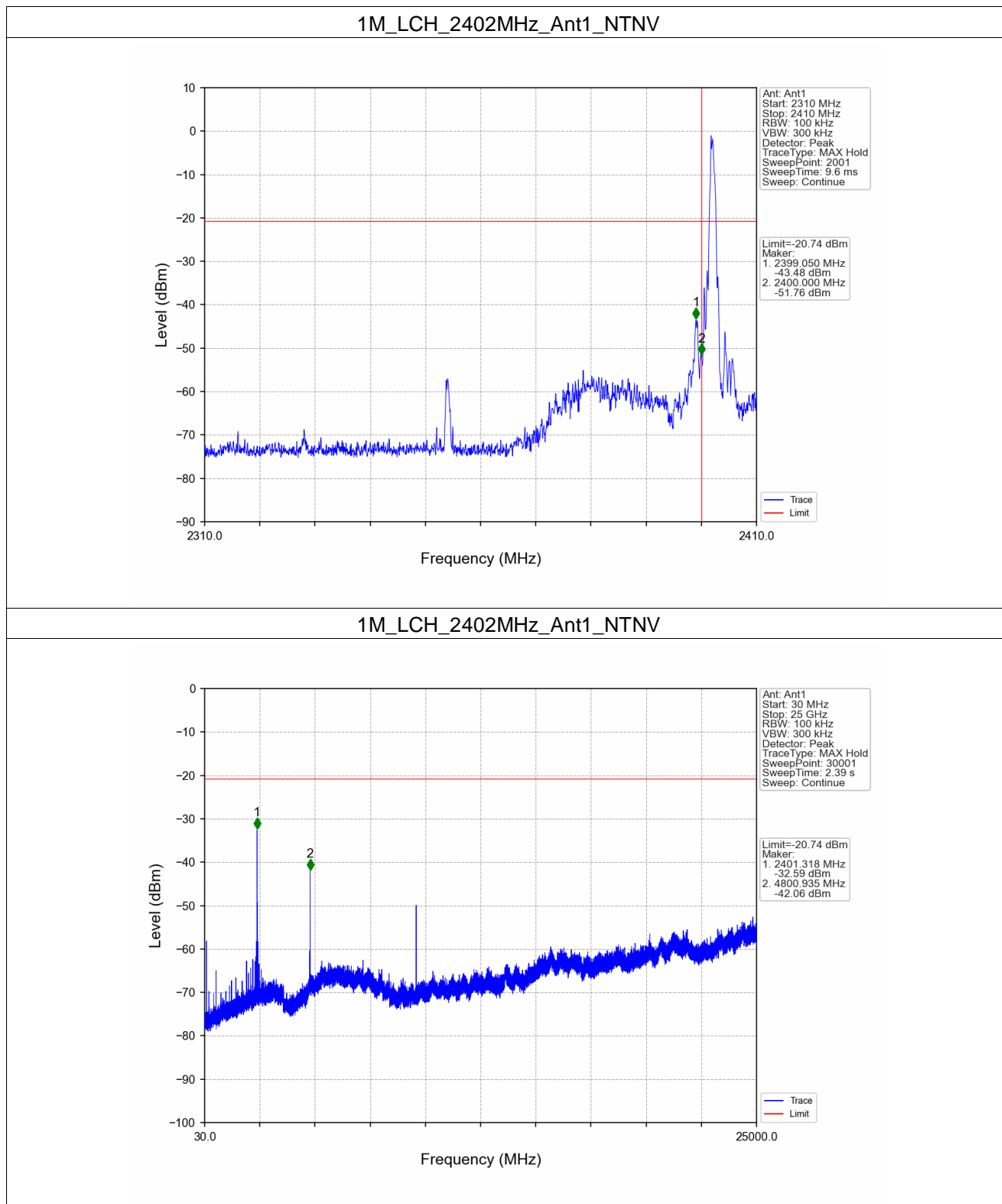
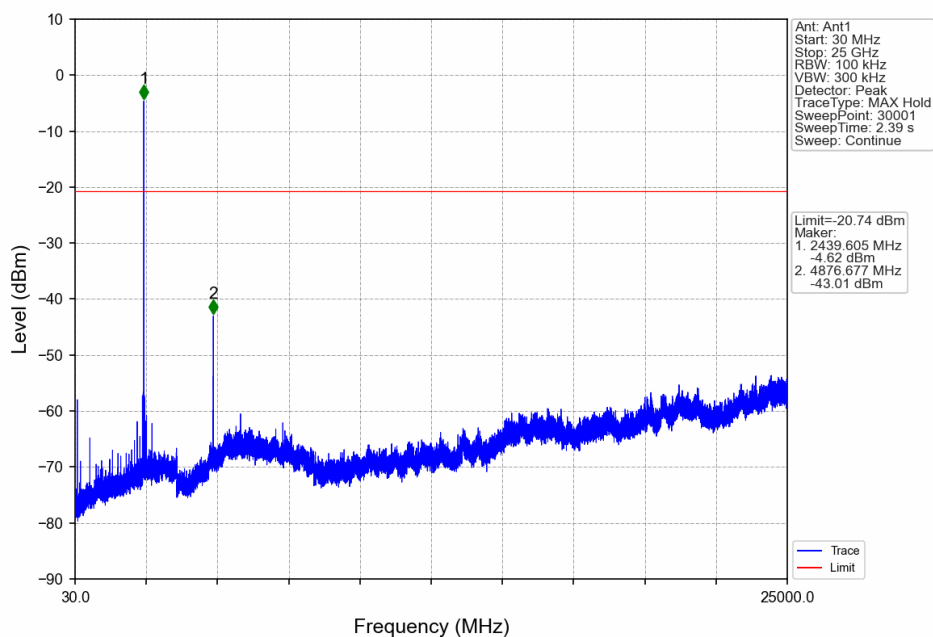


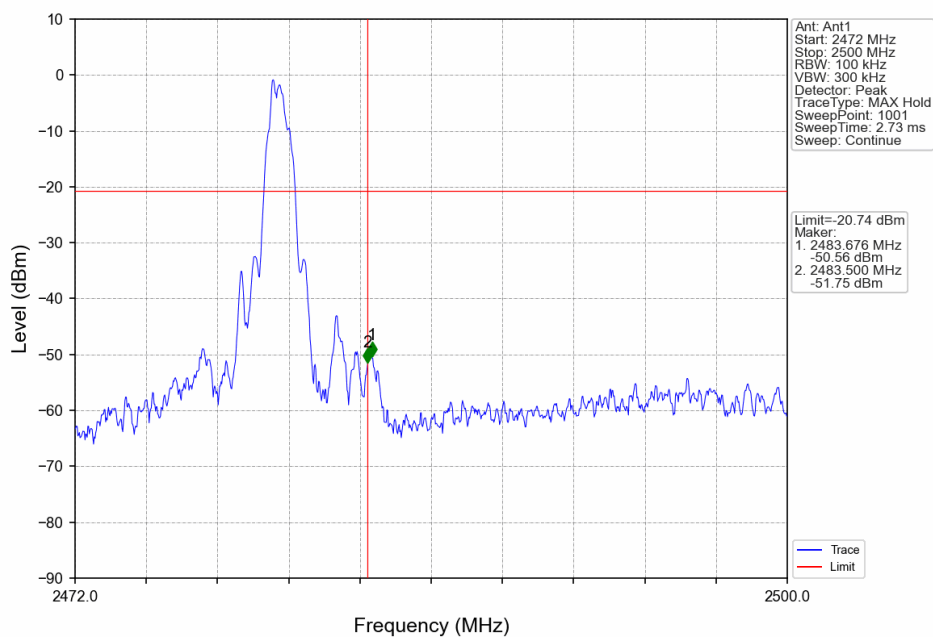
5.2.2 Test Graph



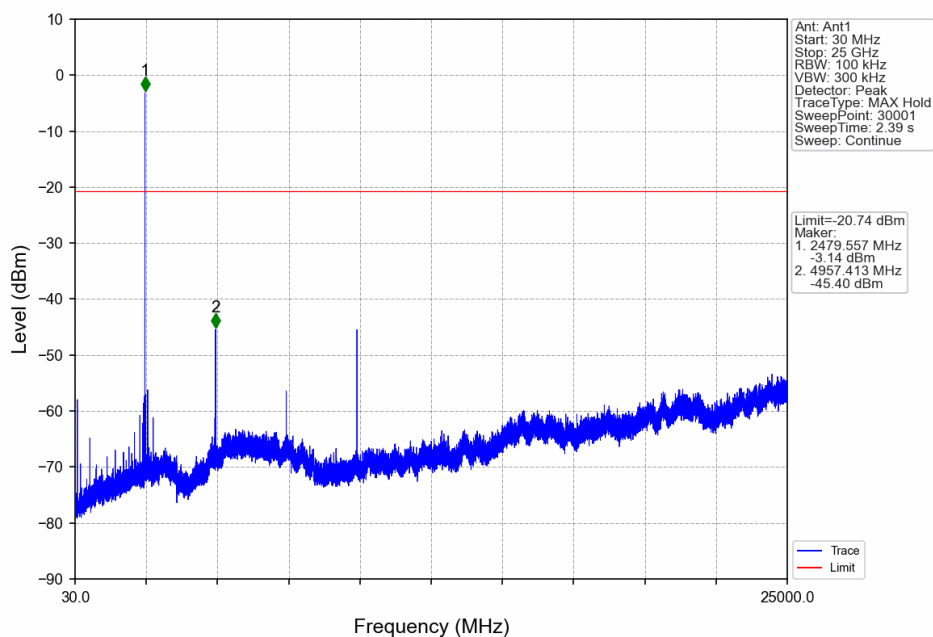
1M_MCH_2440MHz_Ant1_NTNV



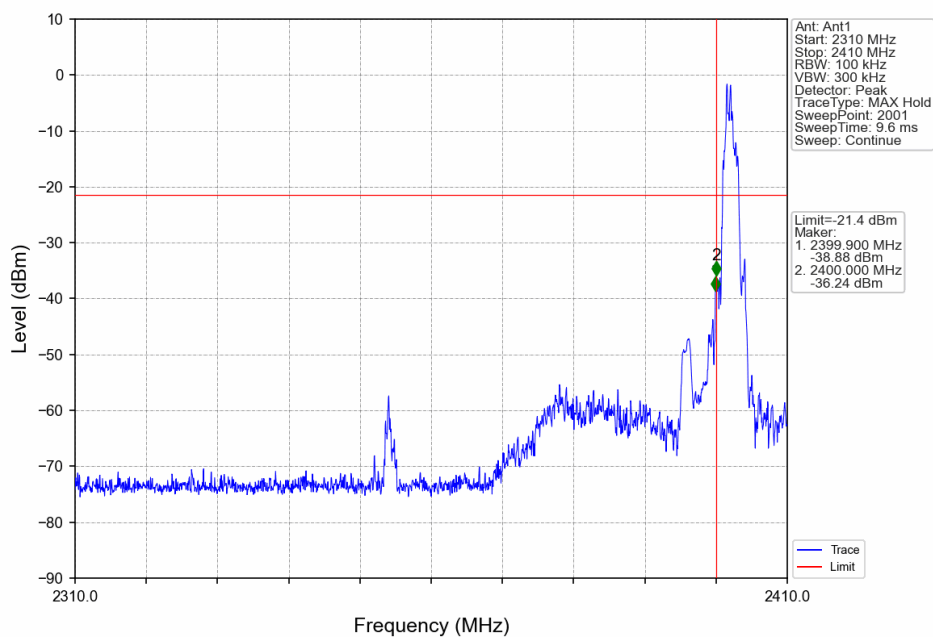
1M_HCH_2480MHz_Ant1_NTNV



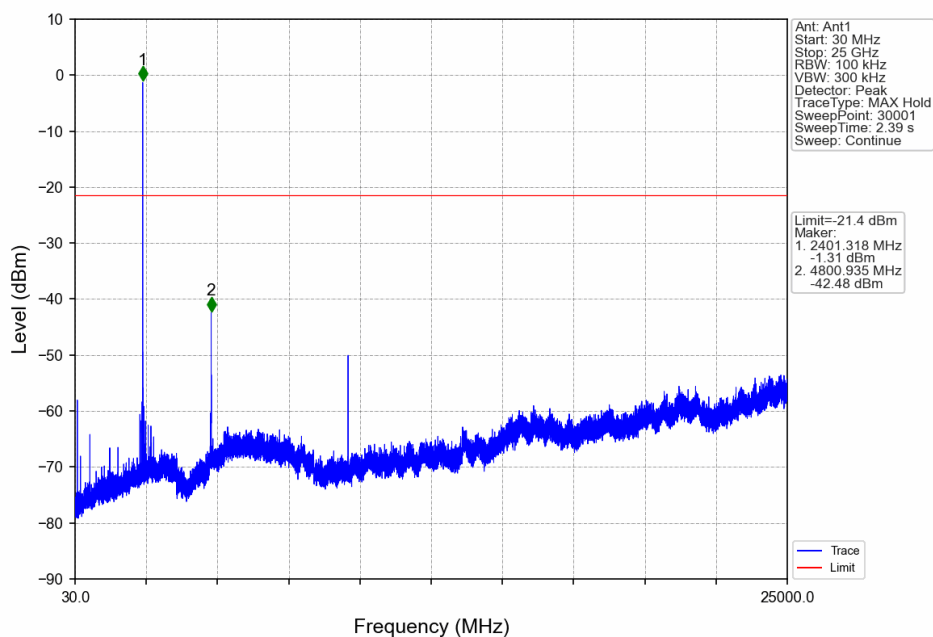
1M_HCH_2480MHz_Ant1_NTNV



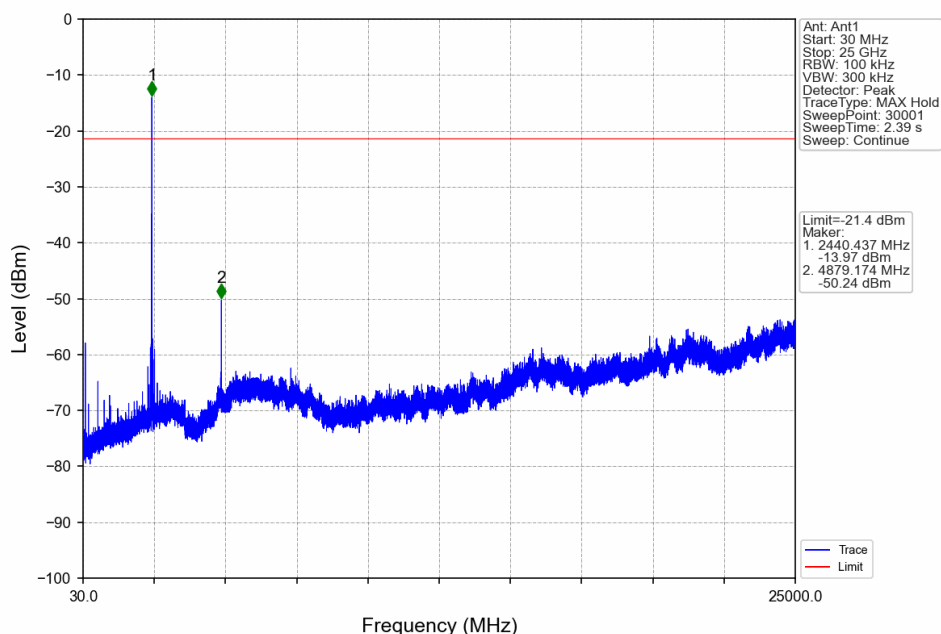
2M_LCH_2402MHz_Ant1_NTNV



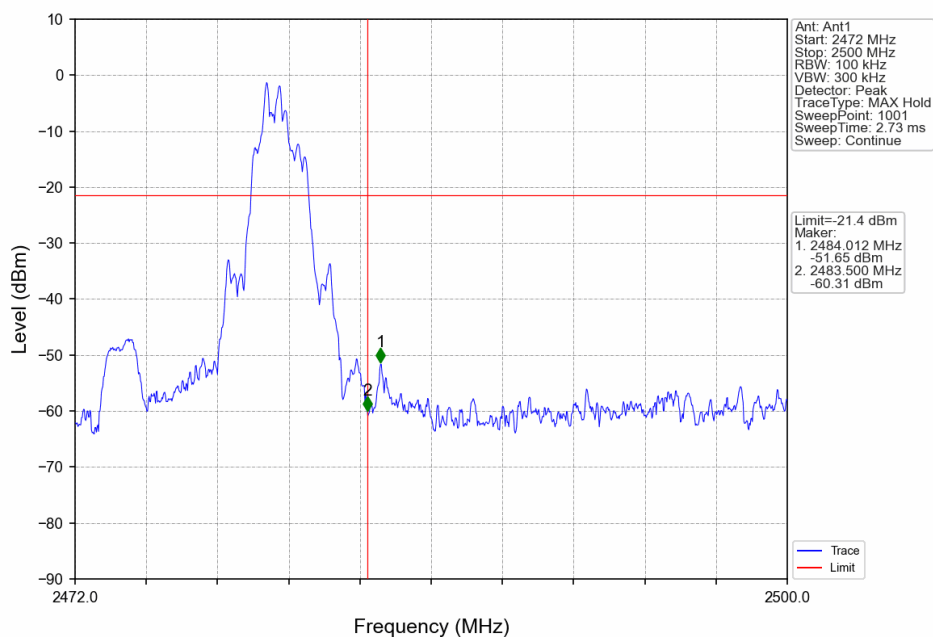
2M_LCH_2402MHz_Ant1_NTNV



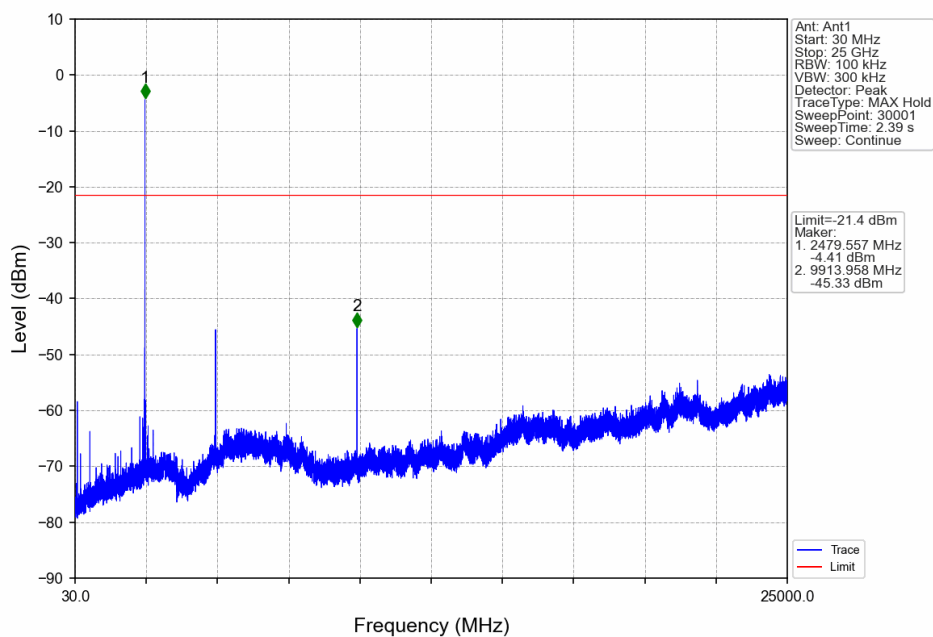
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



For 2.4 GHz Wi-Fi

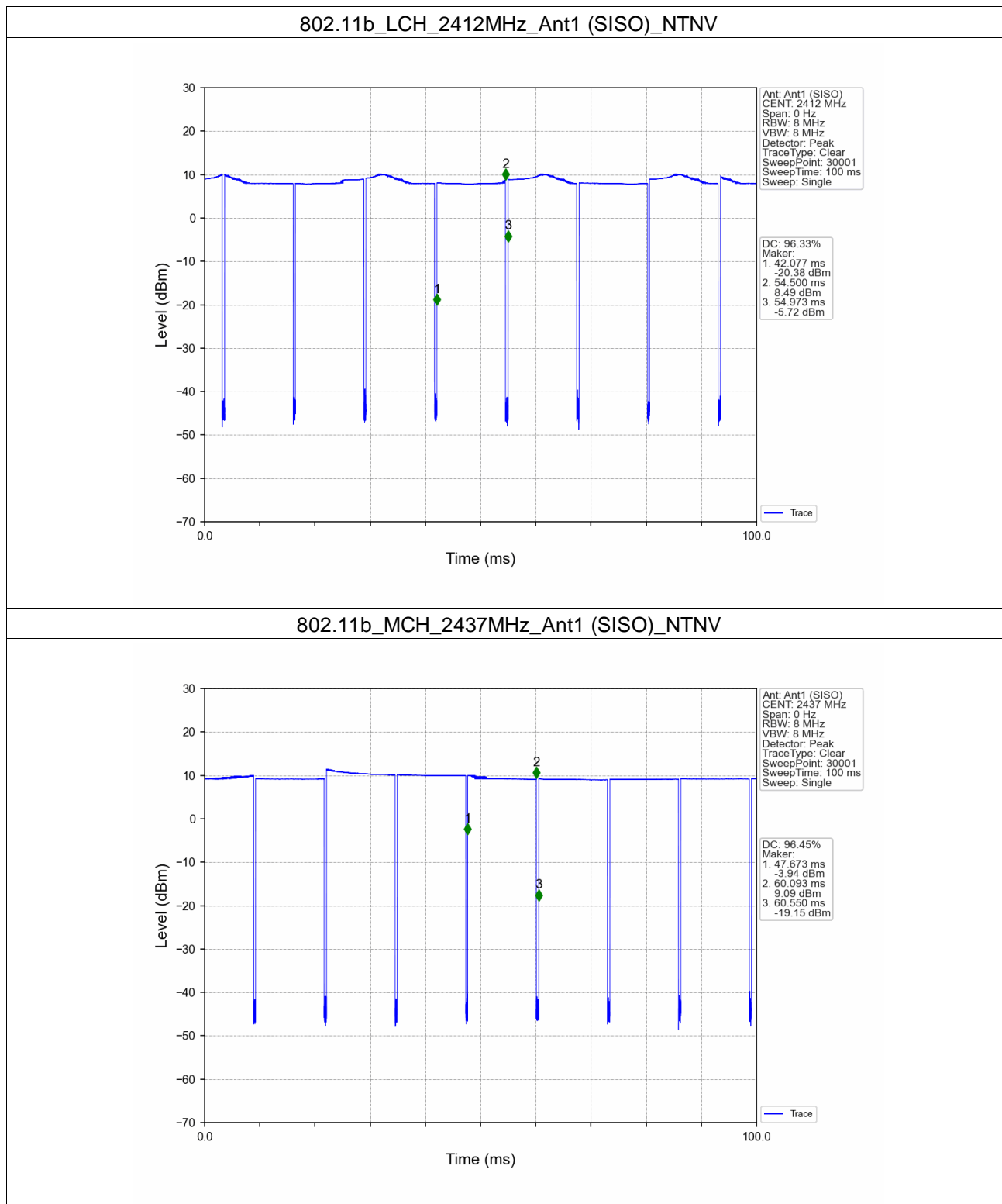
1. Duty Cycle

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 | 12.423 | 12.896 | 96.33 | 0.16 | 0.93 |
| | | 2437 | 12.420 | 12.877 | 96.45 | 0.16 | 0.68 |
| | | 2462 | 12.420 | 12.903 | 96.26 | 0.17 | 0.48 |
| 802.11g | SISO | 2412 | 2.063 | 10.047 | 20.53 | 6.88 | 0.23 |
| | | 2437 | 2.063 | 10.016 | 20.60 | 6.86 | 0.07 |
| | | 2462 | 2.063 | 10.047 | 20.53 | 6.88 | 0.19 |
| 802.11n (HT40) | SISO | 2422 | 0.944 | 10.047 | 9.40 | 10.27 | 0.12 |
| | | 2437 | 0.943 | 10.017 | 9.41 | 10.26 | 0.06 |
| | | 2452 | 0.943 | 10.013 | 9.42 | 10.26 | 0.06 |

1.1.2 Test Graph



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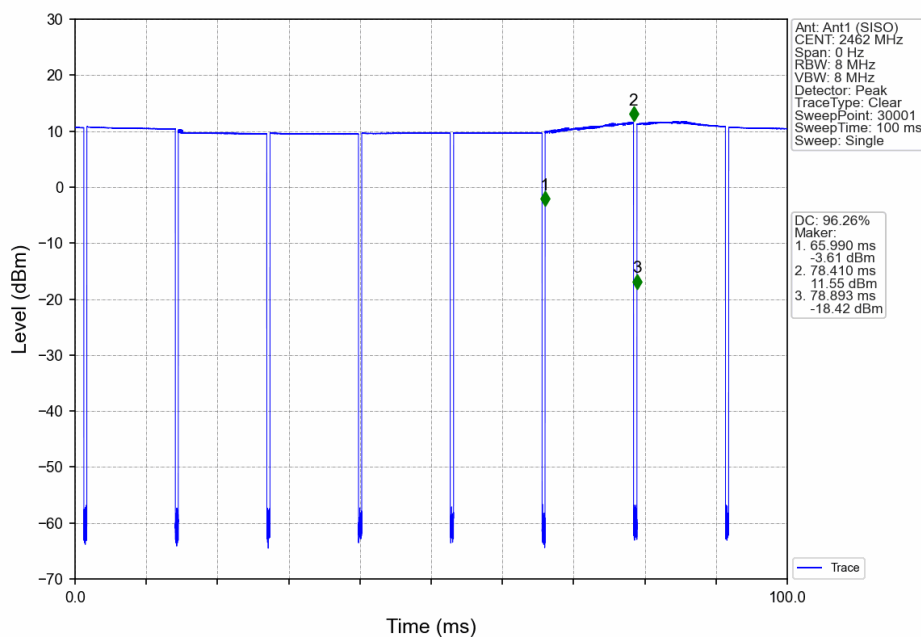
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Guangzhou Branch, Testing Center, EEC Laboratory

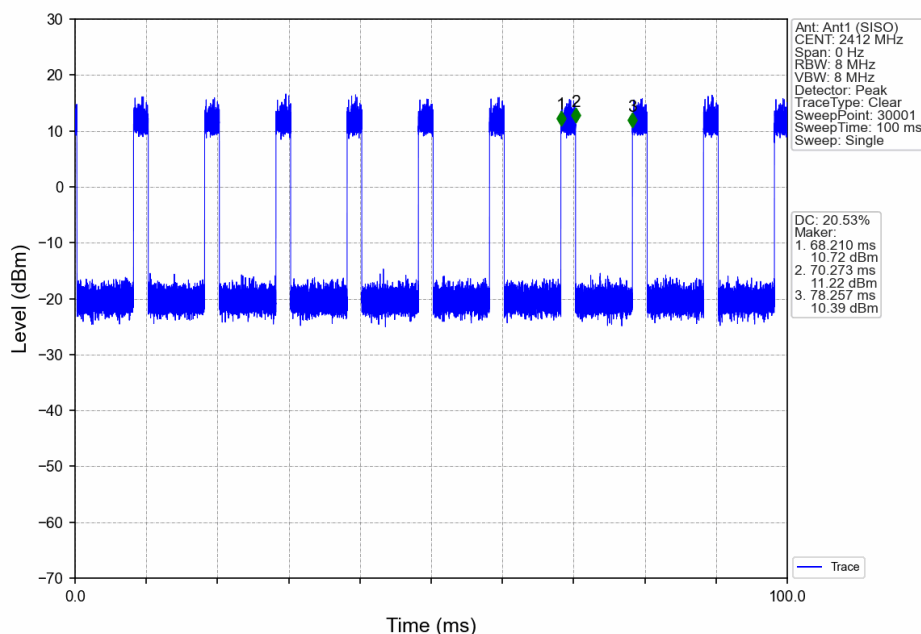
No.198, Kazhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgs.com.cn
t (86-20) 82155555 sgs.china@sgs.com

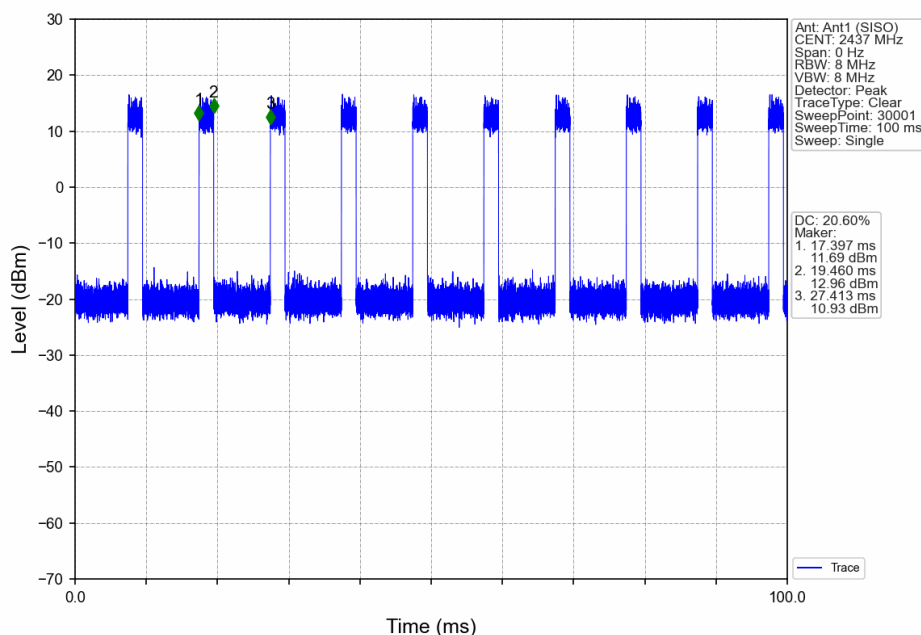
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



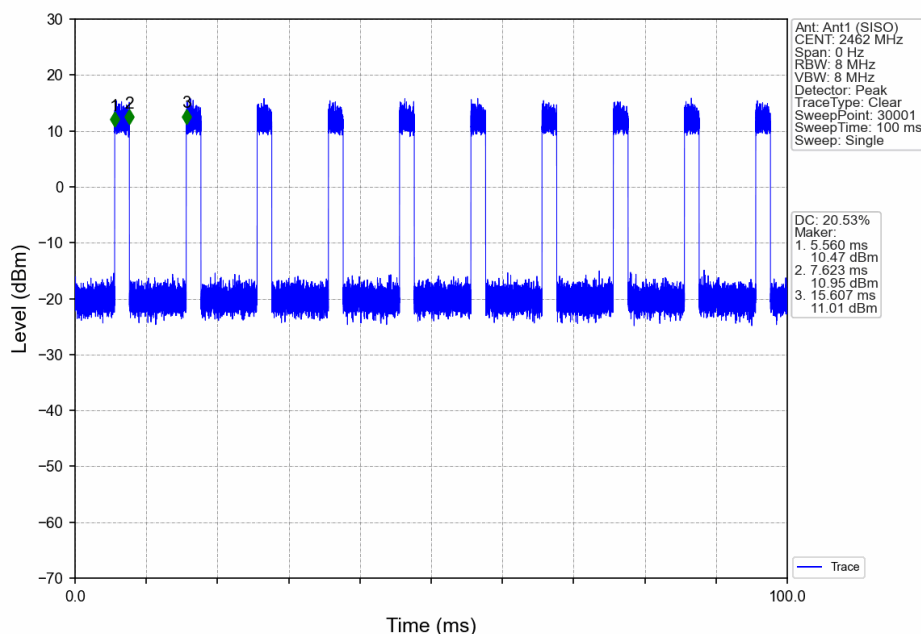
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



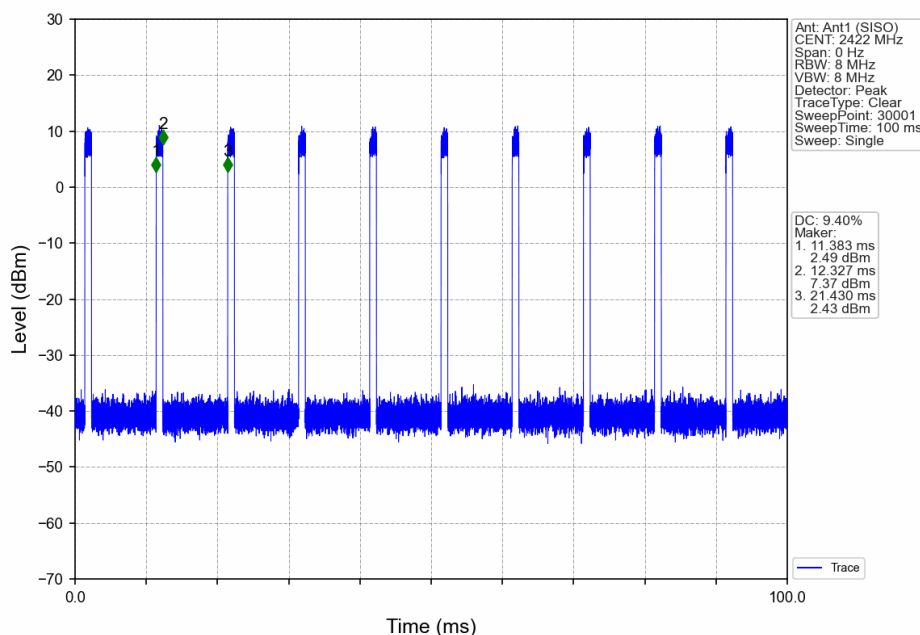
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



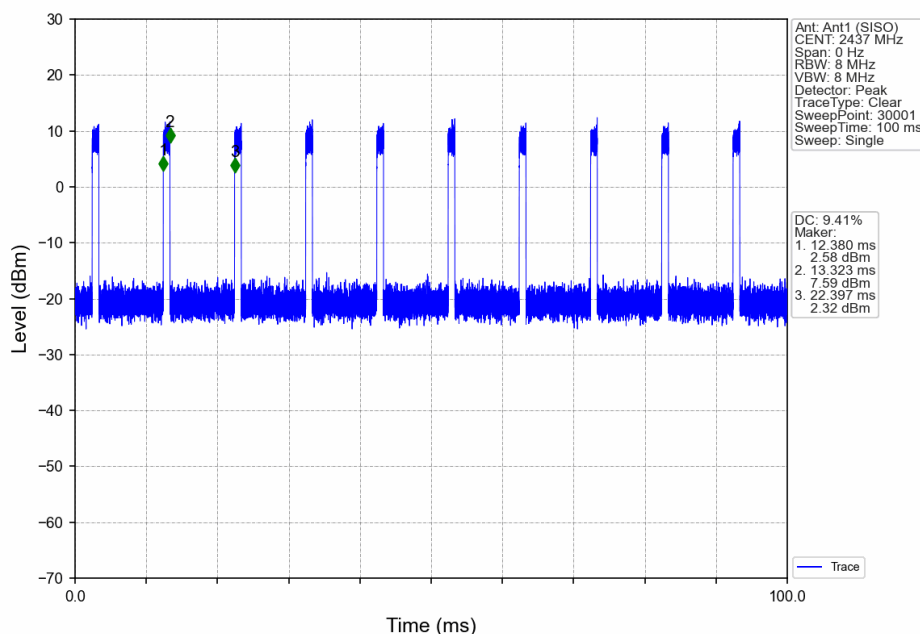
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



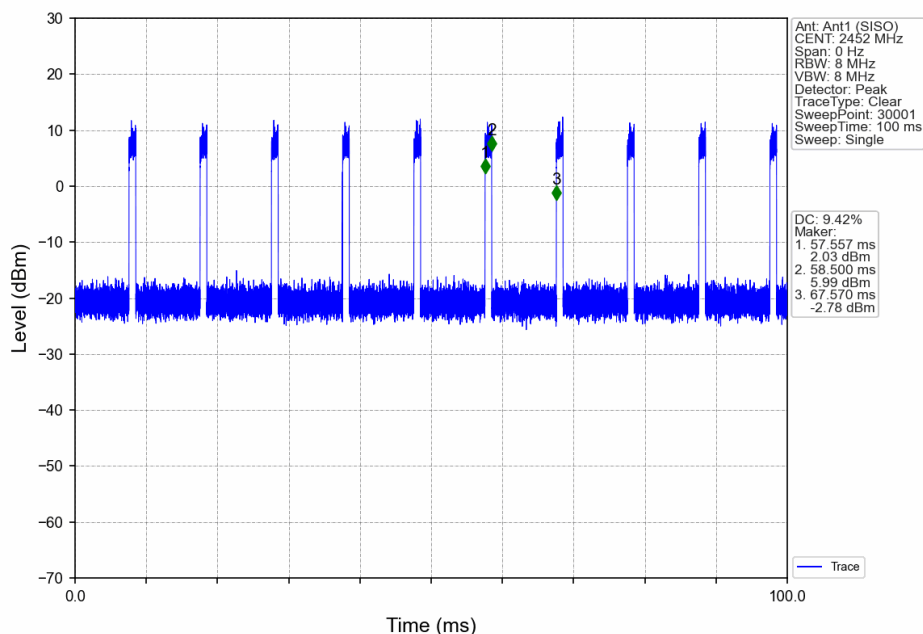
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



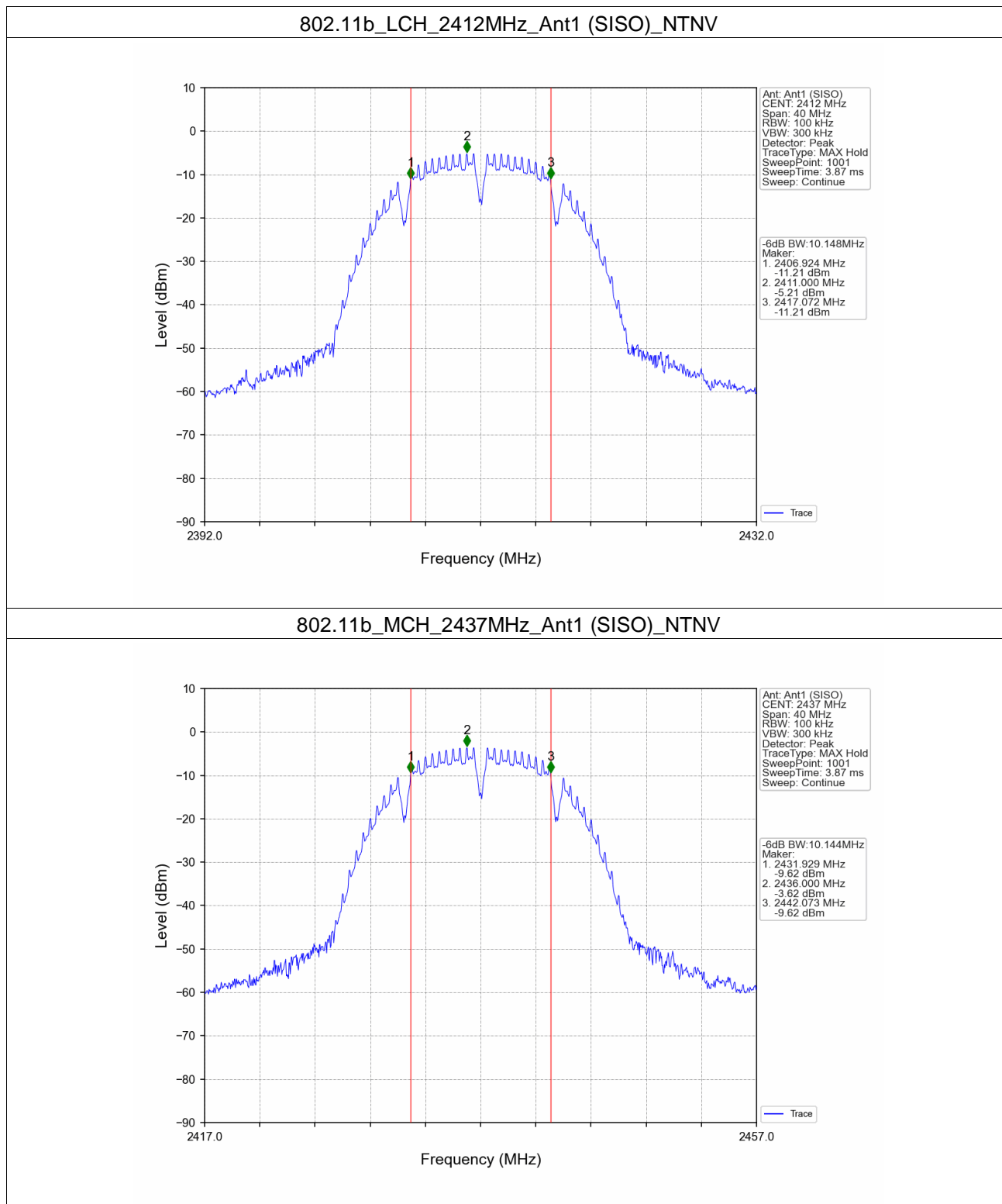
2. Bandwidth

2.1 6dB BW

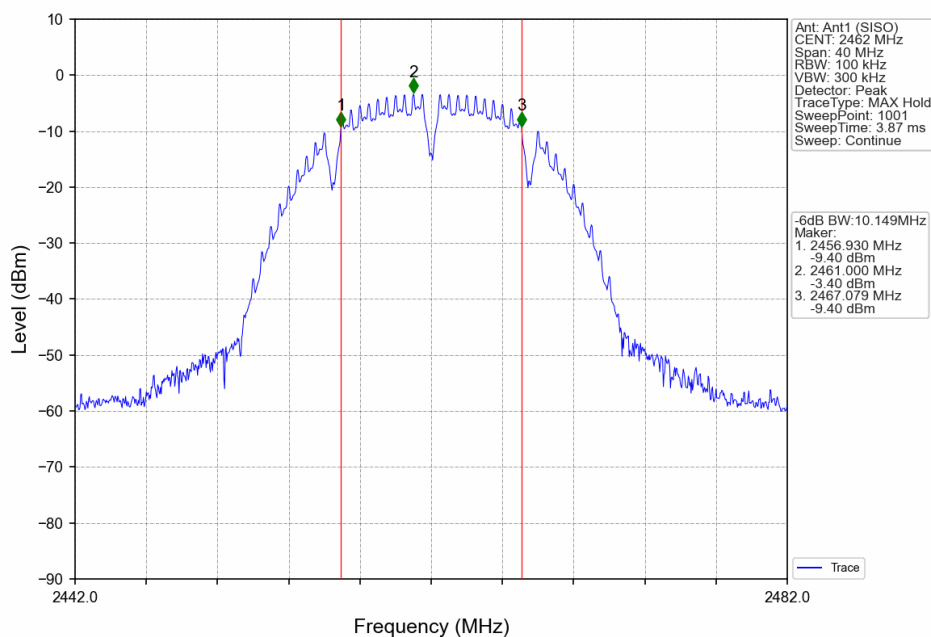
2.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
| | | | | Result | Limit | |
| 802.11b | SISO | 2412 | 1 | 10.148 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 10.144 | ≥ 0.5 | Pass |
| | | 2462 | 1 | 10.149 | ≥ 0.5 | Pass |
| 802.11g | SISO | 2412 | 1 | 15.721 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 16.324 | ≥ 0.5 | Pass |
| | | 2462 | 1 | 15.464 | ≥ 0.5 | Pass |
| 802.11n (HT40) | SISO | 2422 | 1 | 35.102 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 35.179 | ≥ 0.5 | Pass |
| | | 2452 | 1 | 35.195 | ≥ 0.5 | Pass |

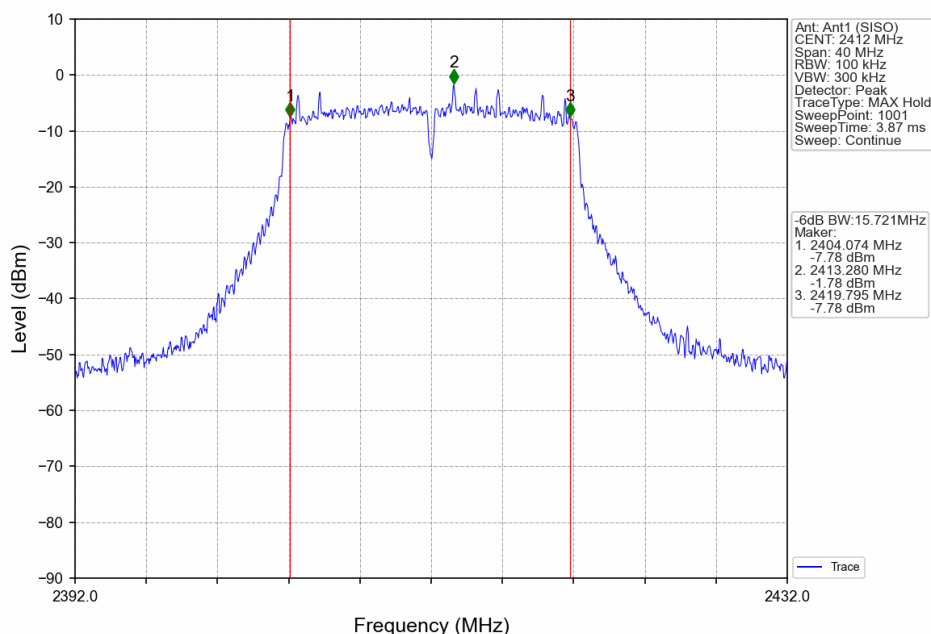
2.1.2 Test Graph



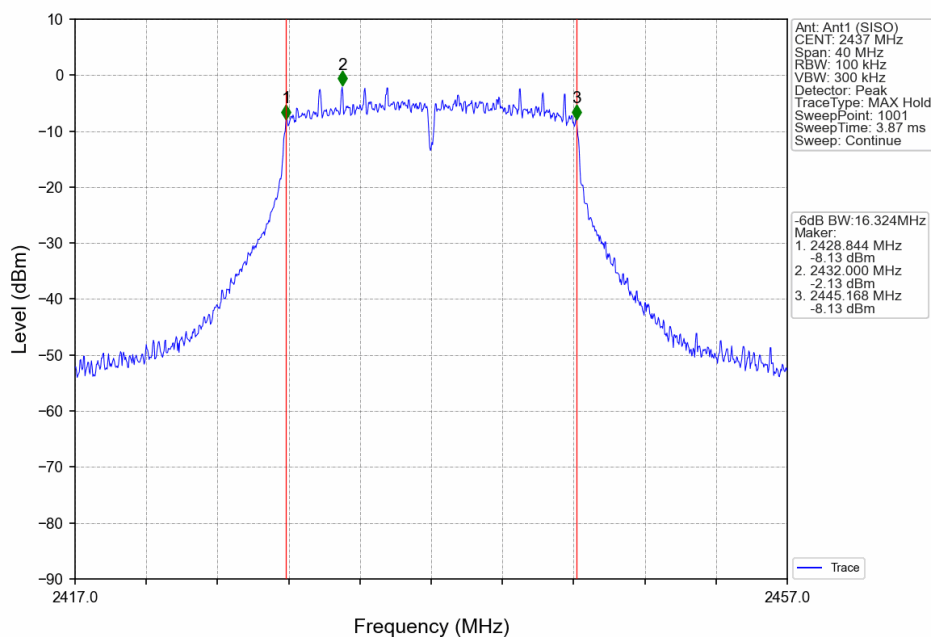
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



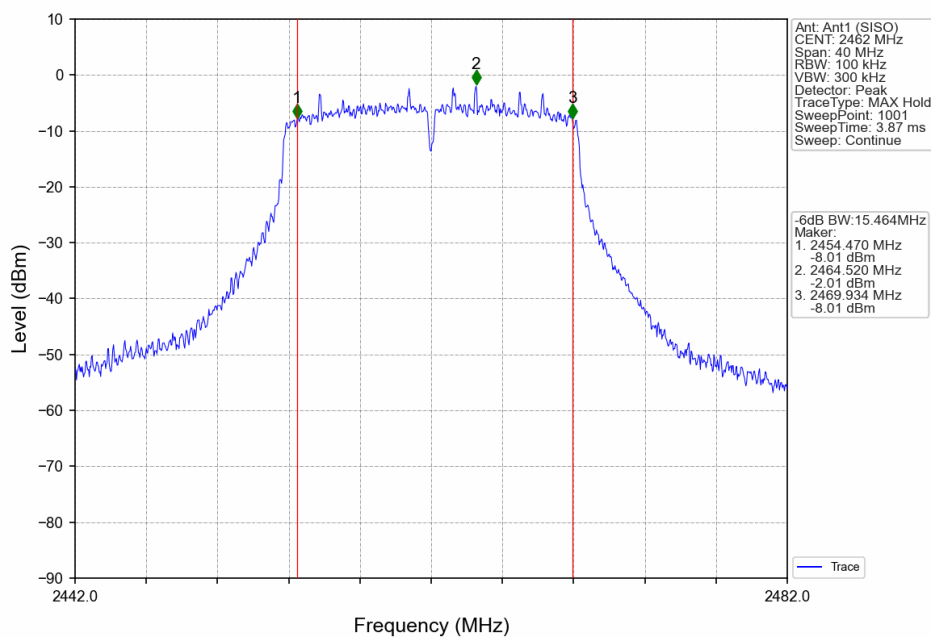
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



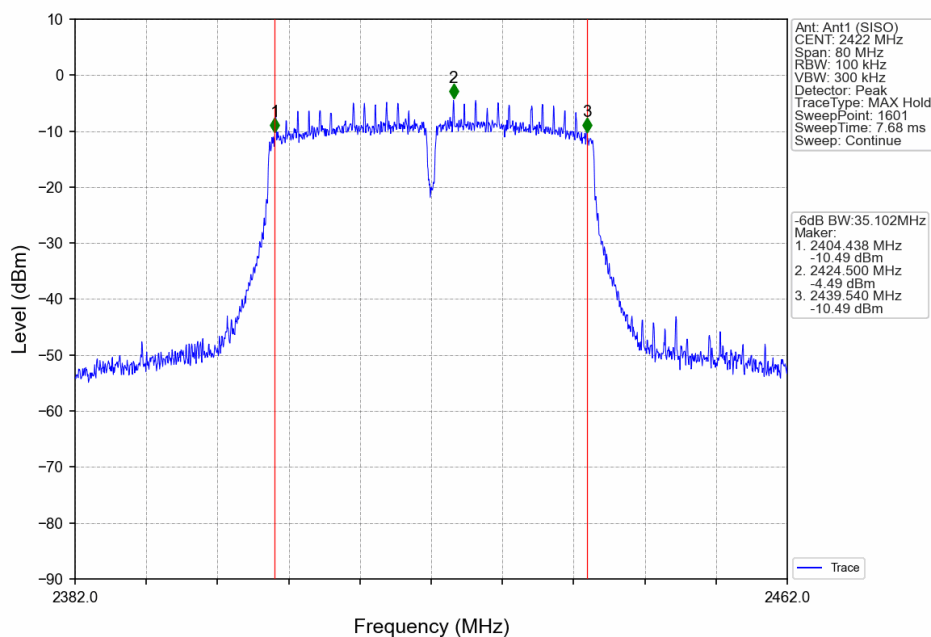
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



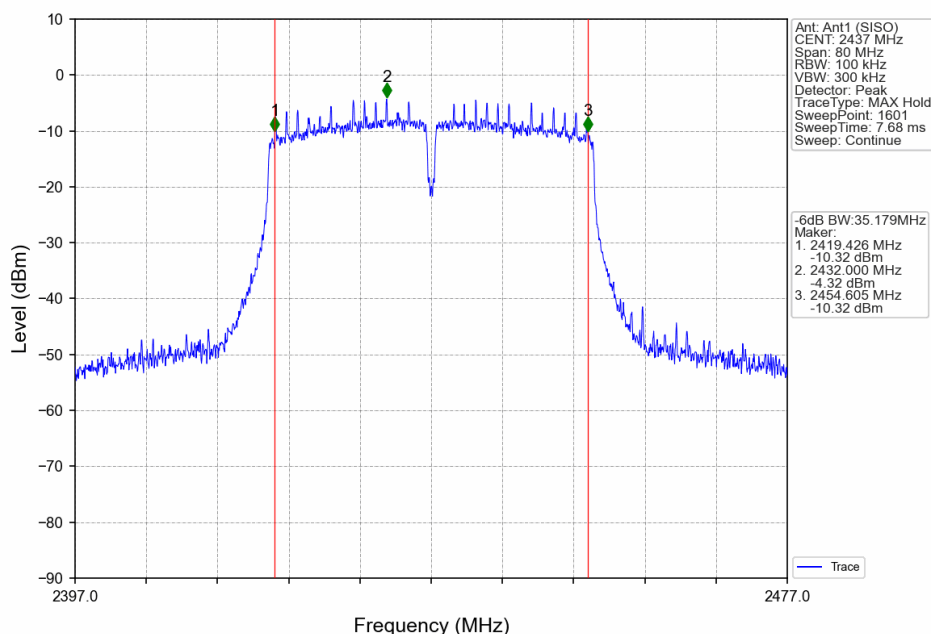
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



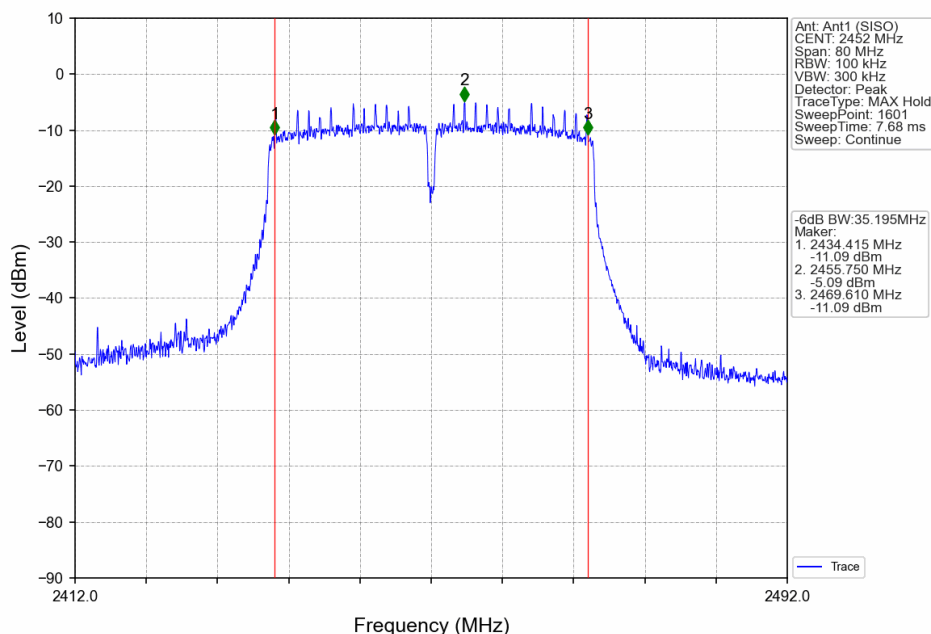
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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 | 7.61 | ≤30 | Pass |
| | | 2437 | 7.95 | ≤30 | Pass |
| | | 2462 | 8.30 | ≤30 | Pass |
| 802.11g | SISO | 2412 | 14.96 | ≤30 | Pass |
| | | 2437 | 15.76 | ≤30 | Pass |
| | | 2462 | 15.01 | ≤30 | Pass |
| 802.11n (HT40) | SISO | 2422 | 16.55 | ≤30 | Pass |
| | | 2437 | 16.95 | ≤30 | Pass |
| | | 2452 | 16.15 | ≤30 | Pass |

Note1: Antenna Gain: Ant1: 0.00dBi;

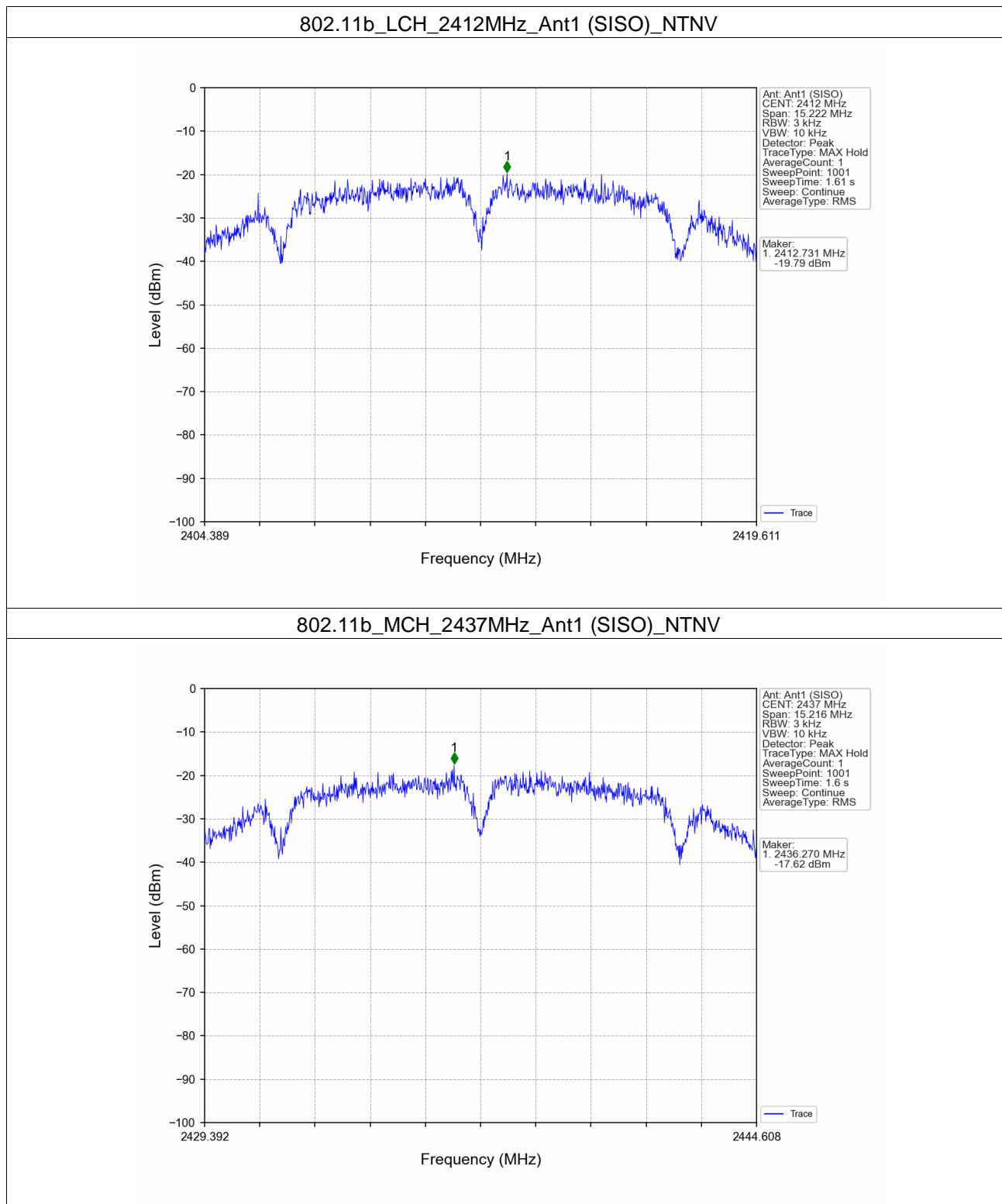
4. Maximum Power Spectral Density

4.1 PSD

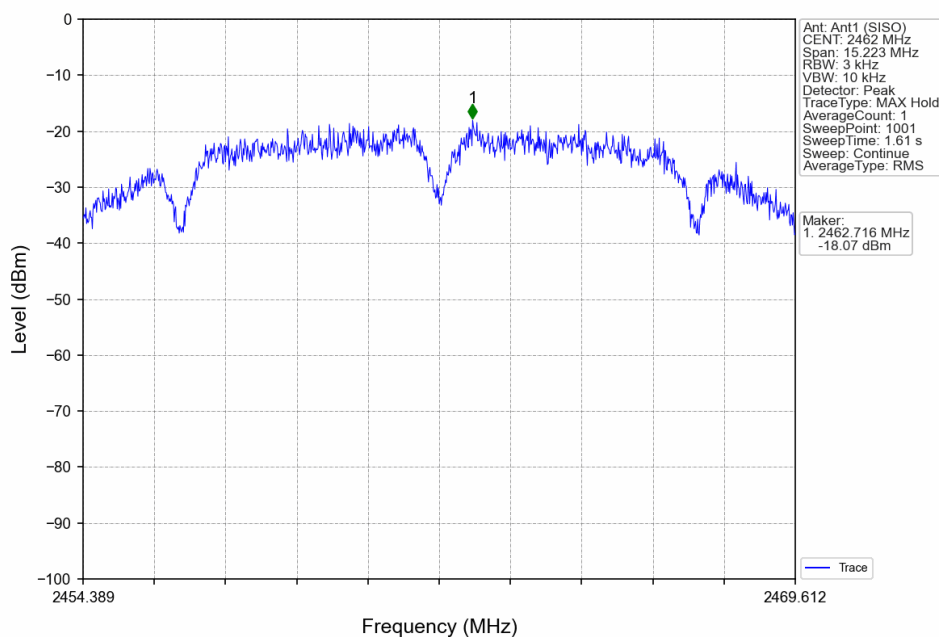
4.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) | | Verdict |
|----------------|---------|-----------------|------------------------|-------|---------|
| | | | ANT1 | Limit | |
| 802.11b | SISO | 2412 | -19.79 | <=8 | Pass |
| | | 2437 | -17.62 | <=8 | Pass |
| | | 2462 | -18.07 | <=8 | Pass |
| 802.11g | SISO | 2412 | -15.52 | <=8 | Pass |
| | | 2437 | -14.34 | <=8 | Pass |
| | | 2462 | -15.56 | <=8 | Pass |
| 802.11n (HT40) | SISO | 2422 | -20.15 | <=8 | Pass |
| | | 2437 | -18.69 | <=8 | Pass |
| | | 2452 | -18.98 | <=8 | Pass |

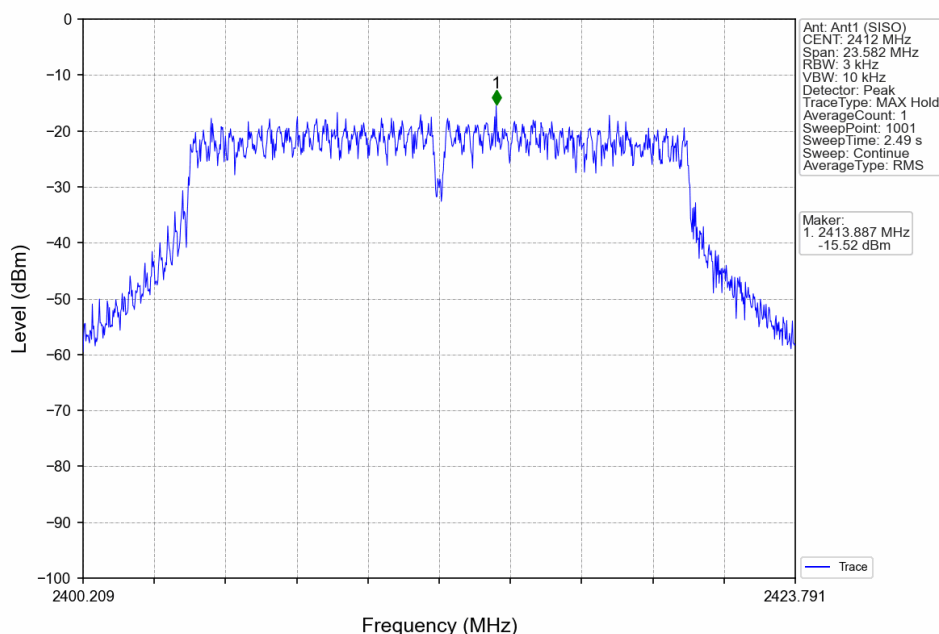
4.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



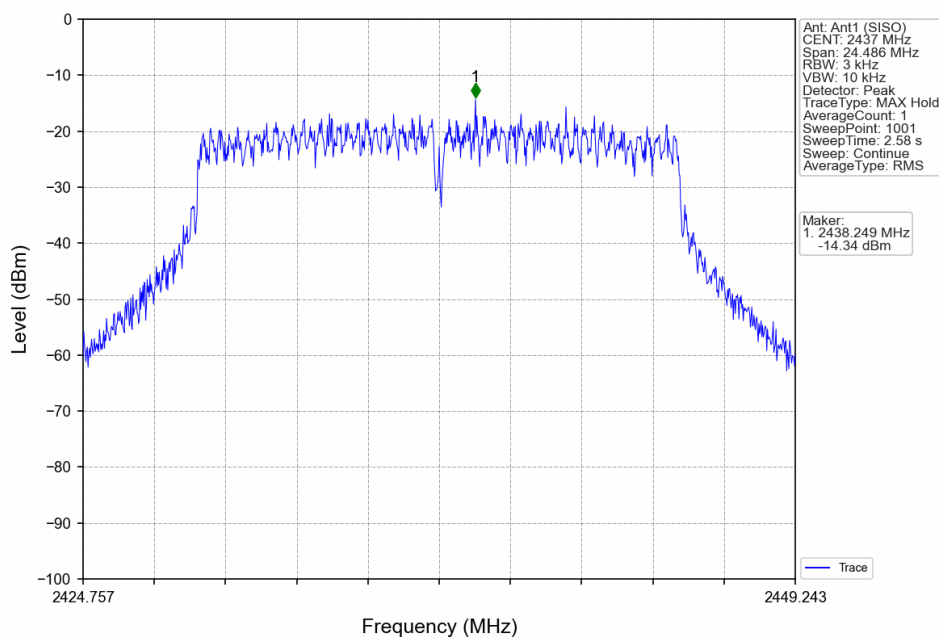
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



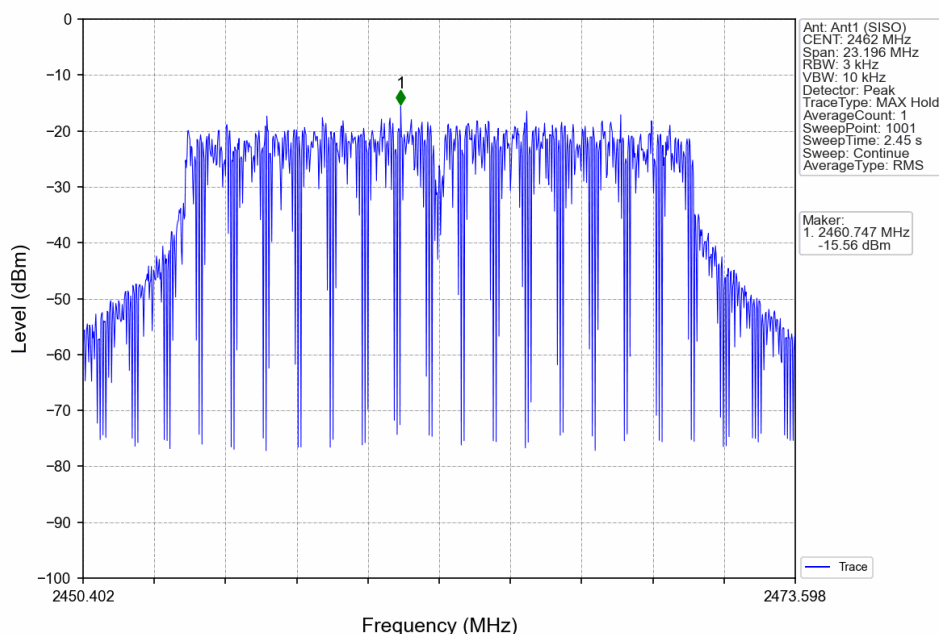
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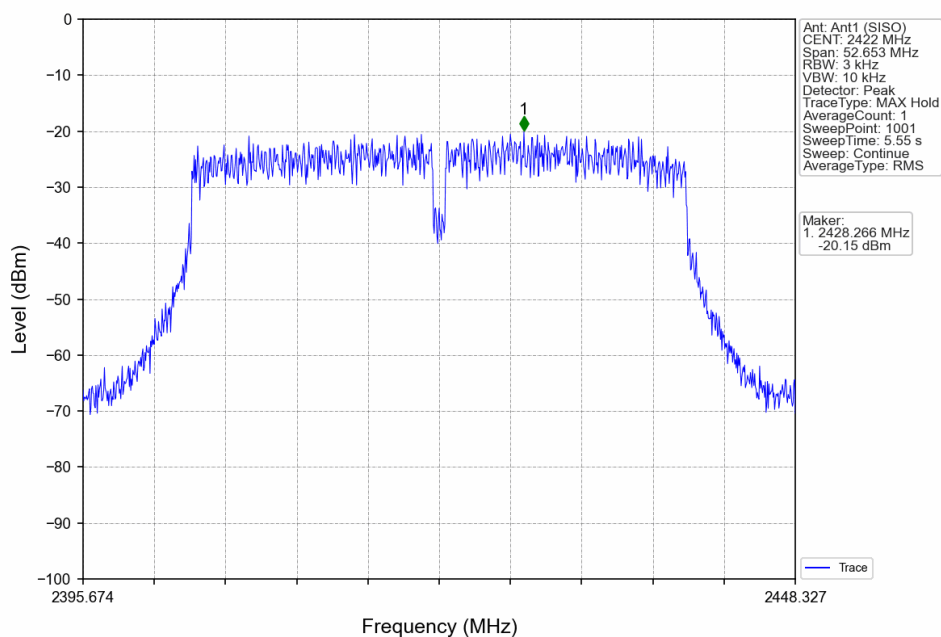
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



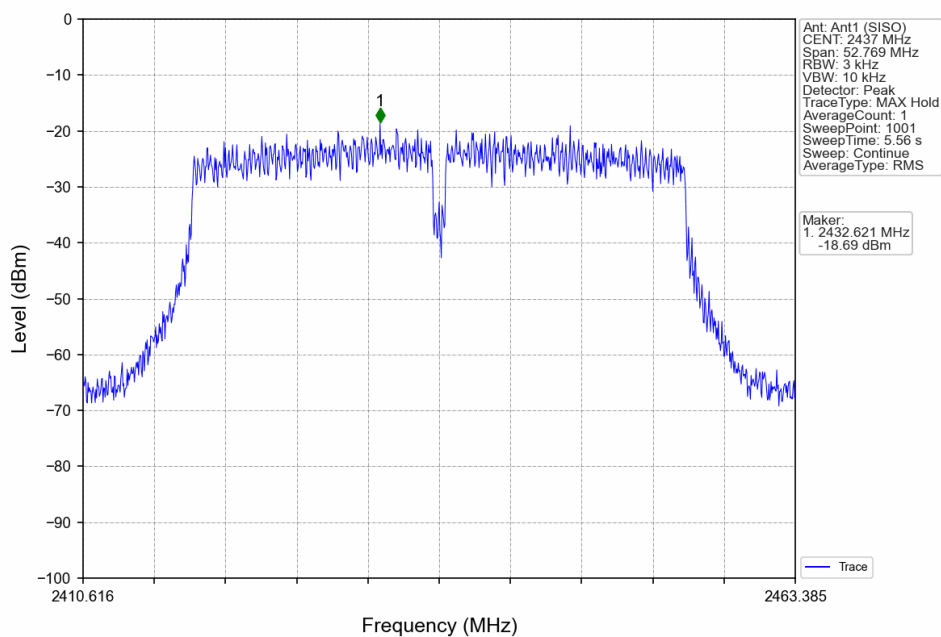
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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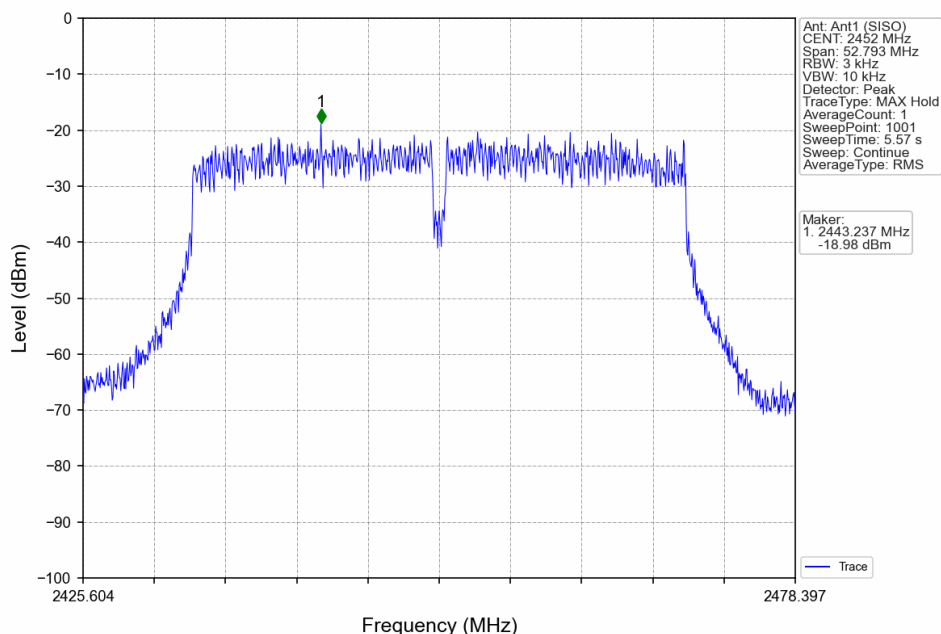
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

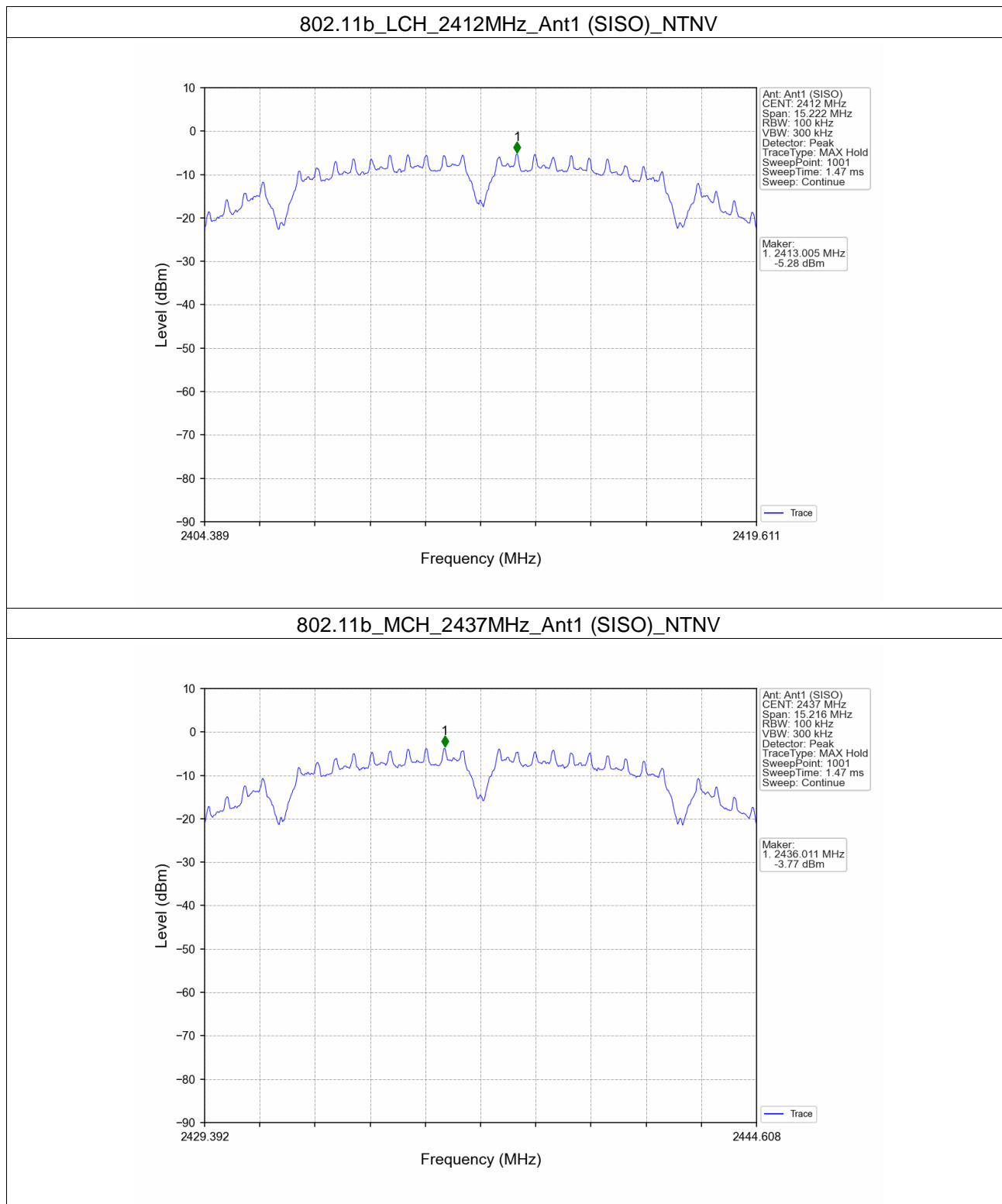
5.1 Ref

5.1.1 Test Result

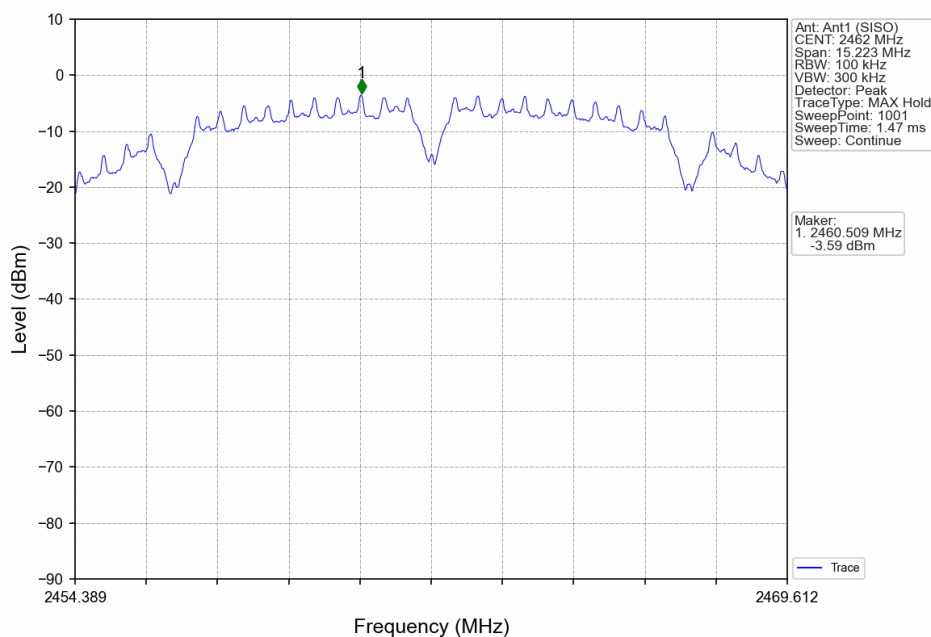
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b | SISO | 2412 | 1 | -5.28 |
| | | 2437 | 1 | -3.77 |
| | | 2462 | 1 | -3.59 |
| 802.11g | SISO | 2412 | 1 | -2.28 |
| | | 2437 | 1 | -1.95 |
| | | 2462 | 1 | -2.28 |
| 802.11n (HT40) | SISO | 2422 | 1 | -4.73 |
| | | 2437 | 1 | -4.38 |
| | | 2452 | 1 | -4.88 |

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.

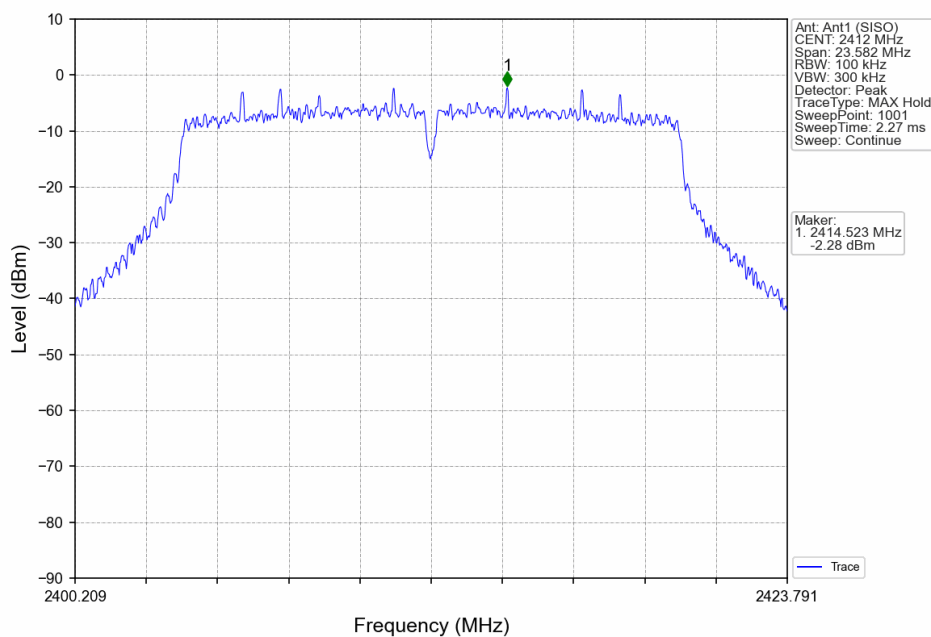
5.1.2 Test Graph



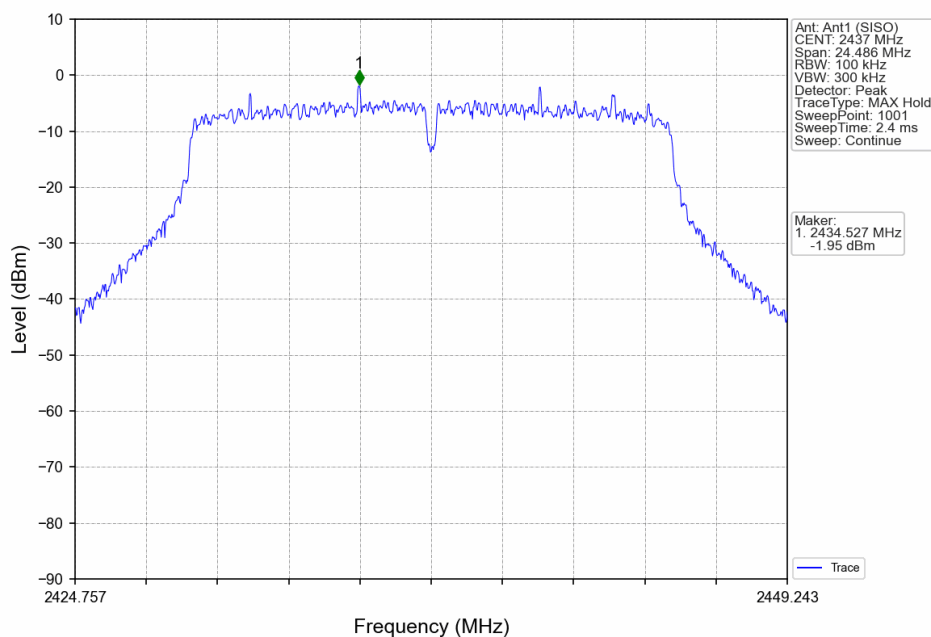
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



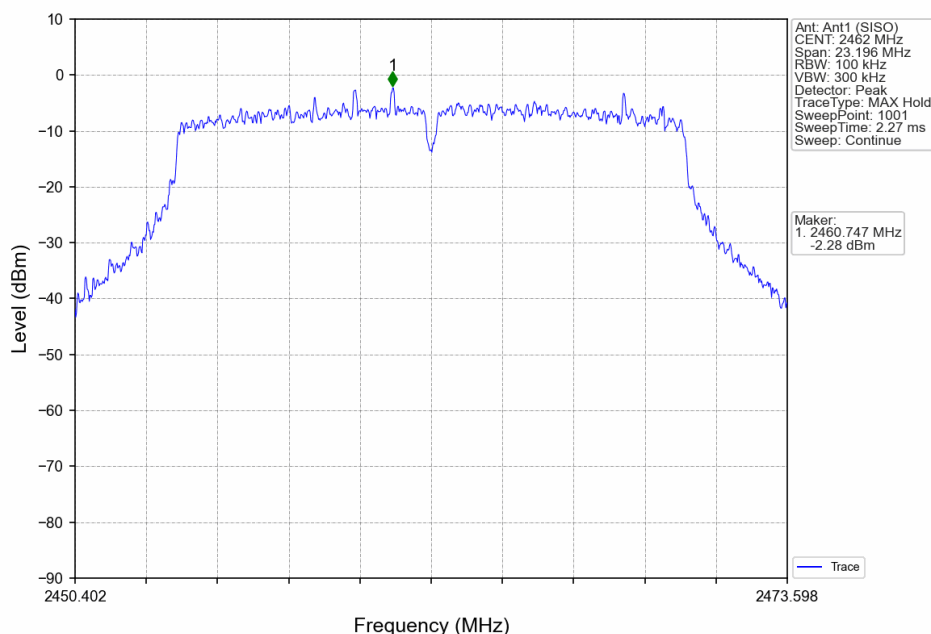
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



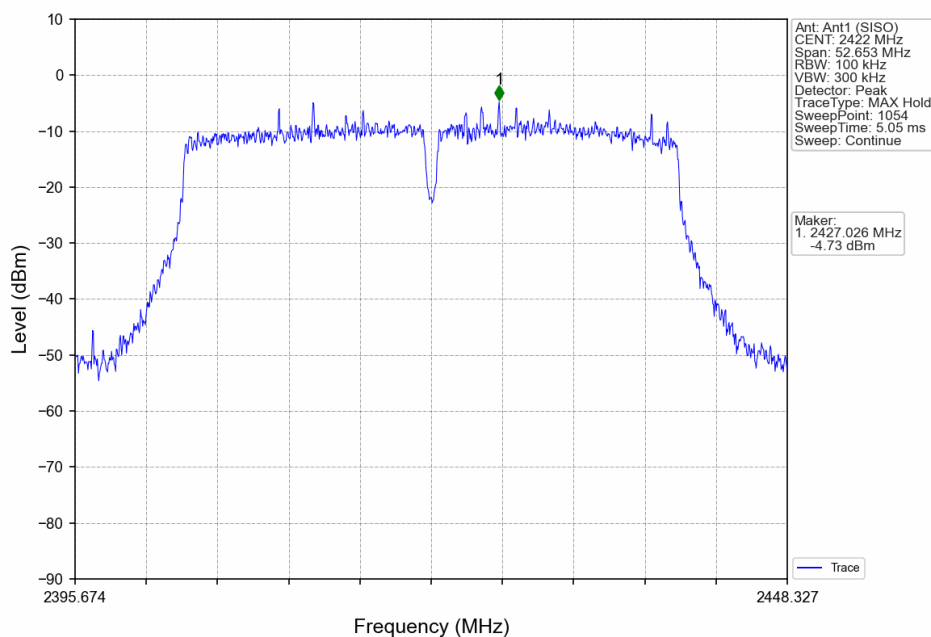
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



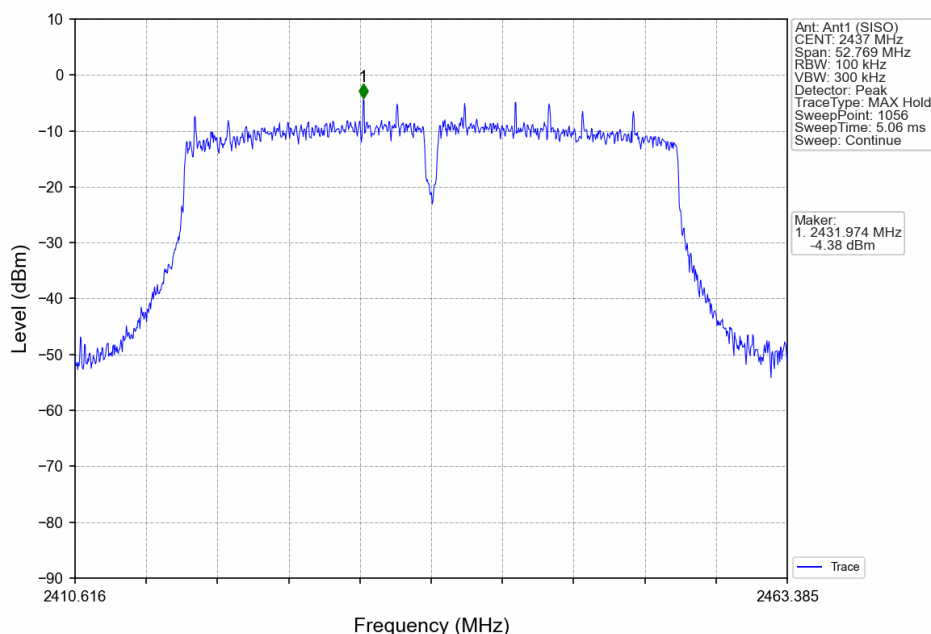
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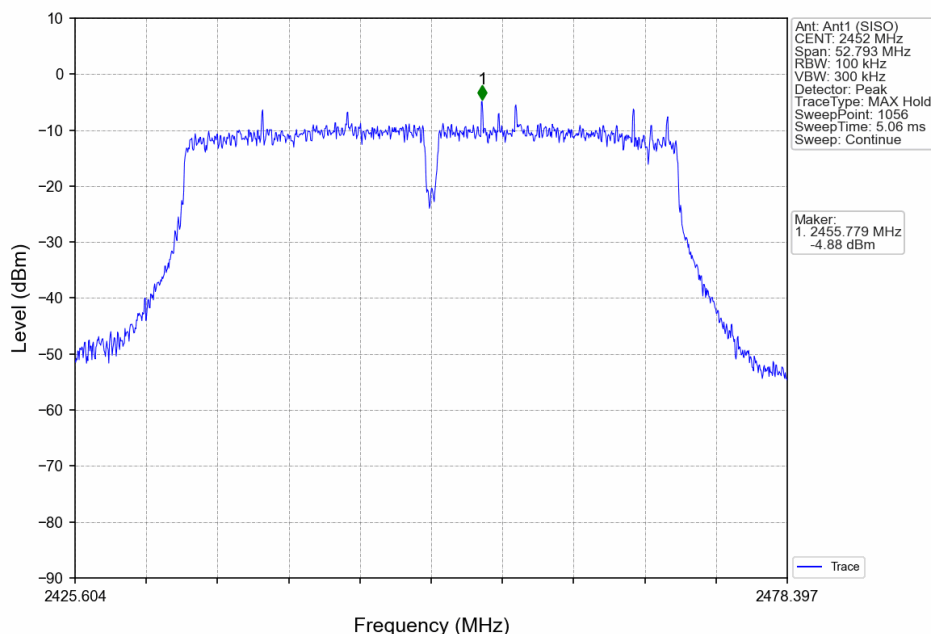
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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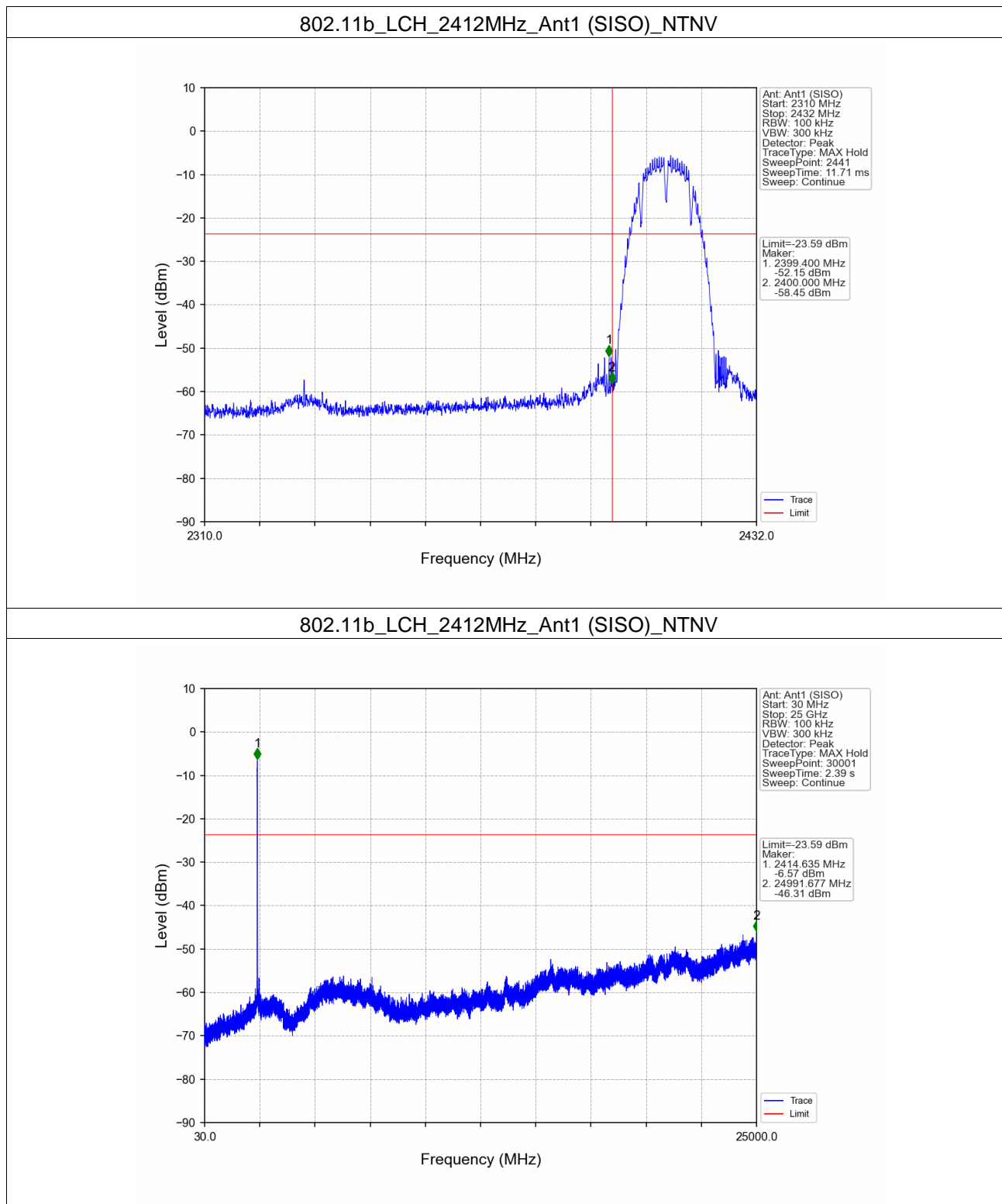
5.2 CSE and Band Edges

5.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b | SISO | 2412 | 1 | -3.59 | -23.59 | Pass |
| | | 2437 | 1 | -3.59 | -23.59 | Pass |
| | | 2462 | 1 | -3.59 | -23.59 | Pass |
| 802.11g | SISO | 2412 | 1 | -1.95 | -21.95 | Pass |
| | | 2437 | 1 | -1.95 | -21.95 | Pass |
| | | 2462 | 1 | -1.95 | -21.95 | Pass |
| 802.11n (HT40) | SISO | 2422 | 1 | -4.38 | -24.38 | Pass |
| | | 2437 | 1 | -4.38 | -24.38 | Pass |
| | | 2452 | 1 | -4.38 | -24.38 | 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



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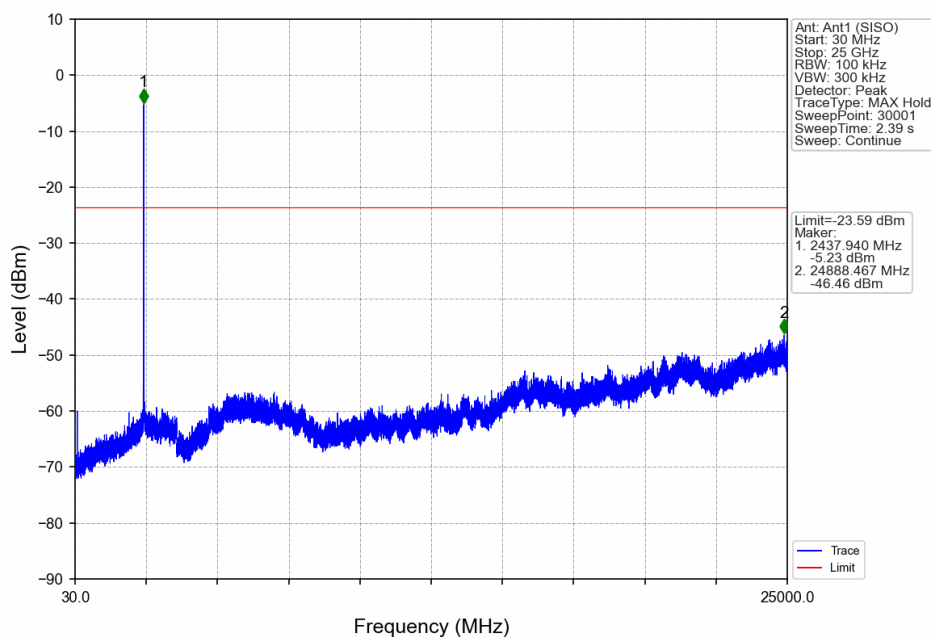
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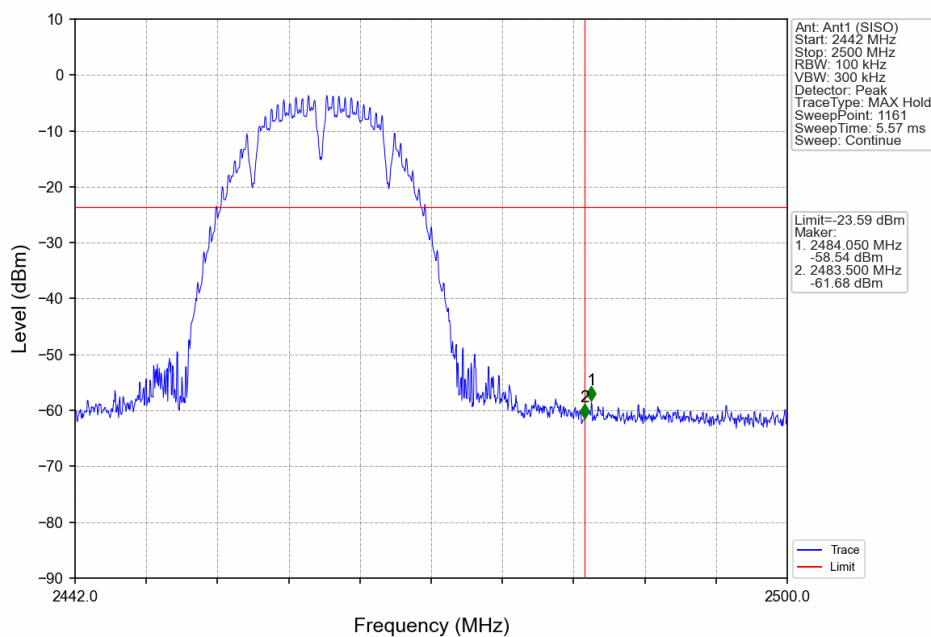
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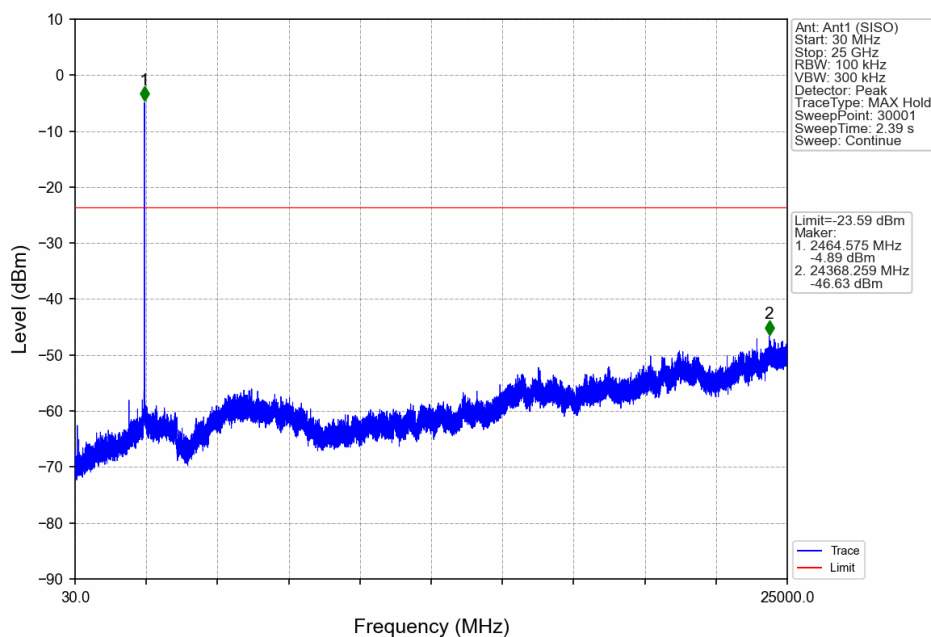
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



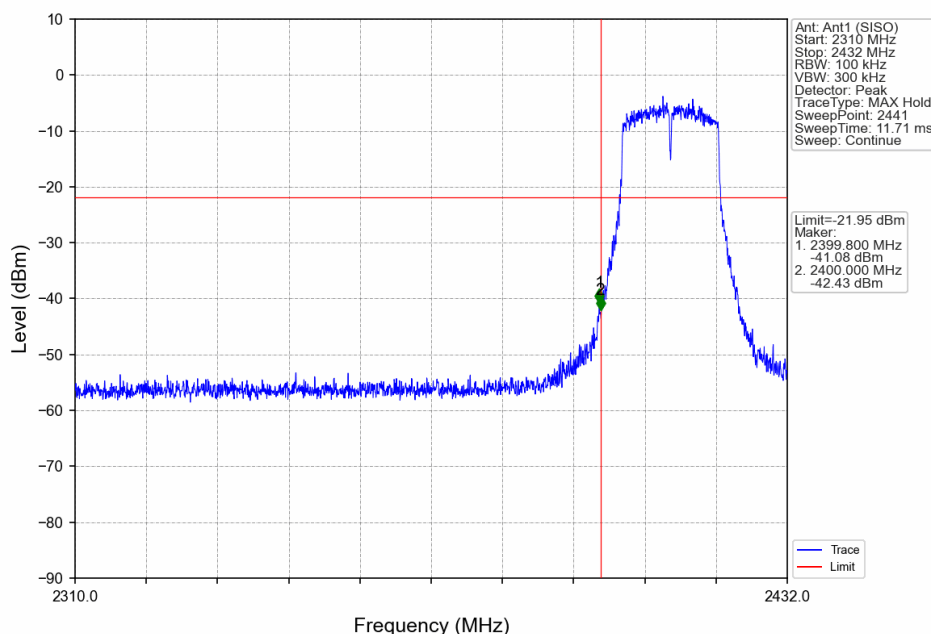
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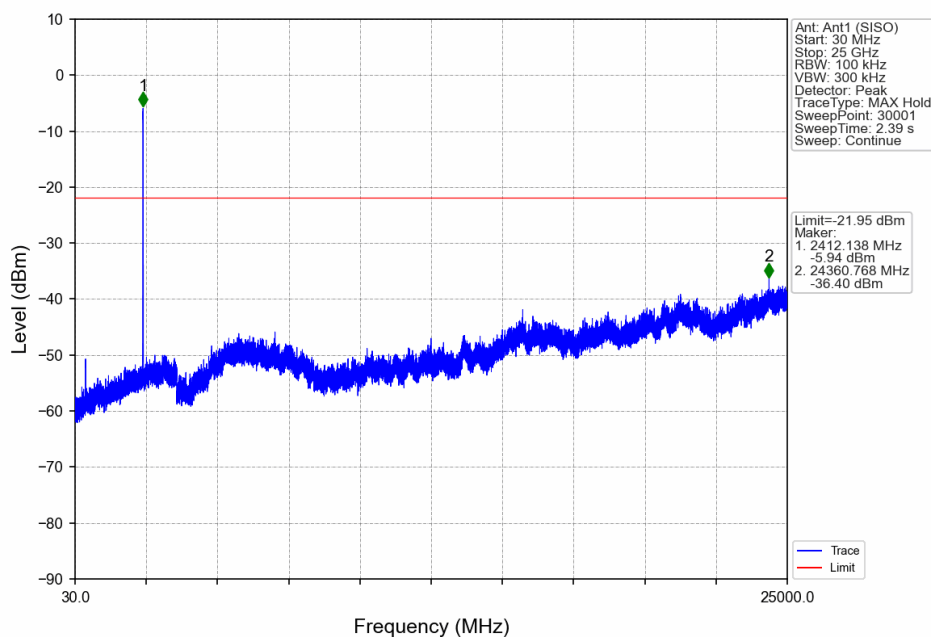
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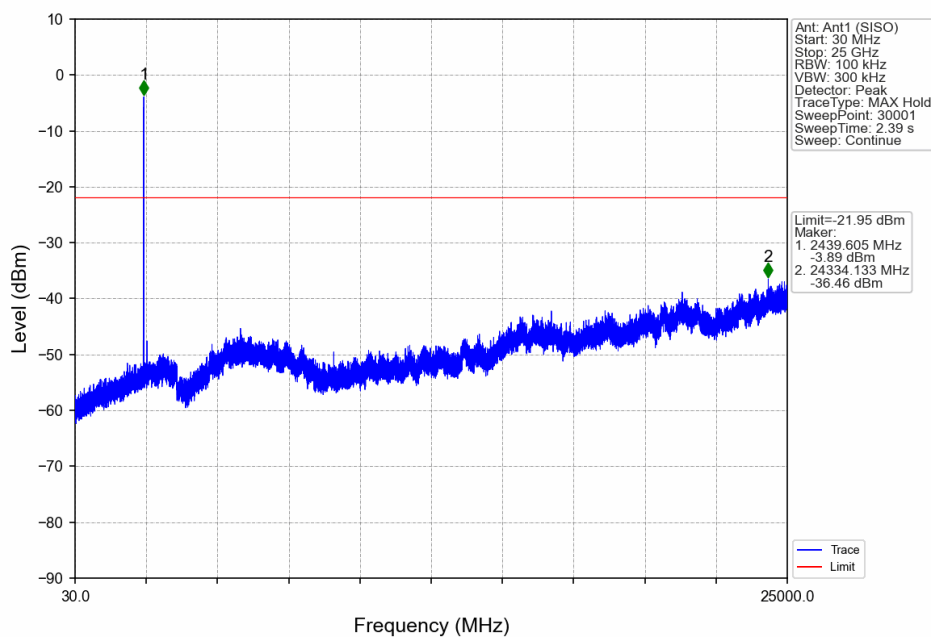
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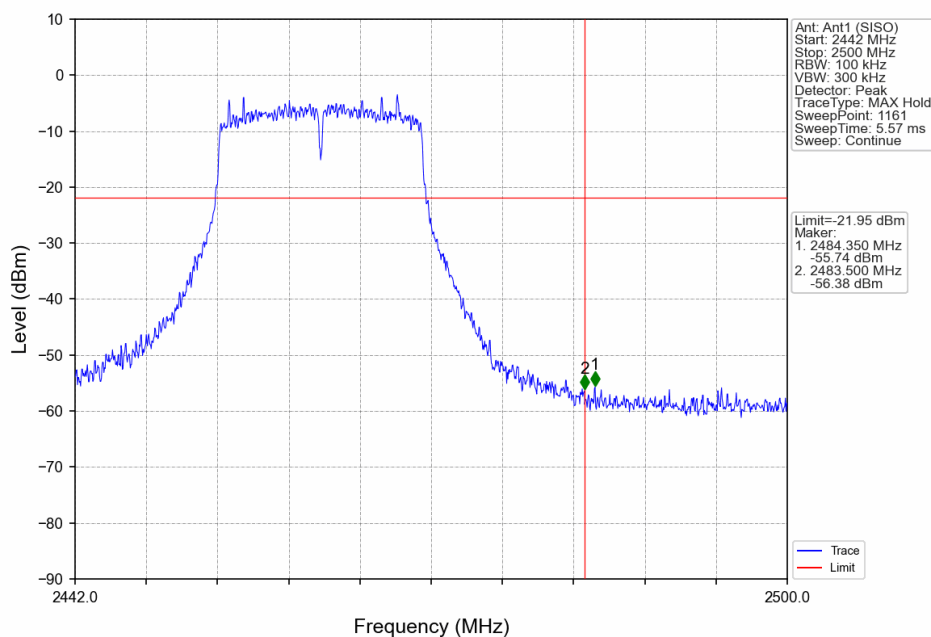
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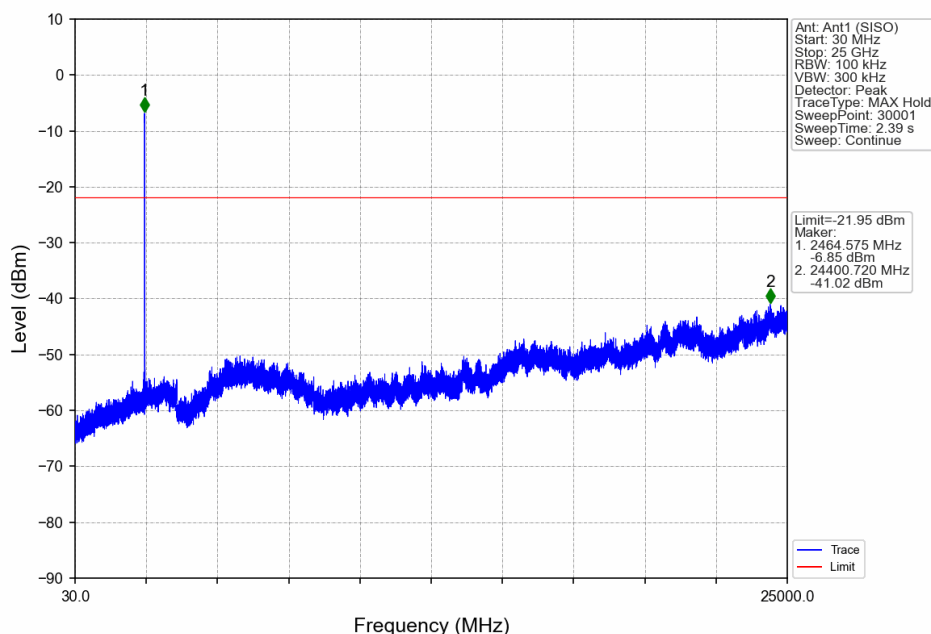
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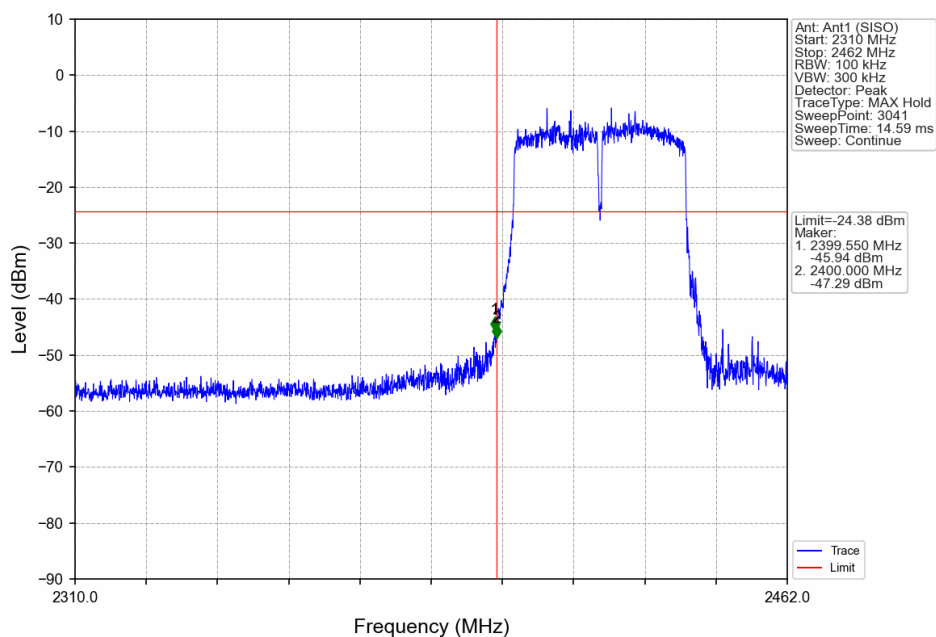
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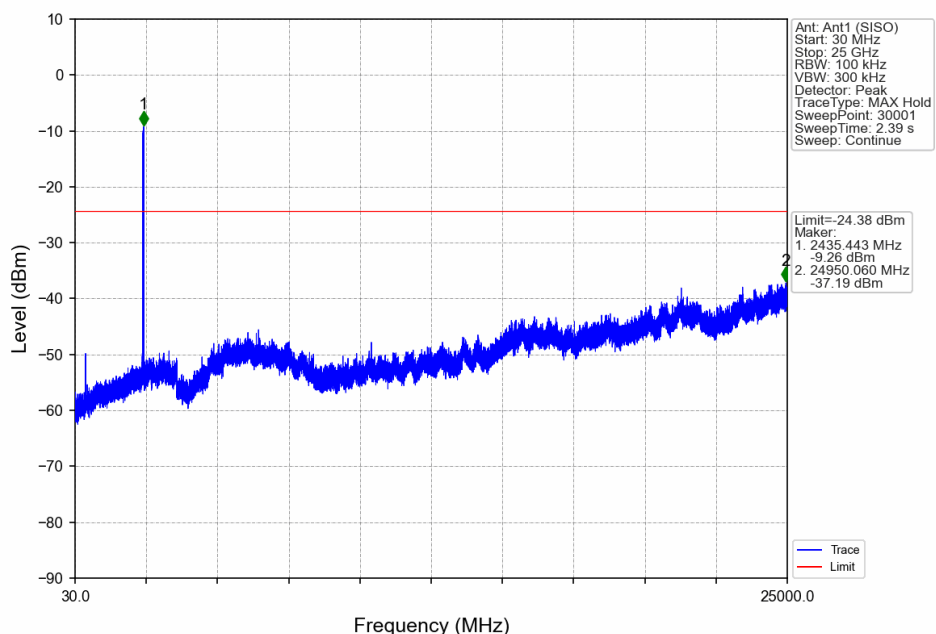
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



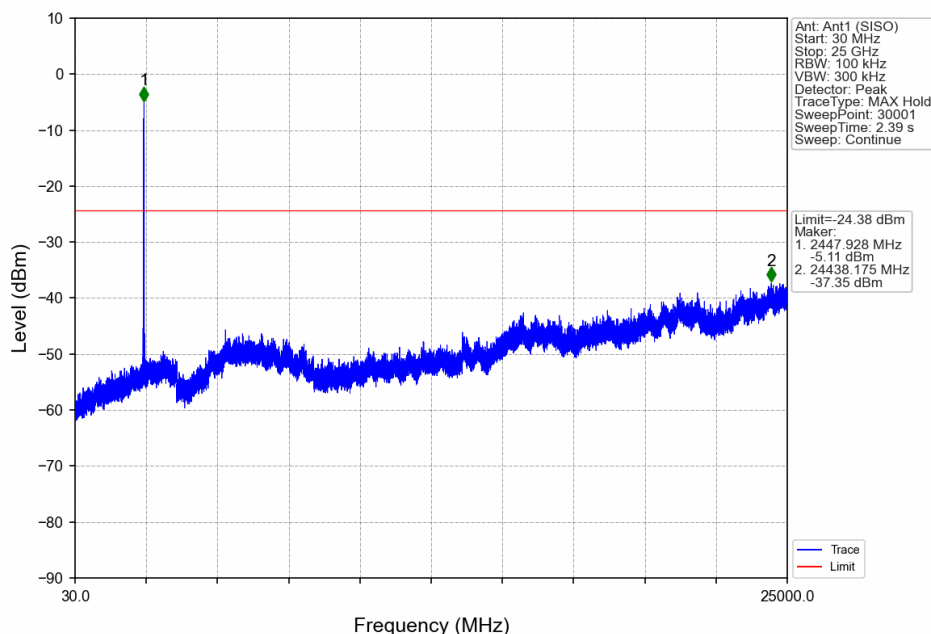
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



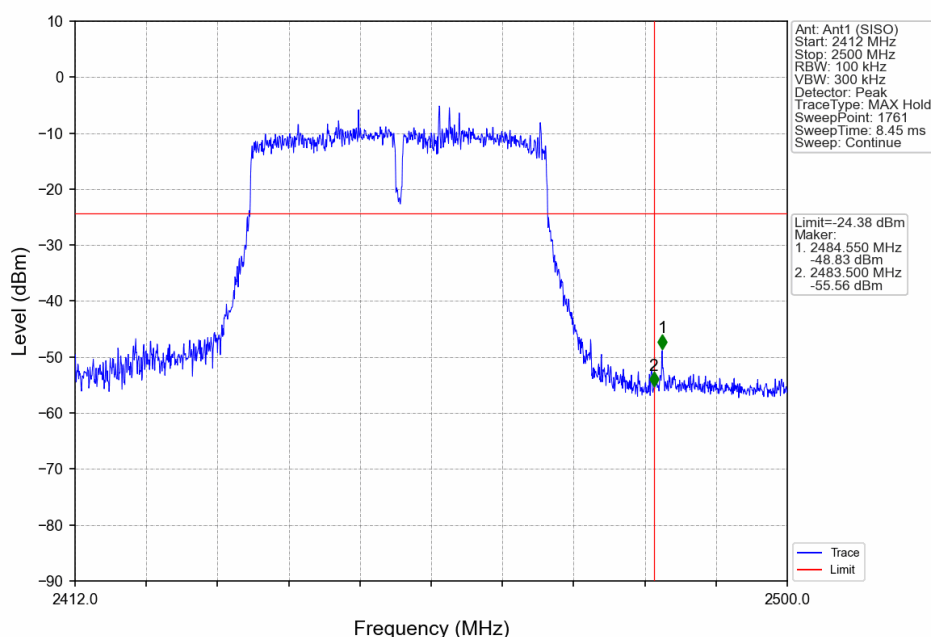
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



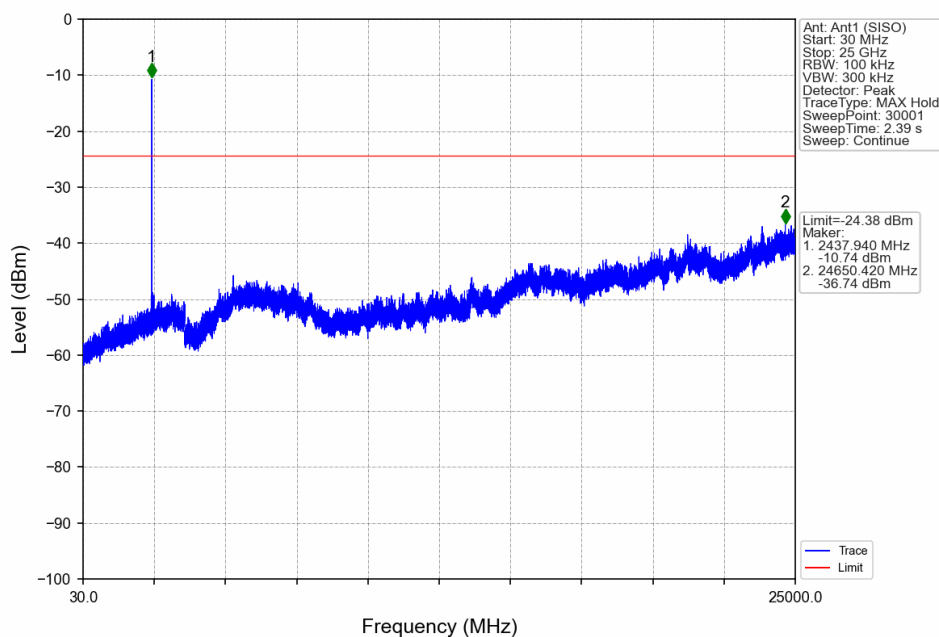
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



- End of the Report -

