



1. Duty Cycle

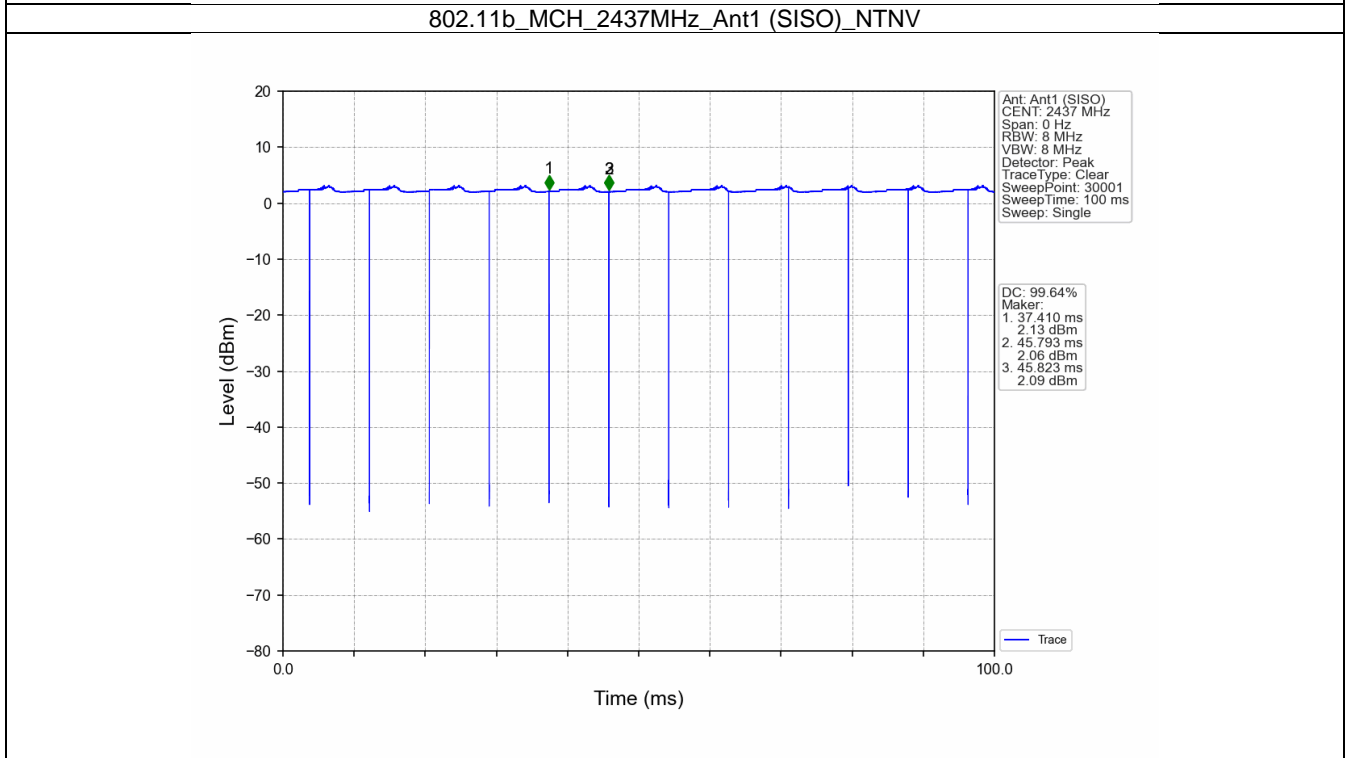
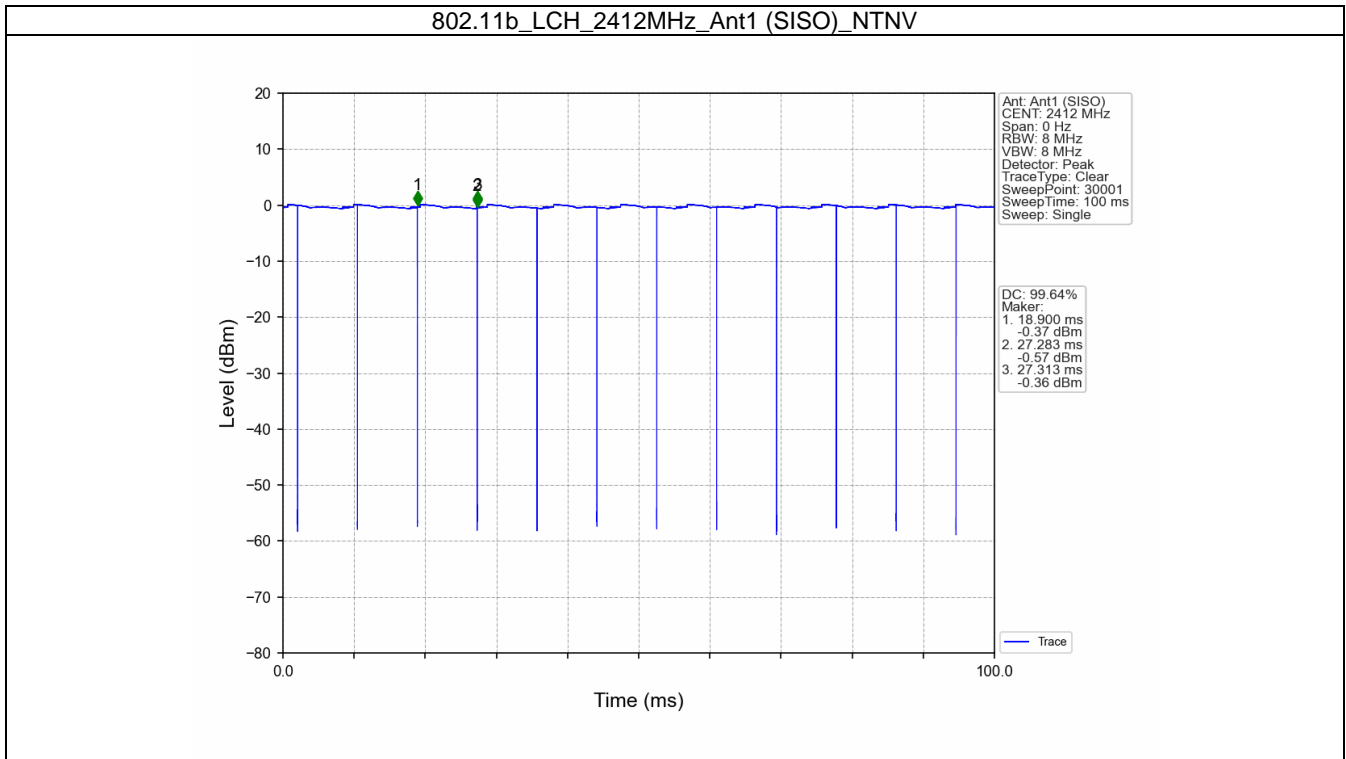
1.1 Ant1

1.1.1 Test Result

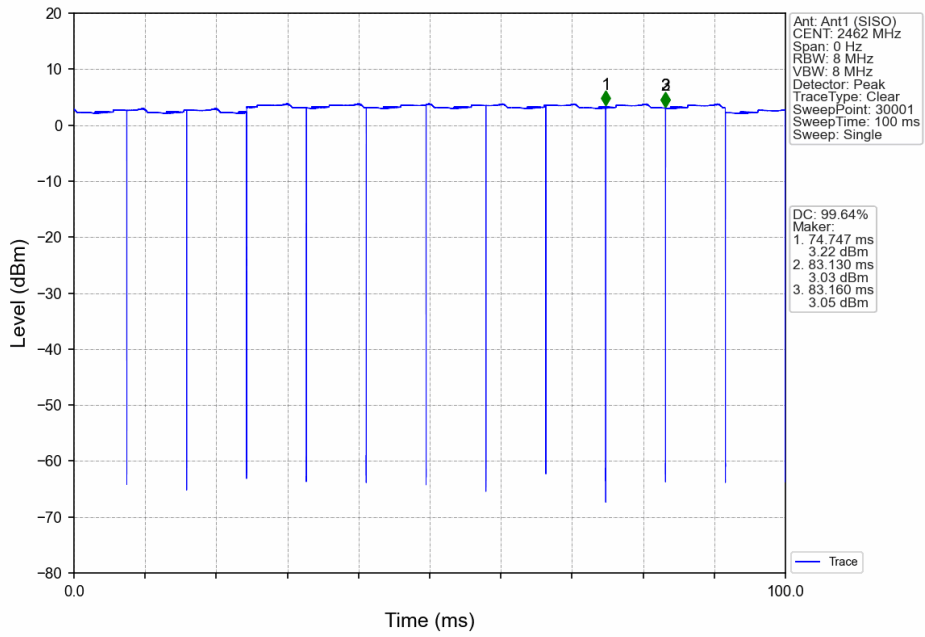
| Ant1 | | | | | | | |
|----------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b | SISO | 2412 | 8.383 | 8.413 | 99.64 | 0.02 | 0.04 |
| | | 2437 | 8.383 | 8.413 | 99.64 | 0.02 | 0.04 |
| | | 2462 | 8.383 | 8.413 | 99.64 | 0.02 | 0.04 |
| 802.11g | SISO | 2412 | 1.392 | 1.428 | 97.48 | 0.11 | 0.03 |
| | | 2437 | 1.392 | 1.427 | 97.55 | 0.11 | 0.07 |
| | | 2462 | 1.395 | 1.428 | 97.69 | 0.10 | 0.03 |
| 802.11n (HT20) | SISO | 2412 | 1.300 | 1.336 | 97.31 | 0.12 | 0.03 |
| | | 2437 | 1.300 | 1.336 | 97.31 | 0.12 | 0.00 |
| | | 2462 | 1.300 | 1.335 | 97.38 | 0.12 | 0.04 |
| 802.11n (HT40) | SISO | 2422 | 0.650 | 0.683 | 95.17 | 0.22 | 0.03 |
| | | 2437 | 0.649 | 0.684 | 94.88 | 0.23 | 0.07 |
| | | 2452 | 0.649 | 0.684 | 94.88 | 0.23 | 0.07 |



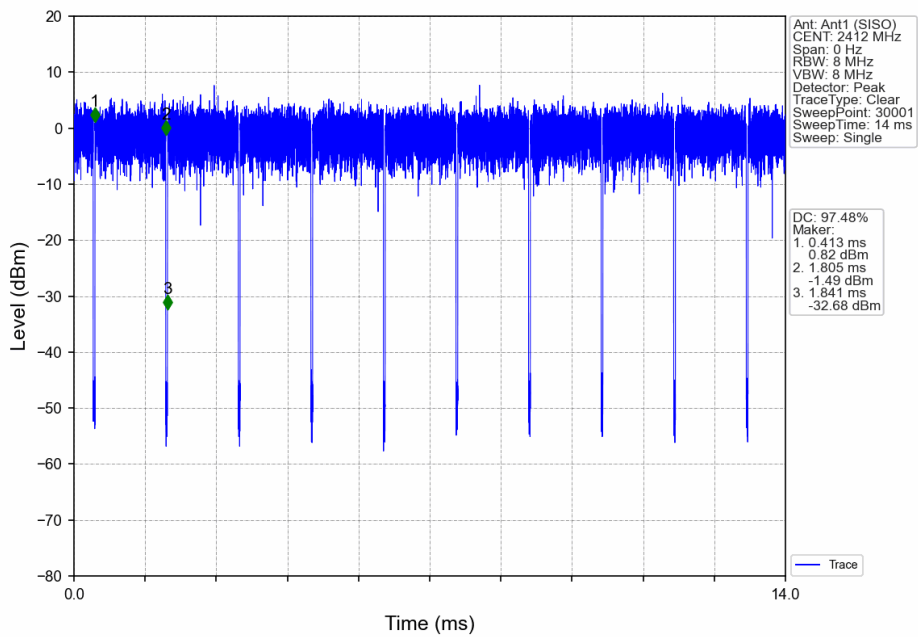
1.1.2 Test Graph



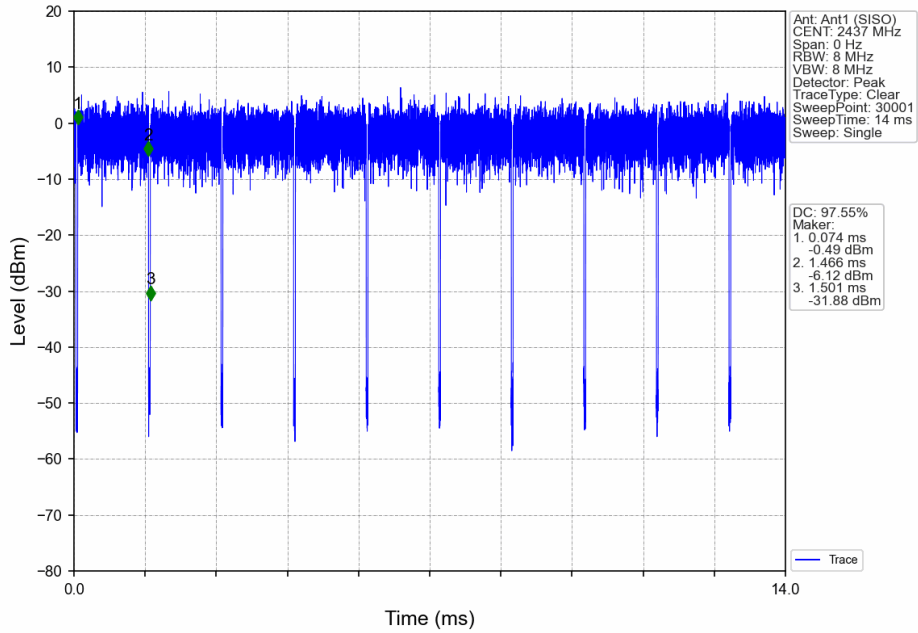
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



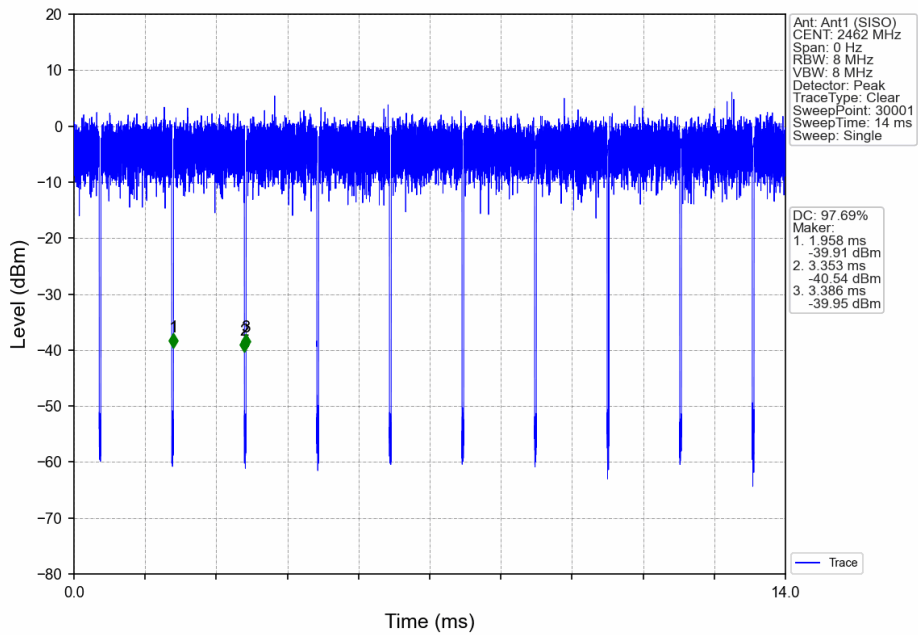
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



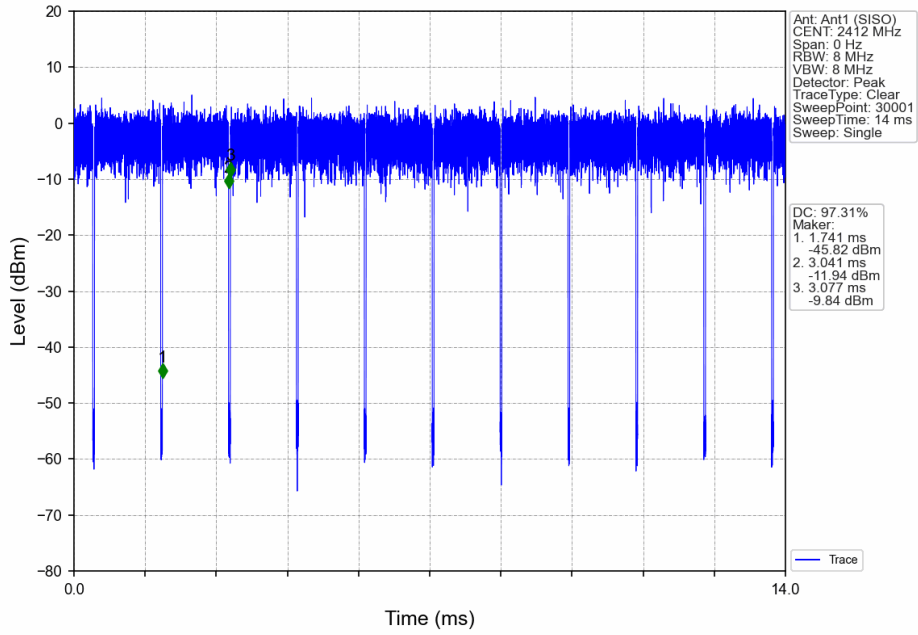
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



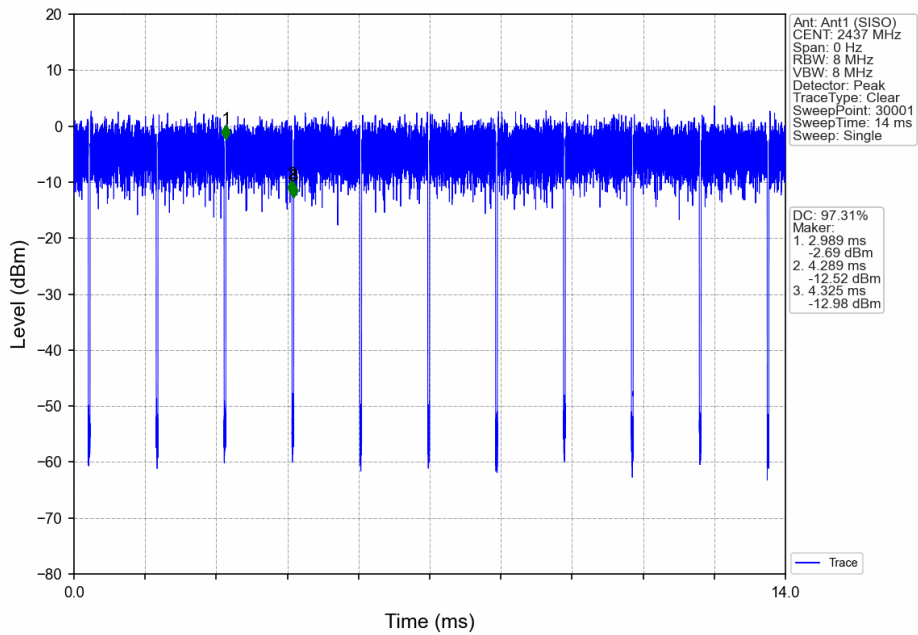
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



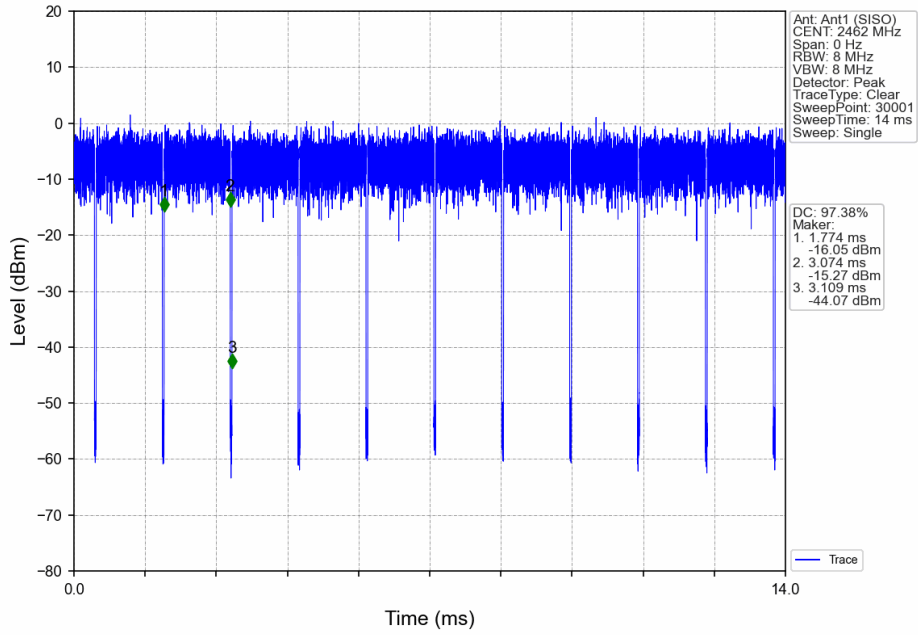
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



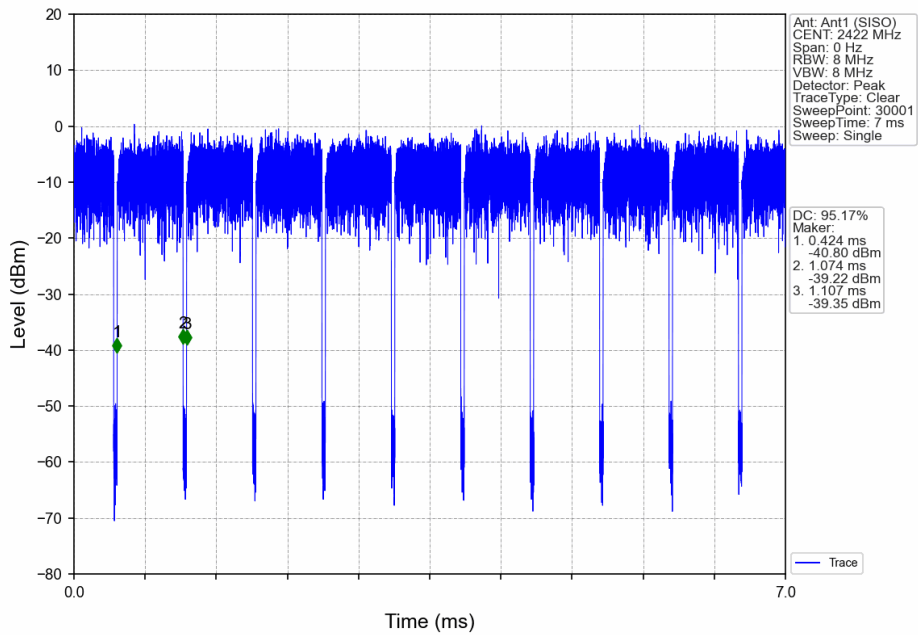
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



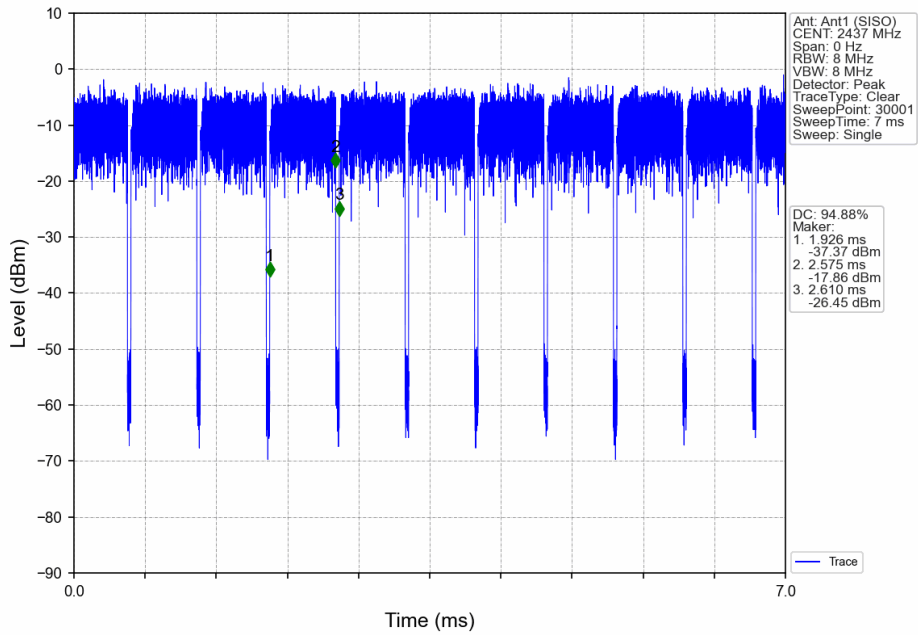
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



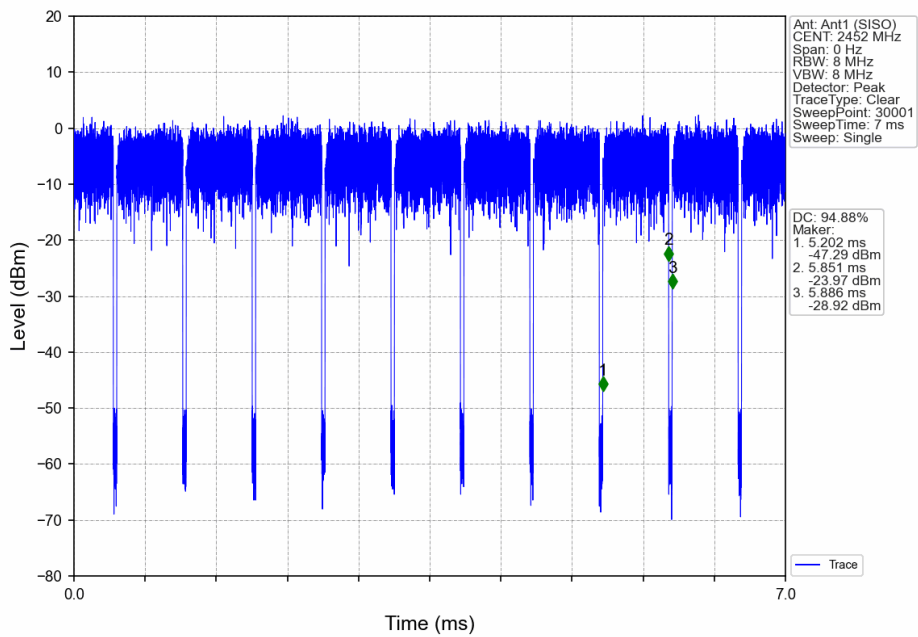
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV





2. Bandwidth

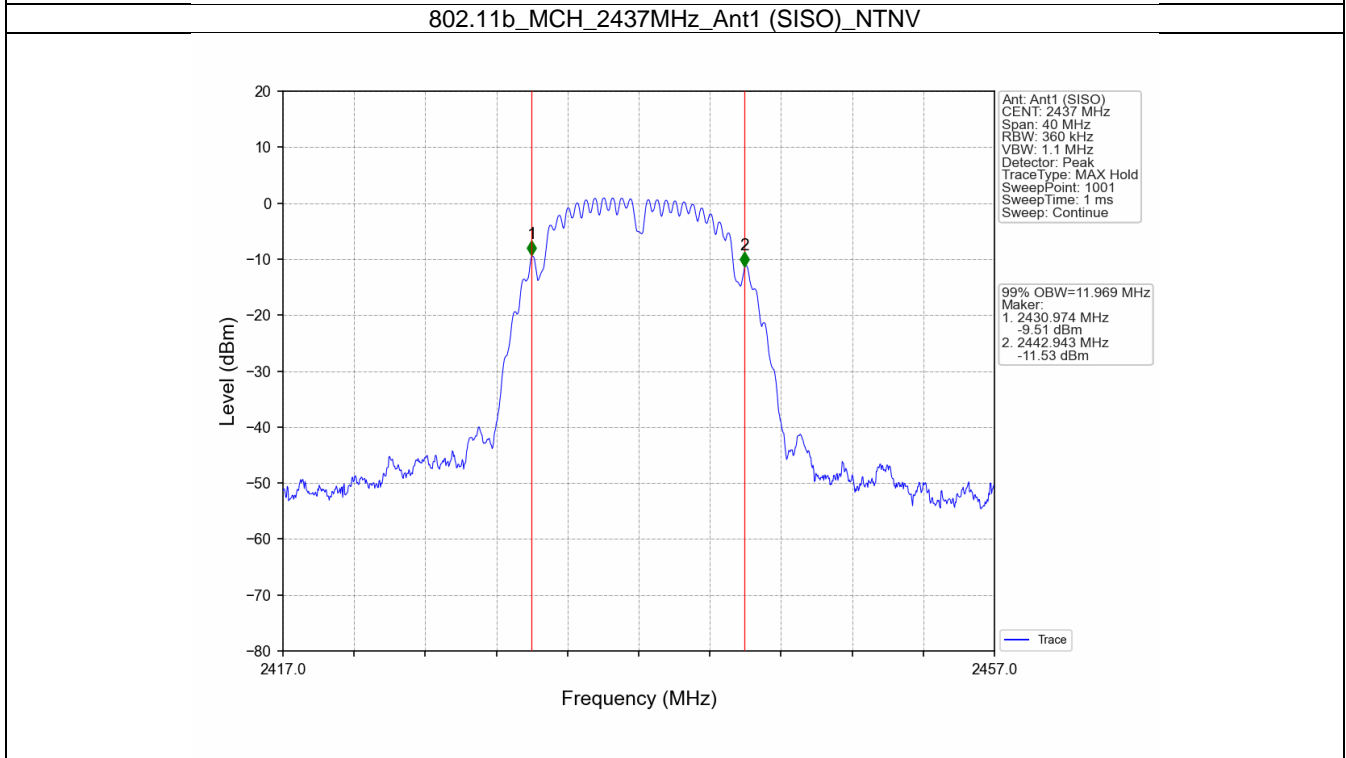
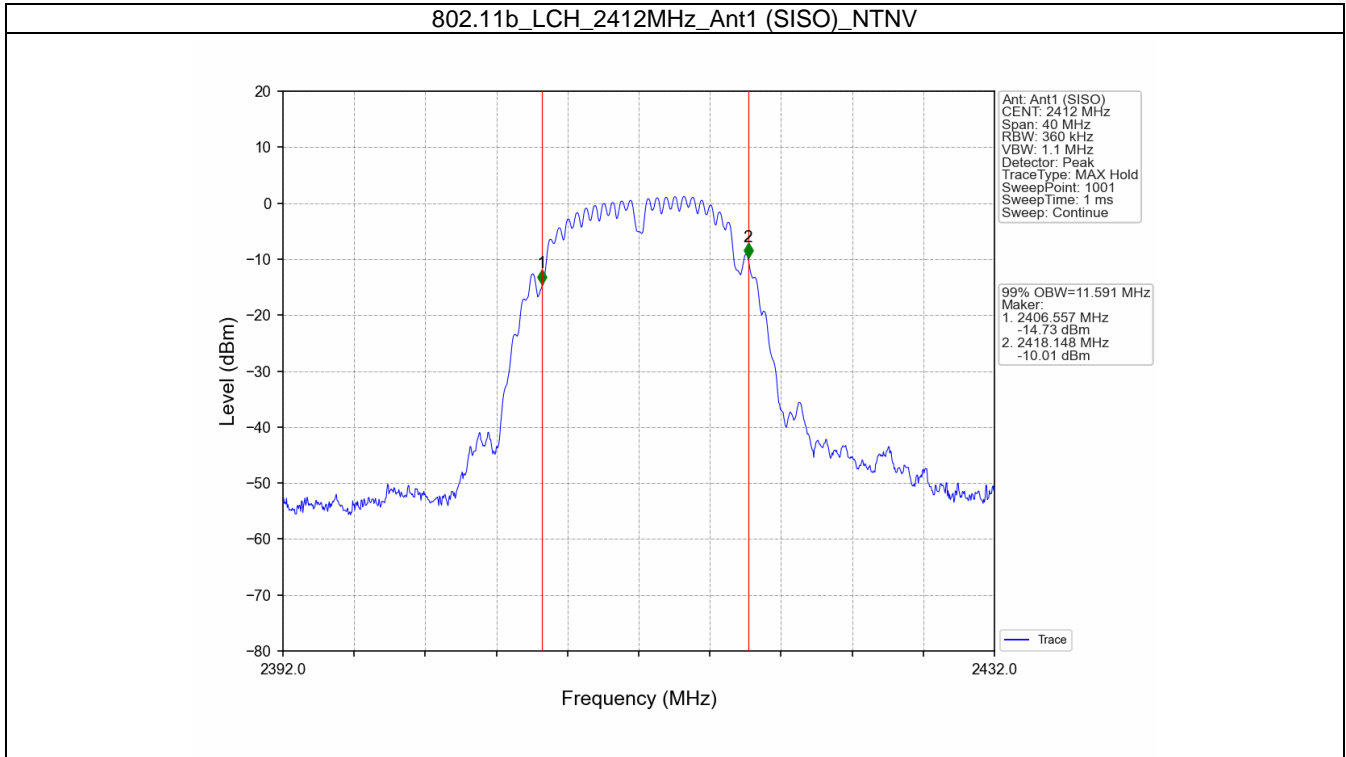
2.1 OBW

2.1.1 Test Result

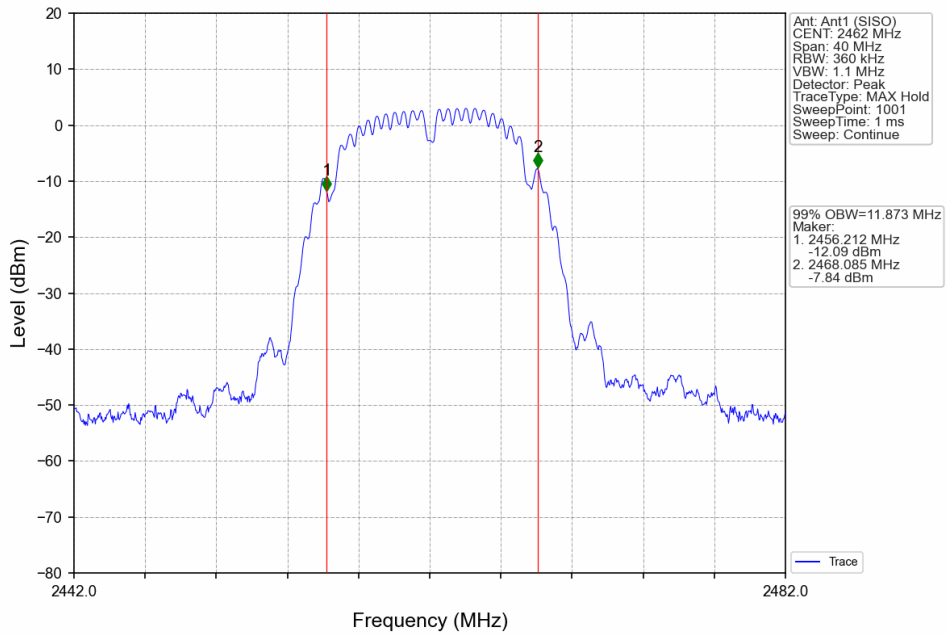
| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | | Verdict |
|----------------|---------|-----------------|-----|------------------------------|-------|---------|
| | | | | Result | Limit | |
| 802.11b | SISO | 2412 | 1 | 11.591 | / | Pass |
| | | 2437 | 1 | 11.969 | / | Pass |
| | | 2462 | 1 | 11.873 | / | Pass |
| 802.11g | SISO | 2412 | 1 | 17.429 | / | Pass |
| | | 2437 | 1 | 17.779 | / | Pass |
| | | 2462 | 1 | 17.454 | / | Pass |
| 802.11n (HT20) | SISO | 2412 | 1 | 18.050 | / | Pass |
| | | 2437 | 1 | 18.426 | / | Pass |
| | | 2462 | 1 | 18.025 | / | Pass |
| 802.11n (HT40) | SISO | 2422 | 1 | 36.060 | / | Pass |
| | | 2437 | 1 | 36.914 | / | Pass |
| | | 2452 | 1 | 37.609 | / | Pass |



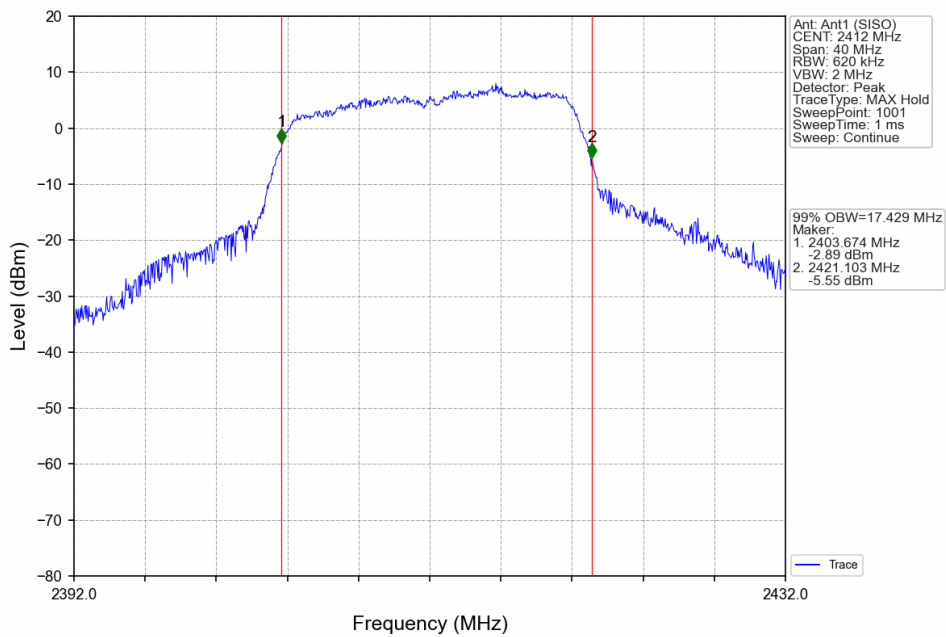
2.1.2 Test Graph



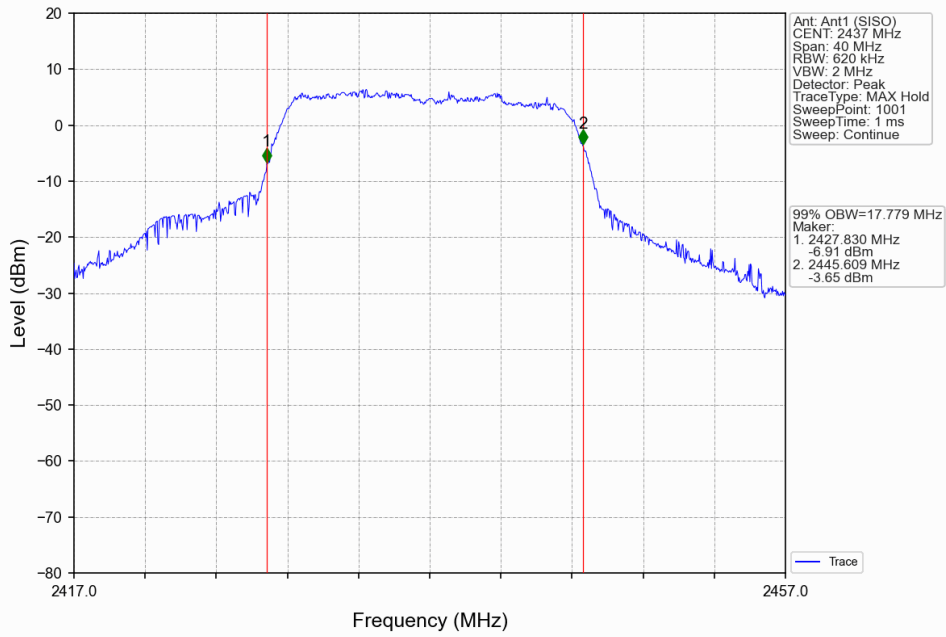
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



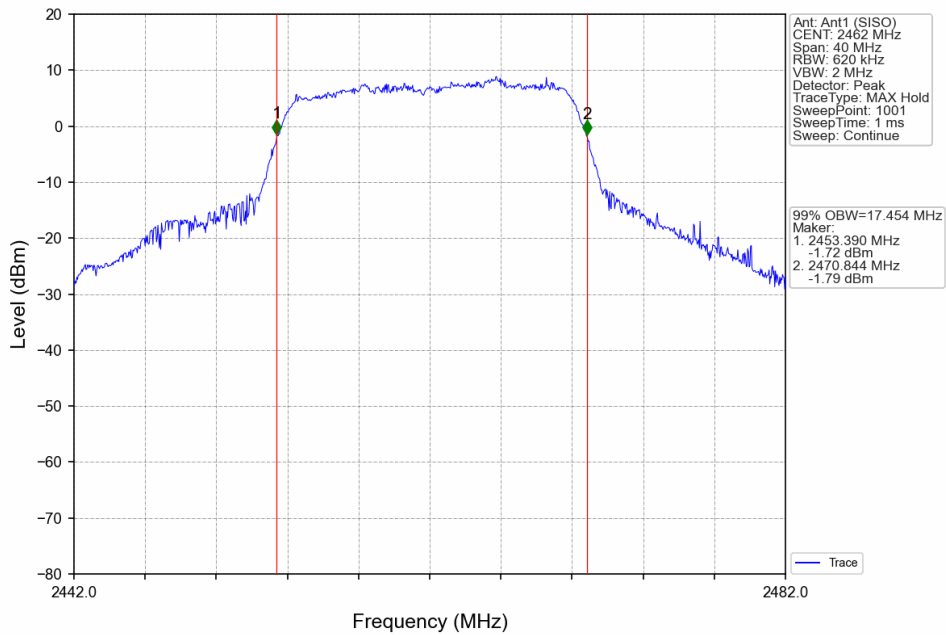
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



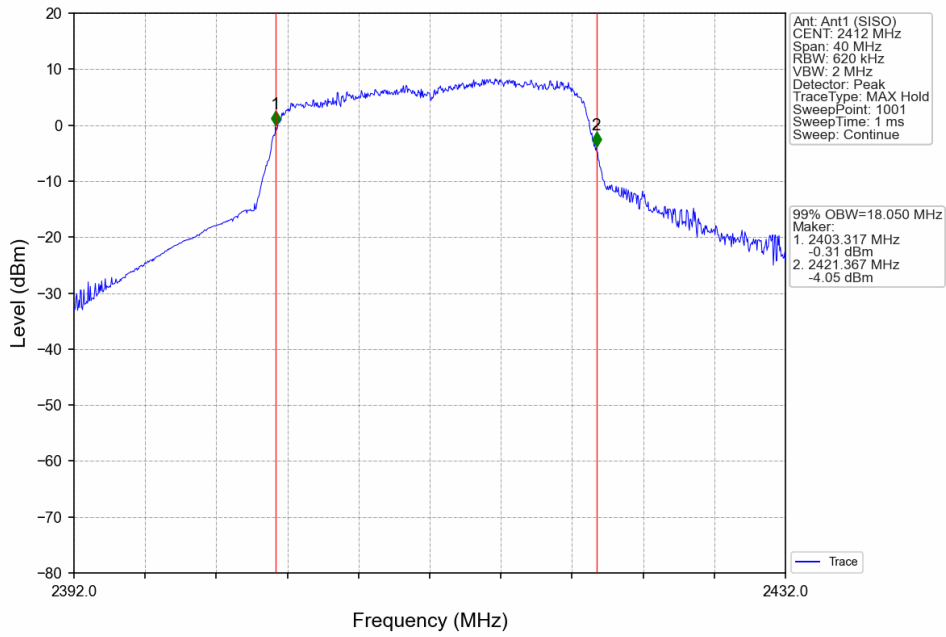
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



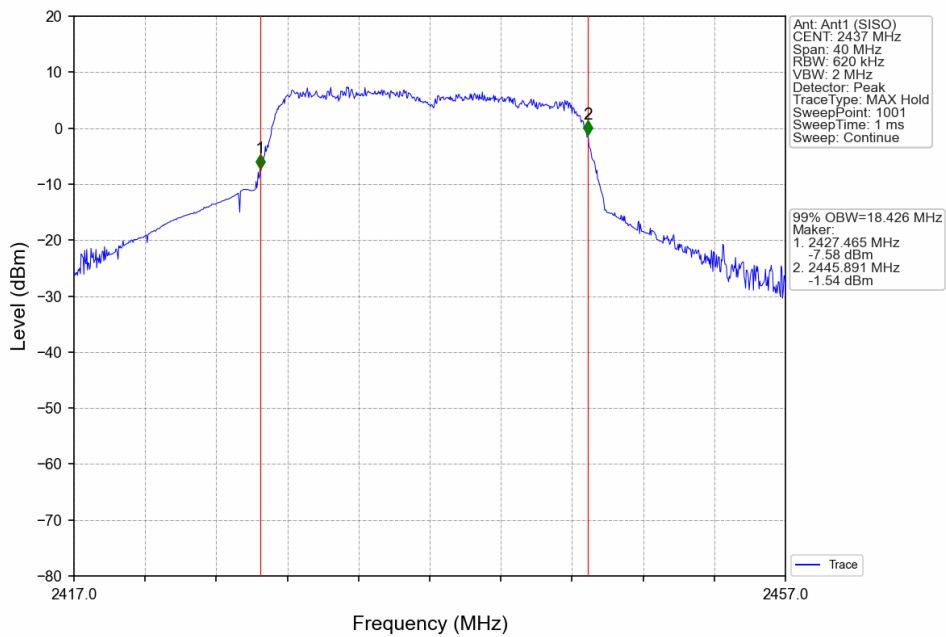
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



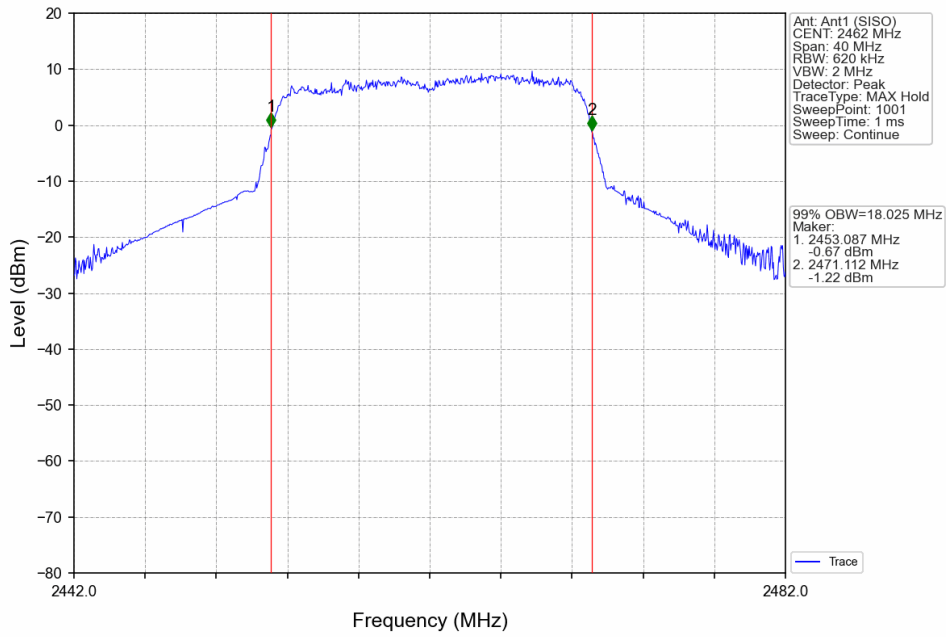
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



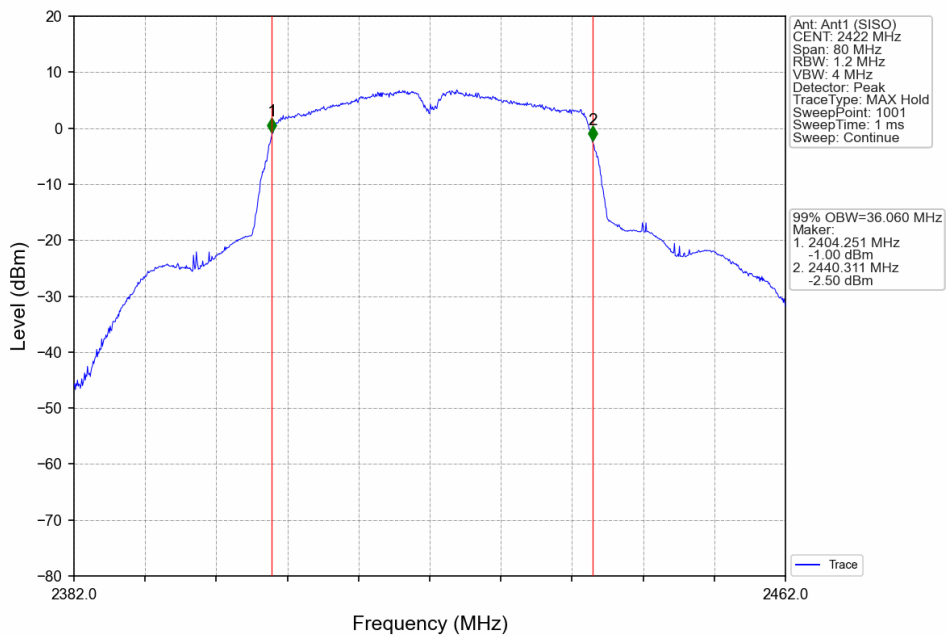
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



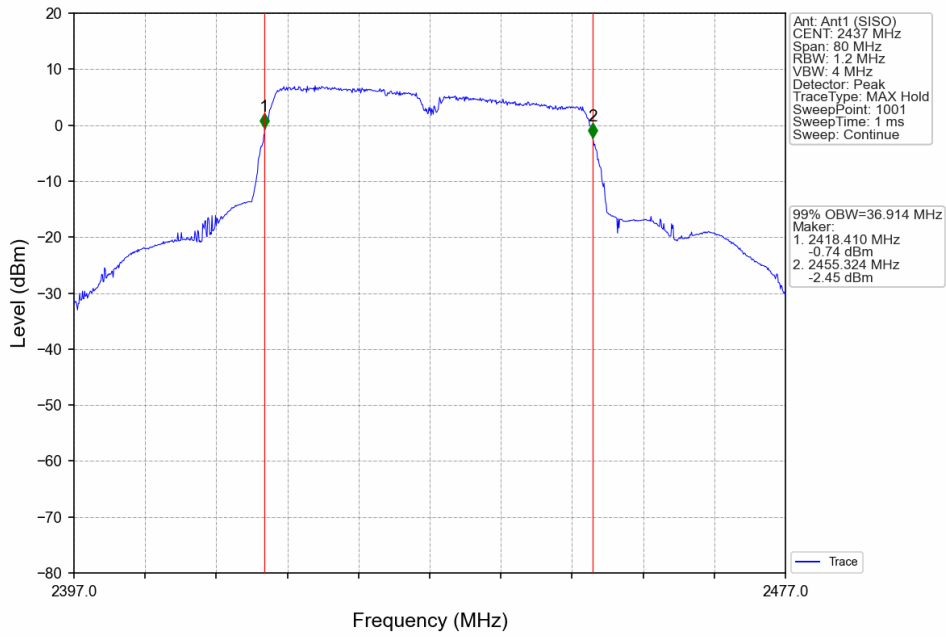
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



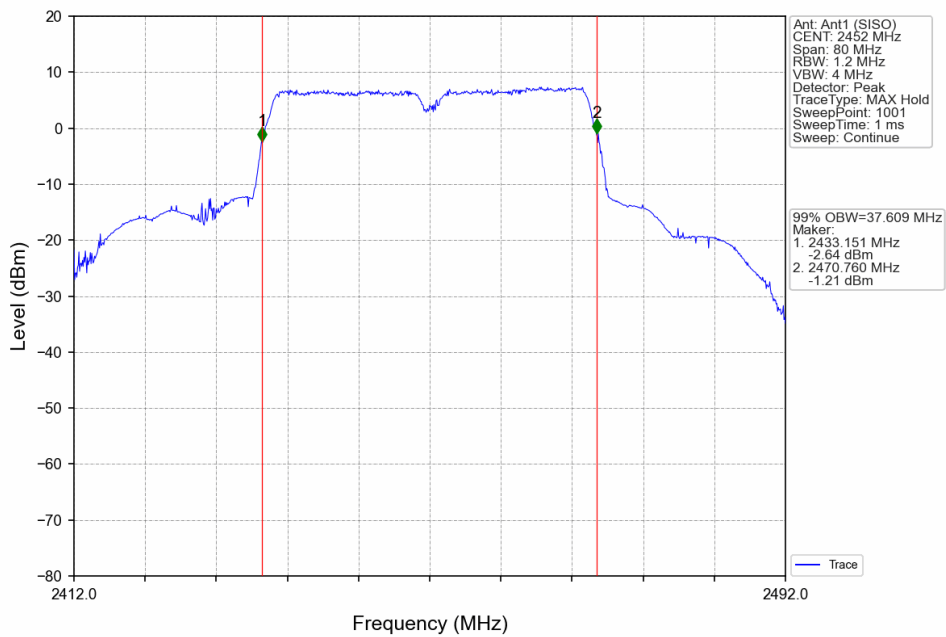
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



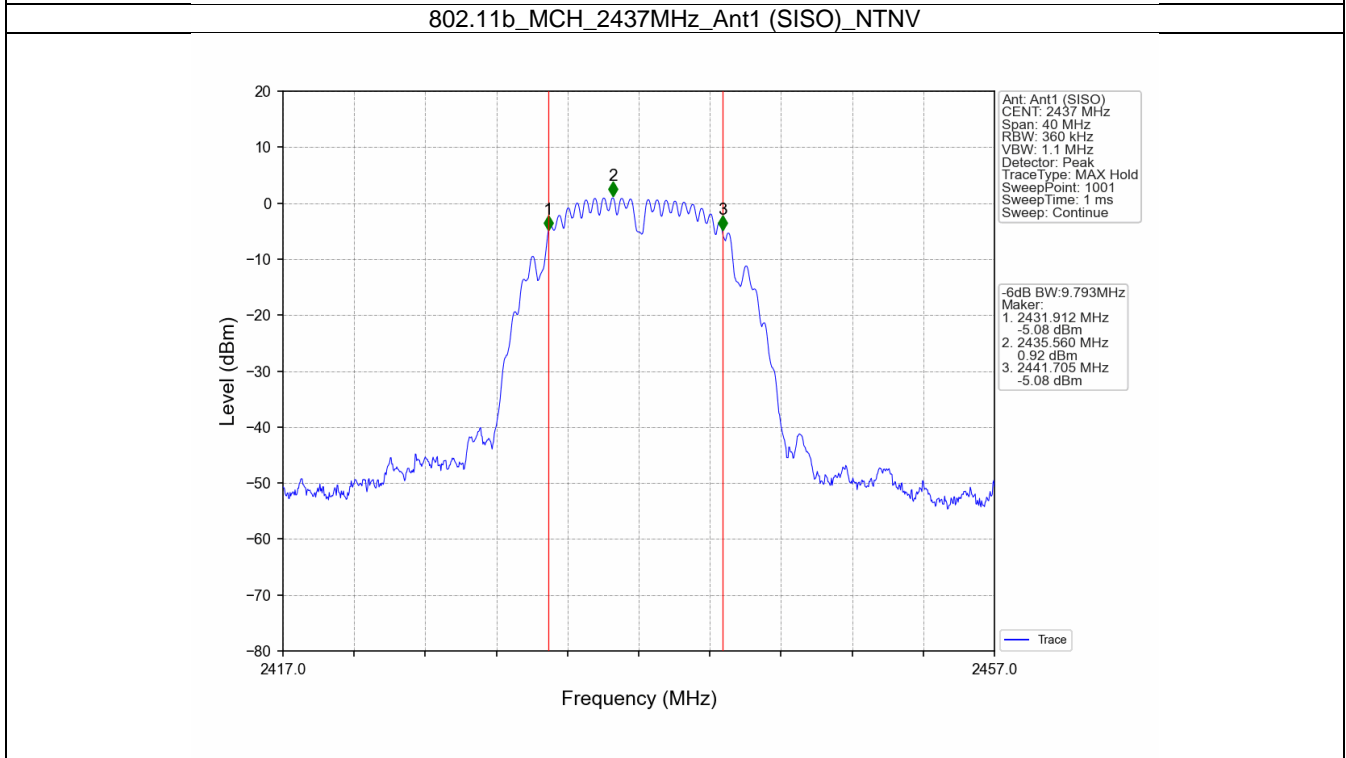
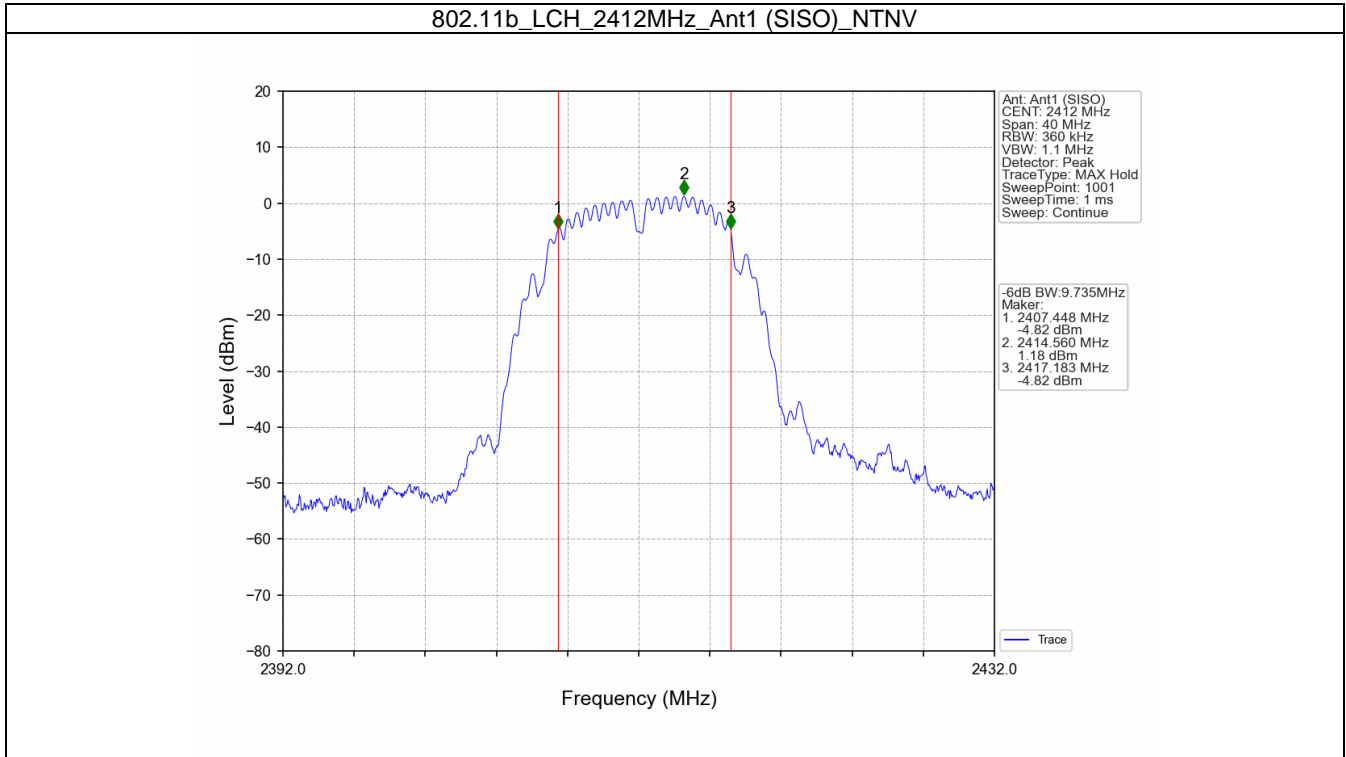


2.2 6dB BW

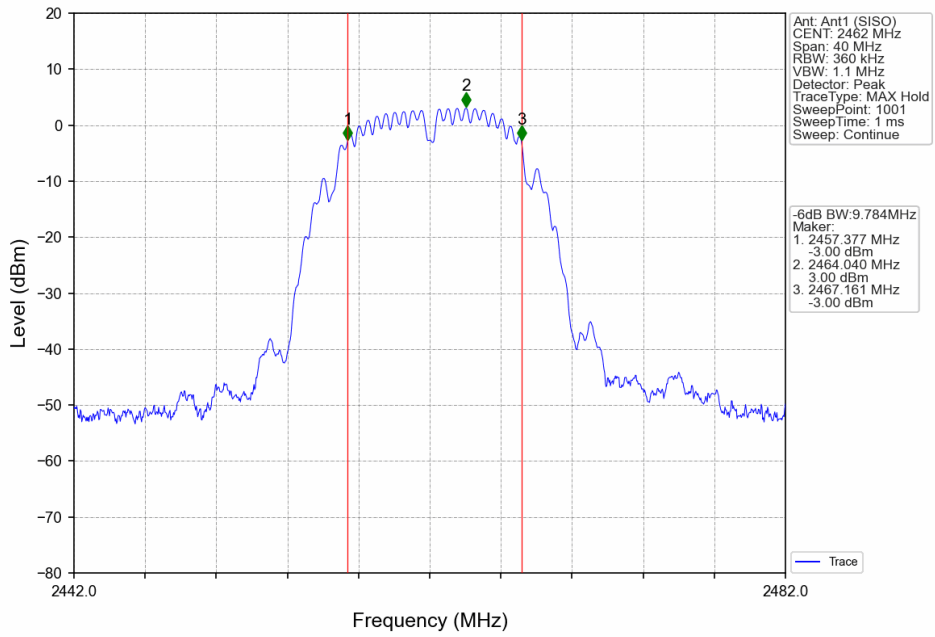
2.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
| | | | | Result | Limit | |
| 802.11b | SISO | 2412 | 1 | 9.735 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 9.793 | ≥ 0.5 | Pass |
| | | 2462 | 1 | 9.784 | ≥ 0.5 | Pass |
| 802.11g | SISO | 2412 | 1 | 15.772 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 16.446 | ≥ 0.5 | Pass |
| | | 2462 | 1 | 16.273 | ≥ 0.5 | Pass |
| 802.11n (HT20) | SISO | 2412 | 1 | 16.885 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 17.355 | ≥ 0.5 | Pass |
| | | 2462 | 1 | 17.284 | ≥ 0.5 | Pass |
| 802.11n (HT40) | SISO | 2422 | 1 | 34.970 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 35.947 | ≥ 0.5 | Pass |
| | | 2452 | 1 | 36.393 | ≥ 0.5 | Pass |

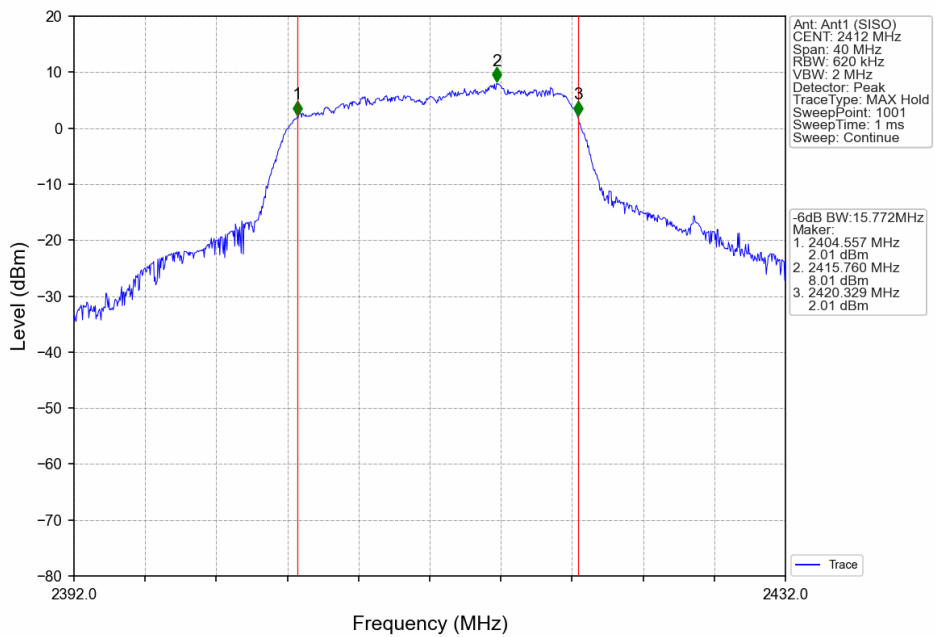
2.2.2 Test Graph



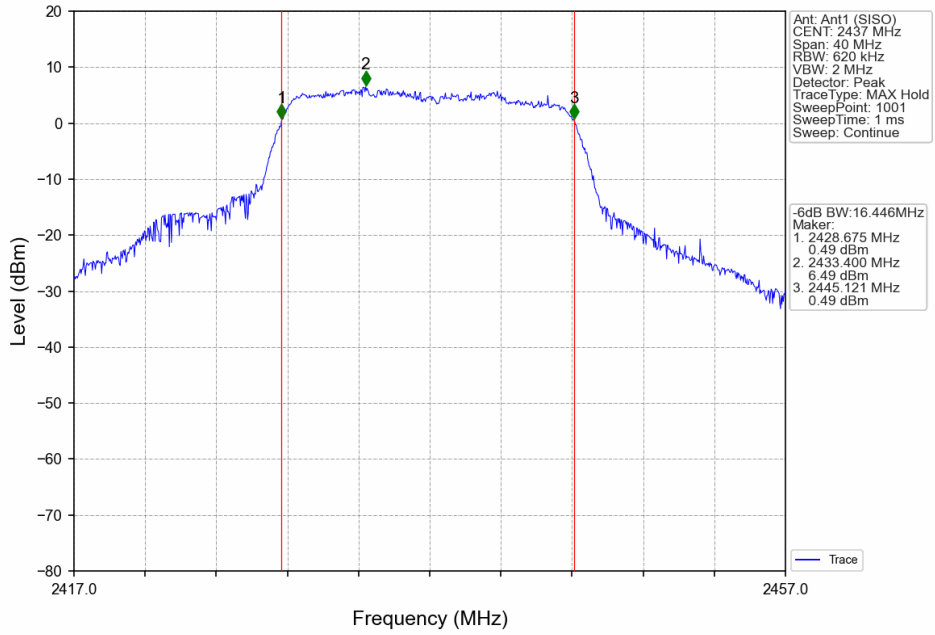
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



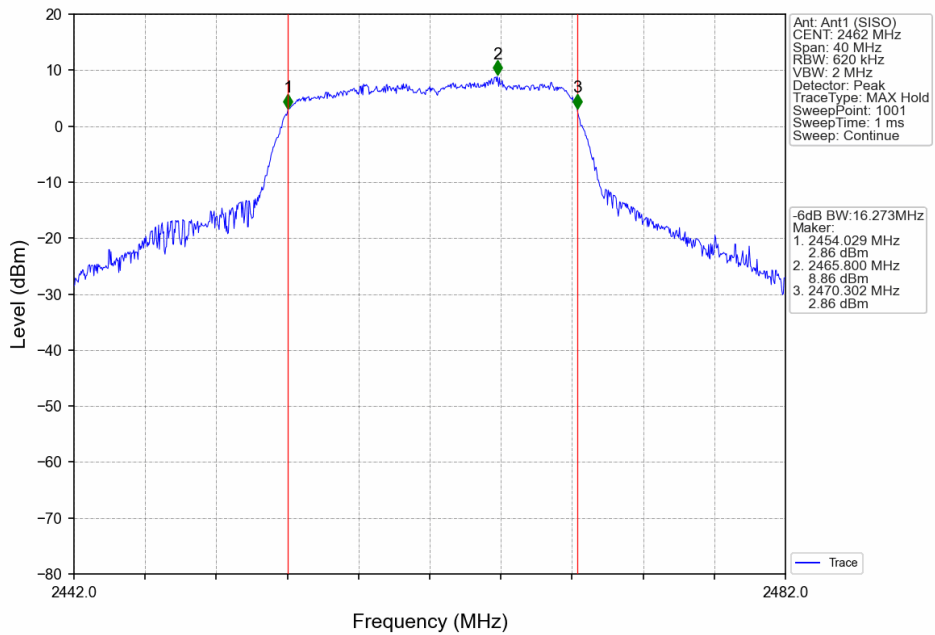
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



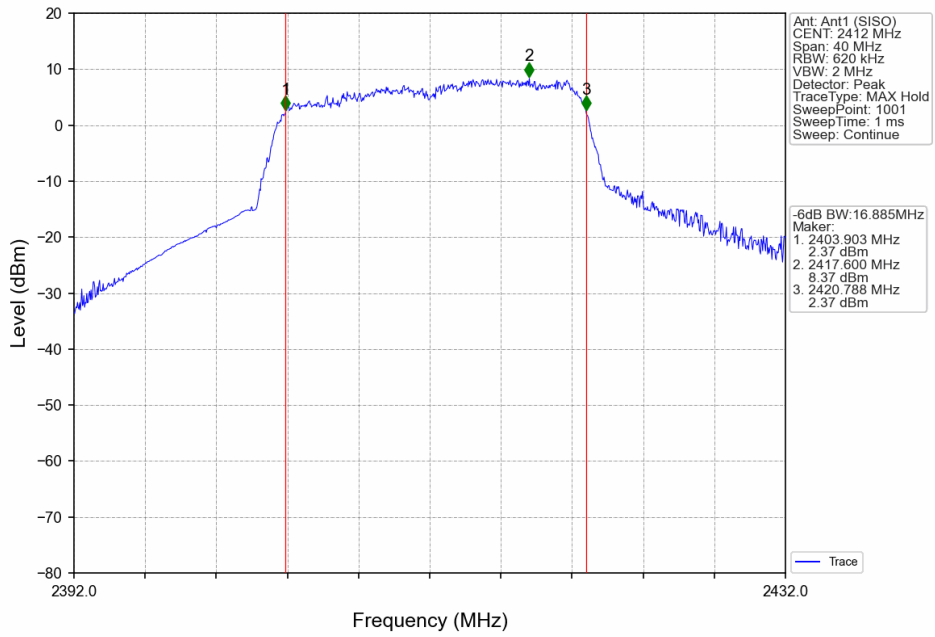
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



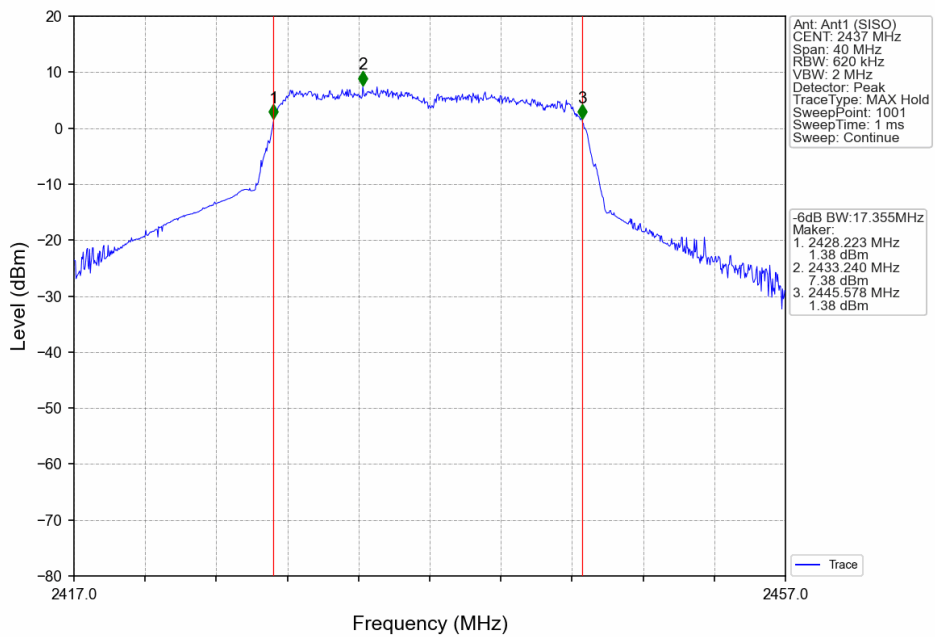
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



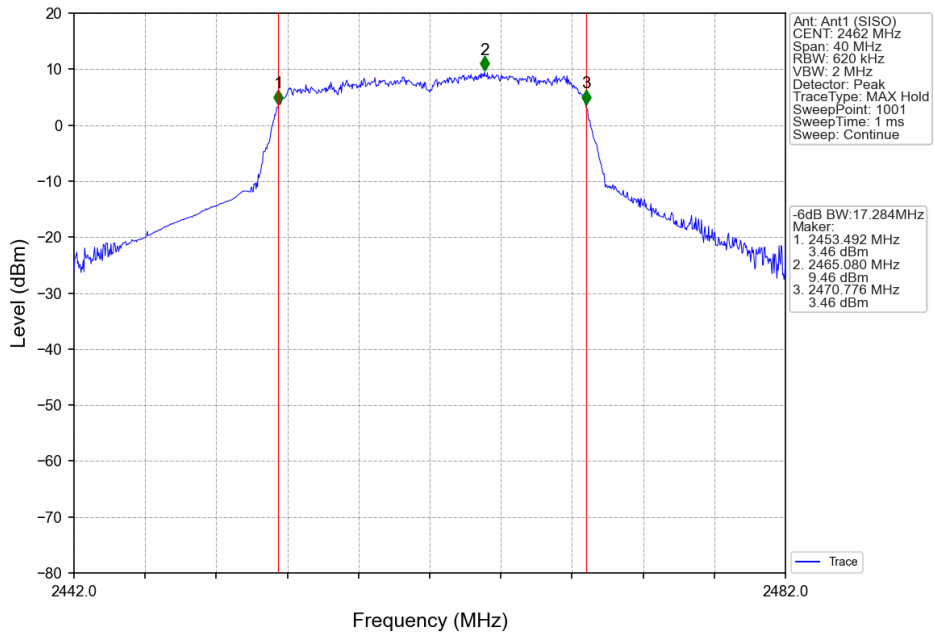
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



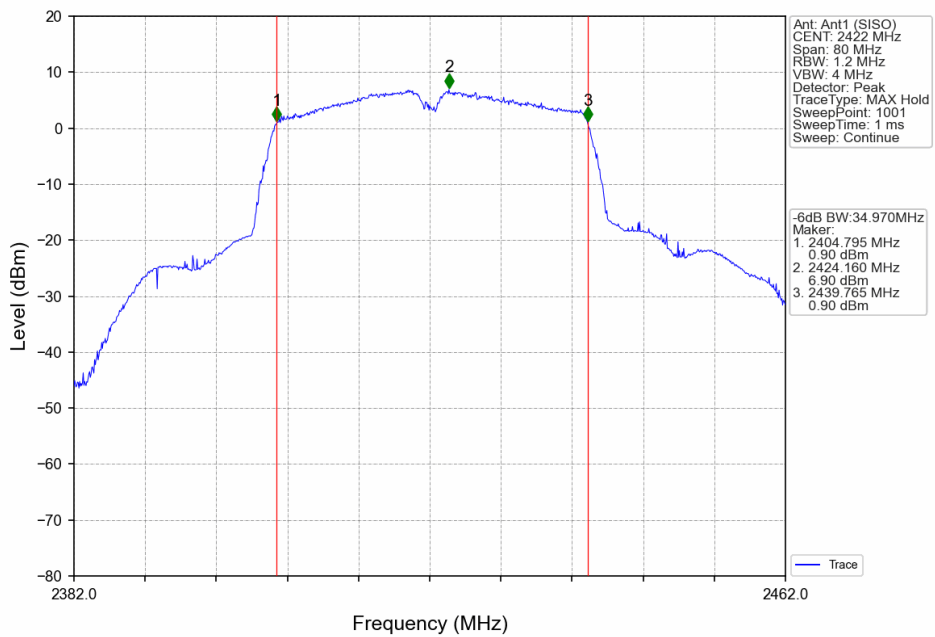
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



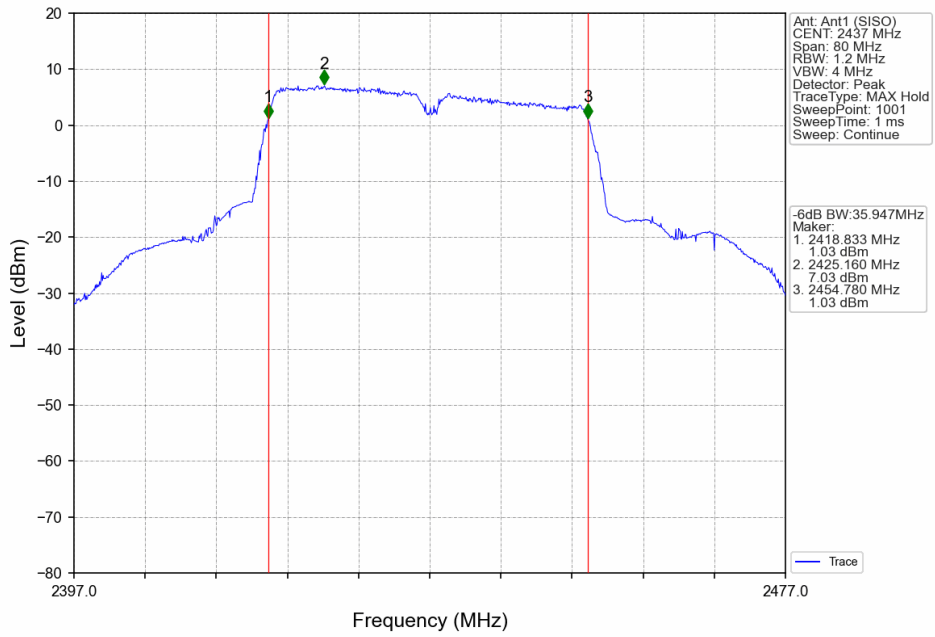
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



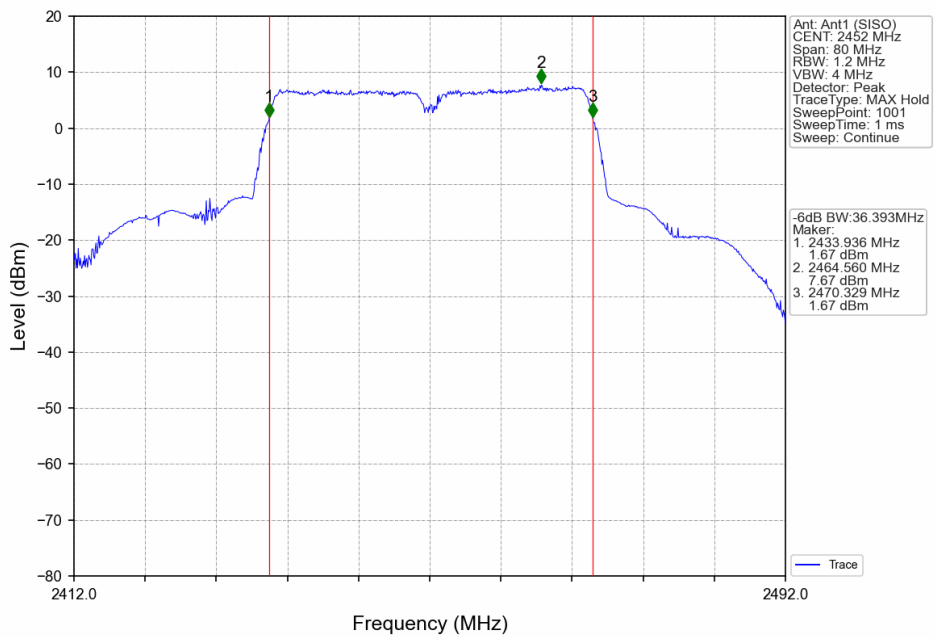
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV





3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) | | Verdict |
|----------------|---------|-----------------|---|-------|---------|
| | | | ANT1 | Limit | |
| 802.11b | SISO | 2412 | 1.30 | <=30 | Pass |
| | | 2437 | 3.46 | <=30 | Pass |
| | | 2462 | 2.99 | <=30 | Pass |
| 802.11g | SISO | 2412 | 6.22 | <=30 | Pass |
| | | 2437 | 5.07 | <=30 | Pass |
| | | 2462 | 3.01 | <=30 | Pass |
| 802.11n (HT20) | SISO | 2412 | 4.73 | <=30 | Pass |
| | | 2437 | 3.76 | <=30 | Pass |
| | | 2462 | 0.53 | <=30 | Pass |
| 802.11n (HT40) | SISO | 2422 | 1.49 | <=30 | Pass |
| | | 2437 | 1.41 | <=30 | Pass |
| | | 2452 | 7.07 | <=30 | Pass |

Note1: Antenna Gain: Ant1: 2.51dBi;



4. Maximum Power Spectral Density

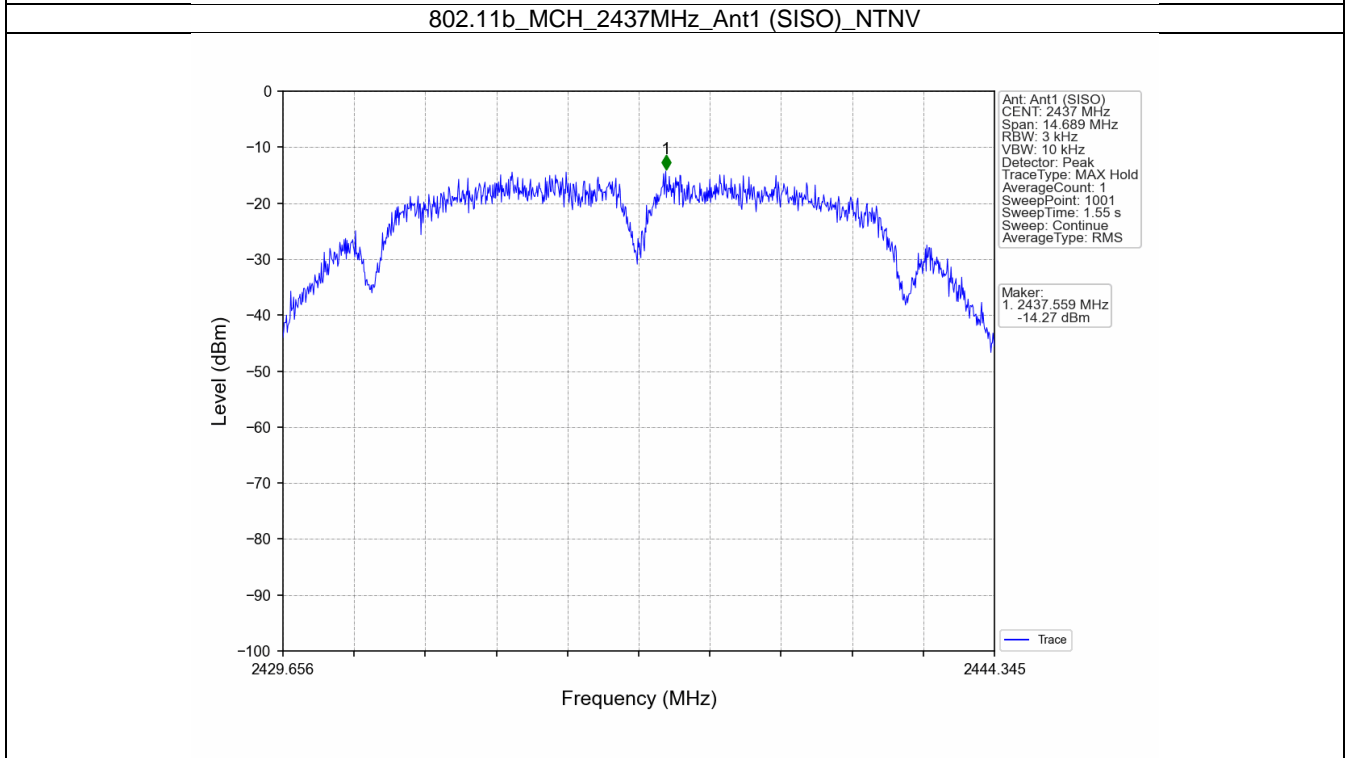
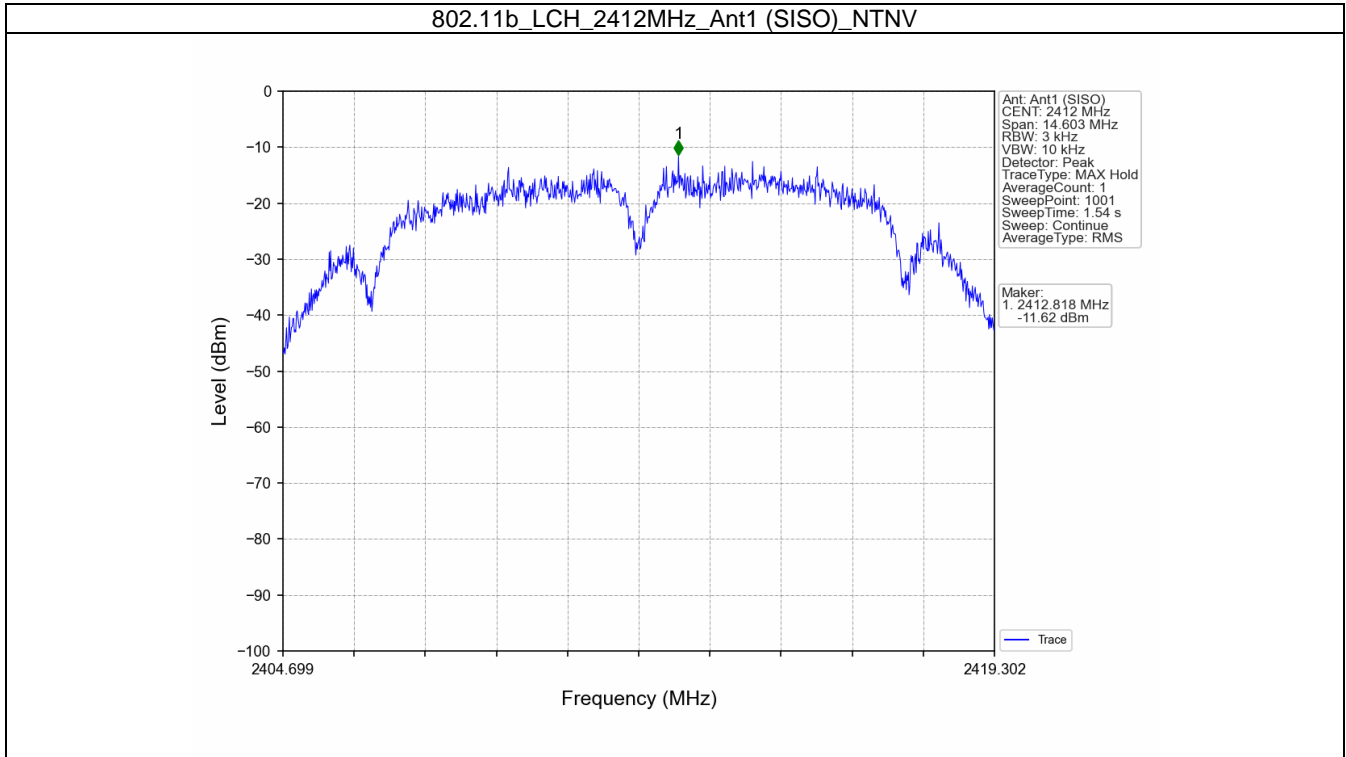
4.1 PSD

4.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) | | Verdict |
|----------------|---------|-----------------|------------------------|-------|---------|
| | | | ANT1 | Limit | |
| 802.11b | SISO | 2412 | -11.62 | <=8 | Pass |
| | | 2437 | -14.27 | <=8 | Pass |
| | | 2462 | -12.16 | <=8 | Pass |
| 802.11g | SISO | 2412 | -12.86 | <=8 | Pass |
| | | 2437 | -14.42 | <=8 | Pass |
| | | 2462 | -12.68 | <=8 | Pass |
| 802.11n (HT20) | SISO | 2412 | -13.24 | <=8 | Pass |
| | | 2437 | -13.79 | <=8 | Pass |
| | | 2462 | -12.76 | <=8 | Pass |
| 802.11n (HT40) | SISO | 2422 | -18.59 | <=8 | Pass |
| | | 2437 | -17.95 | <=8 | Pass |
| | | 2452 | -17.39 | <=8 | Pass |

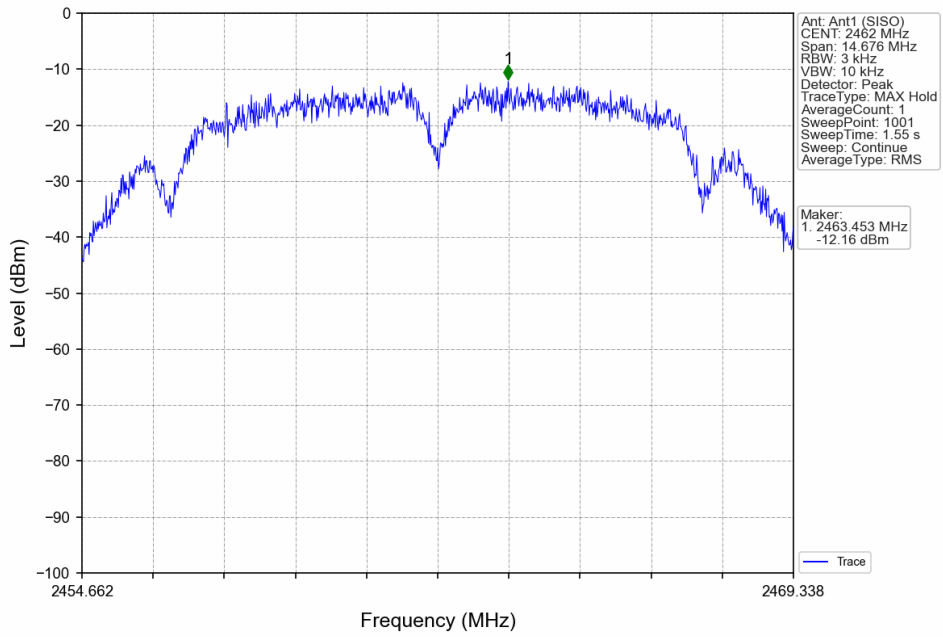
Note1: Antenna Gain: Ant1: 2.51dBi;

4.1.2 Test Graph

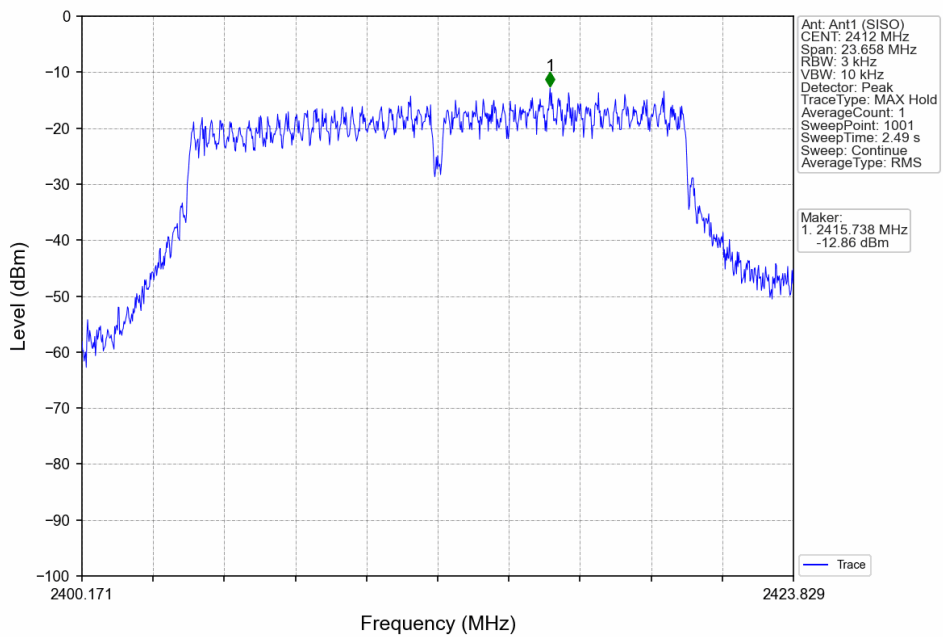




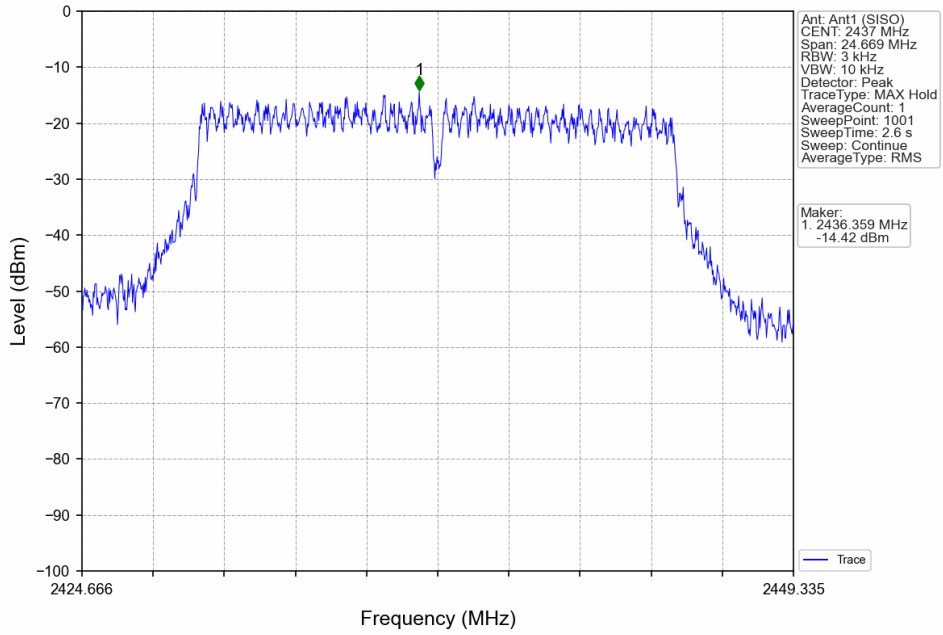
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



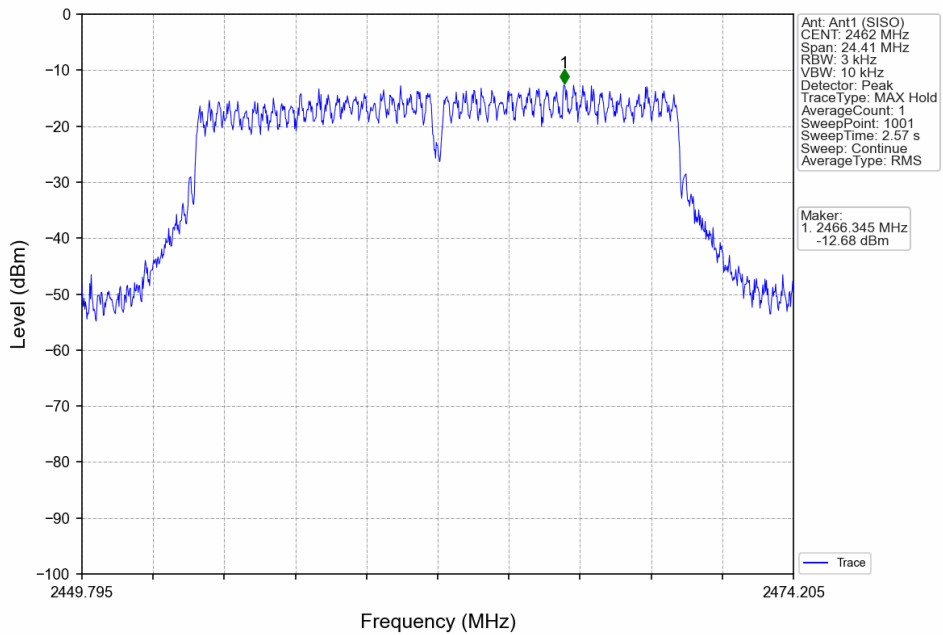
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



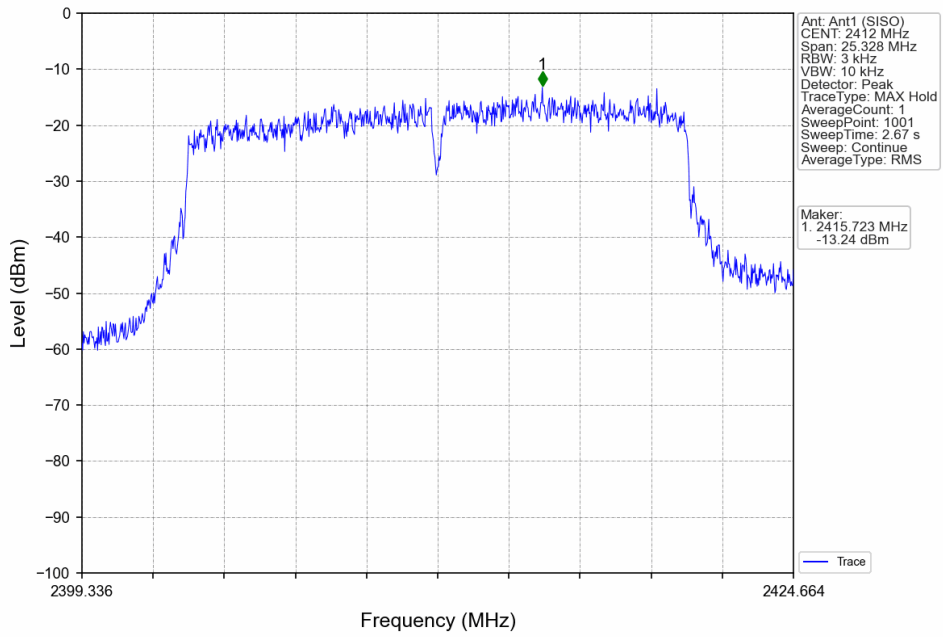
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



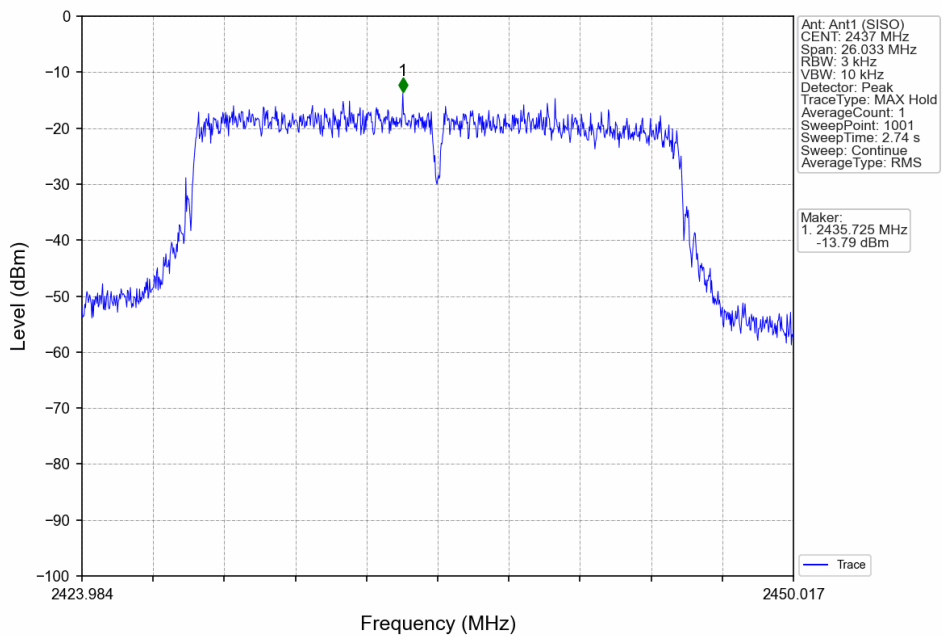
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

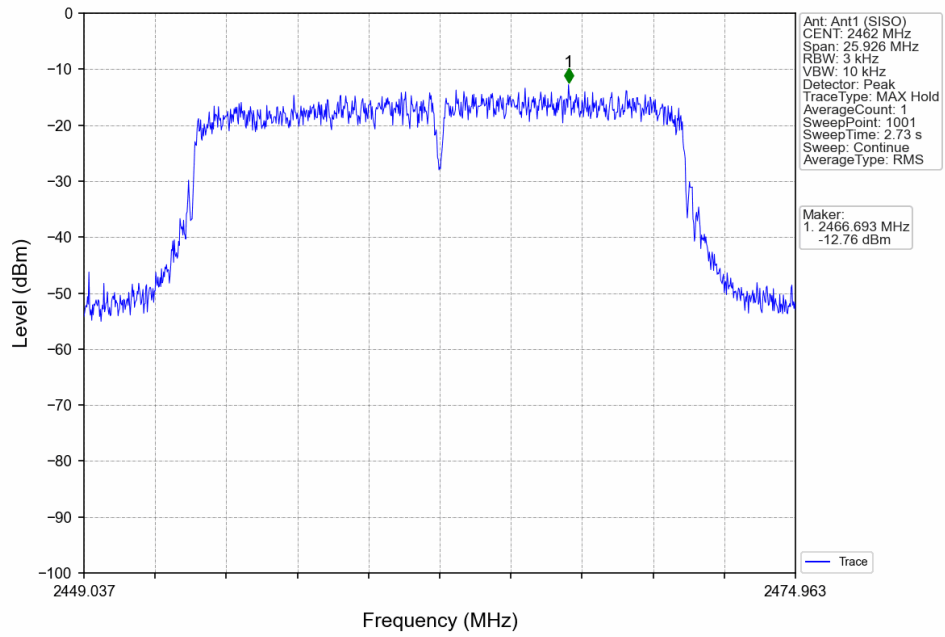


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

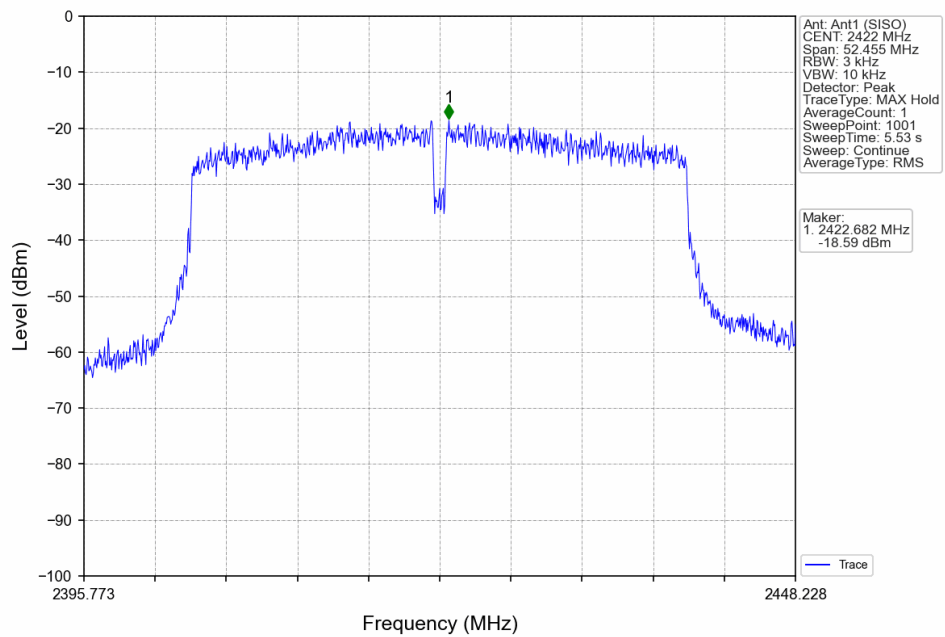




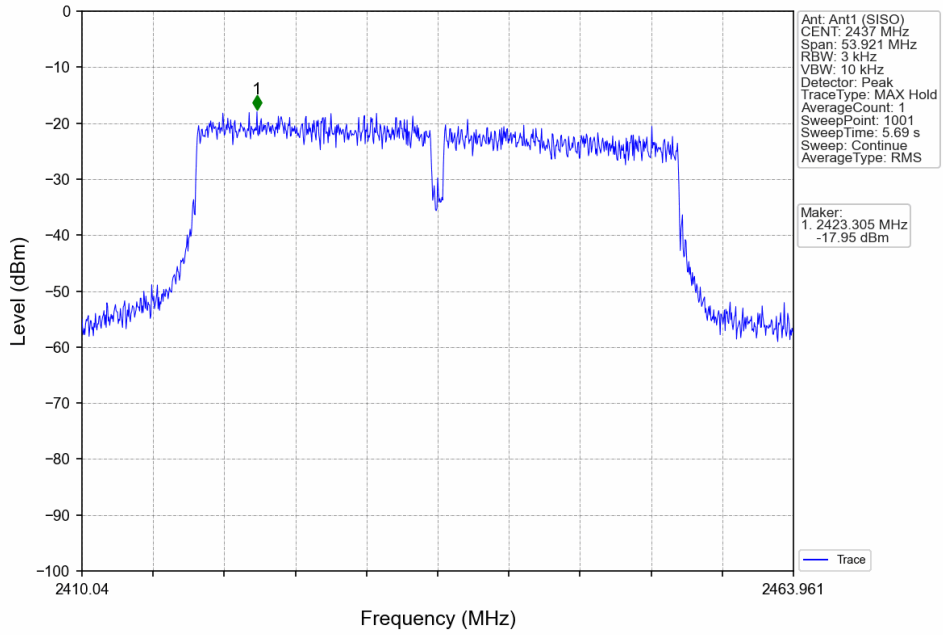
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



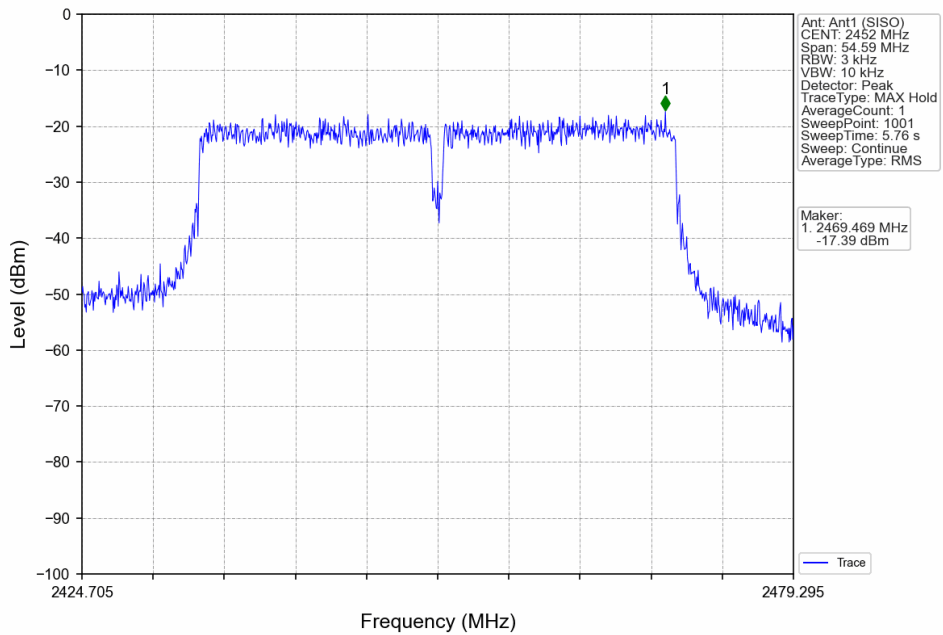
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV





5. Unwanted Emissions In Non-restricted Frequency Bands

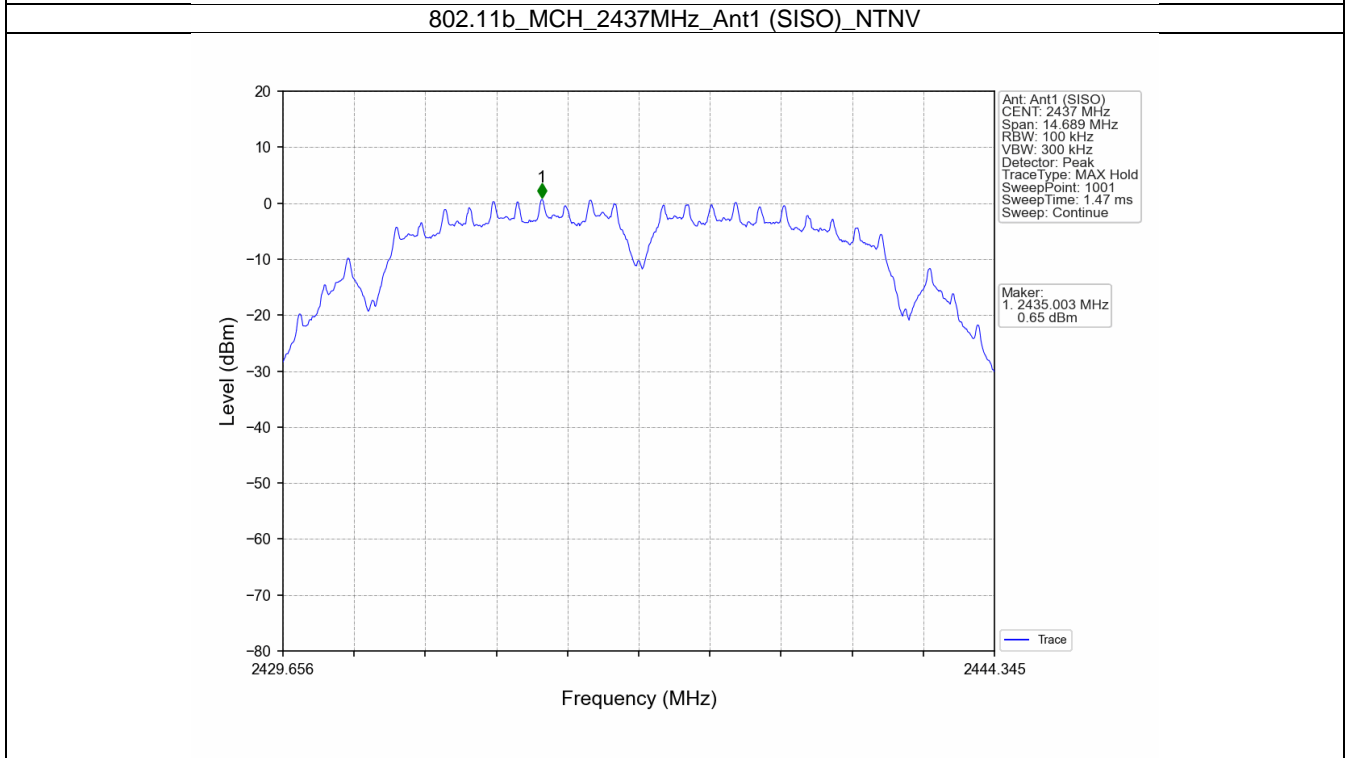
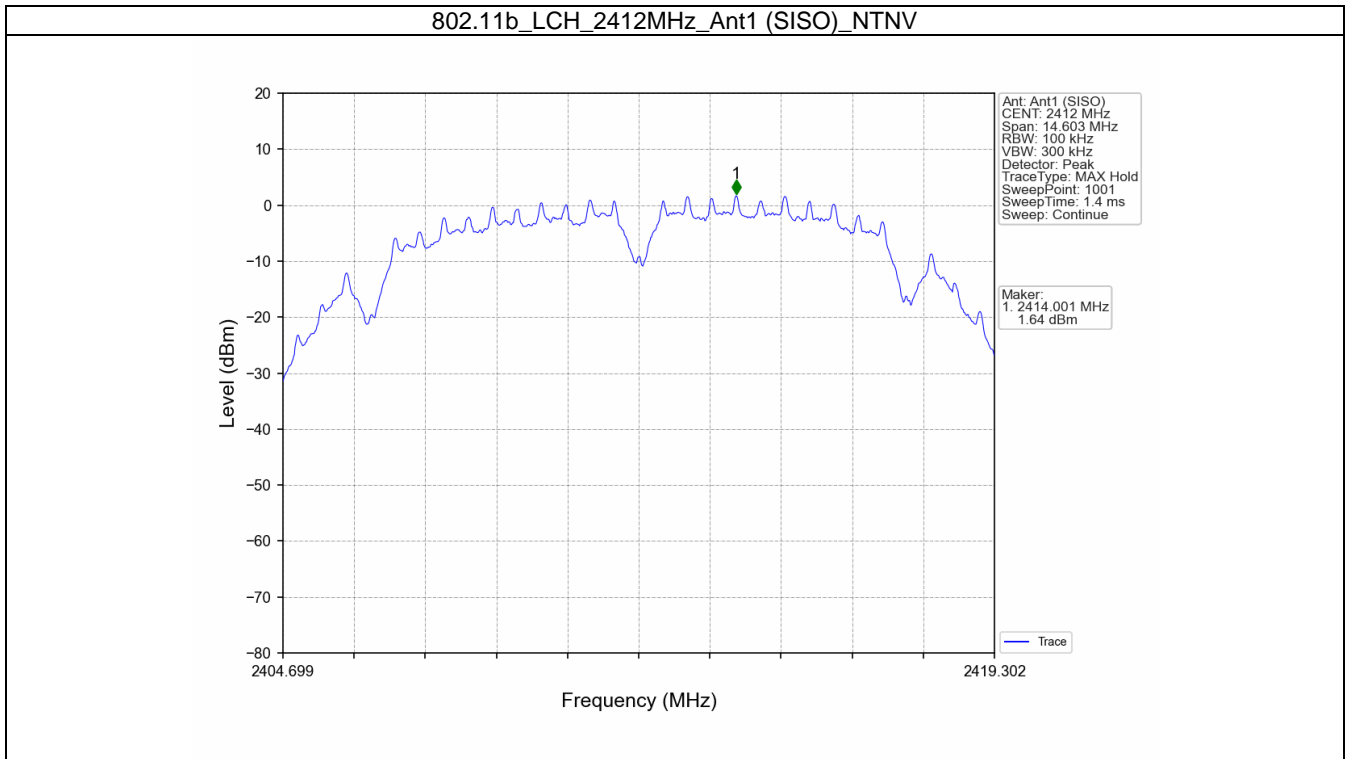
5.1 Ref

5.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b | SISO | 2412 | 1 | 1.64 |
| | | 2437 | 1 | 0.65 |
| | | 2462 | 1 | 2.87 |
| 802.11g | SISO | 2412 | 1 | 1.43 |
| | | 2437 | 1 | 0.40 |
| | | 2462 | 1 | 2.56 |
| 802.11n (HT20) | SISO | 2412 | 1 | 1.61 |
| | | 2437 | 1 | 0.20 |
| | | 2462 | 1 | 2.48 |
| 802.11n (HT40) | SISO | 2422 | 1 | -2.56 |
| | | 2437 | 1 | -2.53 |
| | | 2452 | 1 | -1.83 |

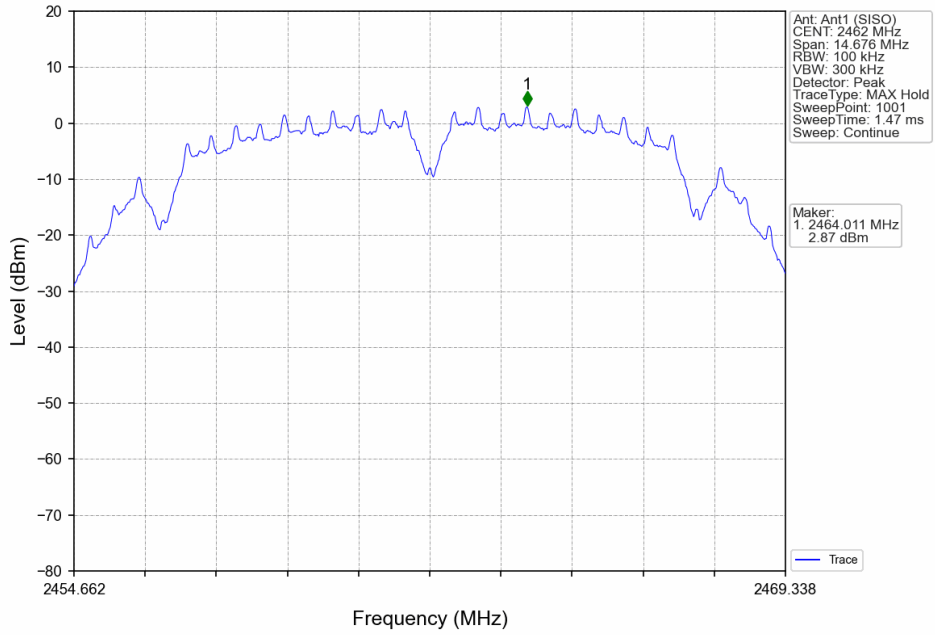
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph

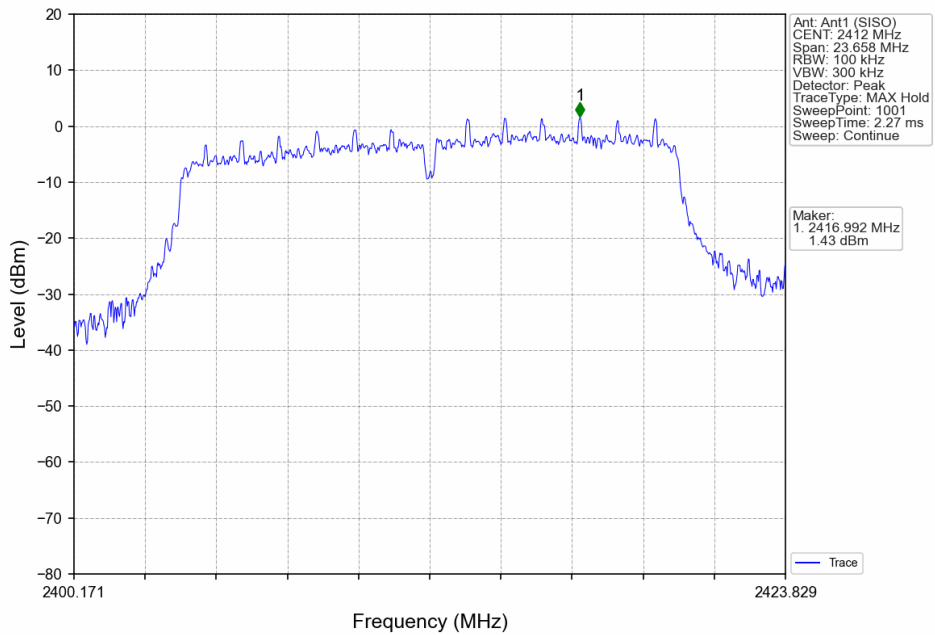




802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

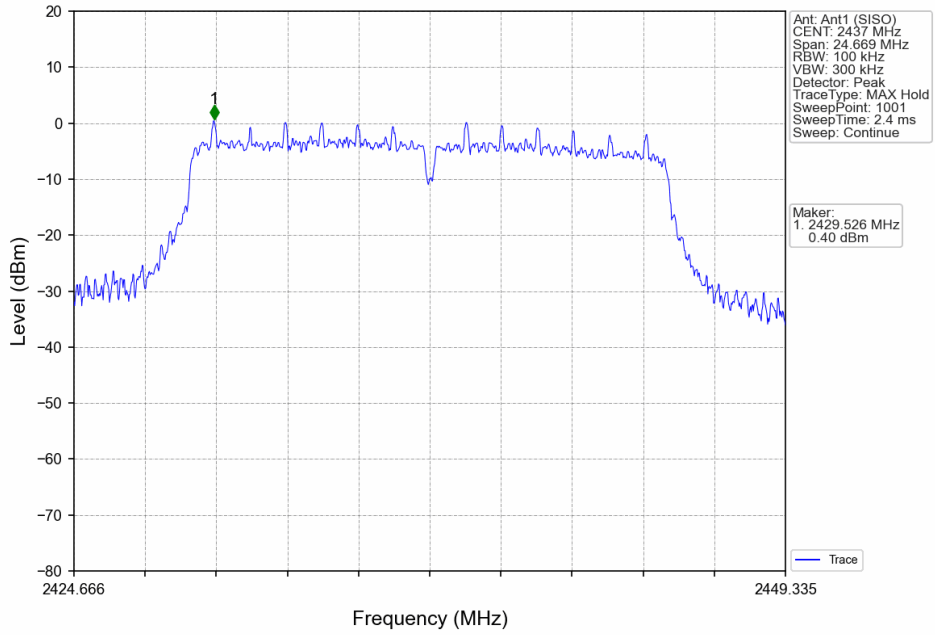


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

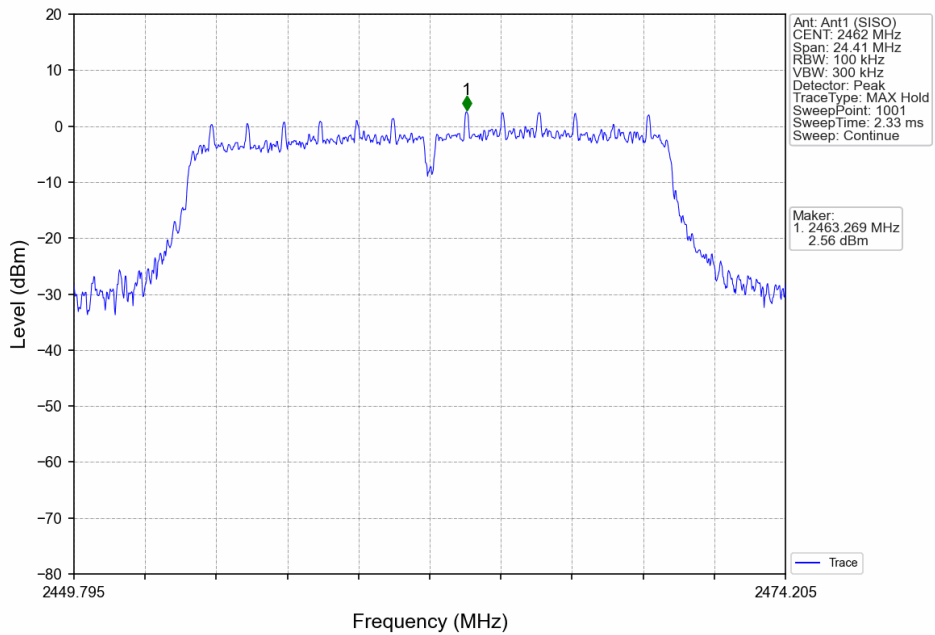




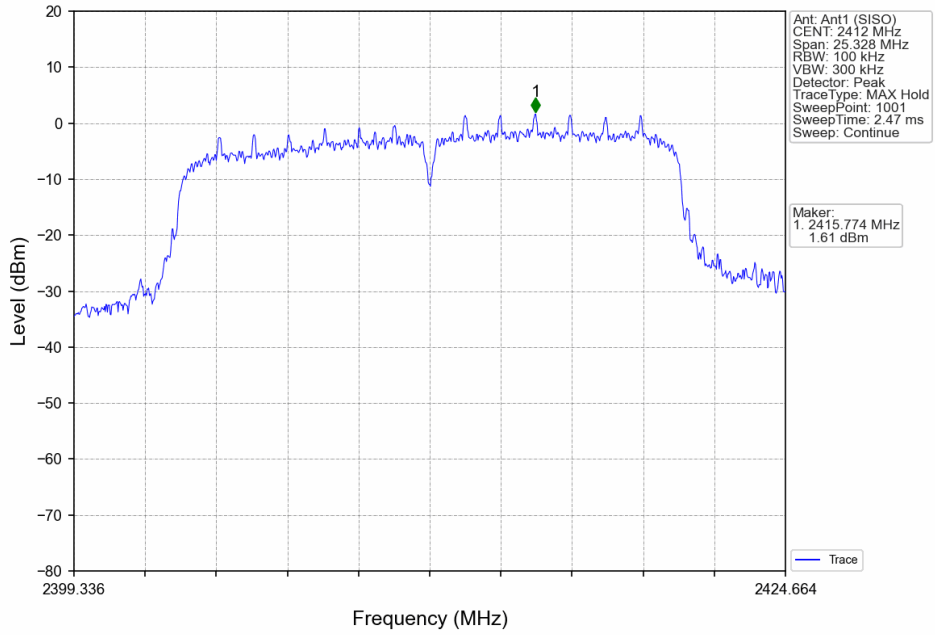
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



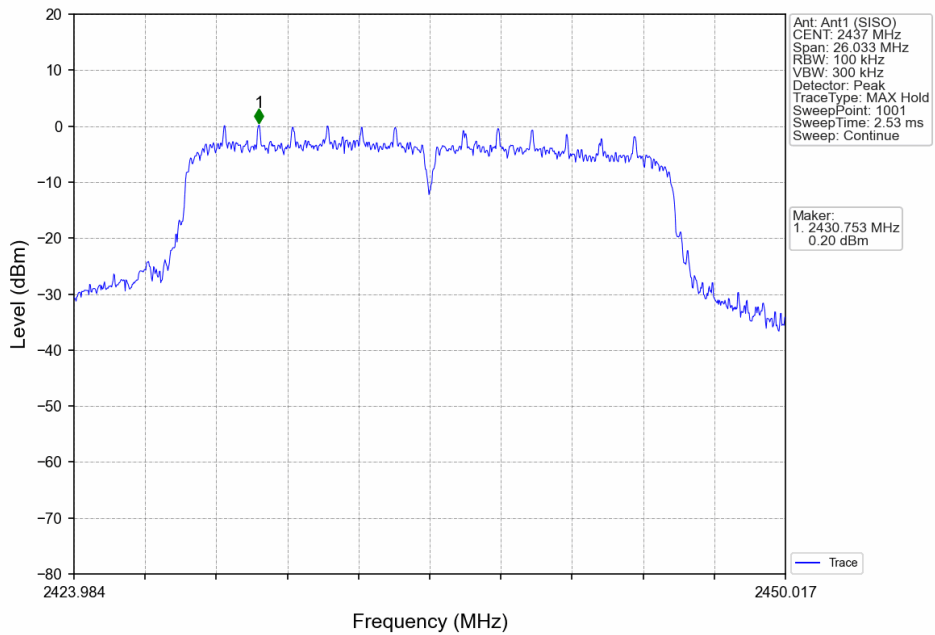
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



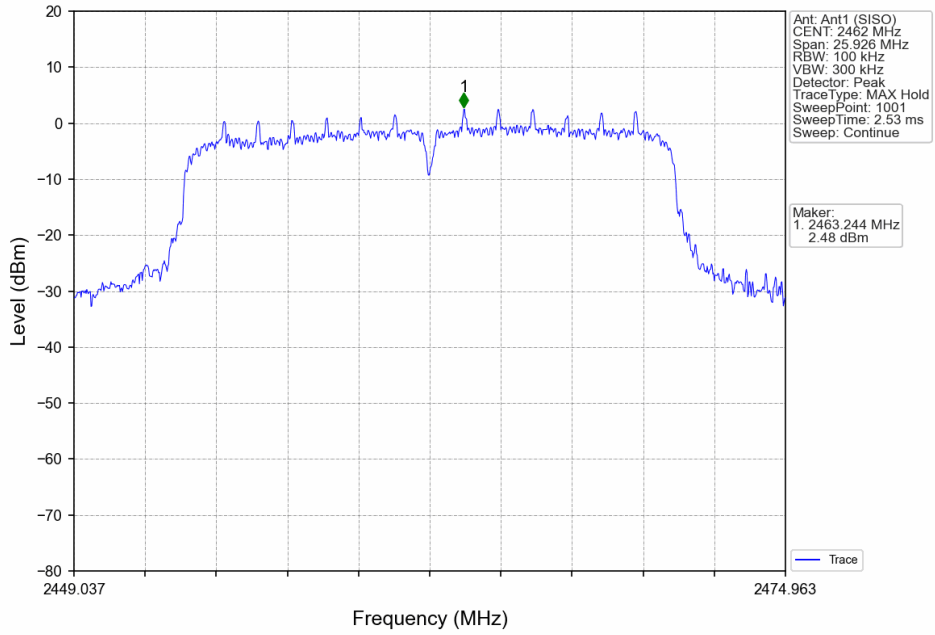
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



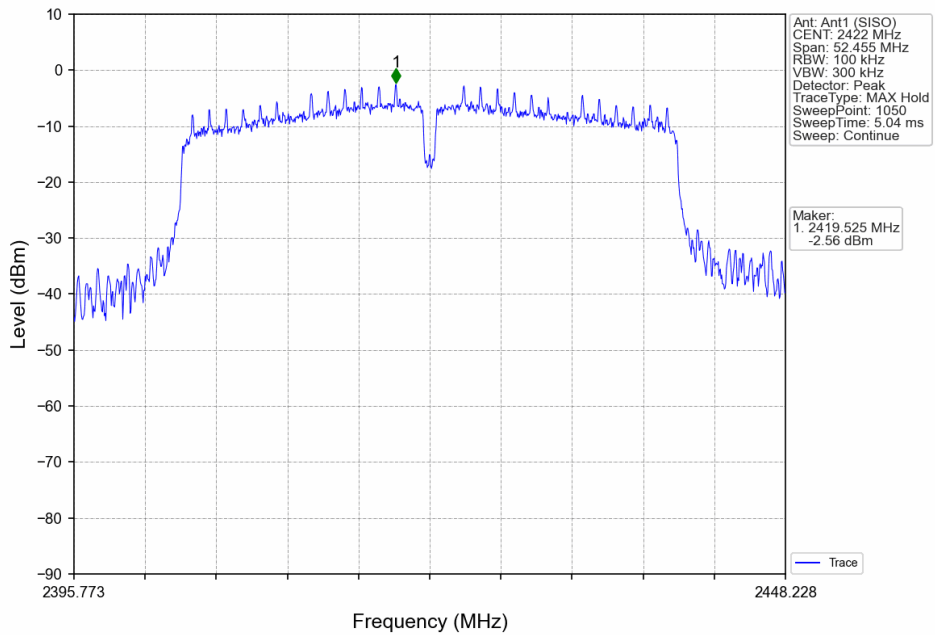
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



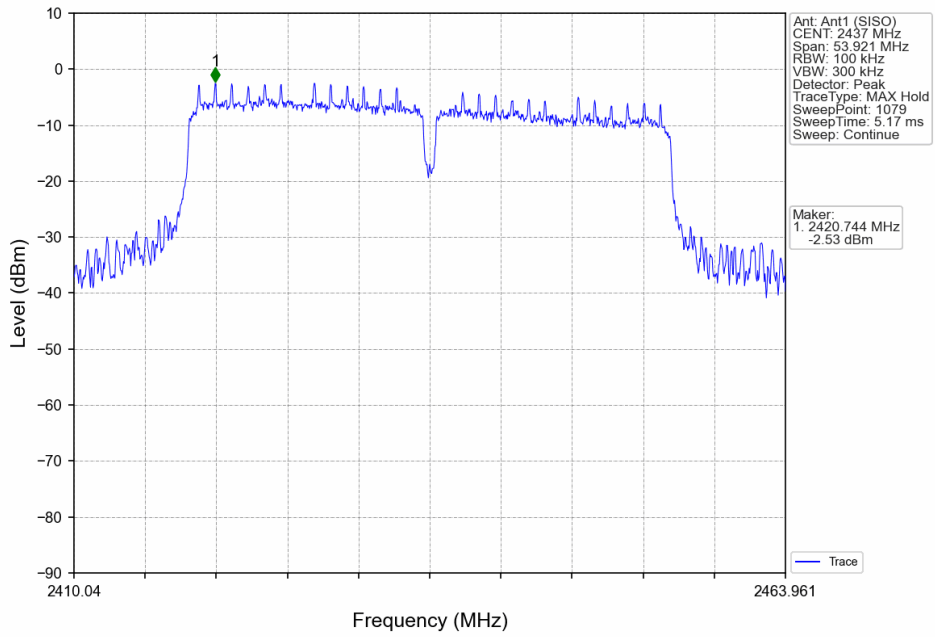
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



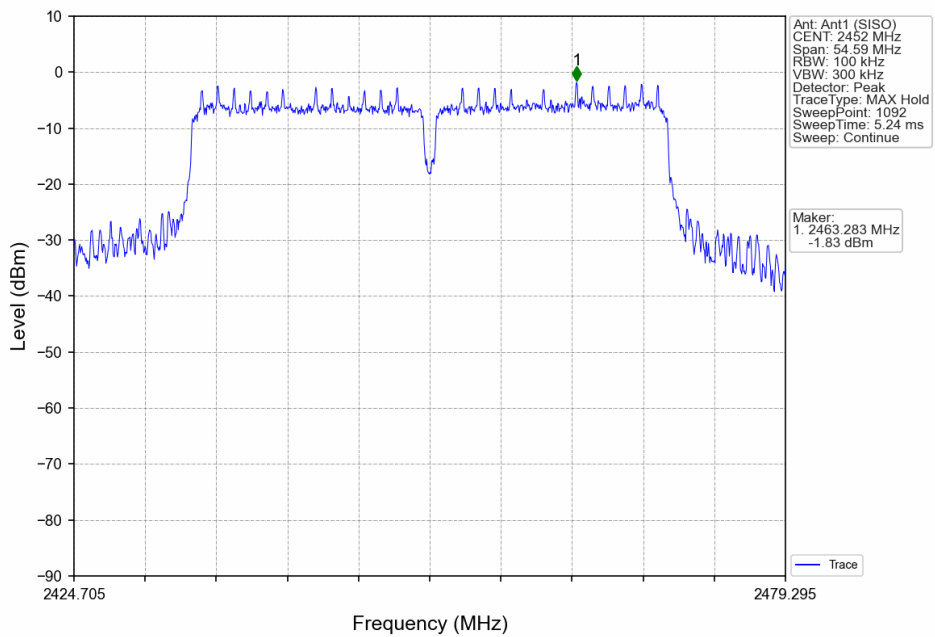
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV





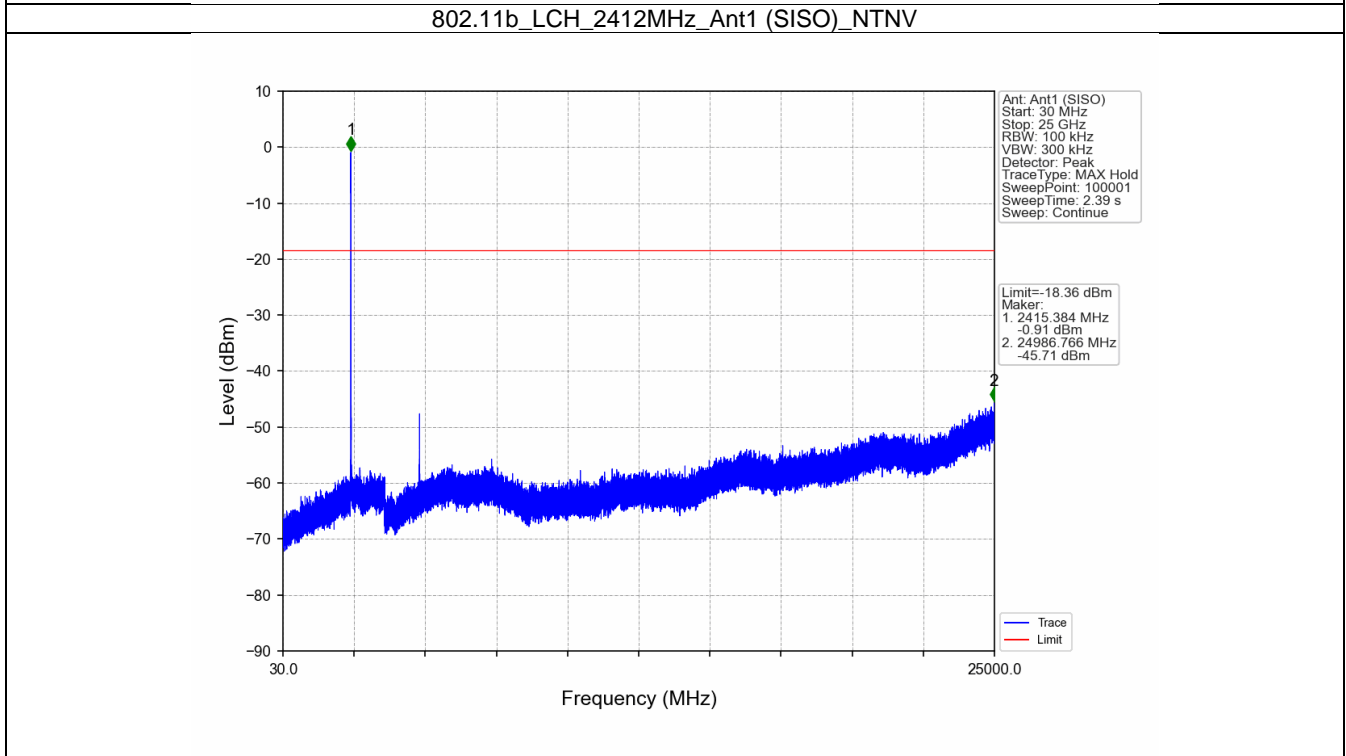
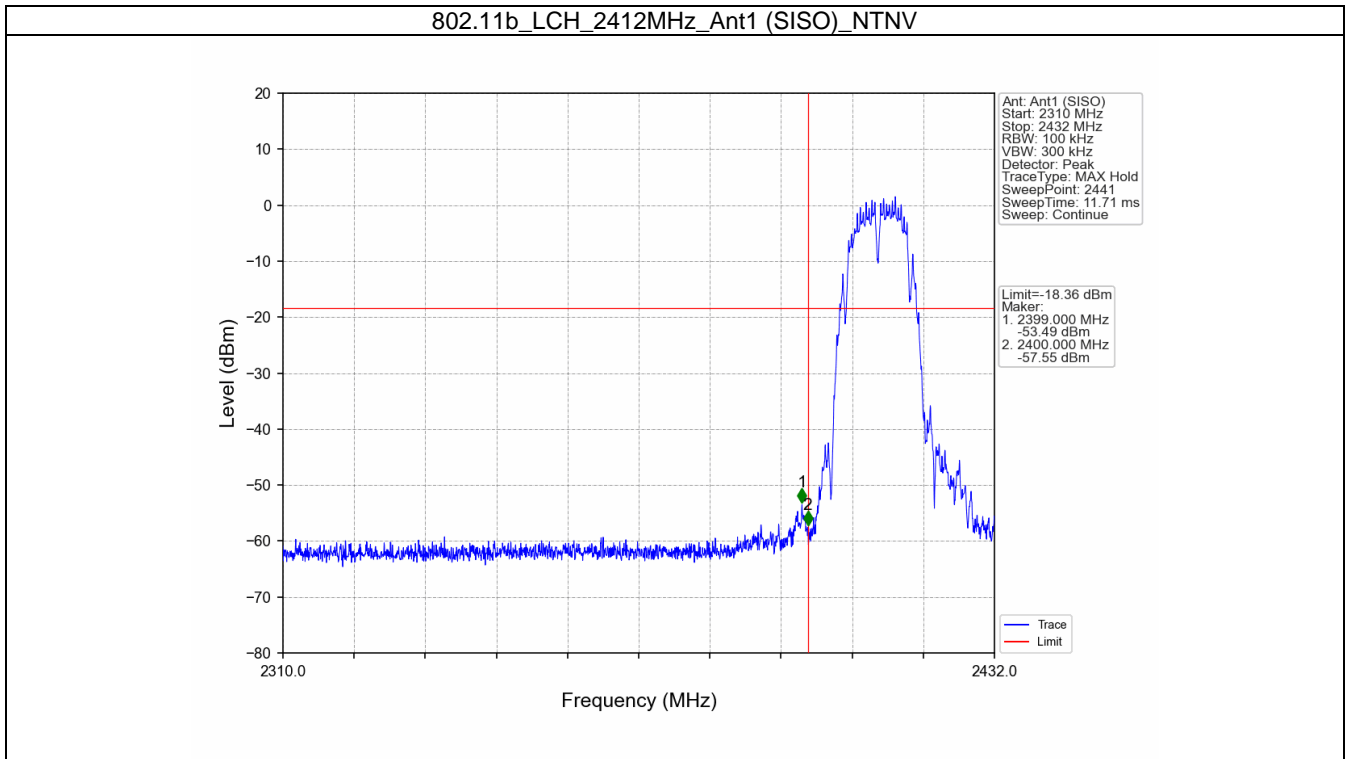
5.2 CSE

5.2.1 Test Result

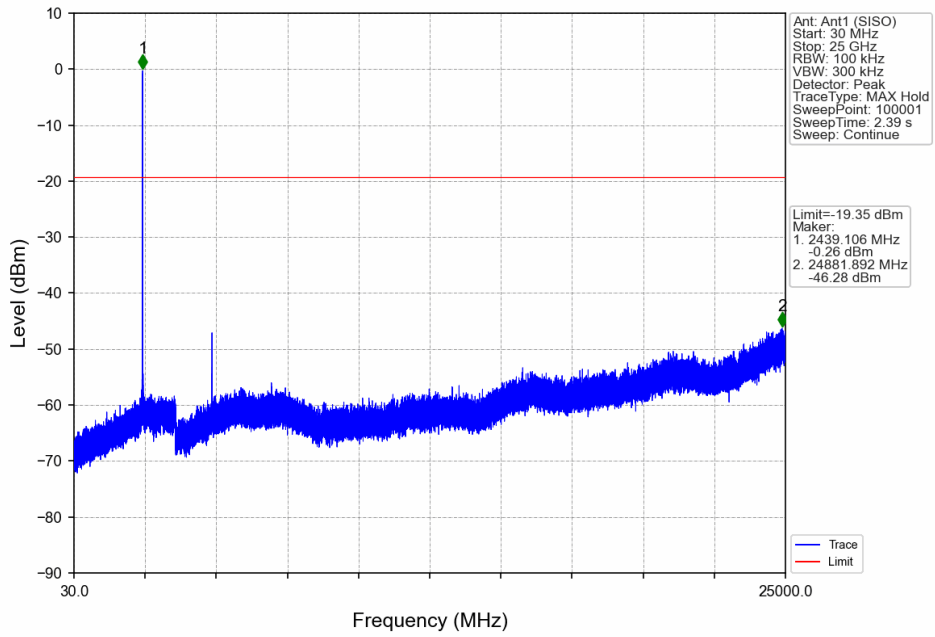
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b | SISO | 2412 | 1 | 1.64 | -18.36 | Pass |
| | | 2437 | 1 | 0.65 | -19.35 | Pass |
| | | 2462 | 1 | 2.87 | -17.13 | Pass |
| 802.11g | SISO | 2412 | 1 | 1.43 | -18.57 | Pass |
| | | 2437 | 1 | 0.40 | -19.60 | Pass |
| | | 2462 | 1 | 2.56 | -17.44 | Pass |
| 802.11n (HT20) | SISO | 2412 | 1 | 1.61 | -18.39 | Pass |
| | | 2437 | 1 | 0.20 | -19.80 | Pass |
| | | 2462 | 1 | 2.48 | -17.52 | Pass |
| 802.11n (HT40) | SISO | 2422 | 1 | -2.56 | -22.56 | Pass |
| | | 2437 | 1 | -2.53 | -22.53 | Pass |
| | | 2452 | 1 | -1.83 | -21.83 | 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.

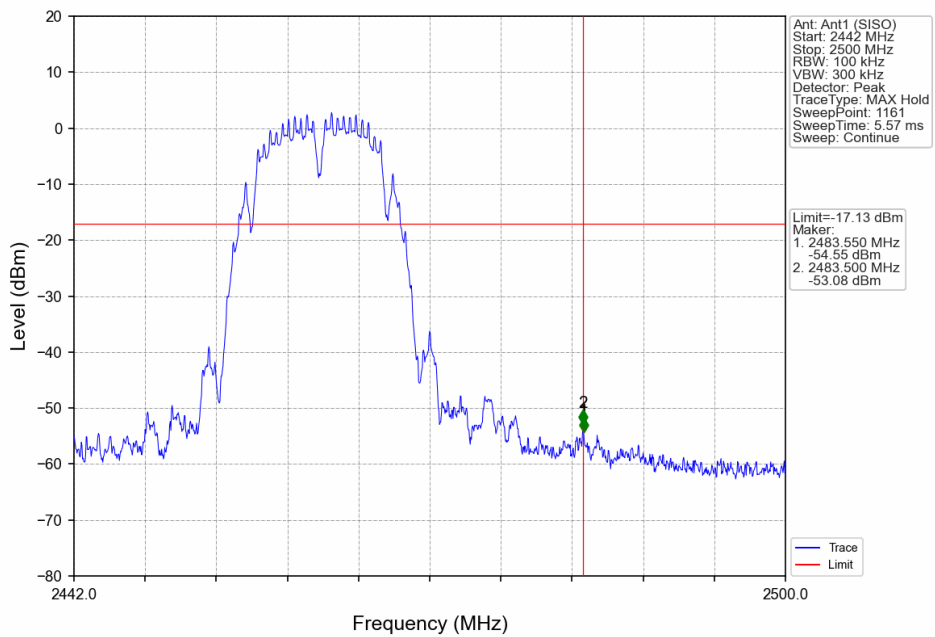
5.2.2 Test Graph



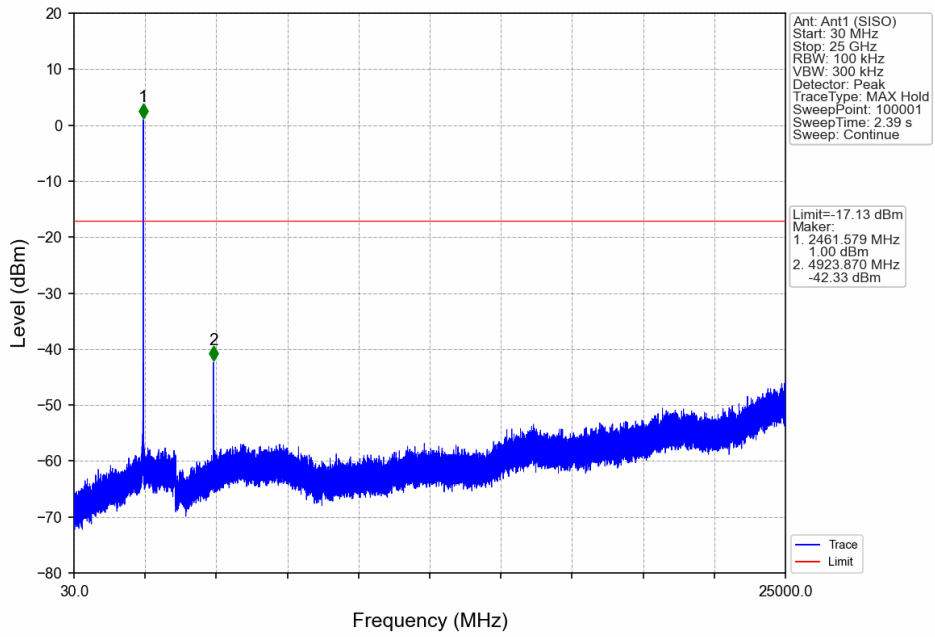
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



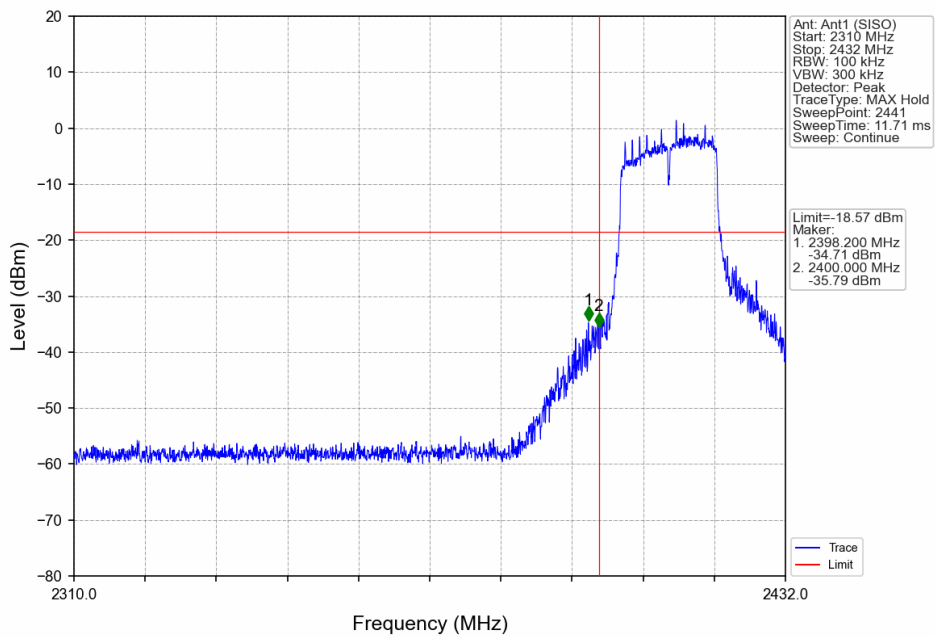
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

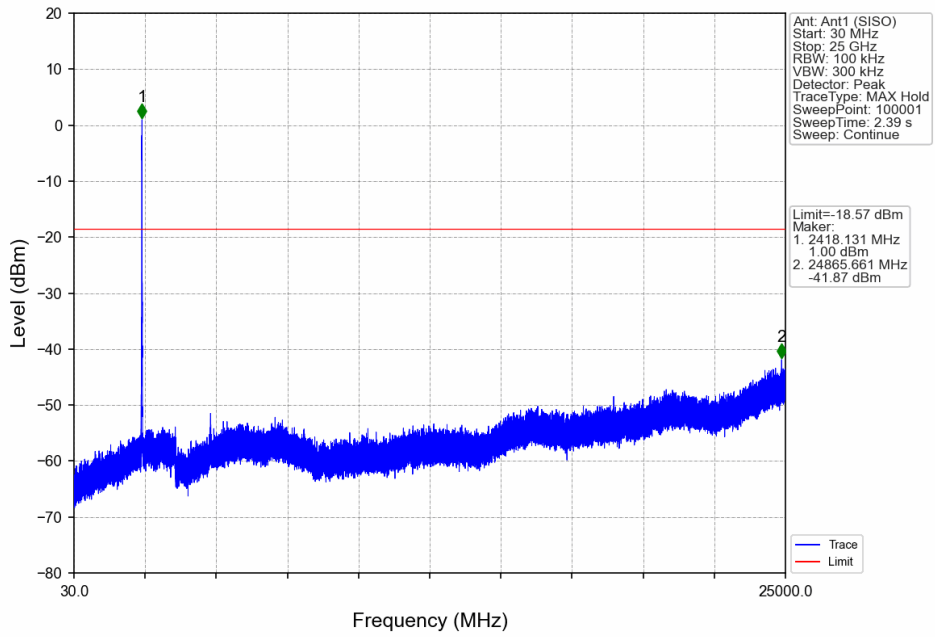


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

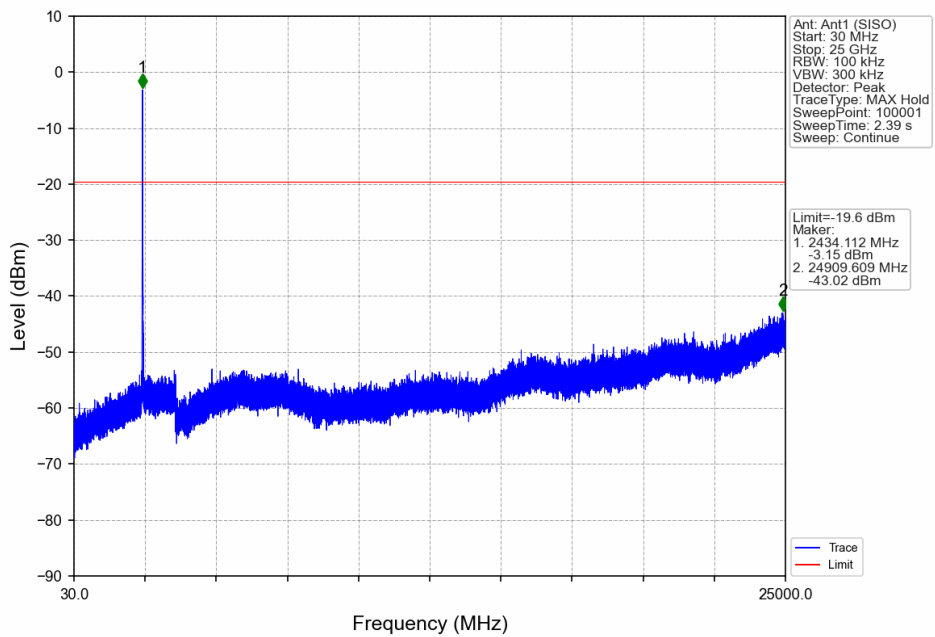




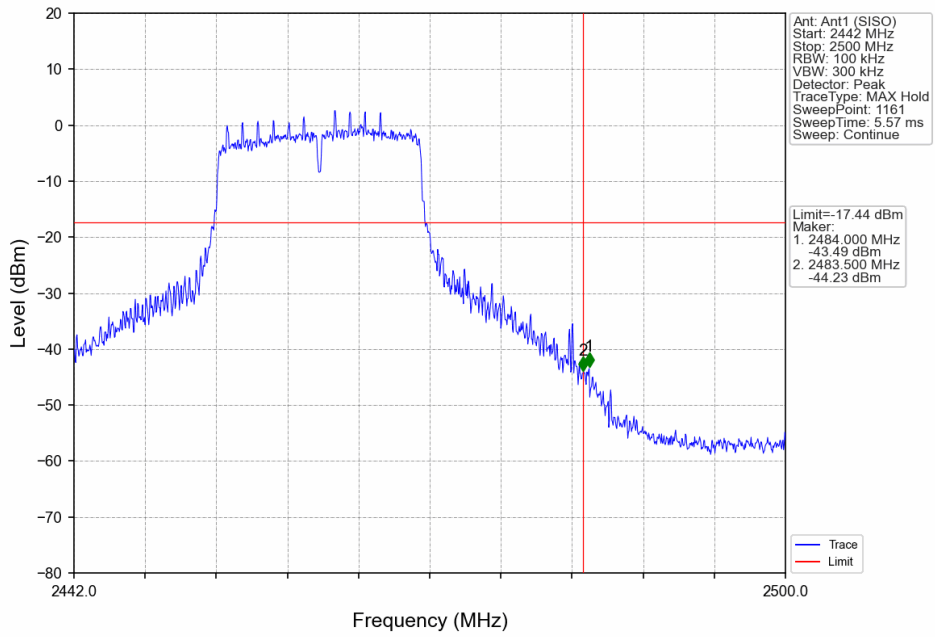
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



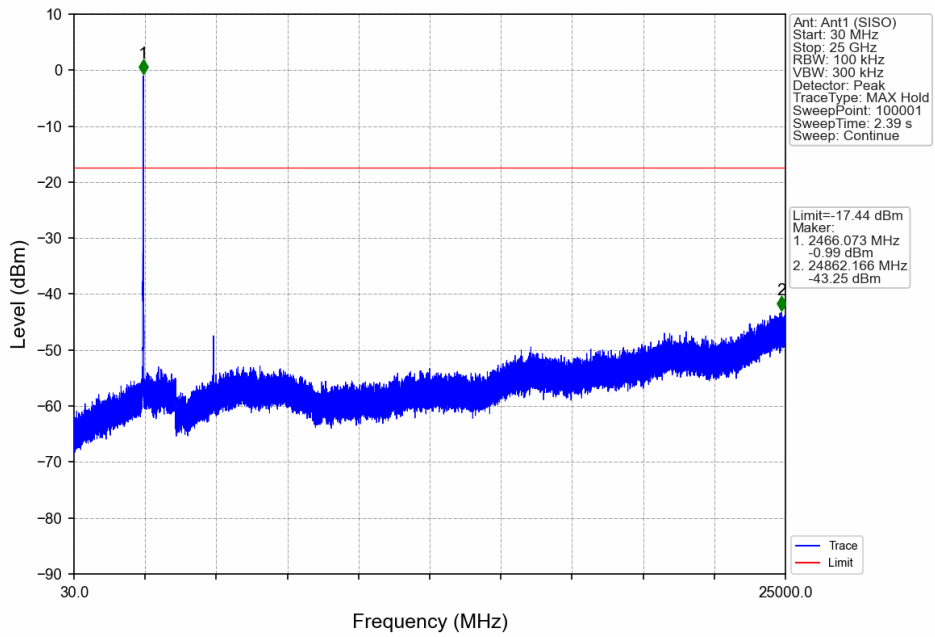
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



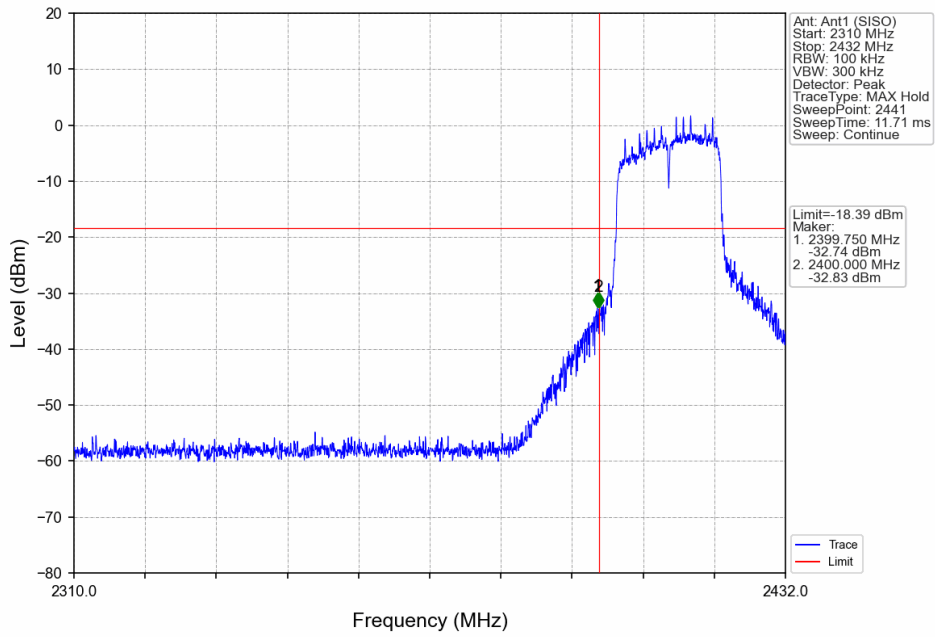
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



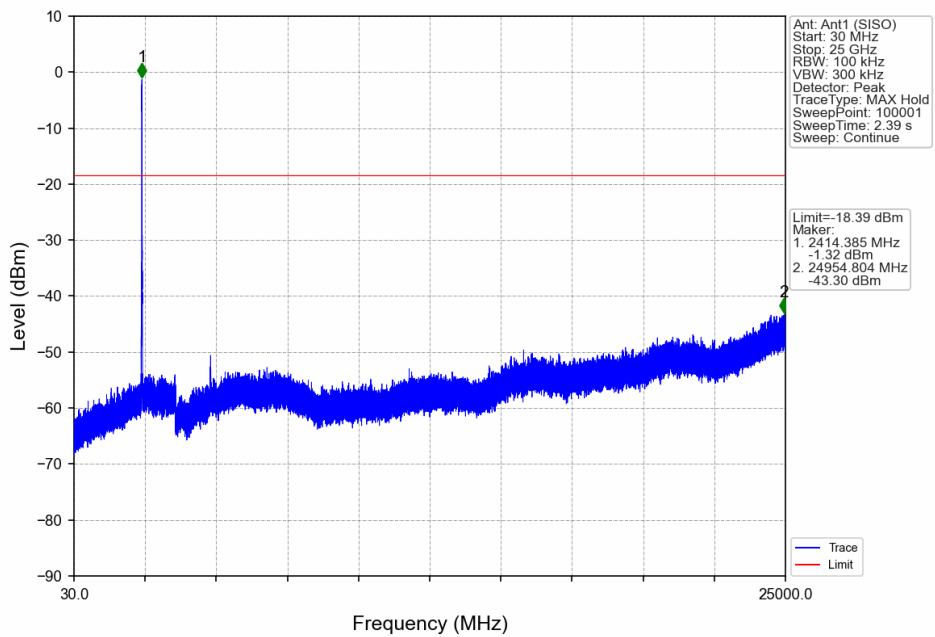
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



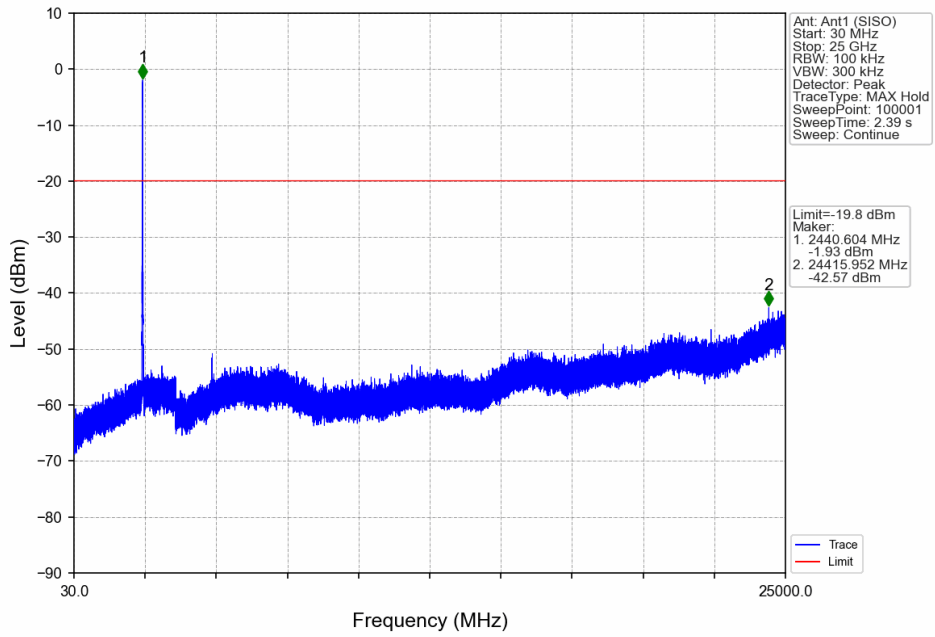
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



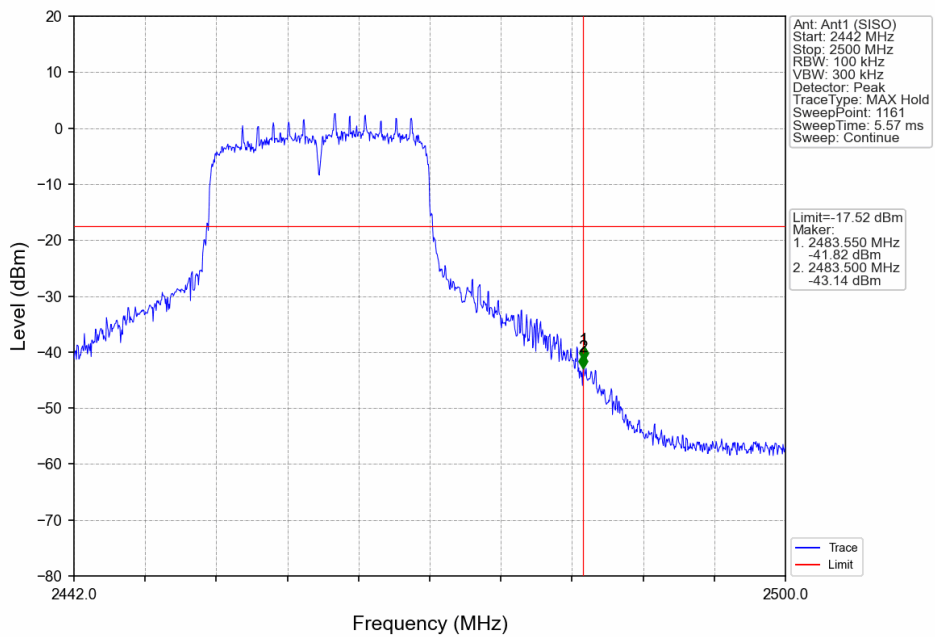
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



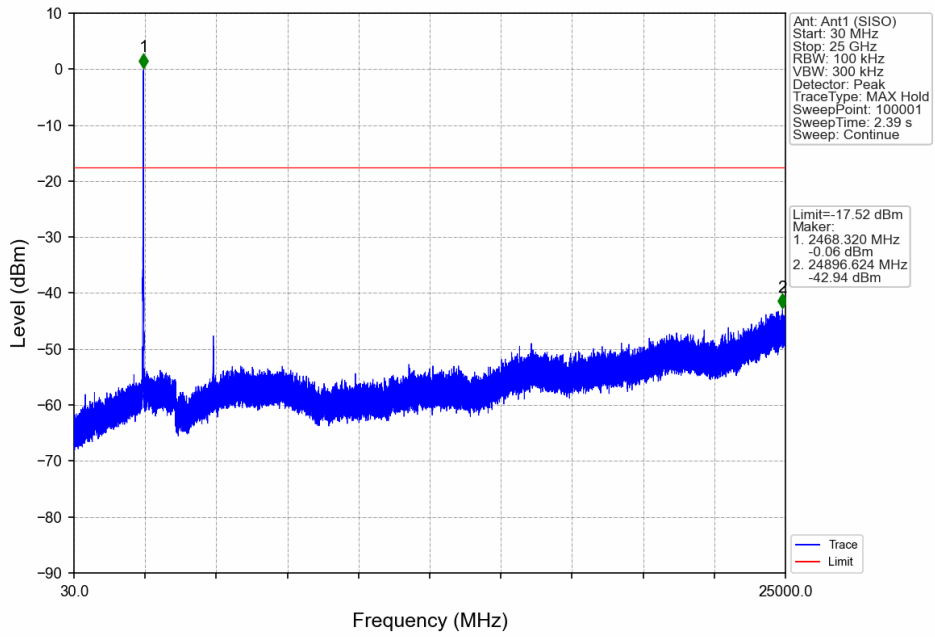
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



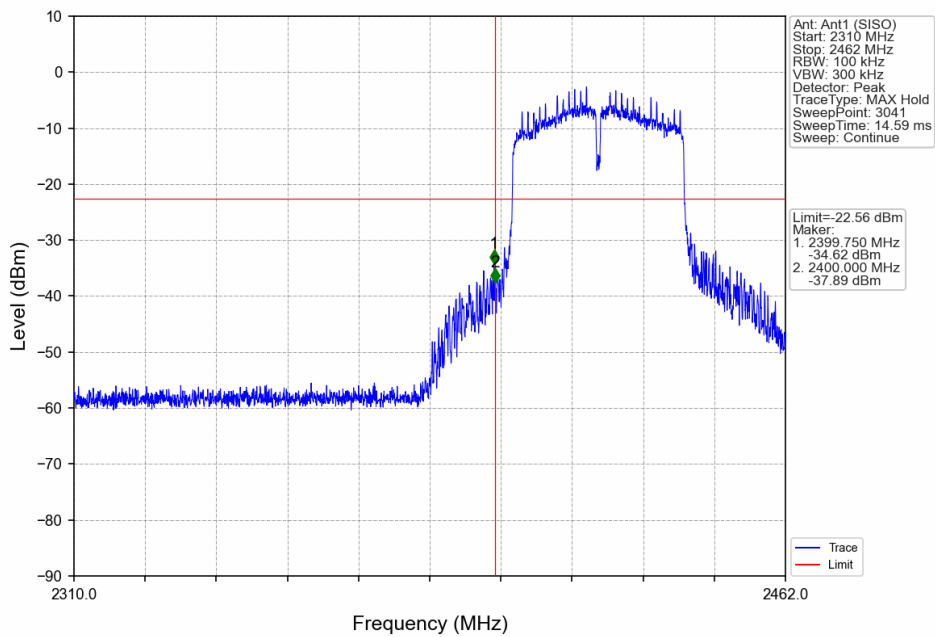
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



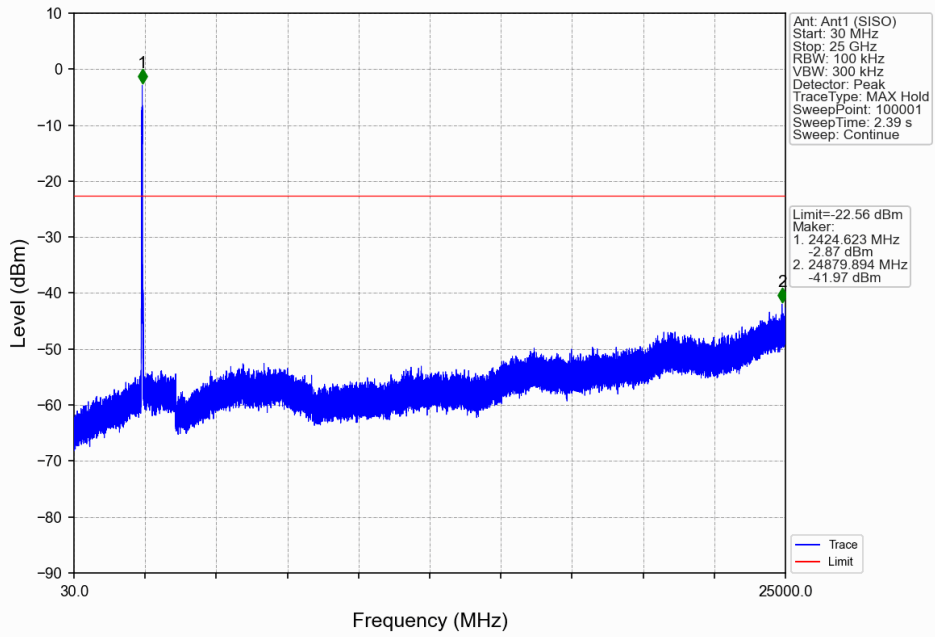
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



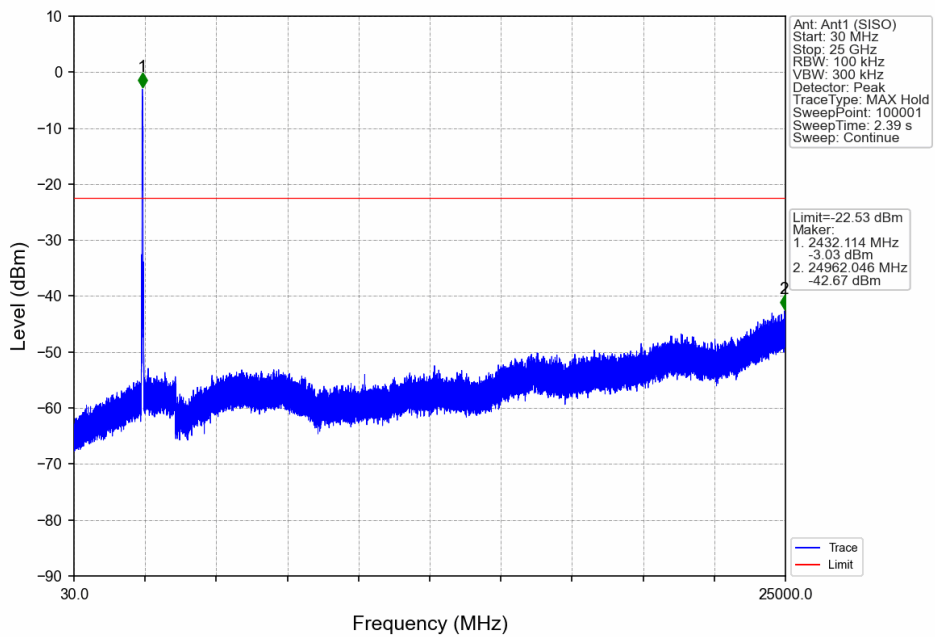
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



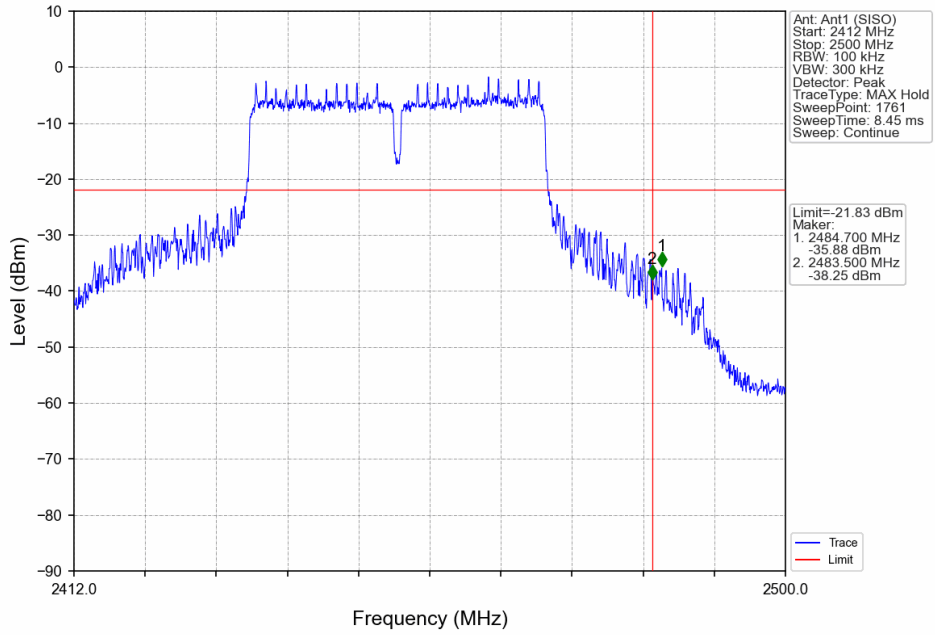
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

