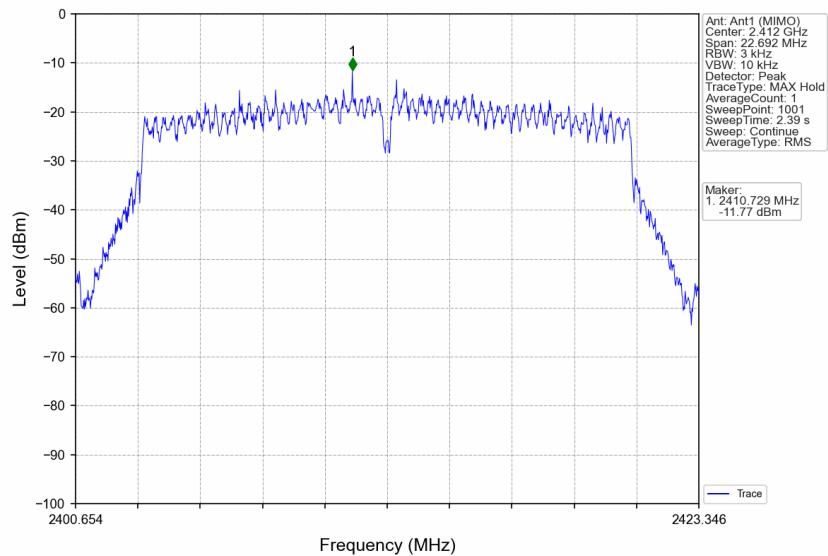
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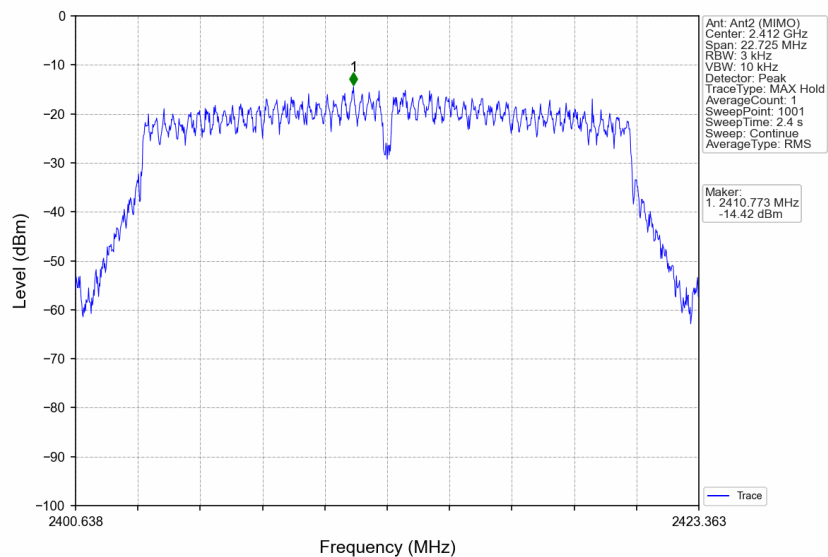
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTNV



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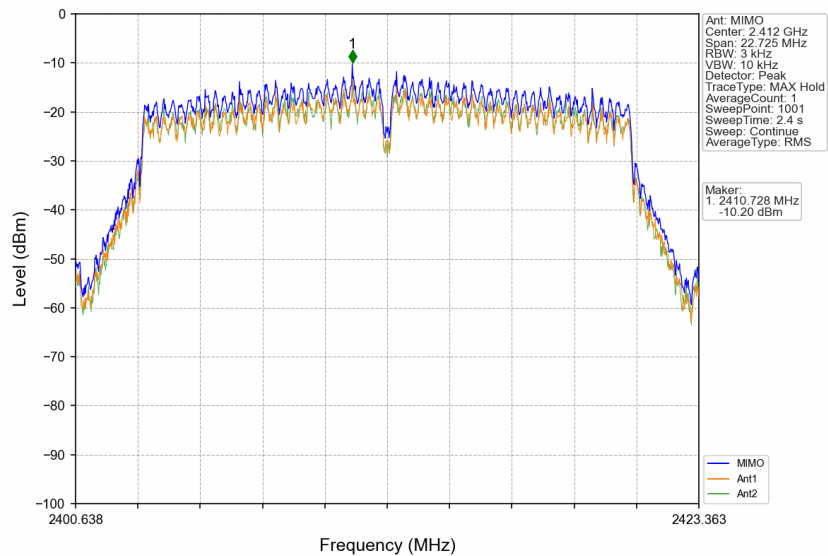
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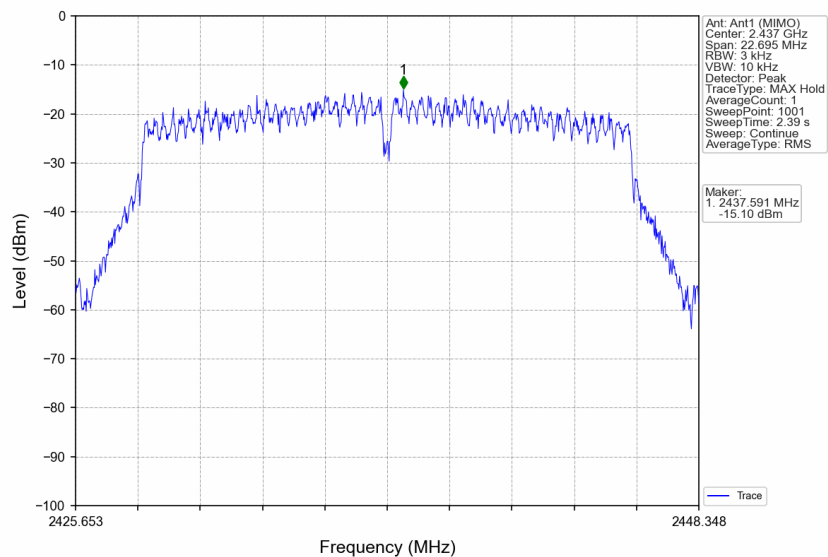
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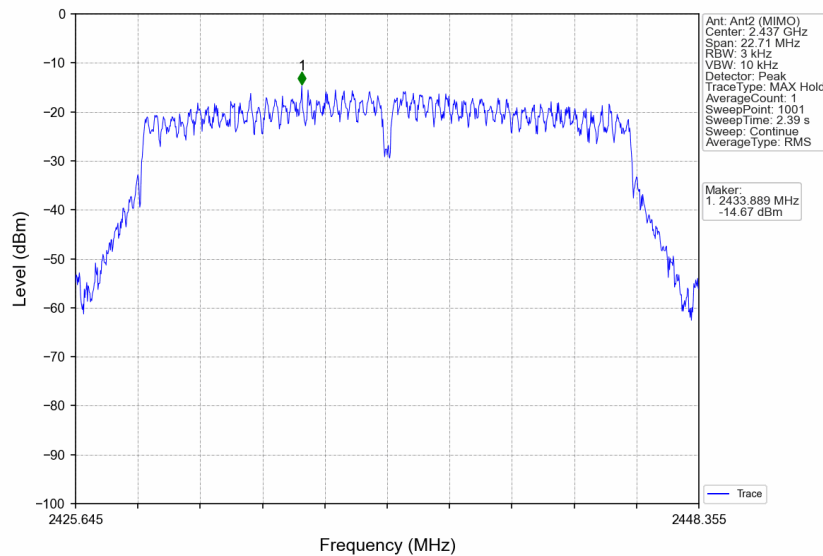
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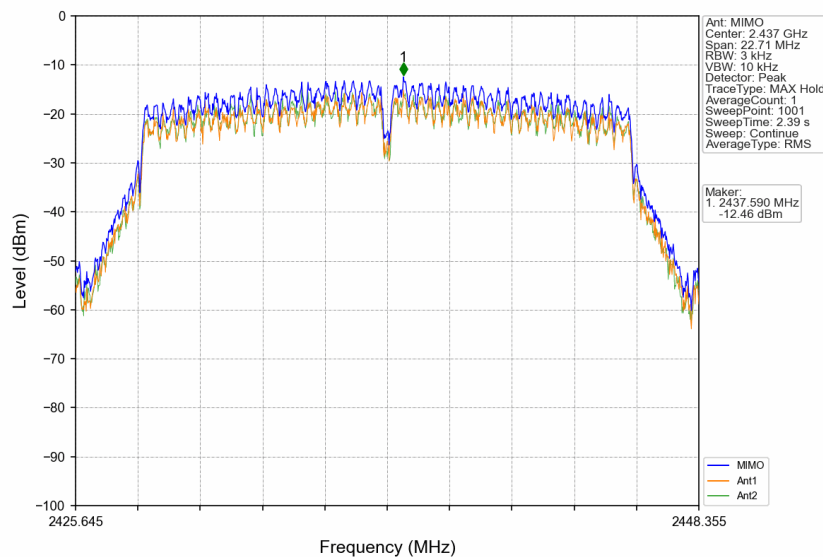
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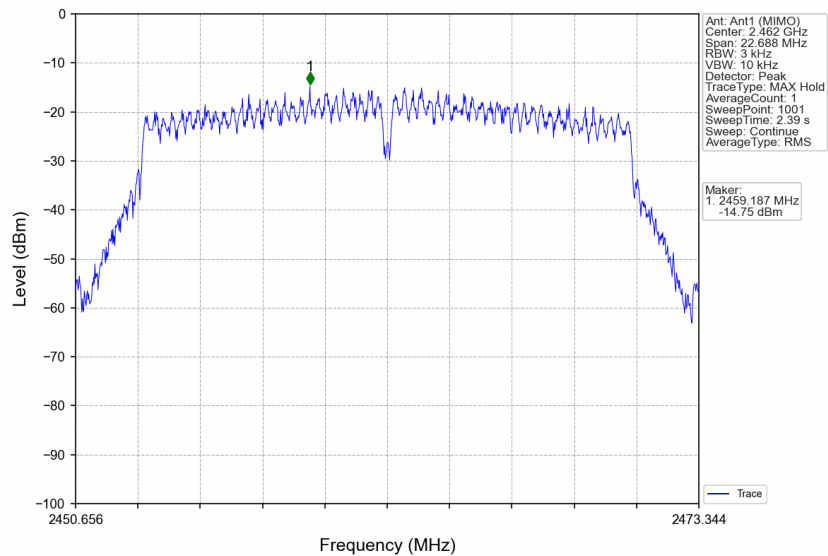
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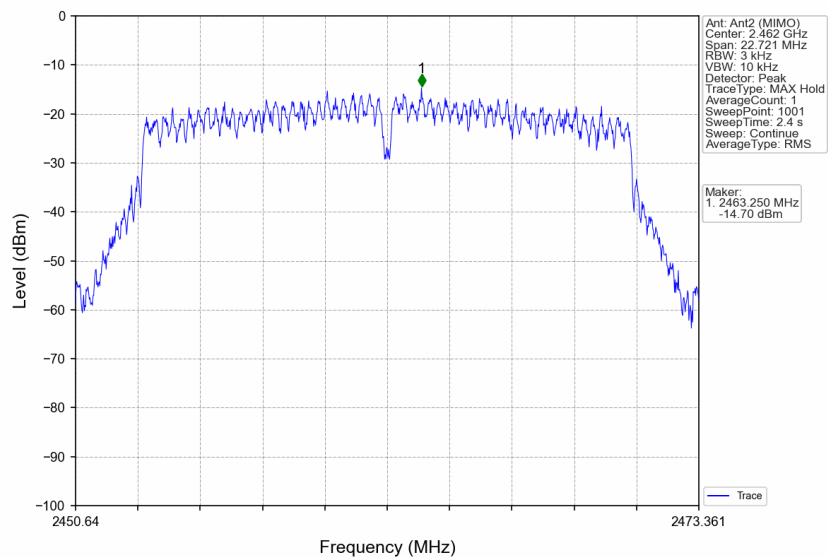
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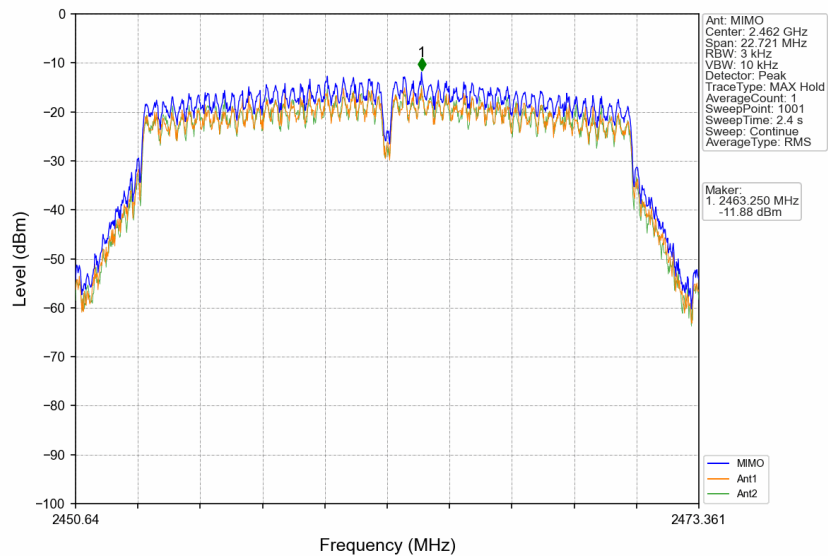
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|--|---------|-----------------|-----|--------------------------|
| 802.11b | SISO | 2412 | 1 | 7.61 |
| | | | 2 | 7.70 |
| | | 2437 | 1 | 7.49 |
| | | | 2 | 7.51 |
| | | 2462 | 1 | 7.41 |
| | | | 2 | 7.48 |
| 802.11g | SISO | 2412 | 1 | 4.05 |
| | | | 2 | 3.72 |
| | | 2437 | 1 | 4.03 |
| | | | 2 | 4.20 |
| | | 2462 | 1 | 3.81 |
| | | | 2 | 4.08 |
| 802.11n (HT20) | MIMO | 2412 | 1 | 1.52 |
| | | | 2 | 1.31 |
| | | 2437 | 1 | 1.51 |
| | | | 2 | 1.37 |
| | | 2462 | 1 | 1.49 |
| | | | 2 | 0.48 |
| 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. Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB. | | | | |



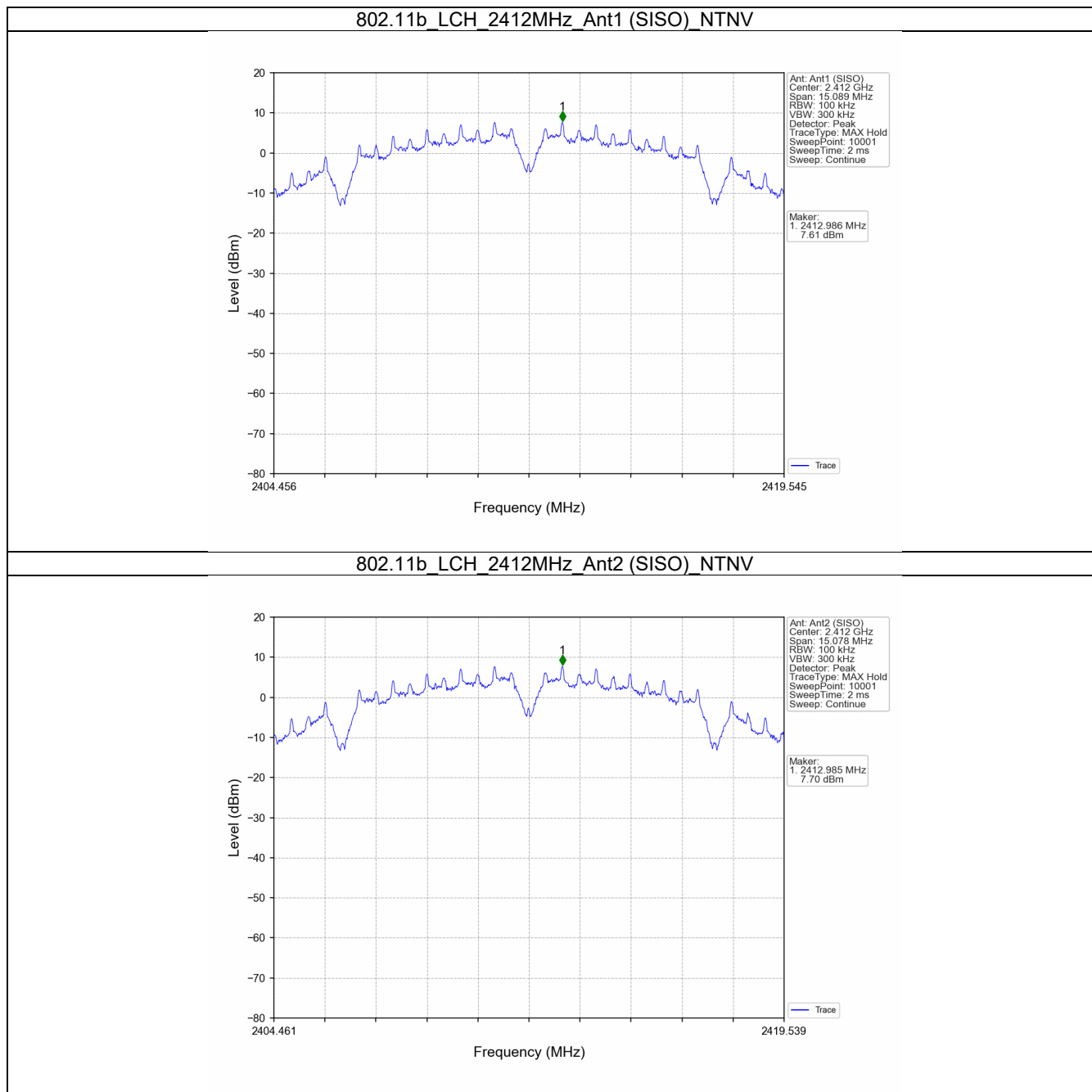
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5.1.2 Test Graph



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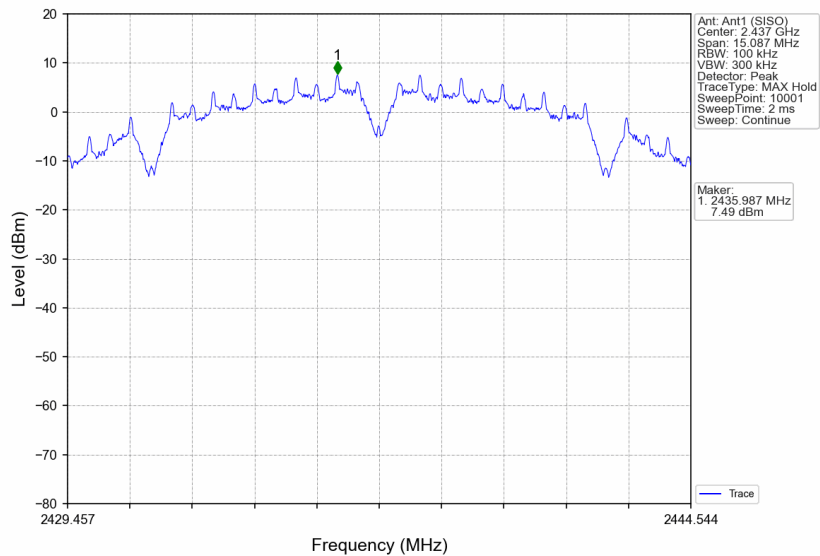
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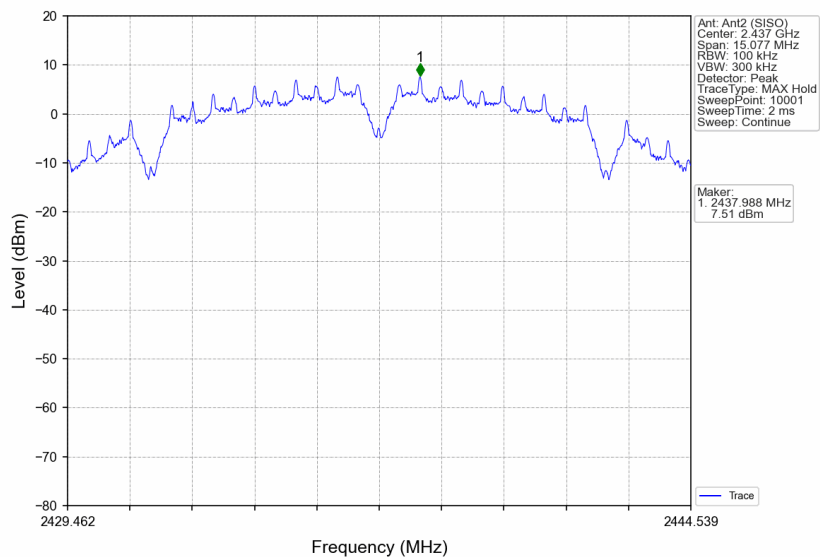
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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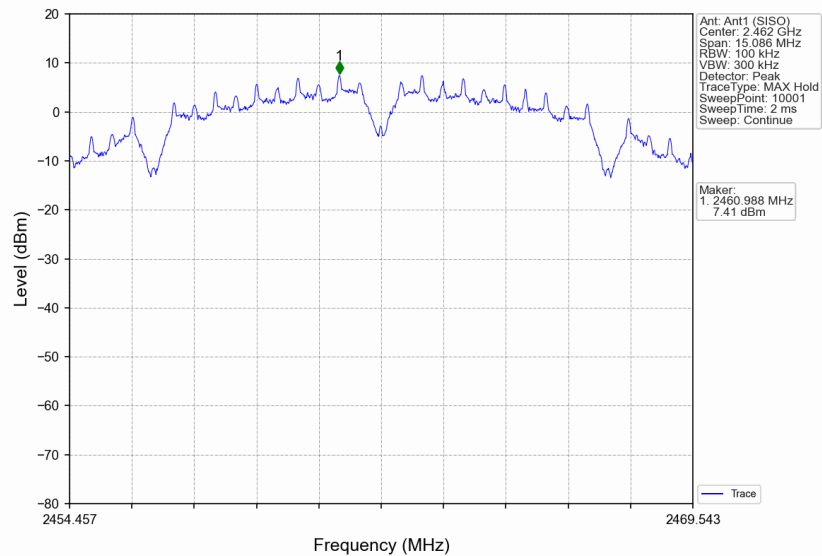
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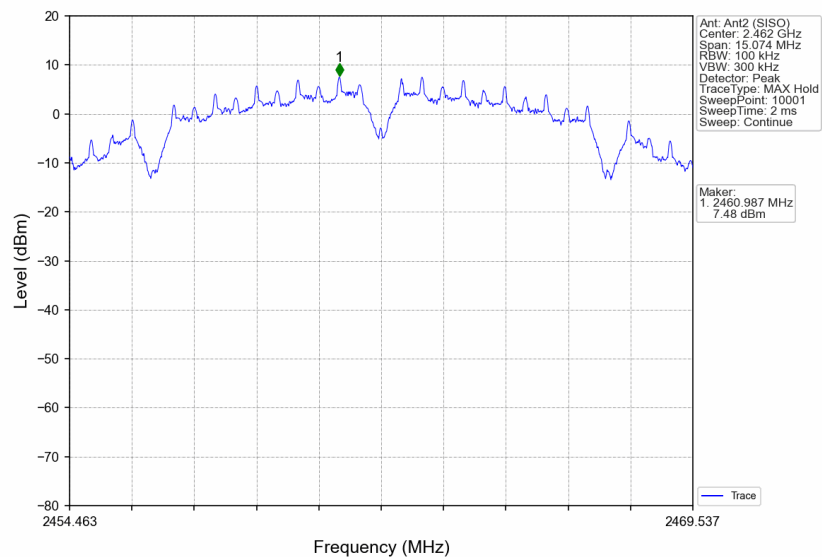
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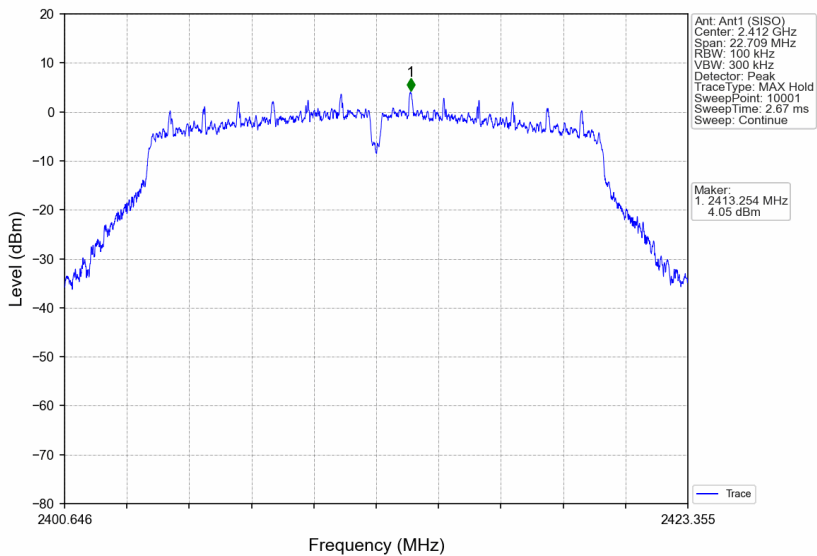
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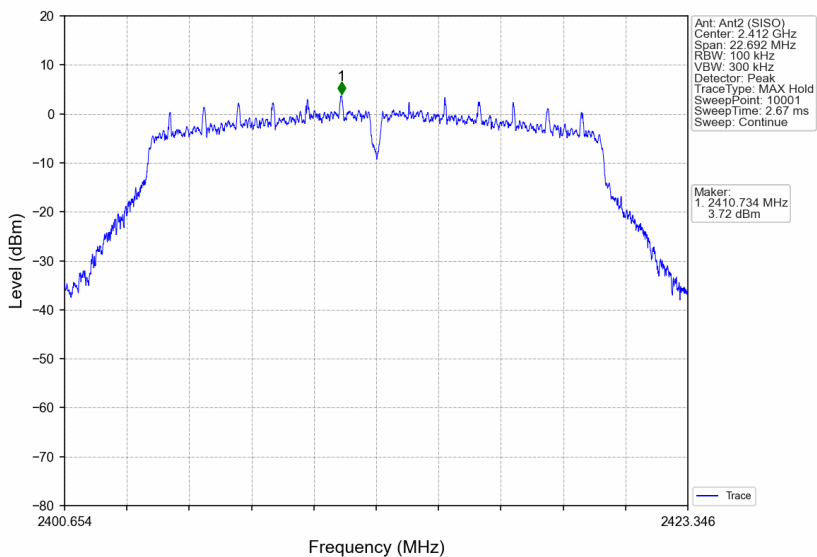
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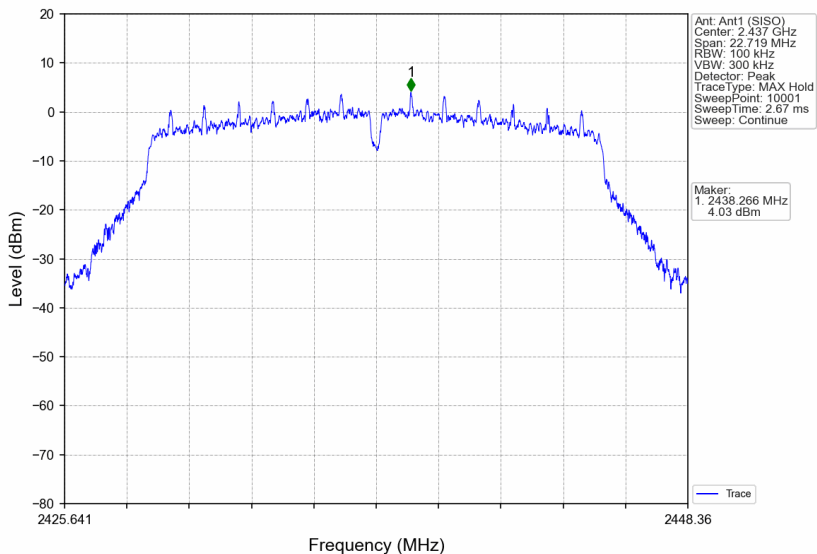
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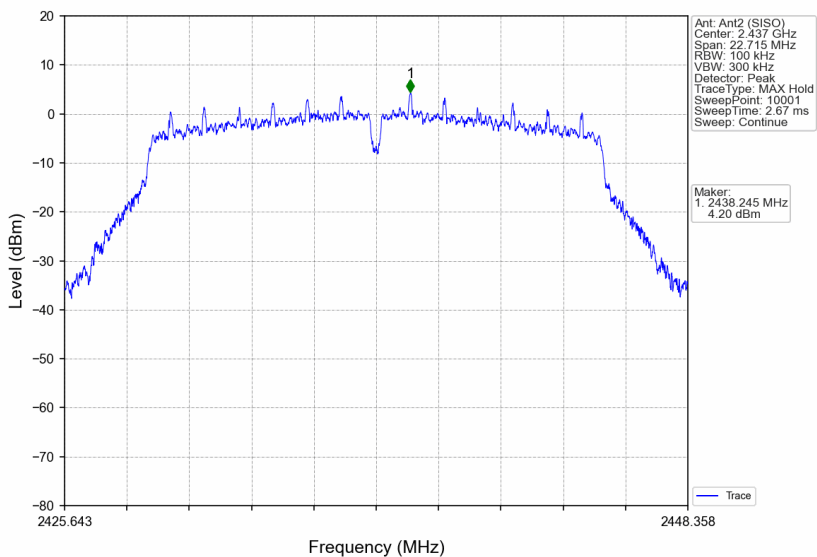
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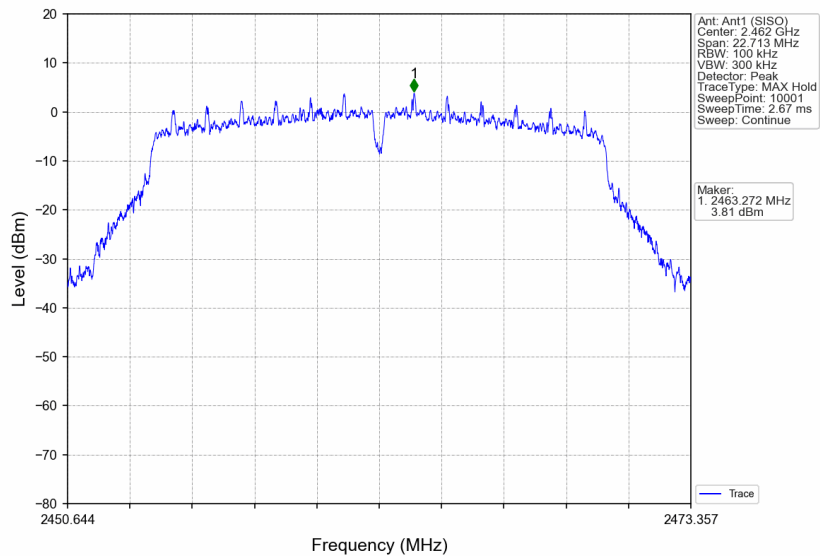
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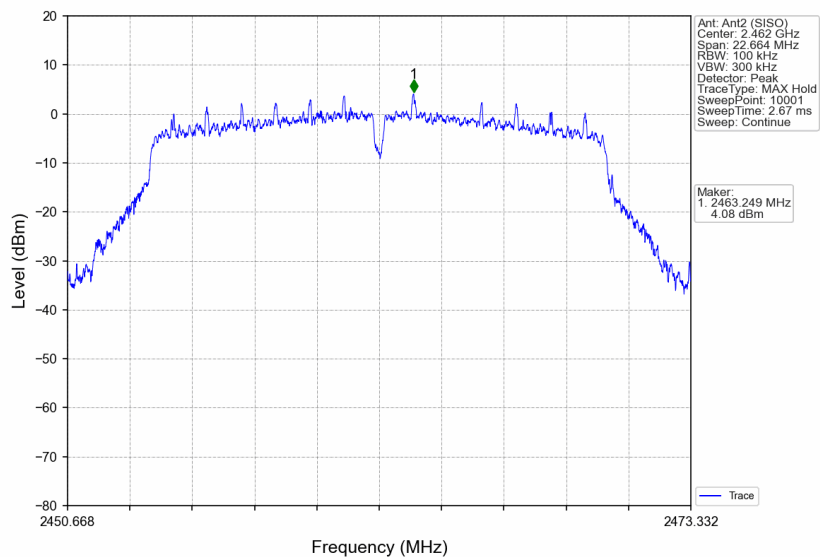
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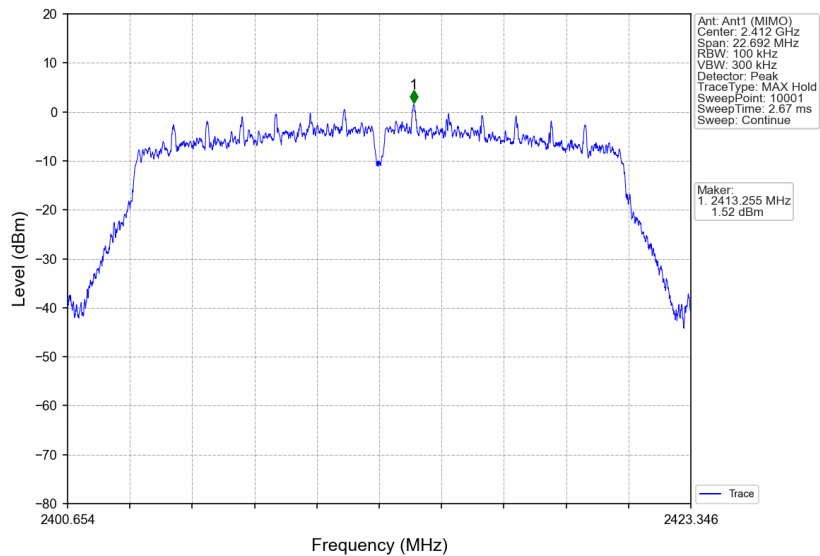
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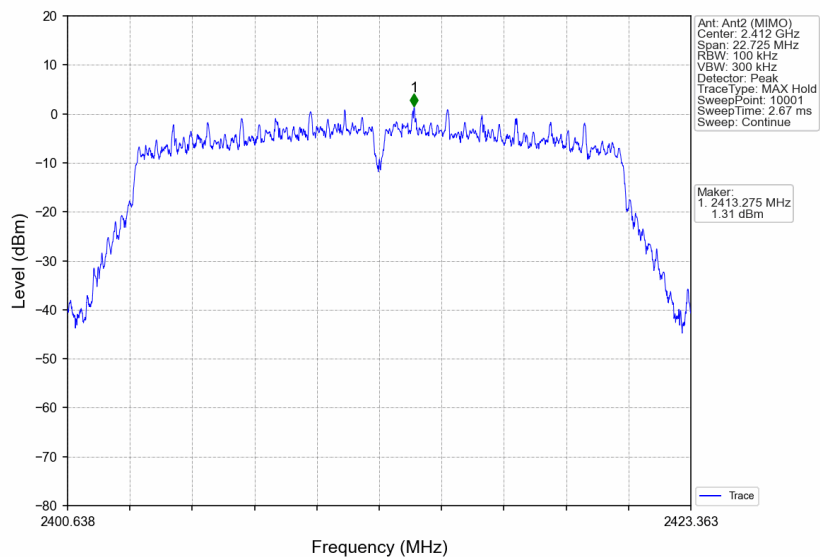
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTNV



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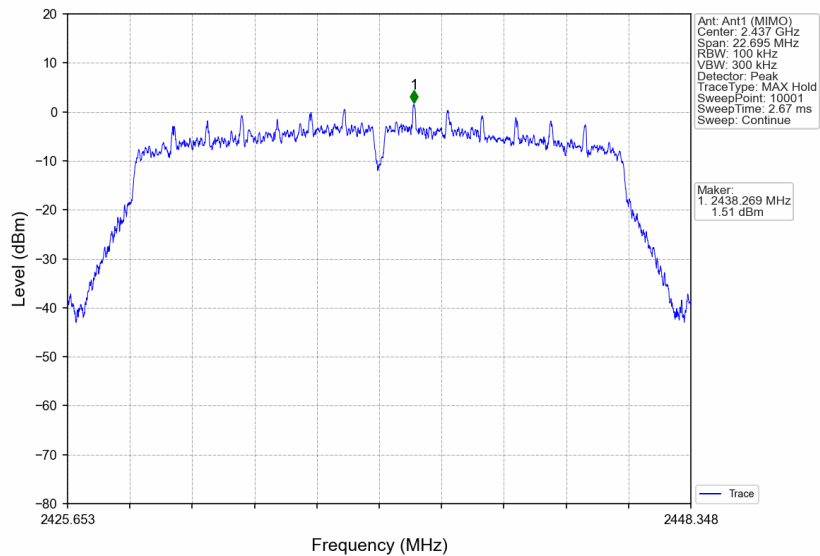
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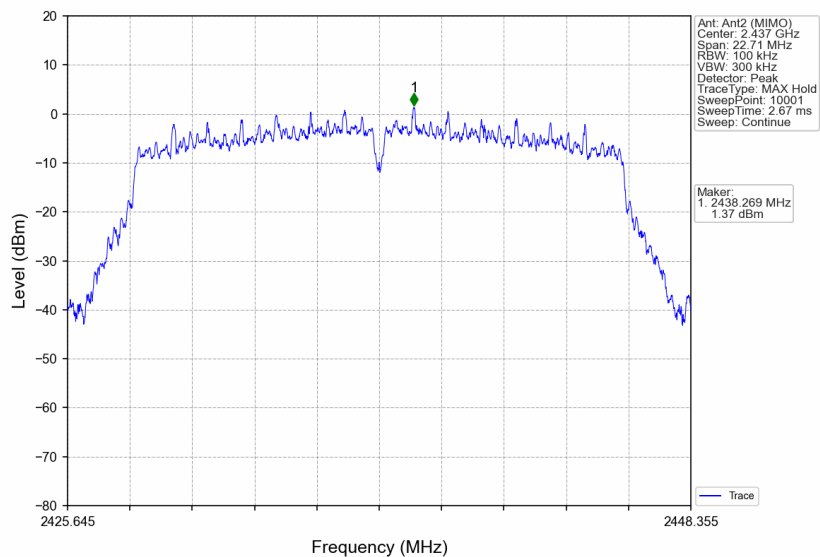
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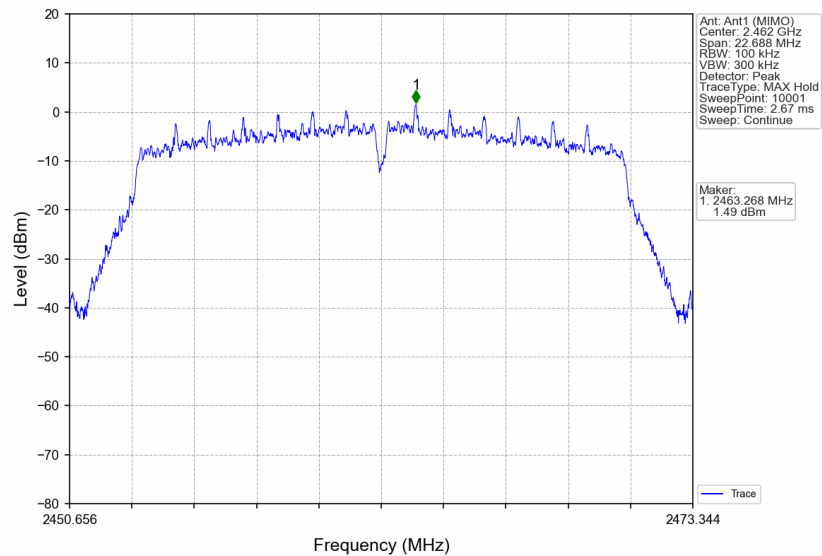
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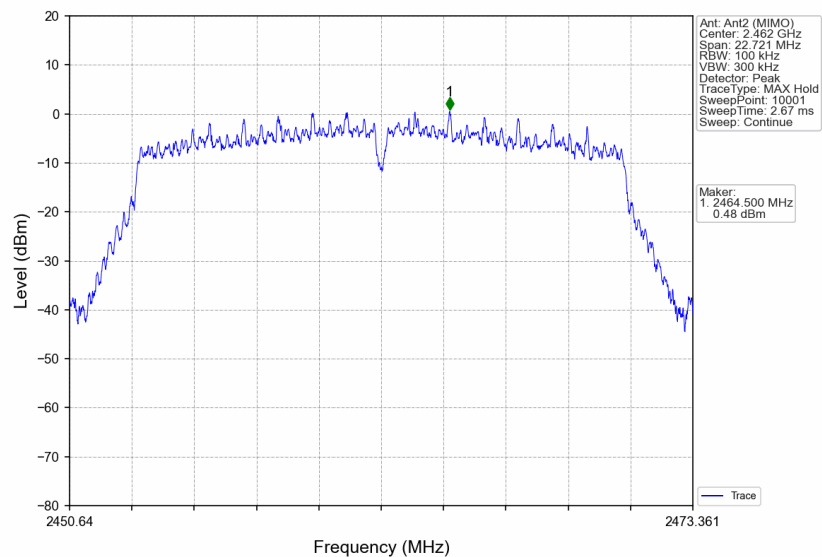
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5.2 CSE

5.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b | SISO | 2412 | 1 | 7.61 | -22.39 | Pass |
| | | | 2 | 7.70 | -22.30 | Pass |
| | | 2437 | 1 | 7.61 | -22.39 | Pass |
| | | | 2 | 7.70 | -22.30 | Pass |
| | | 2462 | 1 | 7.61 | -22.39 | Pass |
| | | | 2 | 7.70 | -22.30 | Pass |
| 802.11g | SISO | 2412 | 1 | 4.05 | -25.95 | Pass |
| | | | 2 | 4.20 | -25.80 | Pass |
| | | 2437 | 1 | 4.05 | -25.95 | Pass |
| | | | 2 | 4.20 | -25.80 | Pass |
| | | 2462 | 1 | 4.05 | -25.95 | Pass |
| | | | 2 | 4.20 | -25.80 | Pass |
| 802.11n (HT20) | MIMO | 2412 | 1 | 1.52 | -28.48 | Pass |
| | | | 2 | 1.37 | -28.63 | Pass |
| | | 2437 | 1 | 1.52 | -28.48 | Pass |
| | | | 2 | 1.37 | -28.63 | Pass |
| | | 2462 | 1 | 1.52 | -28.48 | Pass |
| | | | 2 | 1.37 | -28.63 | 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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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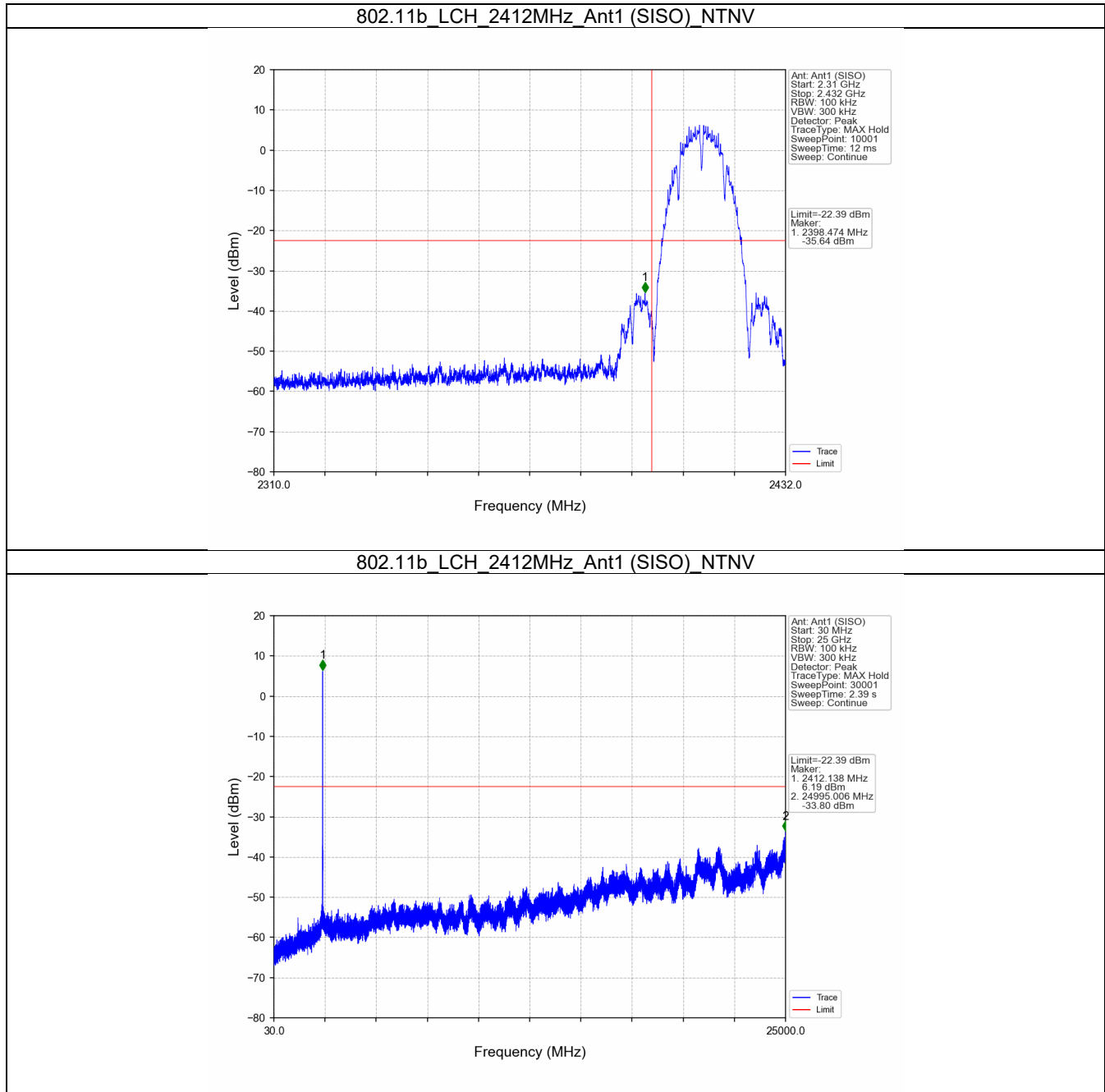
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5.2.2 Test Graph



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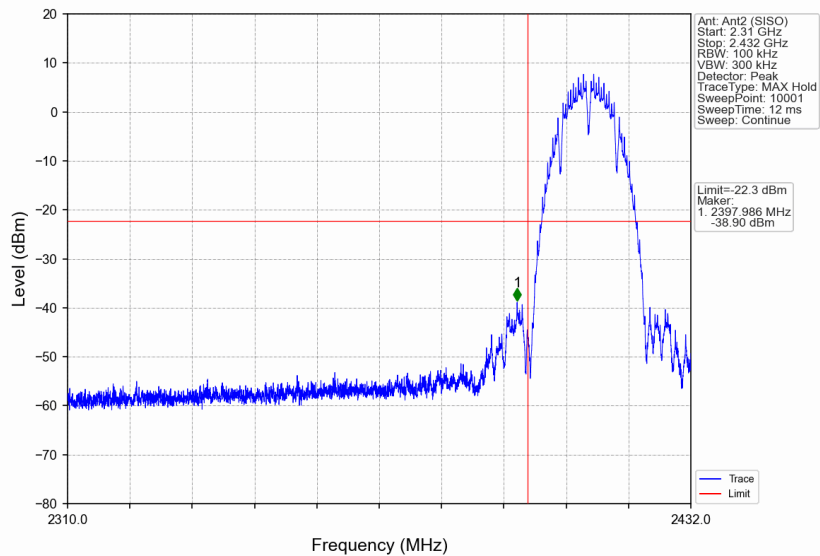
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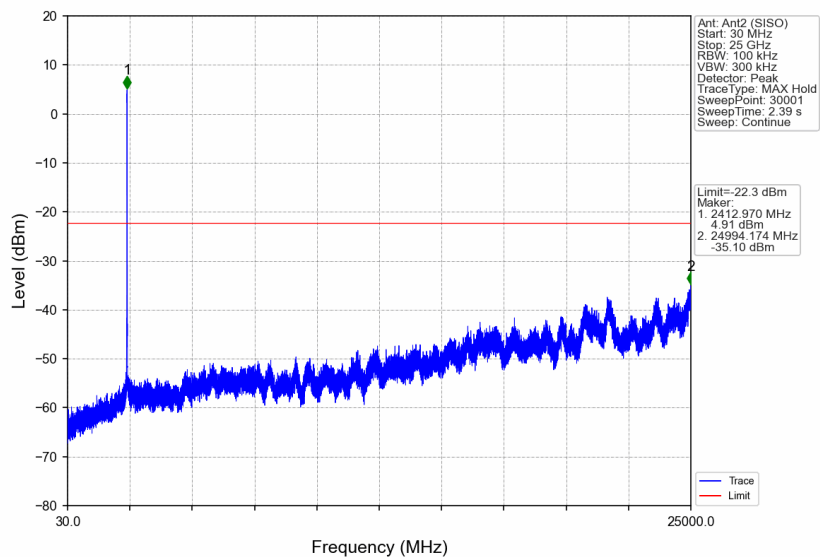
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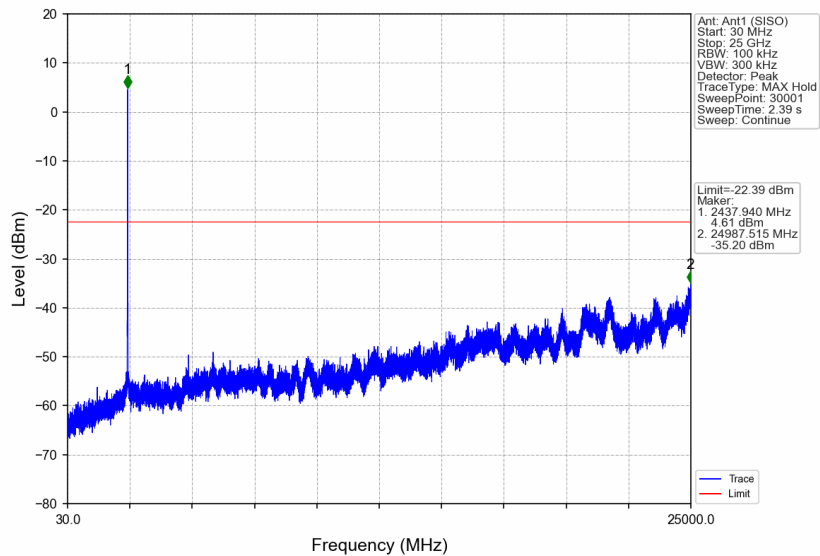
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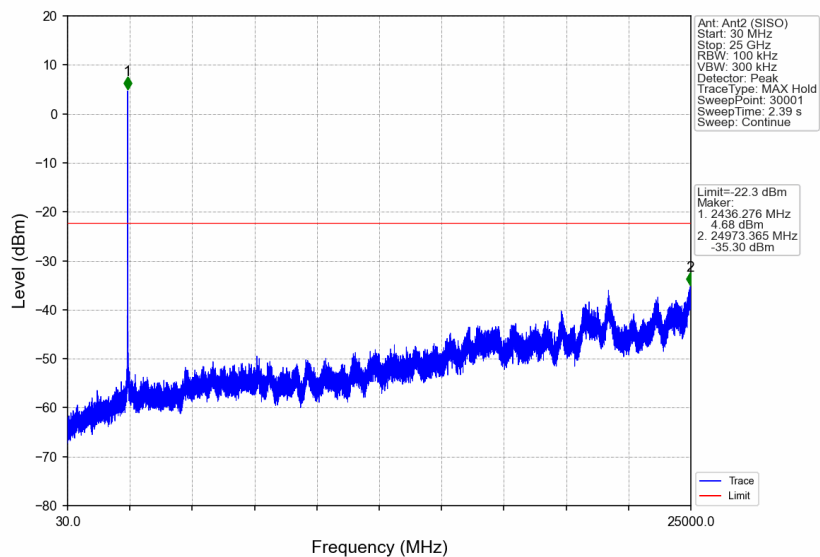
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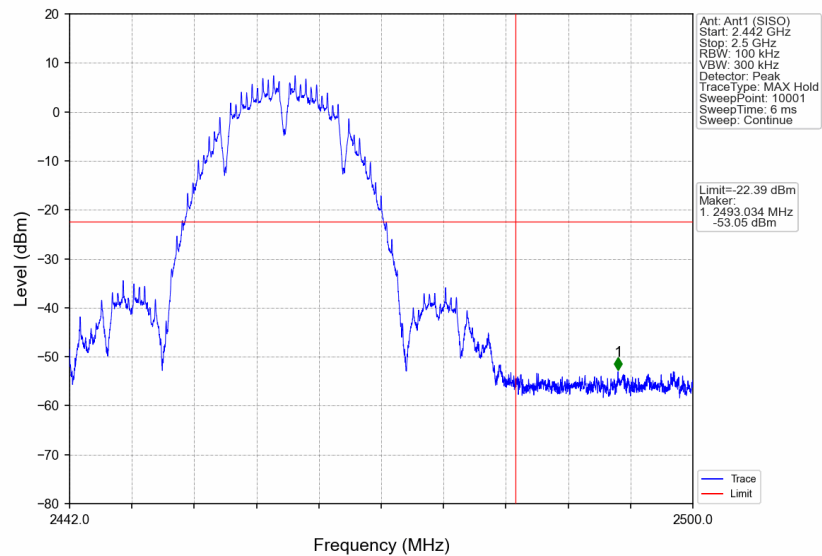
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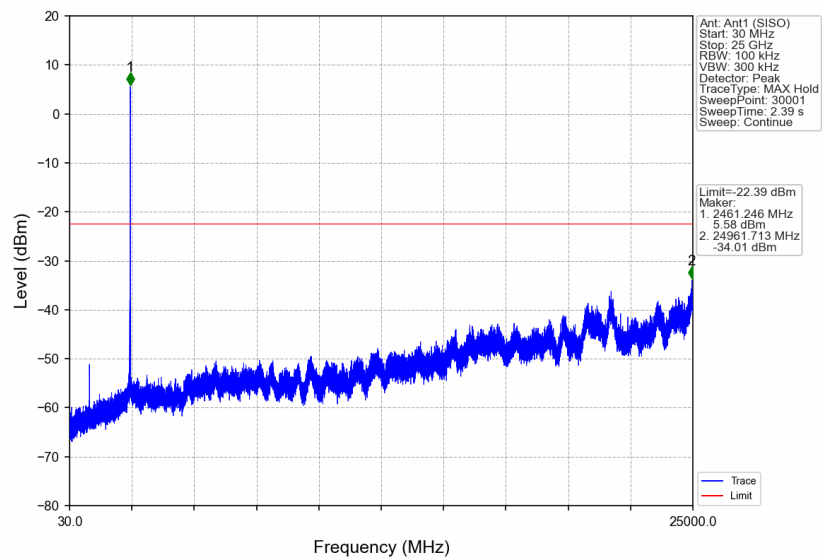
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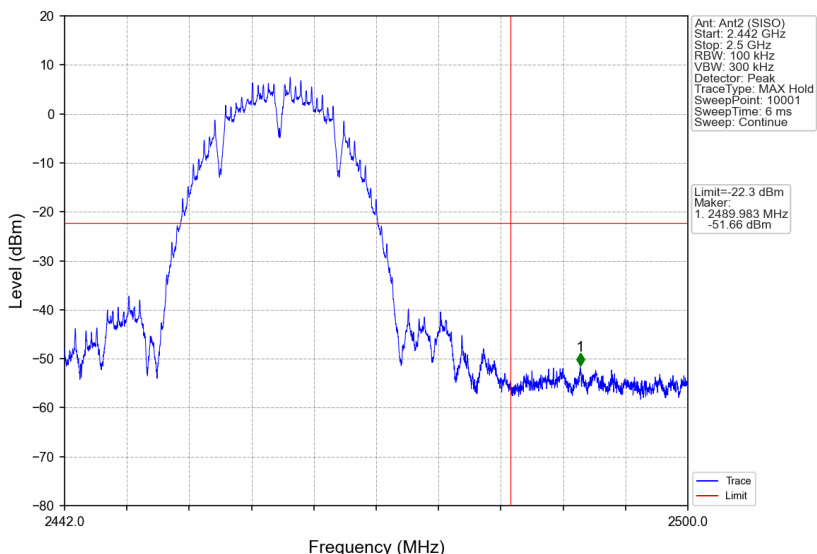
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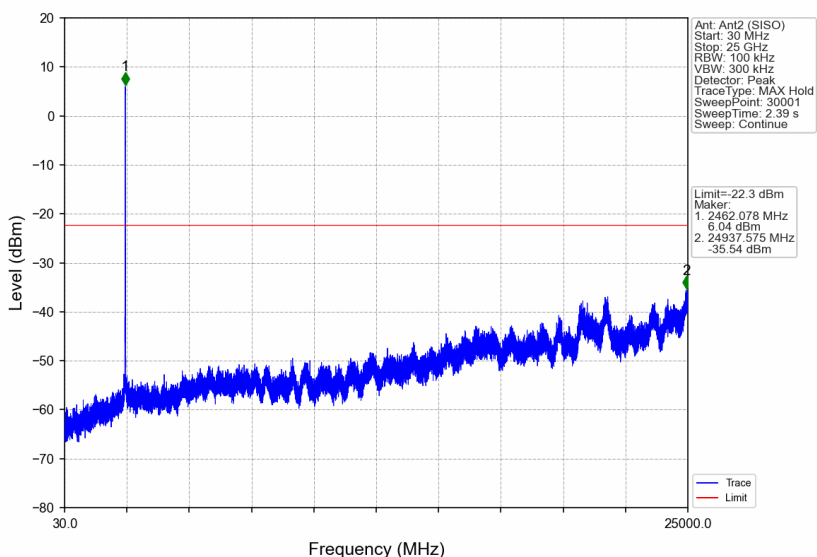
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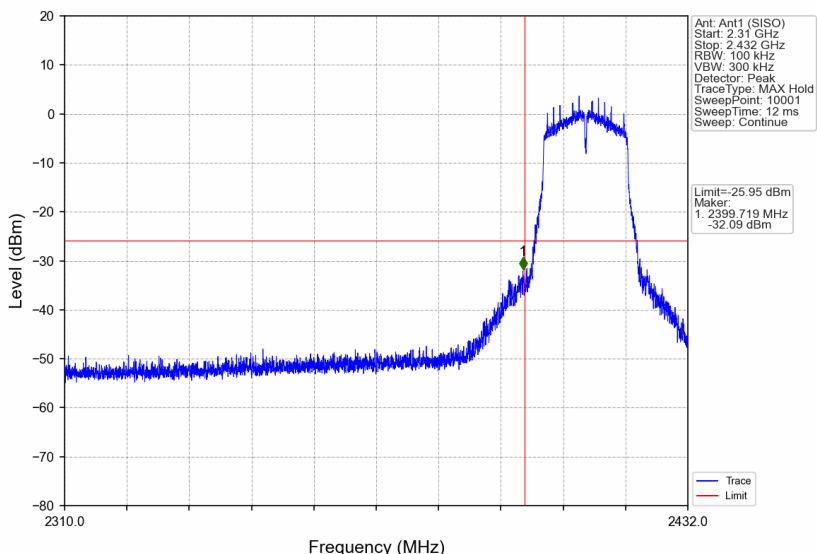
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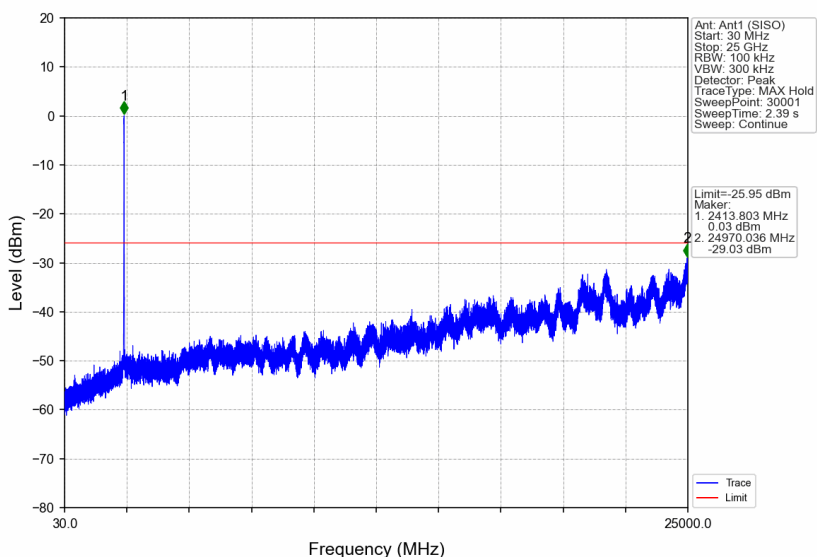
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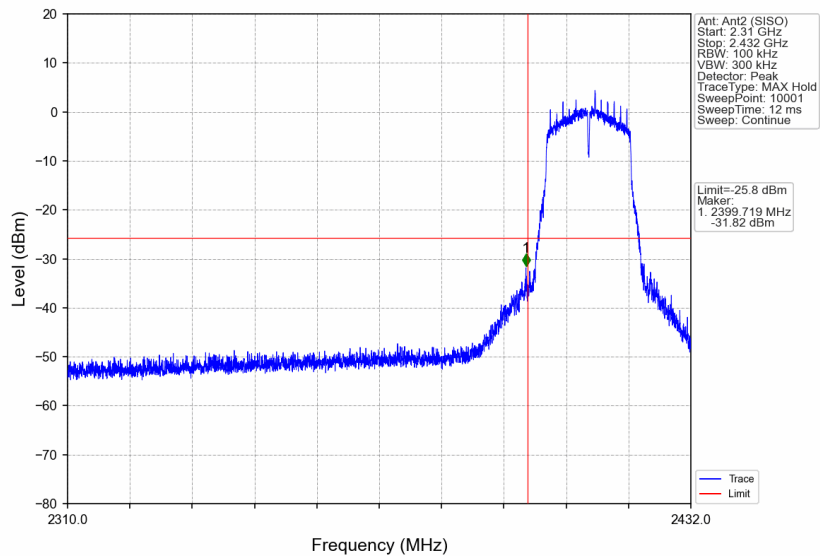
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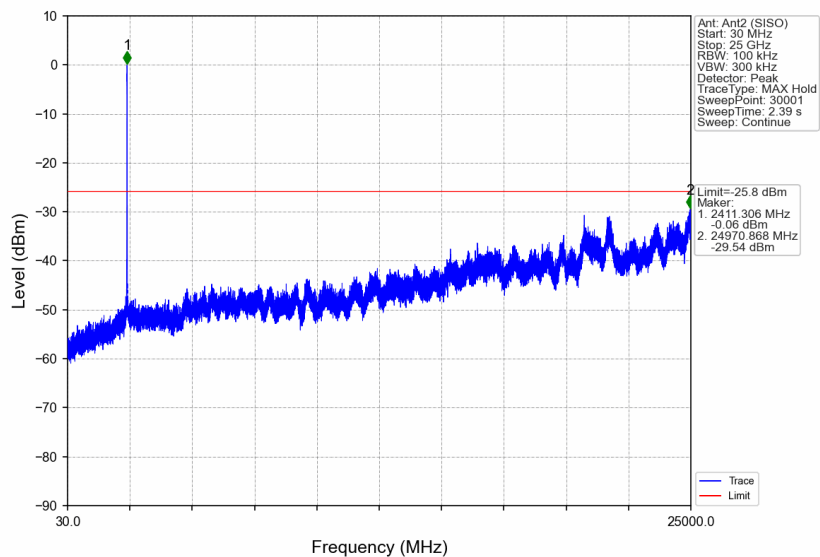
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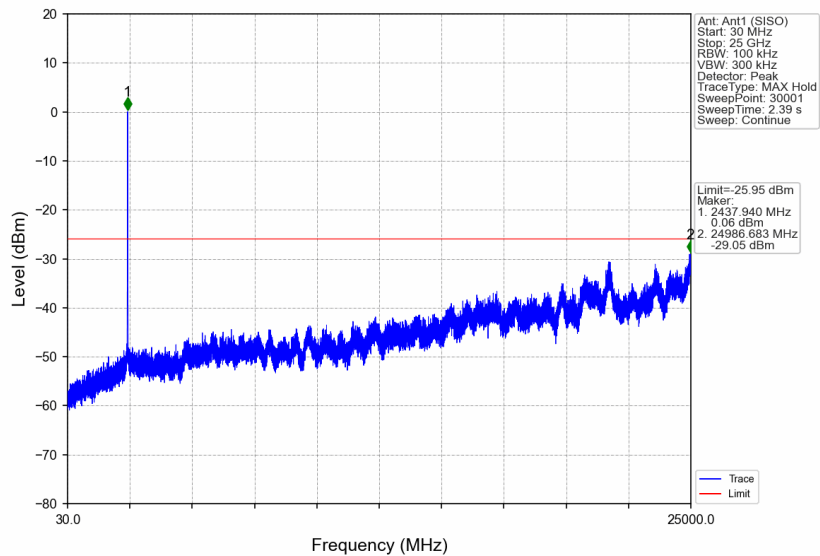
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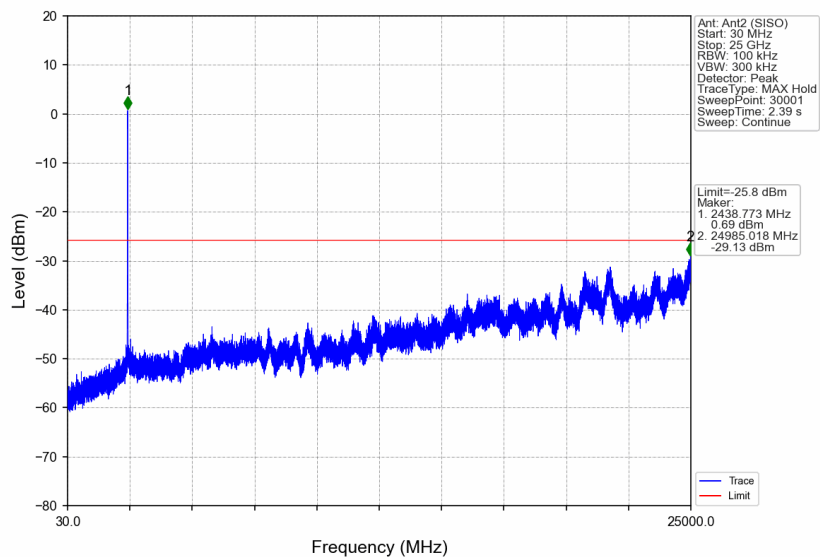
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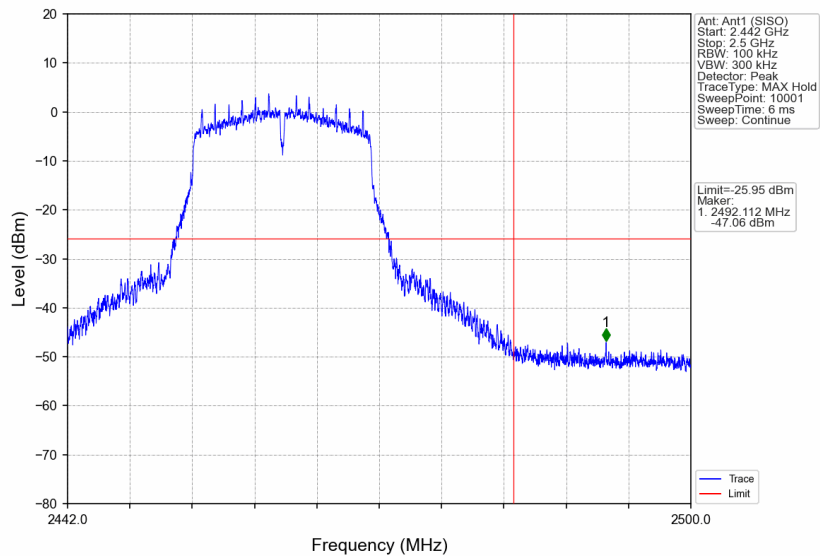
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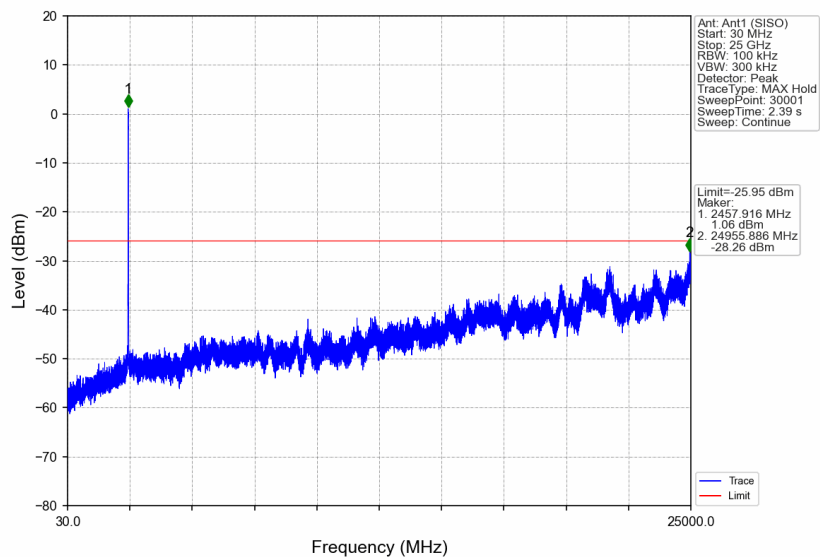
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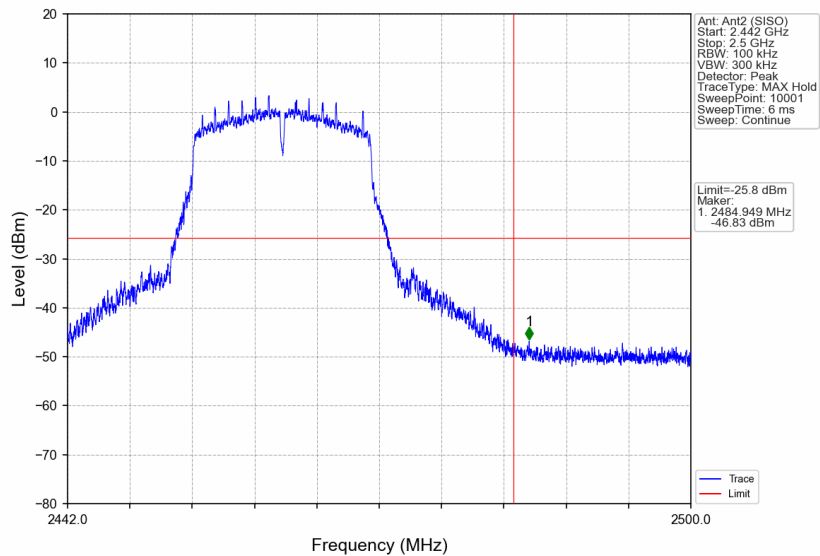
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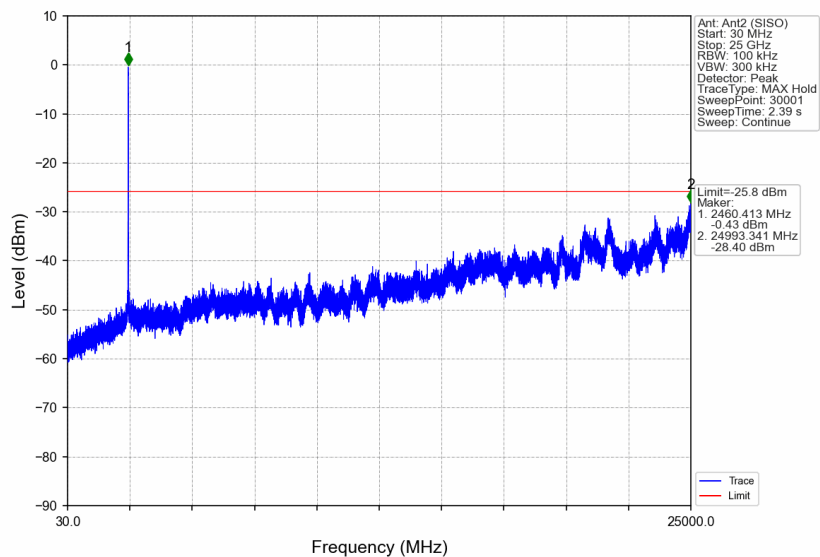
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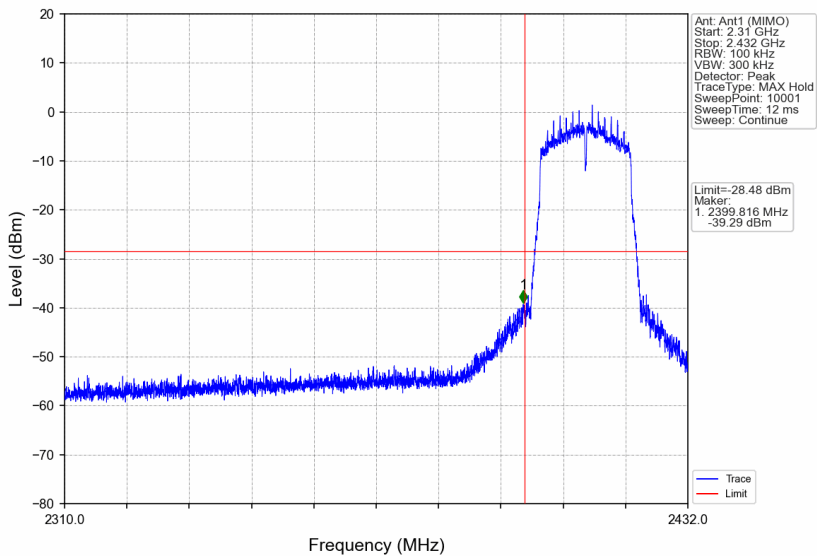
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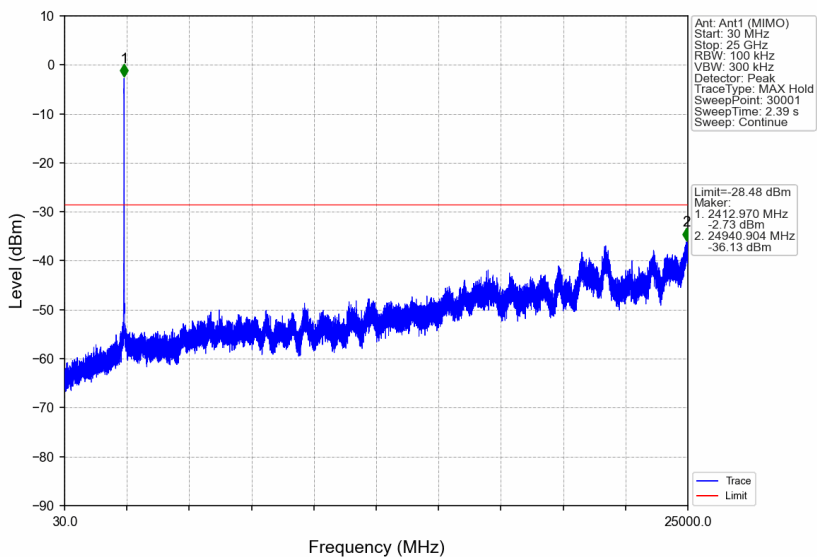
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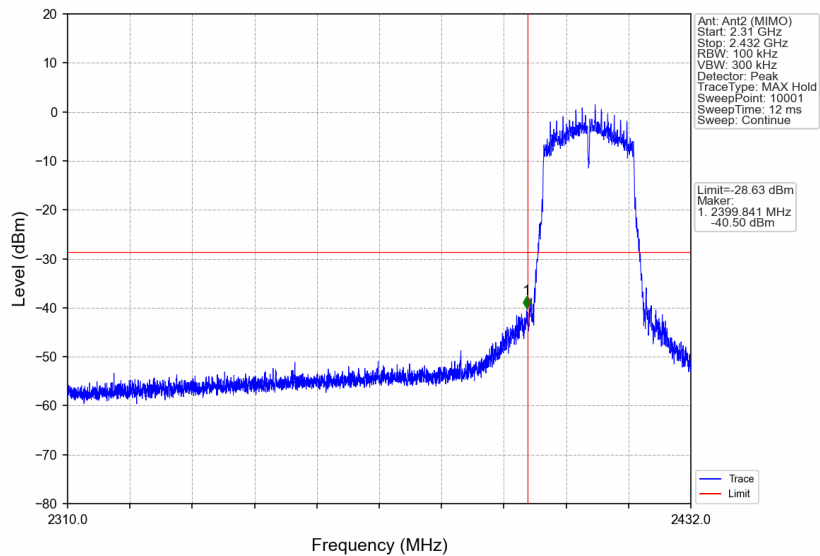
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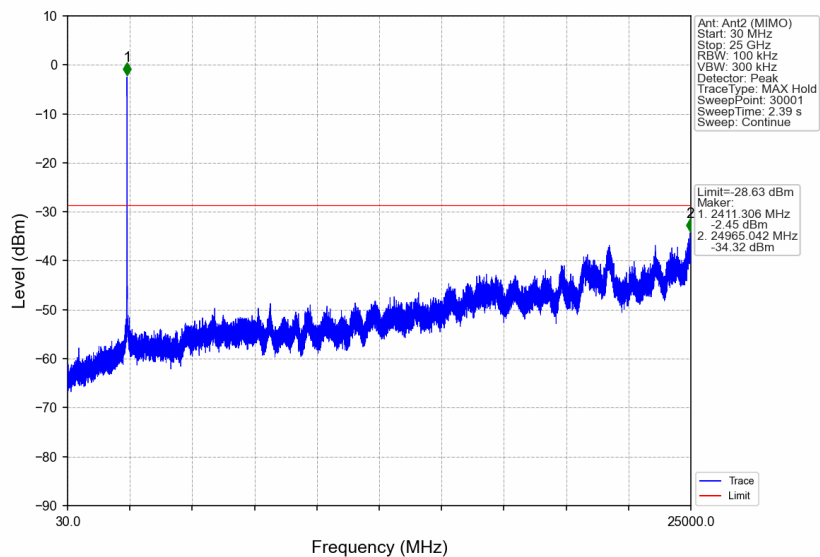
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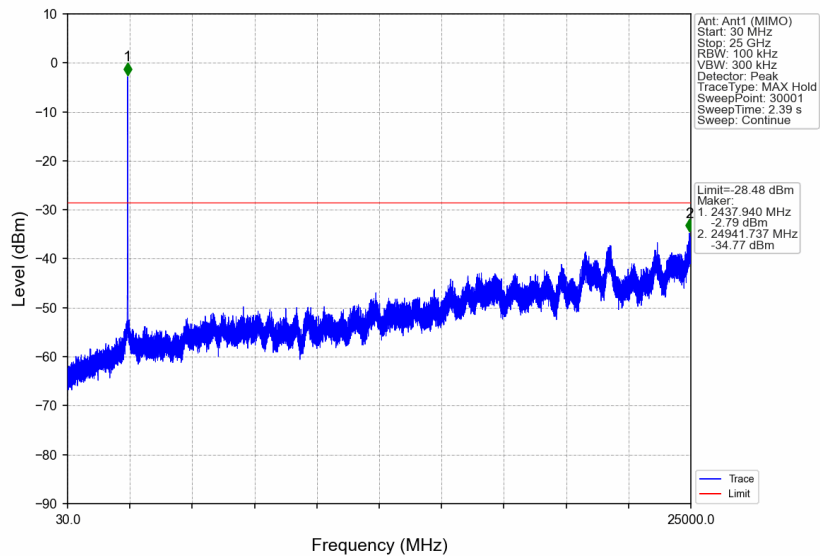
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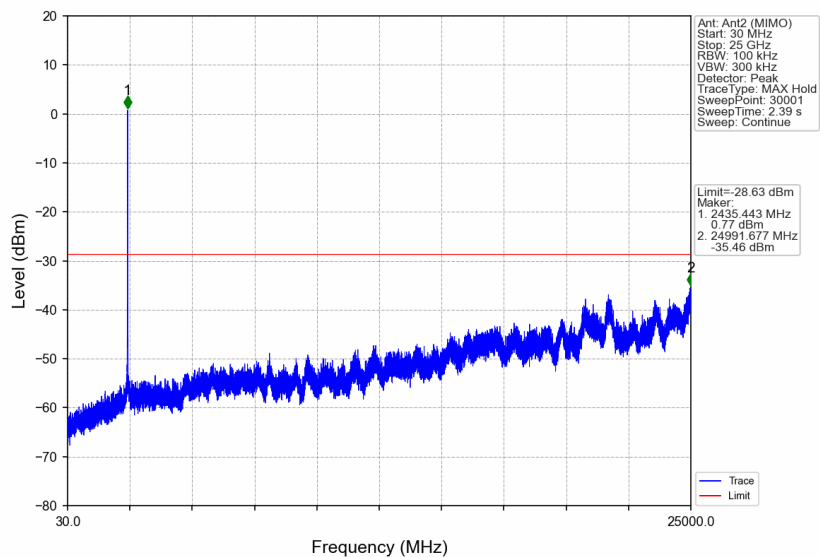
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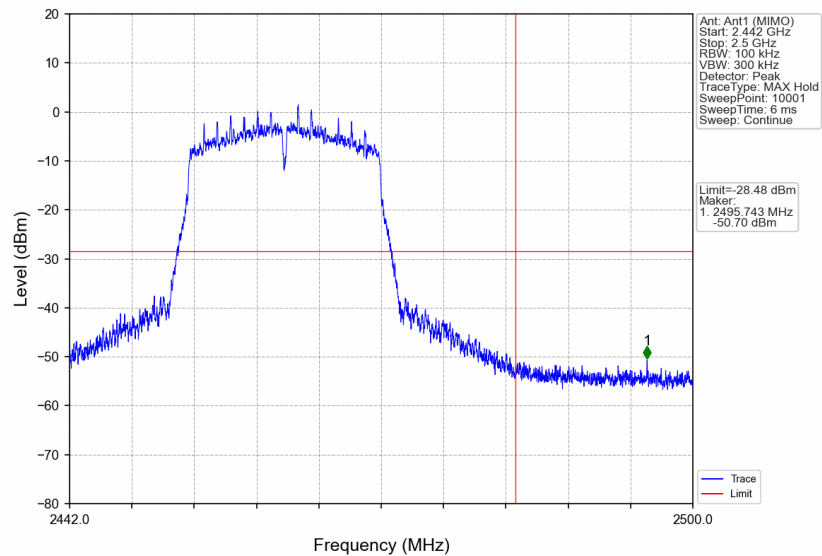
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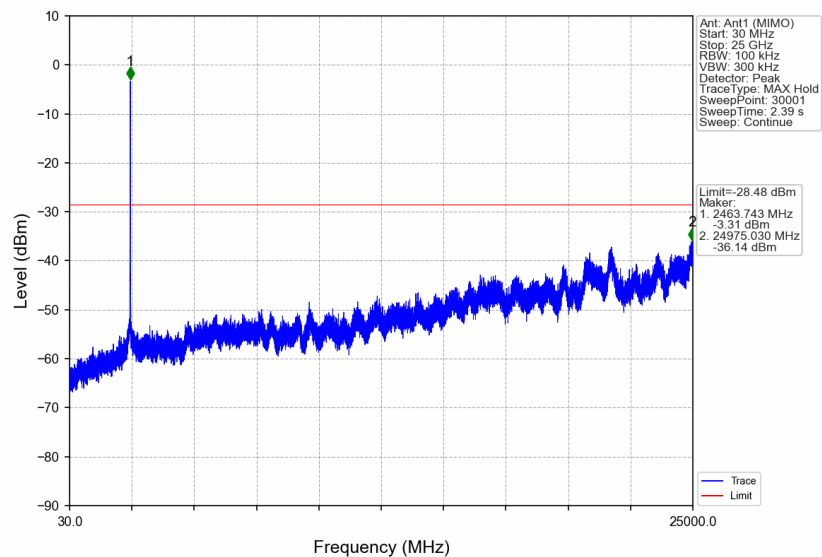
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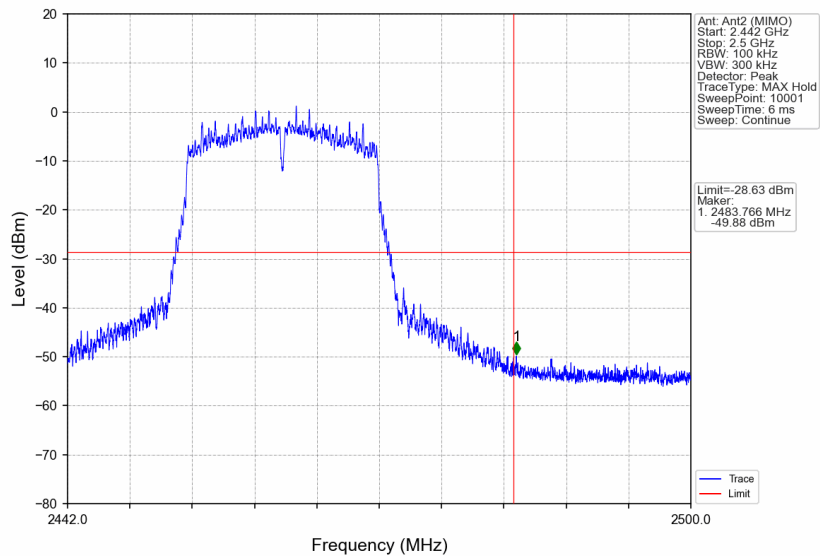
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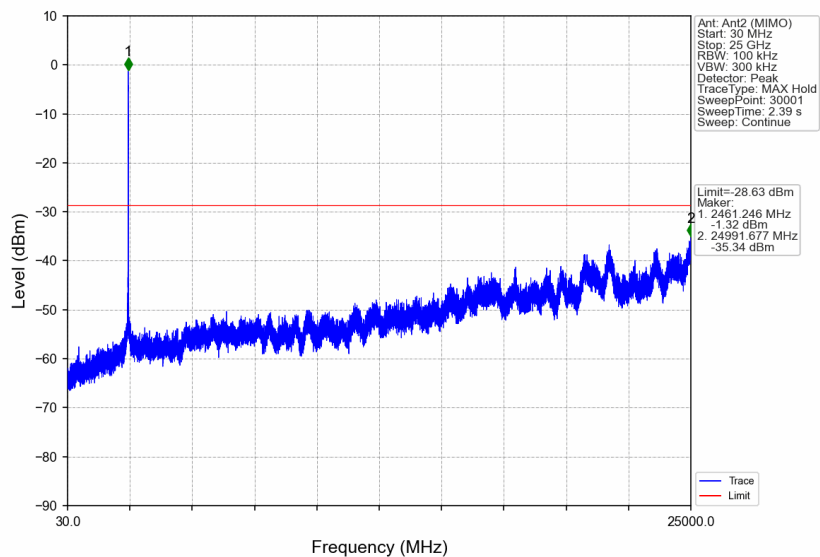
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