**Appendix for 15.247**

**Product Name: Capacitor Pen**

**Test Model: BP26**

# 1. Bandwidth

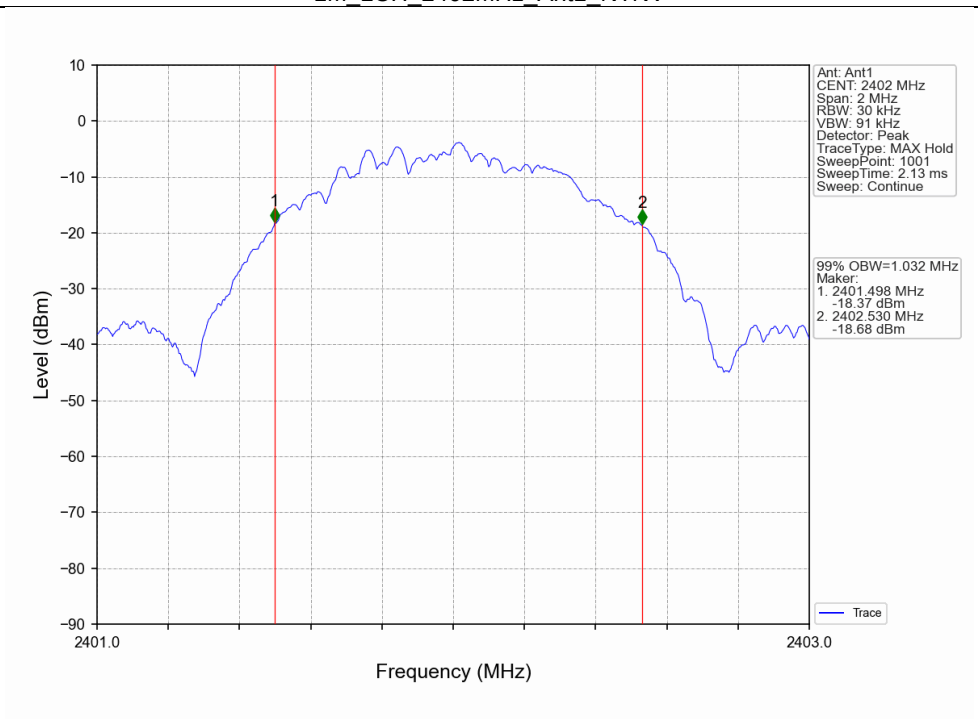
## 1.1 OBW

### 1.1.1 Test Result

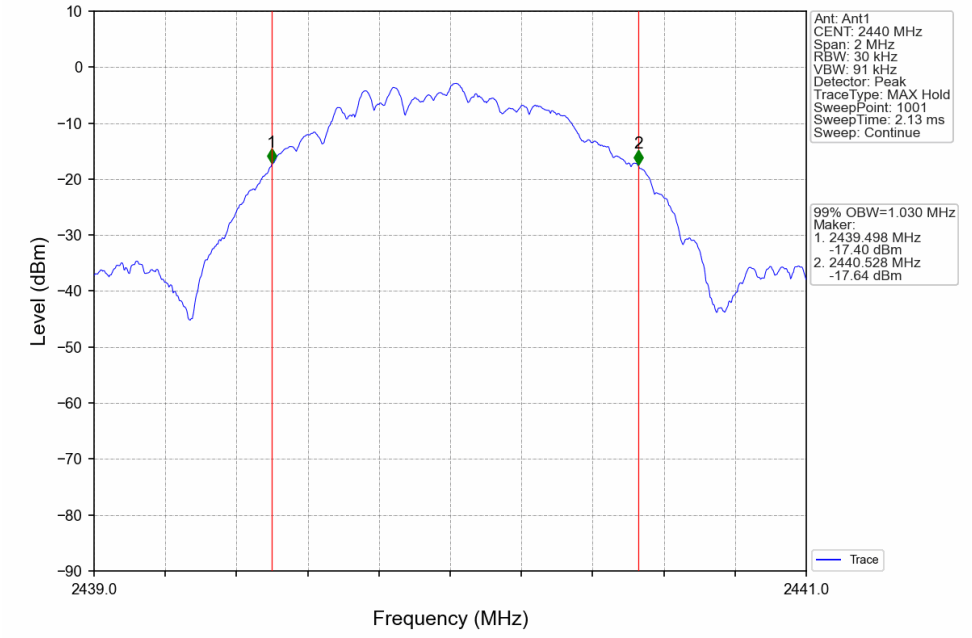
| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | | Verdict |
|---|---|---|---|---|---|---|
| | | | | Result | Limit | |
| 1M | SISO | 2402 | 1 | 1.032 | / | Pass |
| | | 2440 | 1 | 1.030 | / | Pass |
| | | 2480 | 1 | 1.031 | / | Pass |
| 2M | SISO | 2402 | 1 | 2.046 | / | Pass |
| | | 2440 | 1 | 2.046 | / | Pass |
| | | 2480 | 1 | 2.045 | / | Pass |

## 1.1.2 Test Graph

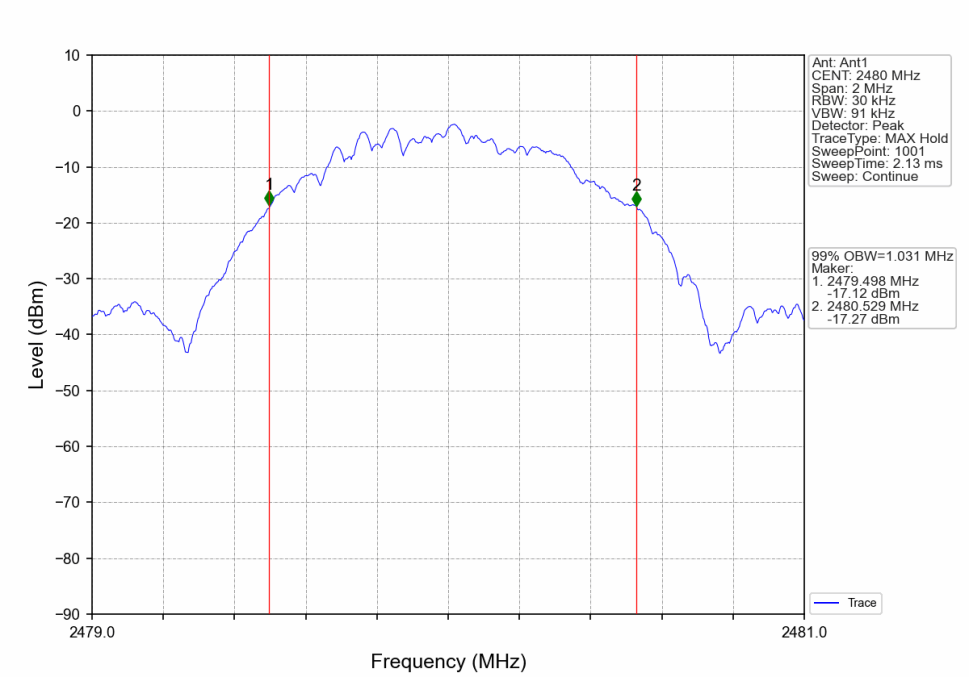
1M_LCH_2402MHz_Ant1_NTNV



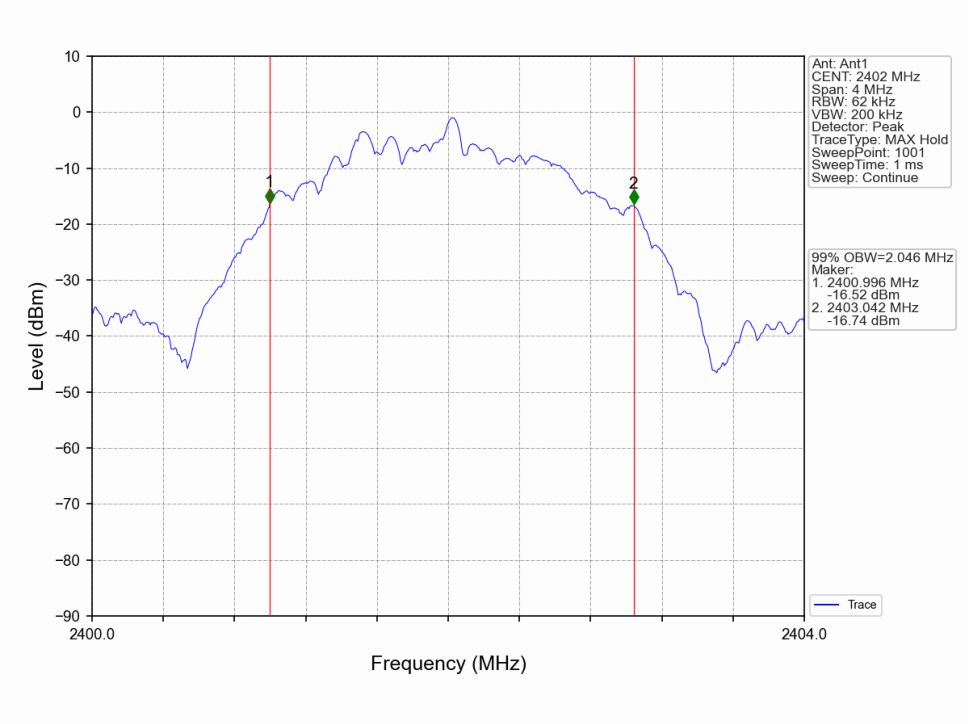

1M_MCH_2440MHz_Ant1_NTNV



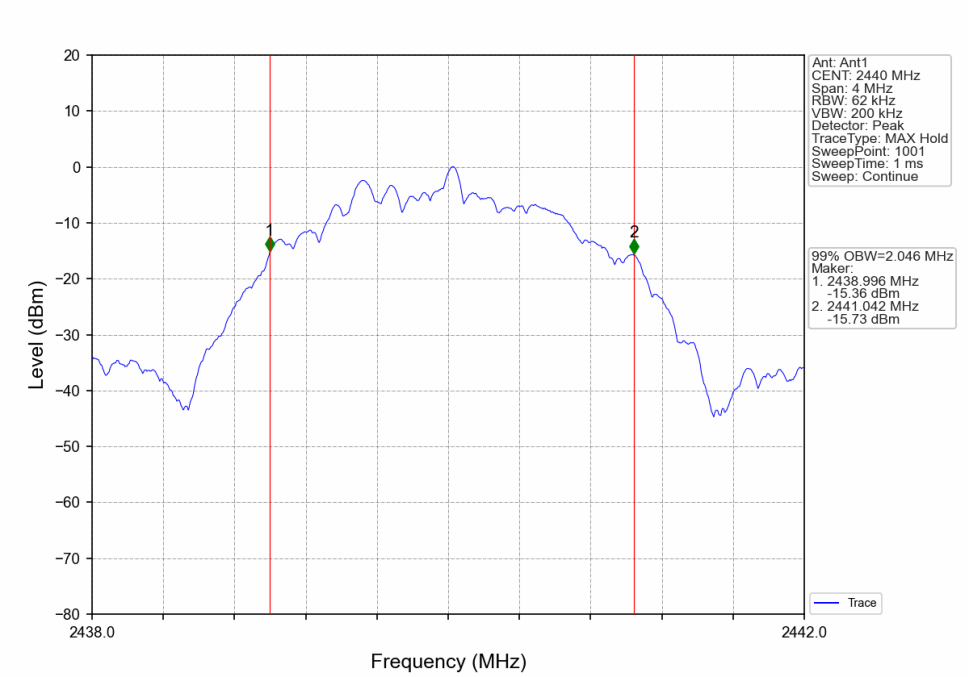
1M_HCH_2480MHz_Ant1_NTNV



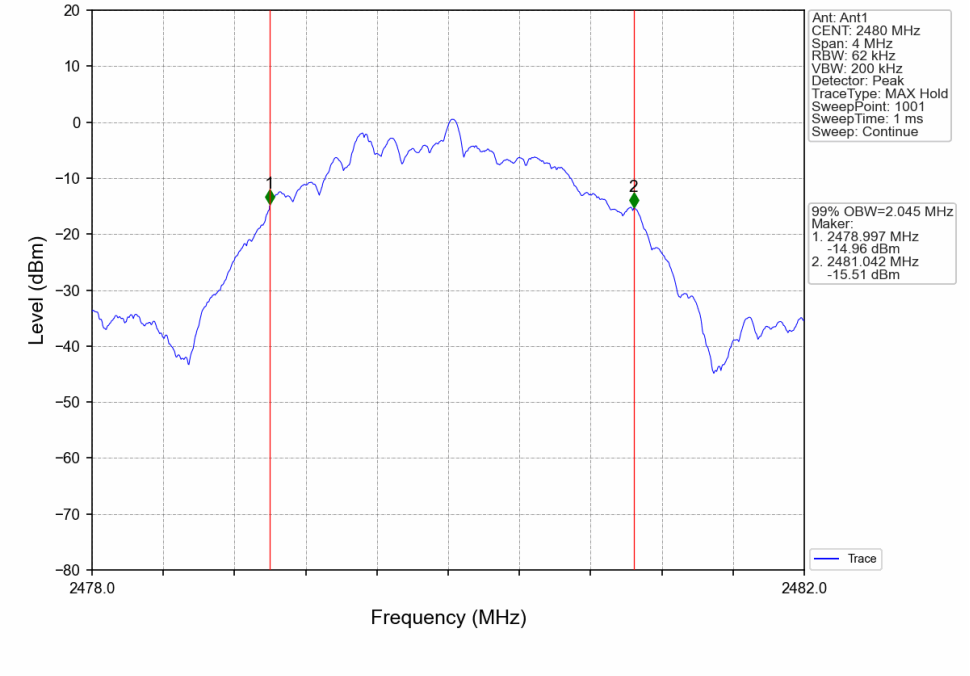

2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV




2M_HCH_2480MHz_Ant1_NTNV



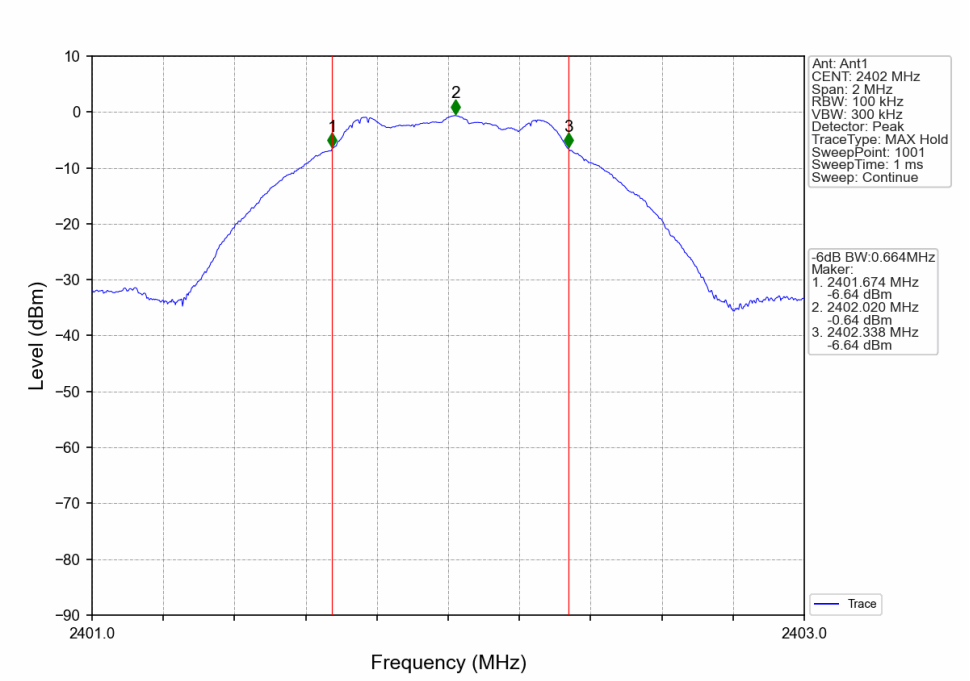
## 1.2 6dB BW

### 1.2.1 Test Result

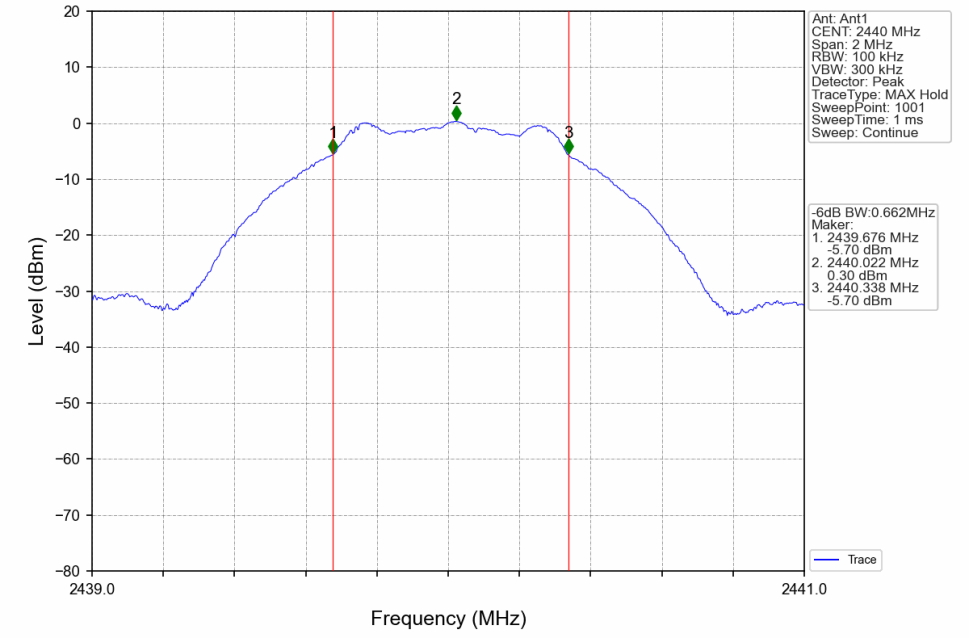
| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|---|---|---|---|---|---|---|
| | | | | Result | Limit | |
| 1M | SISO | 2402 | 1 | 0.664 | >=0.5 | Pass |
| | | 2440 | 1 | 0.662 | >=0.5 | Pass |
| | | 2480 | 1 | 0.666 | >=0.5 | Pass |
| 2M | SISO | 2402 | 1 | 1.146 | >=0.5 | Pass |
| | | 2440 | 1 | 1.144 | >=0.5 | Pass |
| | | 2480 | 1 | 1.151 | >=0.5 | Pass |

## 1.2.2 Test Graph

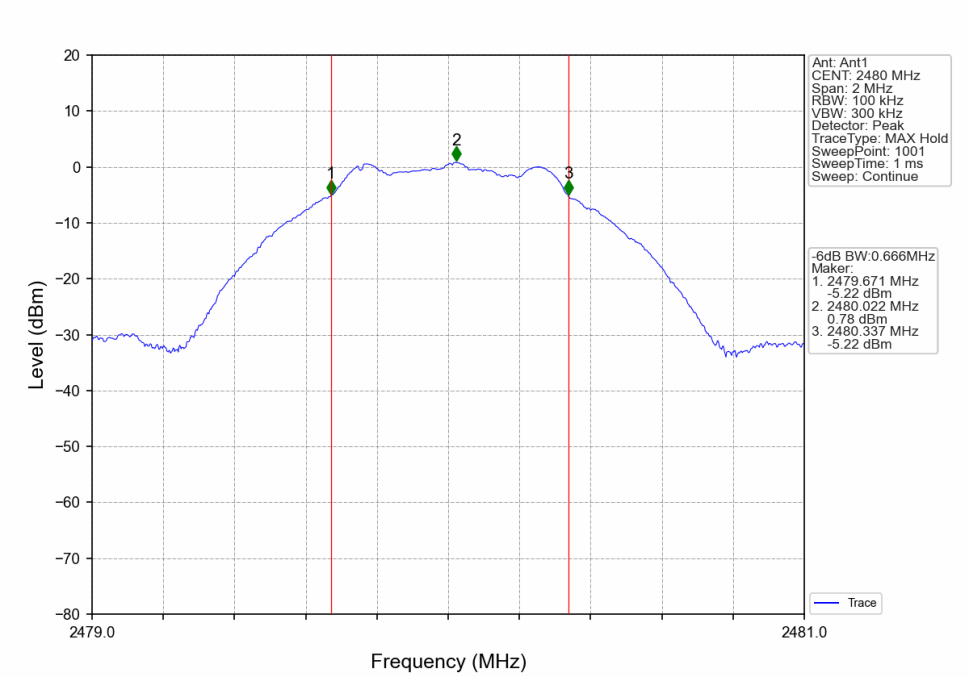
1M_LCH_2402MHz_Ant1_NTNV



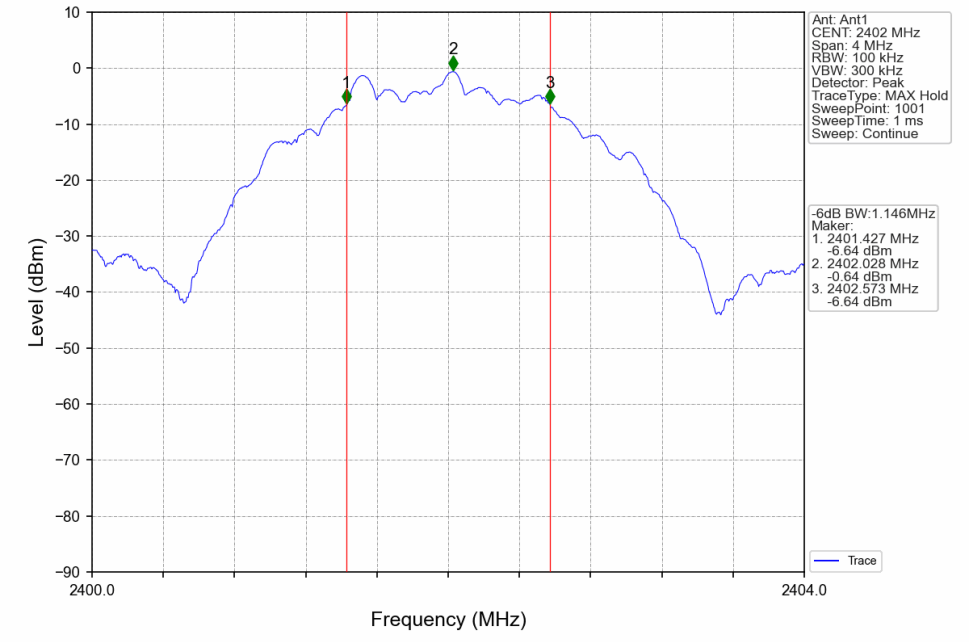

1M_MCH_2440MHz_Ant1_NTNV



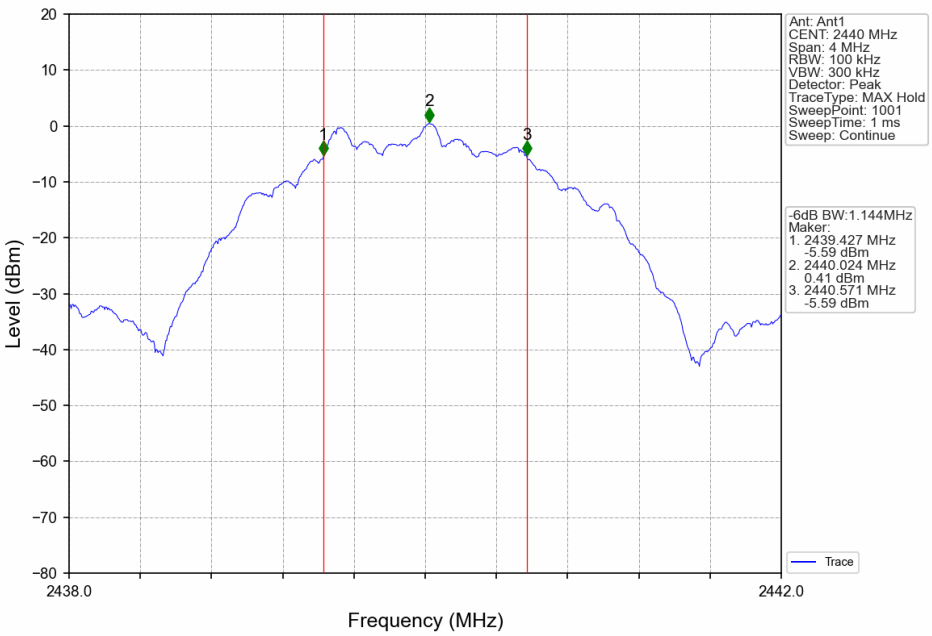
1M_HCH_2480MHz_Ant1_NTNV



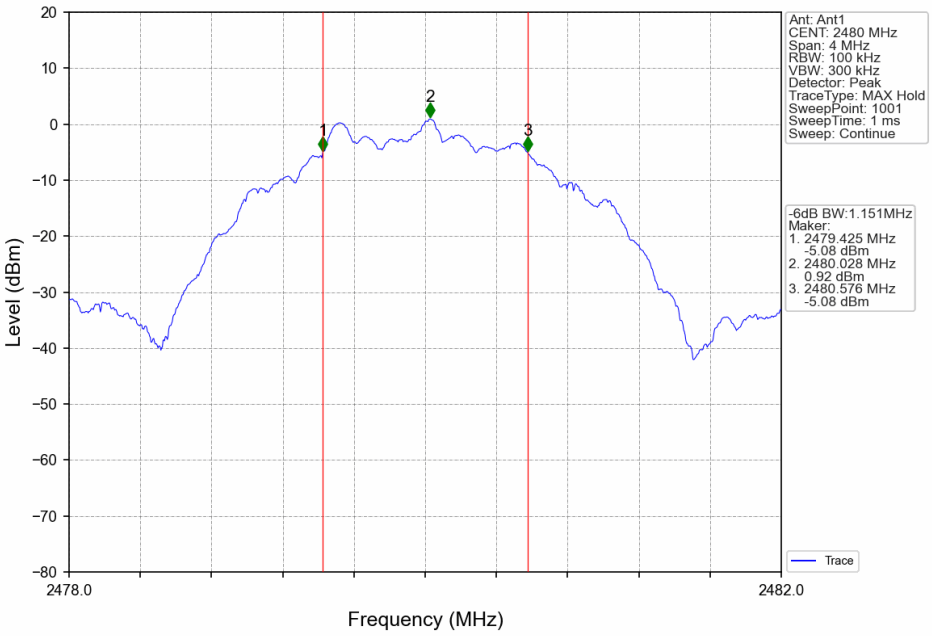

2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV




2M_HCH_2480MHz_Ant1_NTNV



# 2. Maximum Conducted Output Power

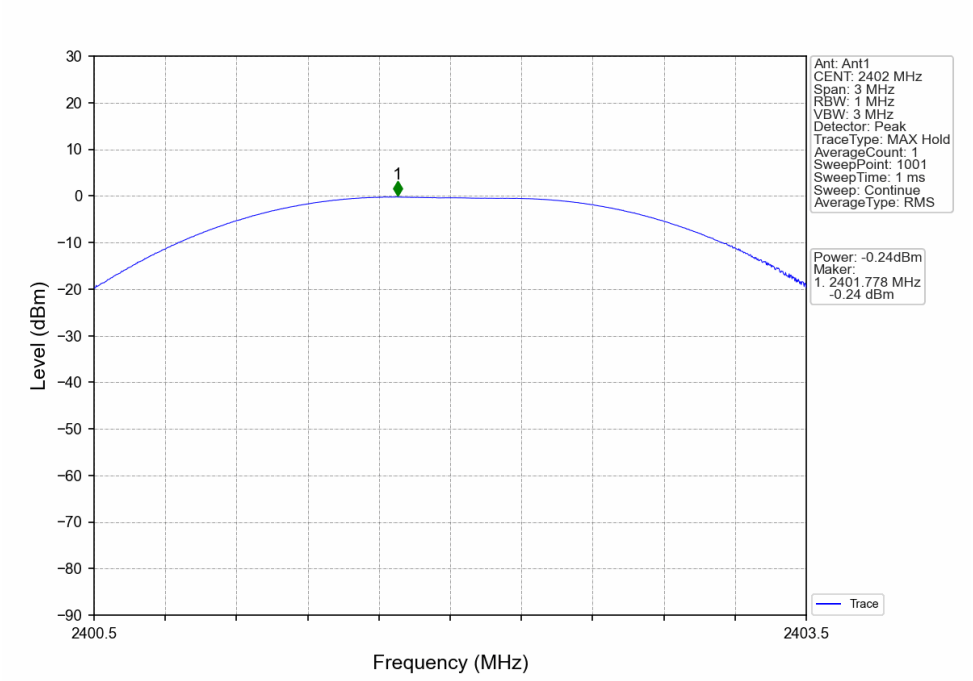
## 2.1 Power

### 2.1.1 Test Result

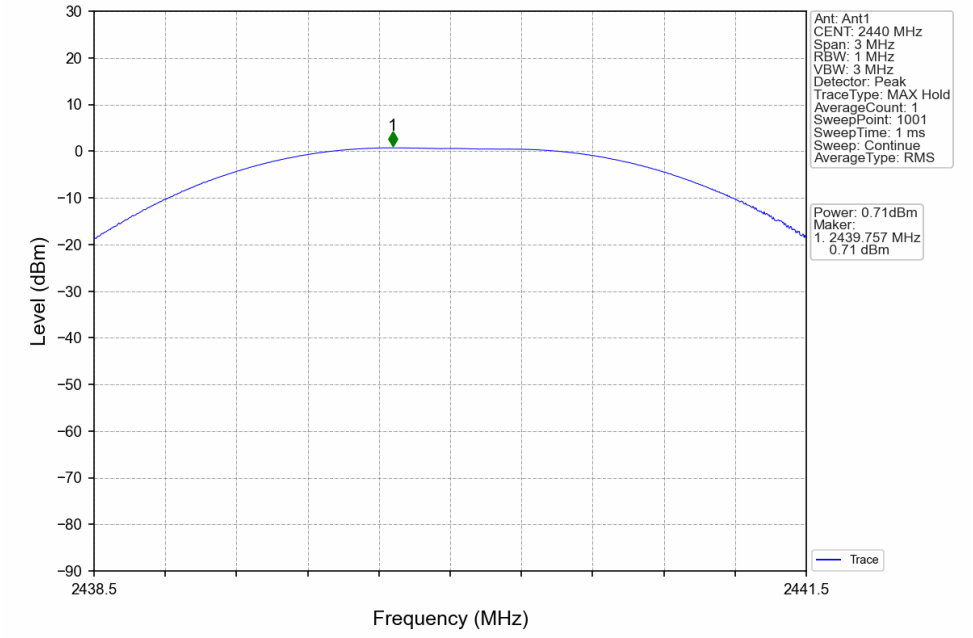
| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) | | Verdict |
|---|---|---|---|---|---|
| | | | ANT1 | Limit | |
| 1M | SISO | 2402 | -0.24 | <=30 | Pass |
| | | 2440 | 0.71 | <=30 | Pass |
| | | 2480 | 1.20 | <=30 | Pass |
| 2M | SISO | 2402 | -0.10 | <=30 | Pass |
| | | 2440 | 0.94 | <=30 | Pass |
| | | 2480 | 1.46 | <=30 | Pass |
| Note1: Antenna Gain: Ant1: 0.00dBi; | | | | | |

## 2.1.2 Test Graph

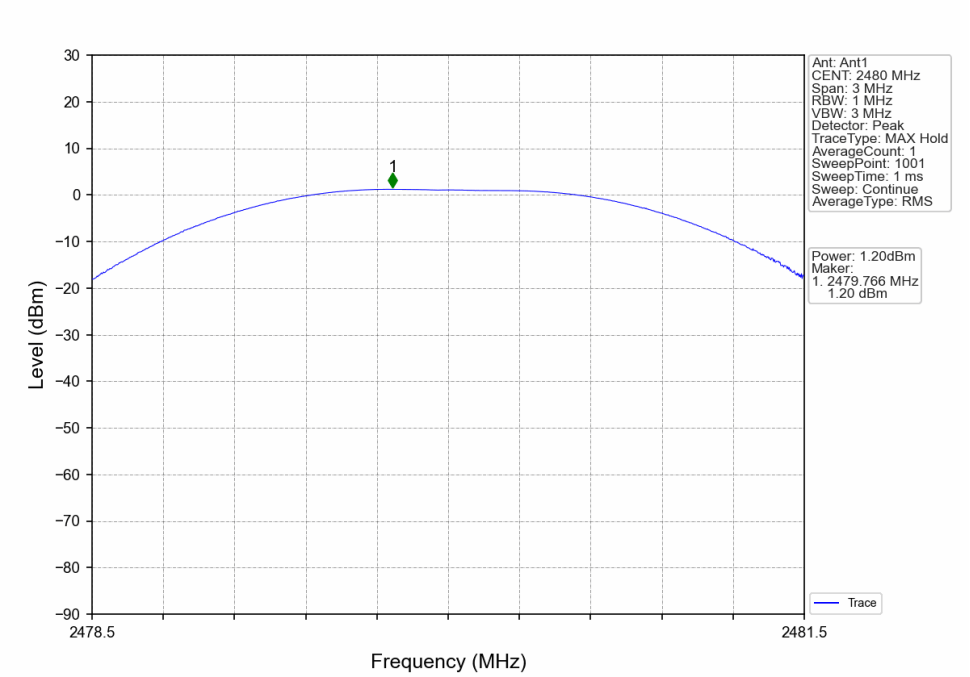
1M_LCH_2402MHz_Ant1_NTNV



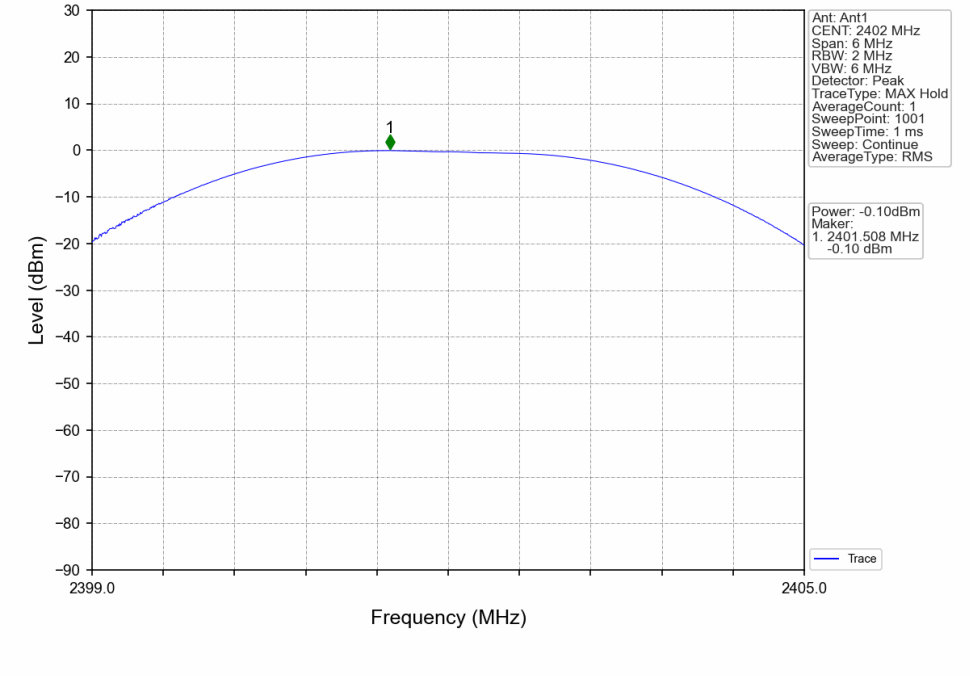

1M_MCH_2440MHz_Ant1_NTNV



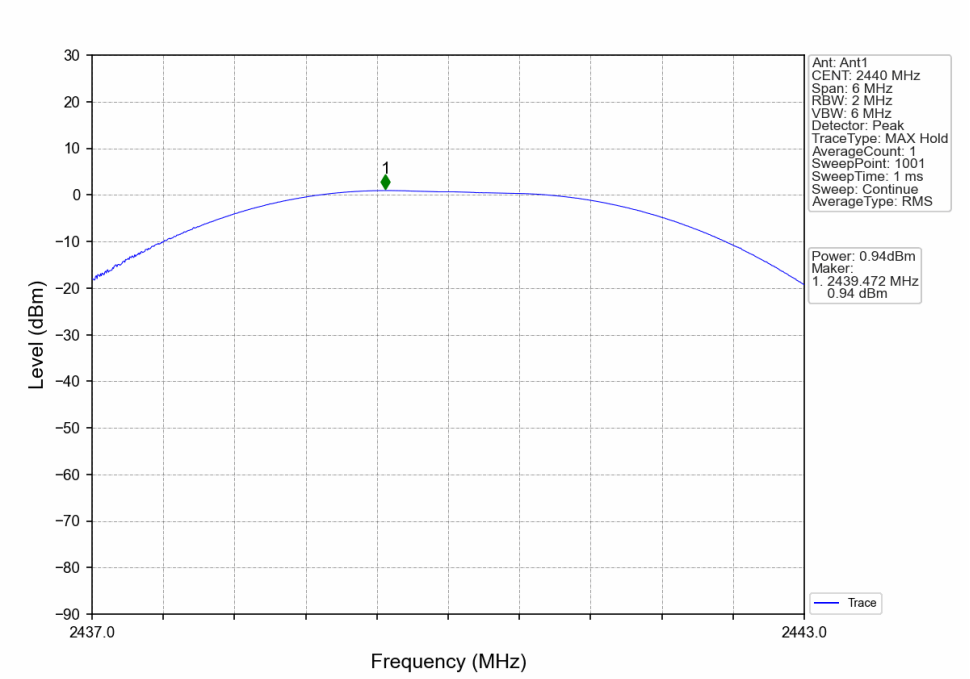
1M_HCH_2480MHz_Ant1_NTNV



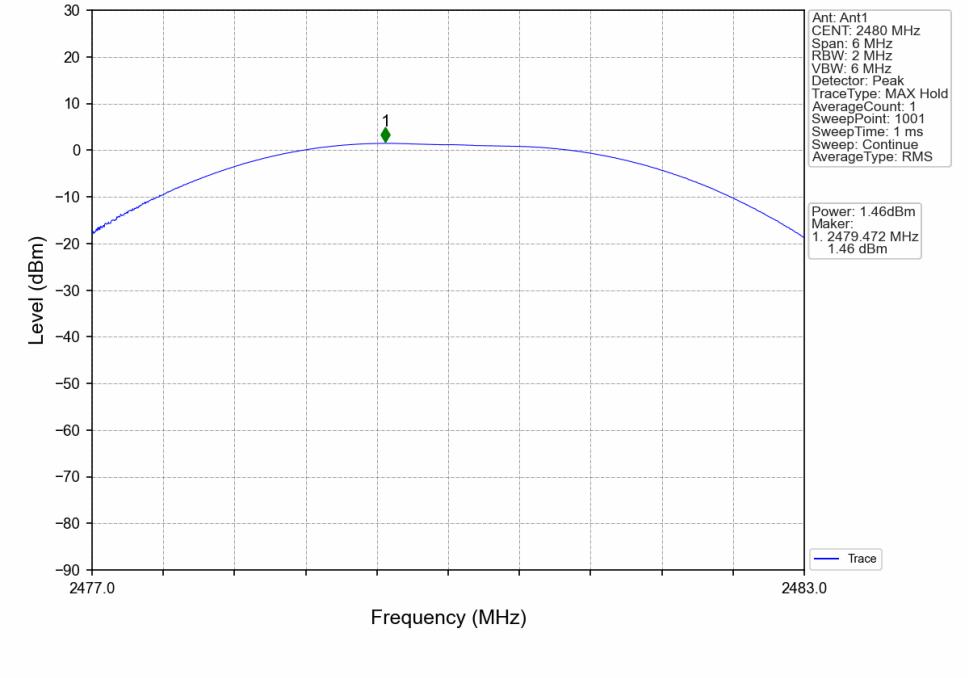

2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV




2M_HCH_2480MHz_Ant1_NTNV



# 3. Maximum Power Spectral Density

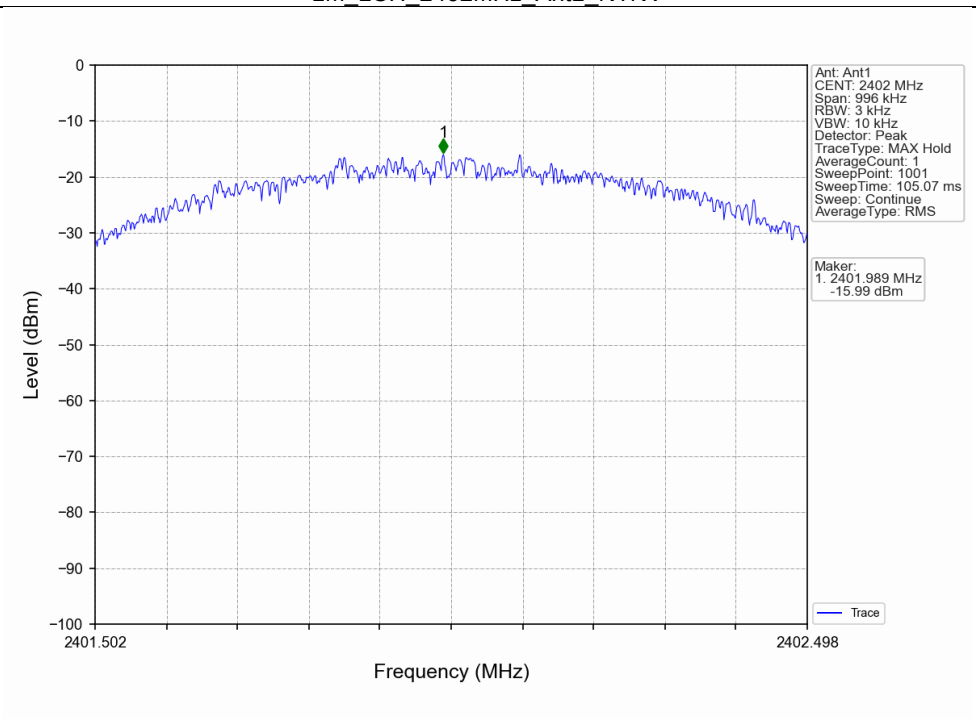
## 3.1 PSD

### 3.1.1 Test Result

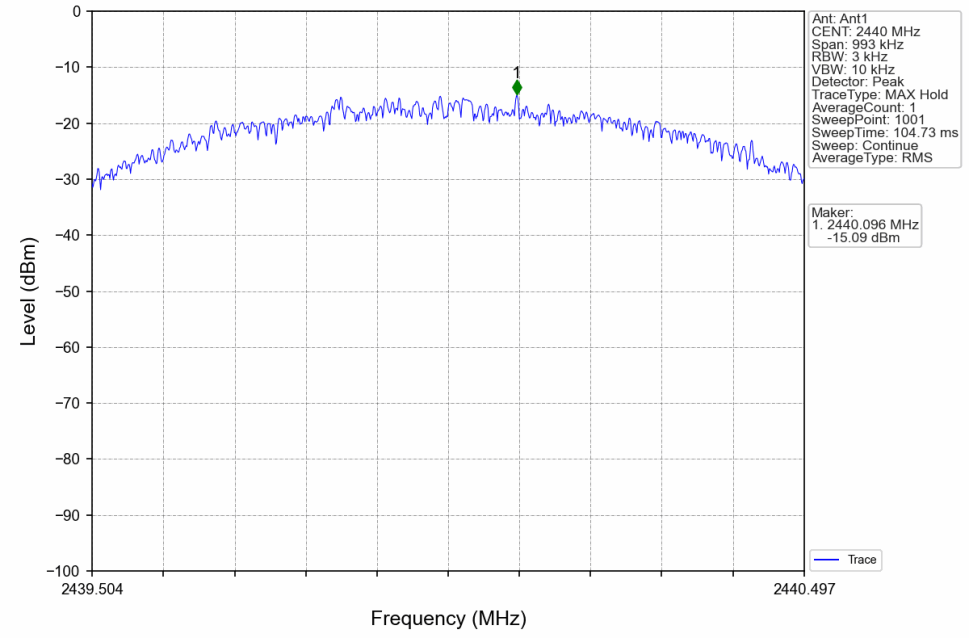
| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) | | Verdict |
|---|---|---|---|---|---|
| | | | ANT1 | Limit | |
| 1M | SISO | 2402 | -15.99 | <=8 | Pass |
| | | 2440 | -15.09 | <=8 | Pass |
| | | 2480 | -14.58 | <=8 | Pass |
| 2M | SISO | 2402 | -18.43 | <=8 | Pass |
| | | 2440 | -17.54 | <=8 | Pass |
| | | 2480 | -16.91 | <=8 | Pass |
| Note1: Antenna Gain: Ant1: 0.00dBi; | | | | | |

## 3.1.2 Test Graph

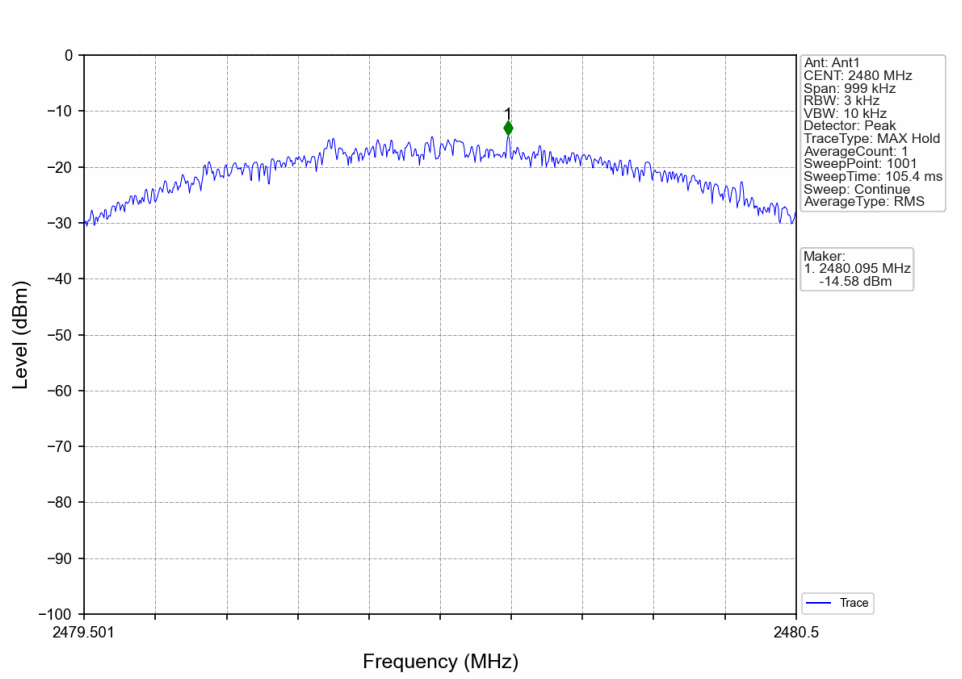
1M_LCH_2402MHz_Ant1_NTNV



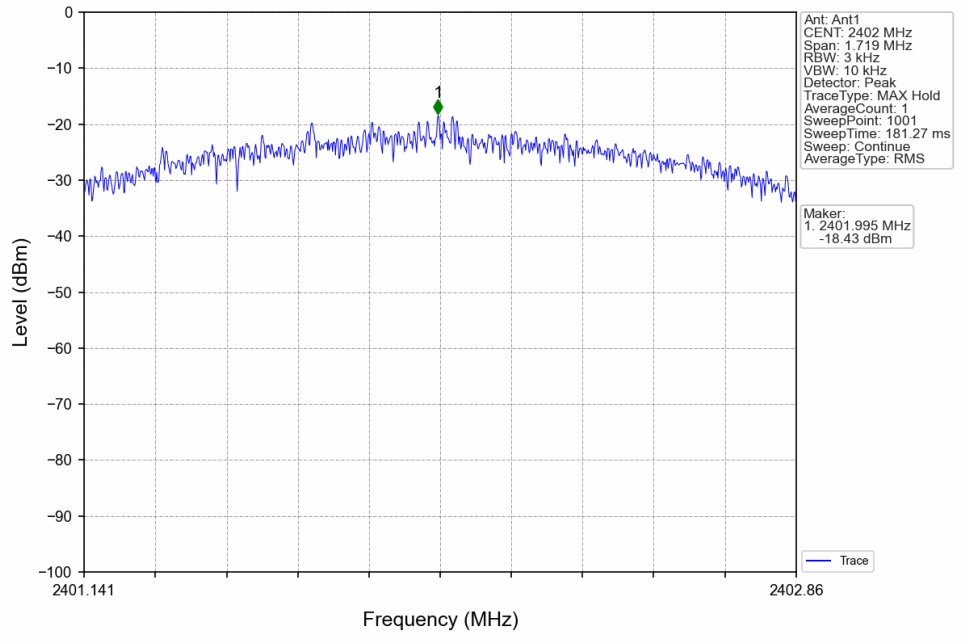

1M_MCH_2440MHz_Ant1_NTNV



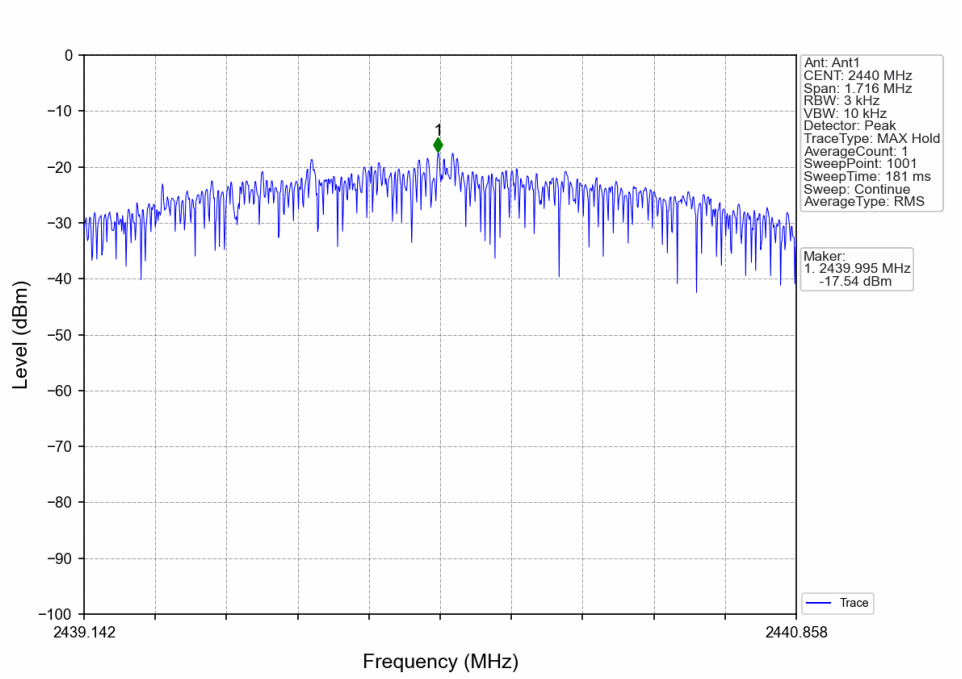
1M_HCH_2480MHz_Ant1_NTNV



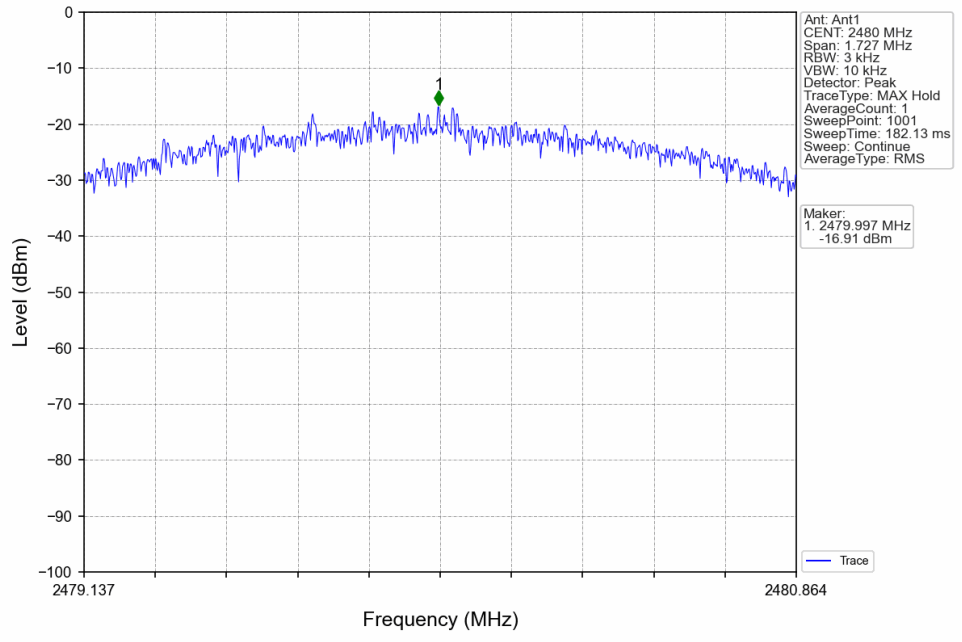

2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV




2M_HCH_2480MHz_Ant1_NTNV



# 4. Unwanted Emissions In Non-restricted Frequency Bands

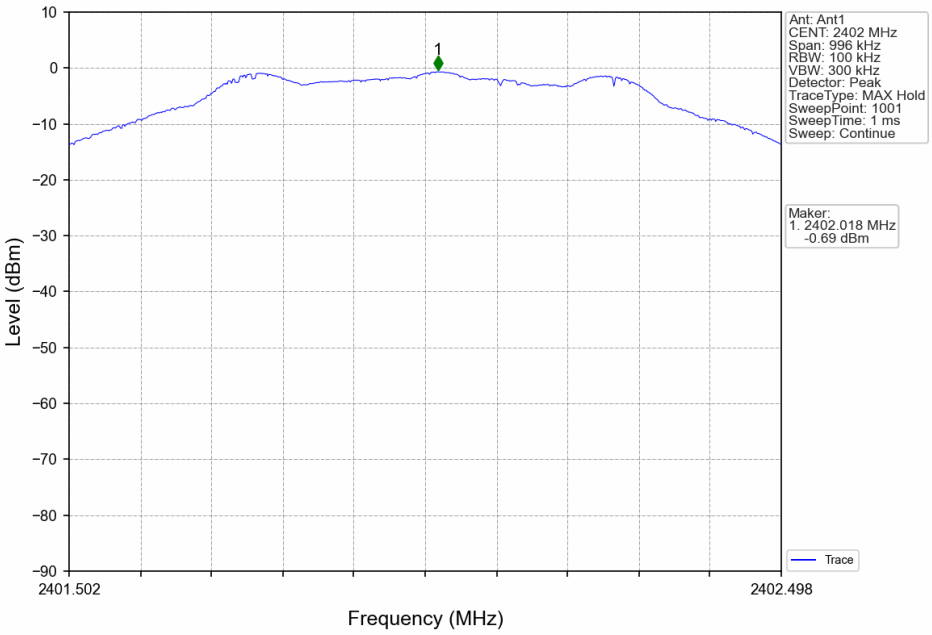
## 4.1 Ref

### 4.1.1 Test Result

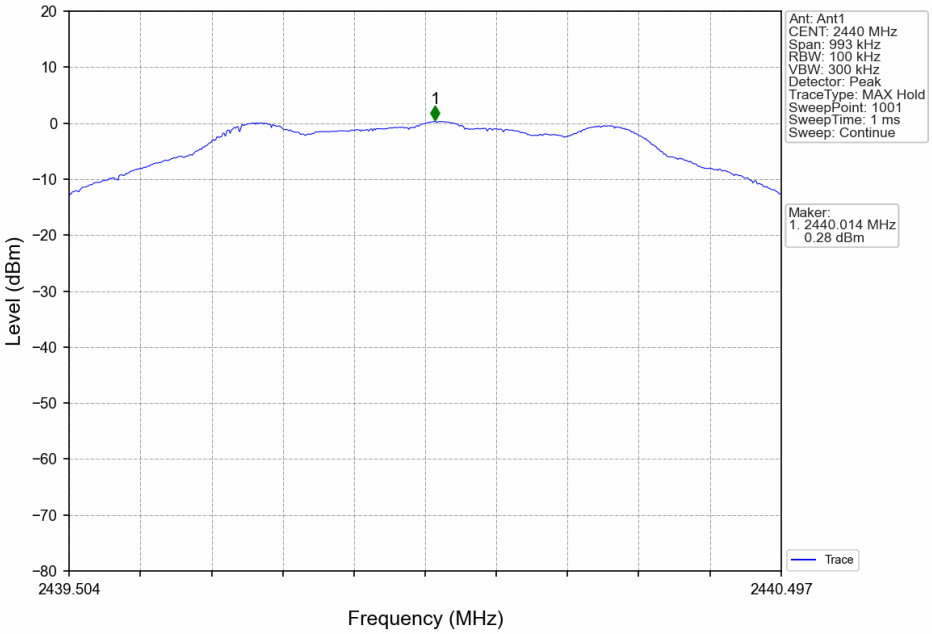
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|---|---|---|---|---|
| 1M | SISO | 2402 | 1 | -0.69 |
| | | 2440 | 1 | 0.28 |
| | | 2480 | 1 | 0.76 |
| 2M | SISO | 2402 | 1 | -0.68 |
| | | 2440 | 1 | 0.33 |
| | | 2480 | 1 | 0.83 |
| Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level. | | | | |

## 4.1.2 Test Graph

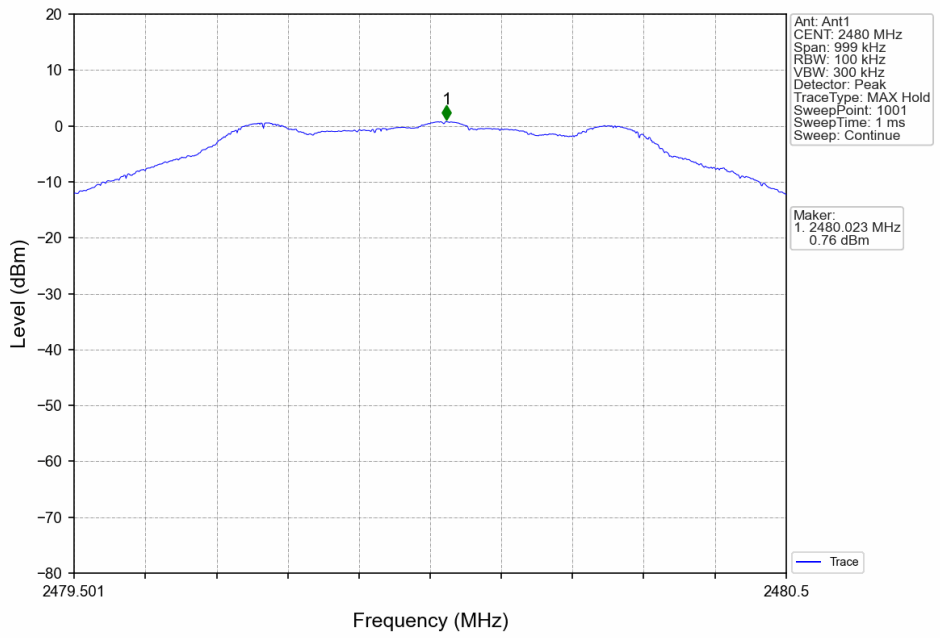
1M_LCH_2402MHz_Ant1_NTNV



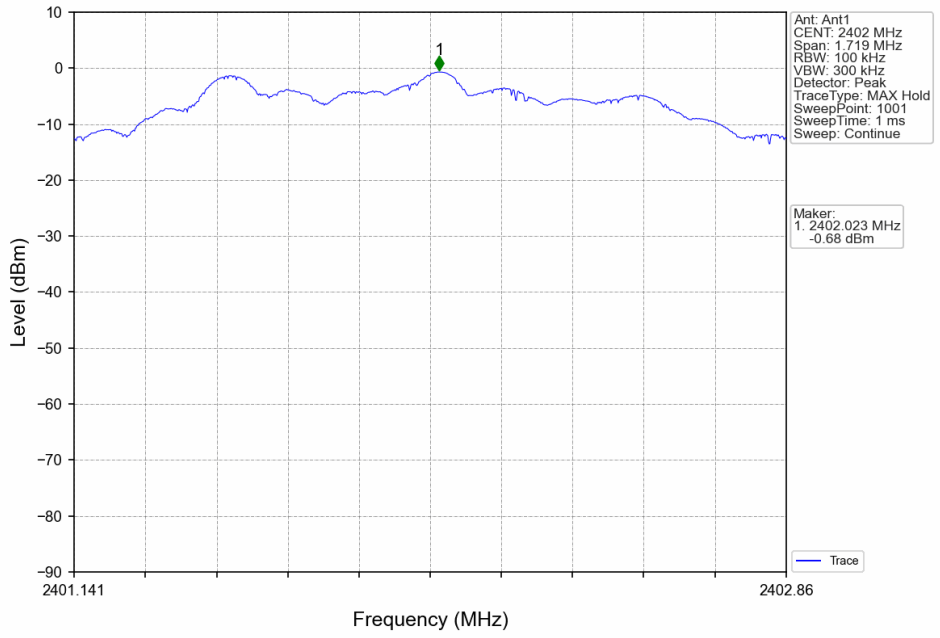

1M_MCH_2440MHz_Ant1_NTNV



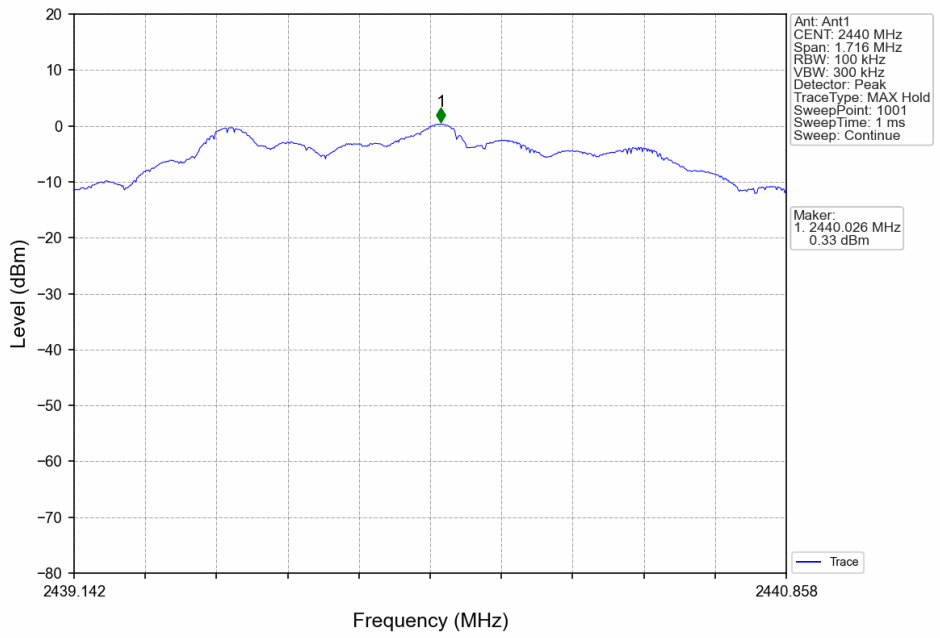
1M_HCH_2480MHz_Ant1_NTNV



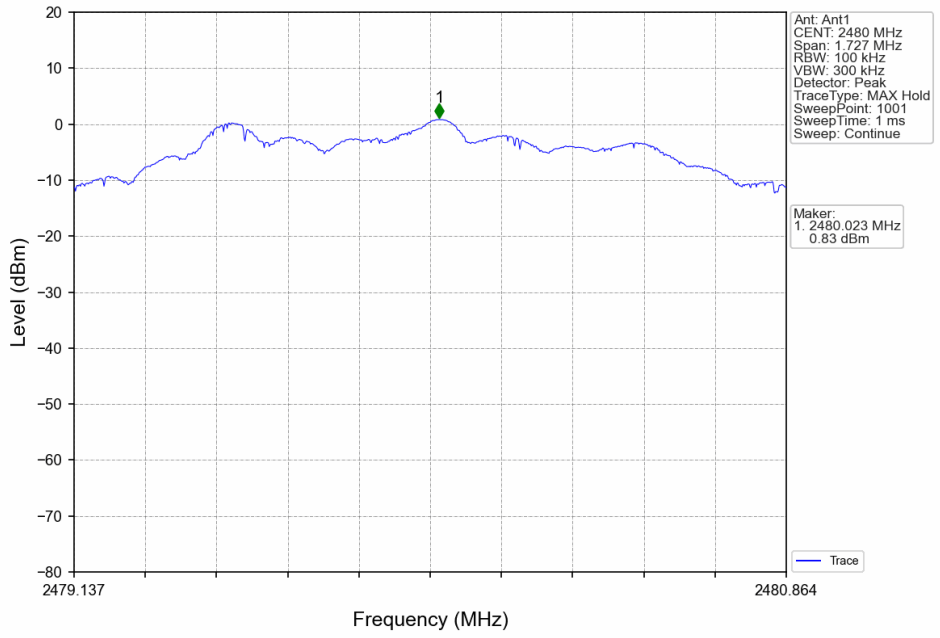

2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV




2M_HCH_2480MHz_Ant1_NTNV



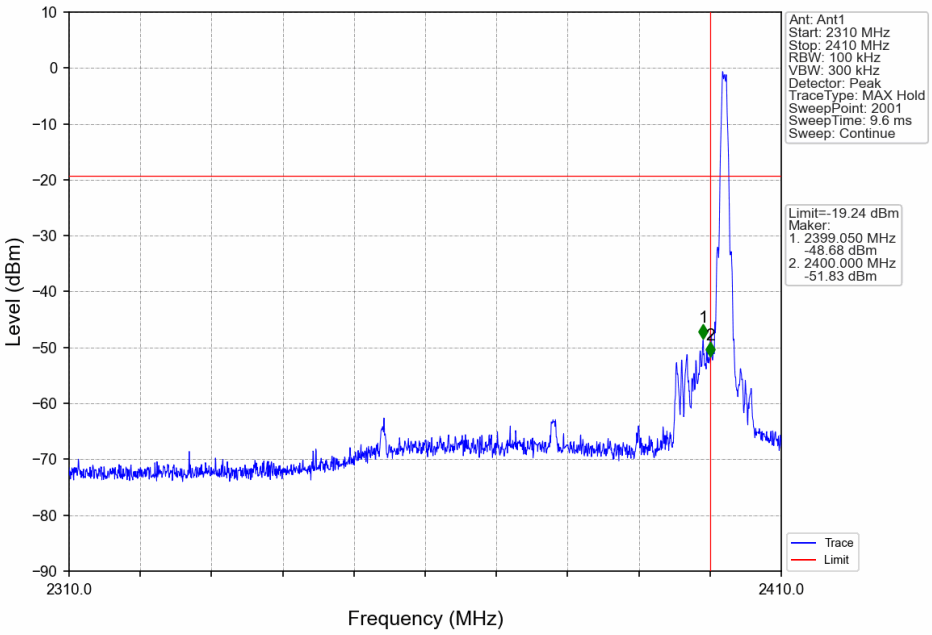
## 4.2 CSE

### 4.2.1 Test Result

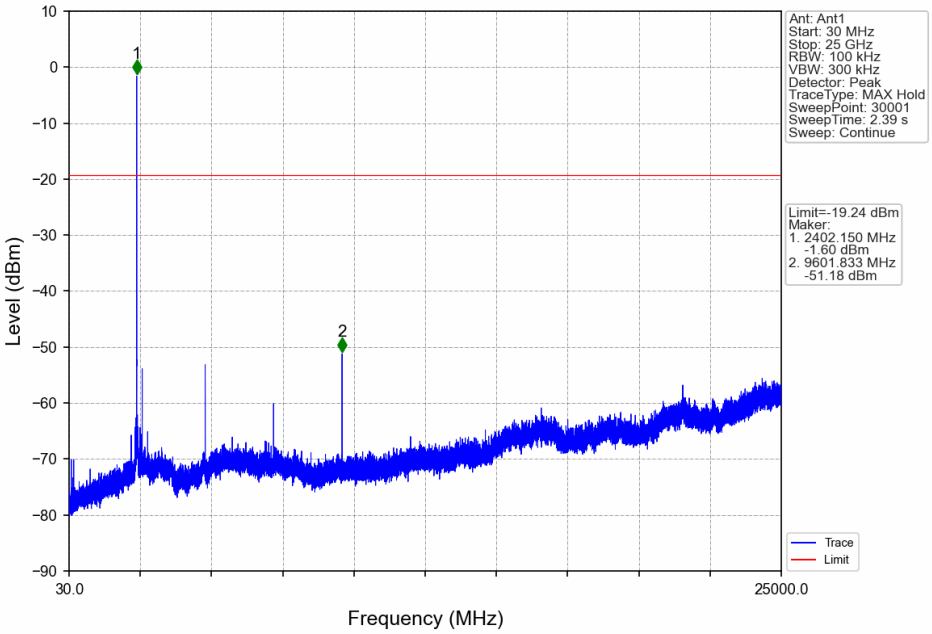
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| 1M | SISO | 2402 | 1 | 0.76 | -19.24 | Pass |
| | | 2440 | 1 | 0.76 | -19.24 | Pass |
| | | 2480 | 1 | 0.76 | -19.24 | Pass |
| 2M | SISO | 2402 | 1 | 0.83 | -19.17 | Pass |
| | | 2440 | 1 | 0.83 | -19.17 | Pass |
| | | 2480 | 1 | 0.83 | -19.17 | 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. | | | | | | |

## 4.2.2 Test Graph

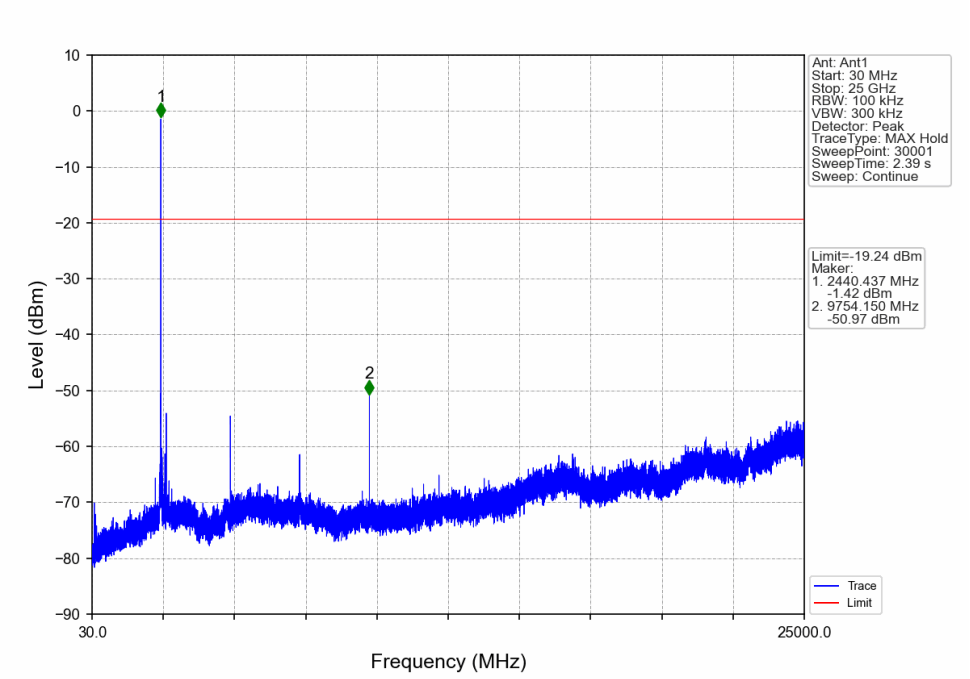
1M_LCH_2402MHz_Ant1_NTNV



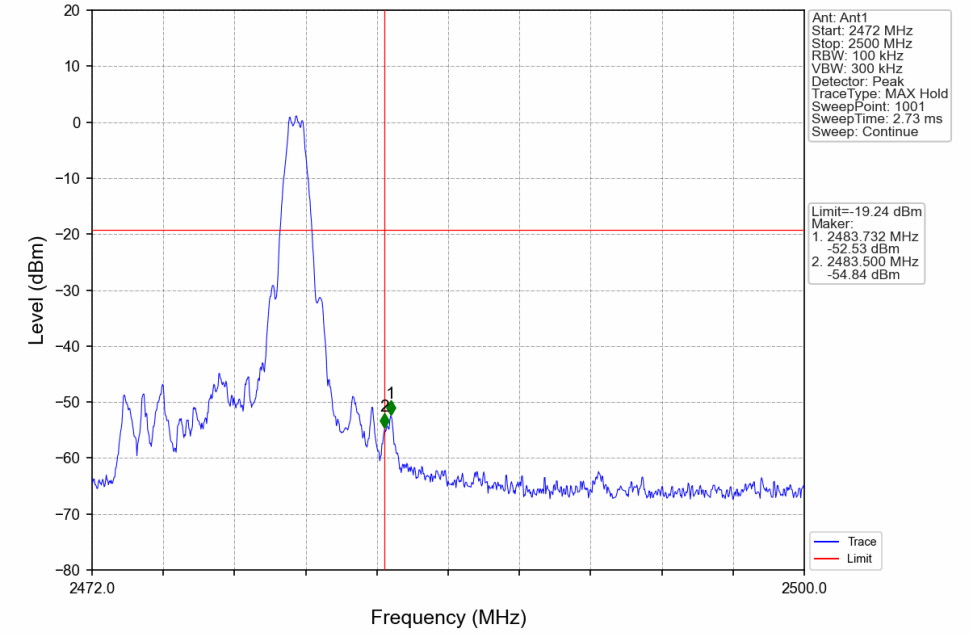

1M_LCH_2402MHz_Ant1_NTNV



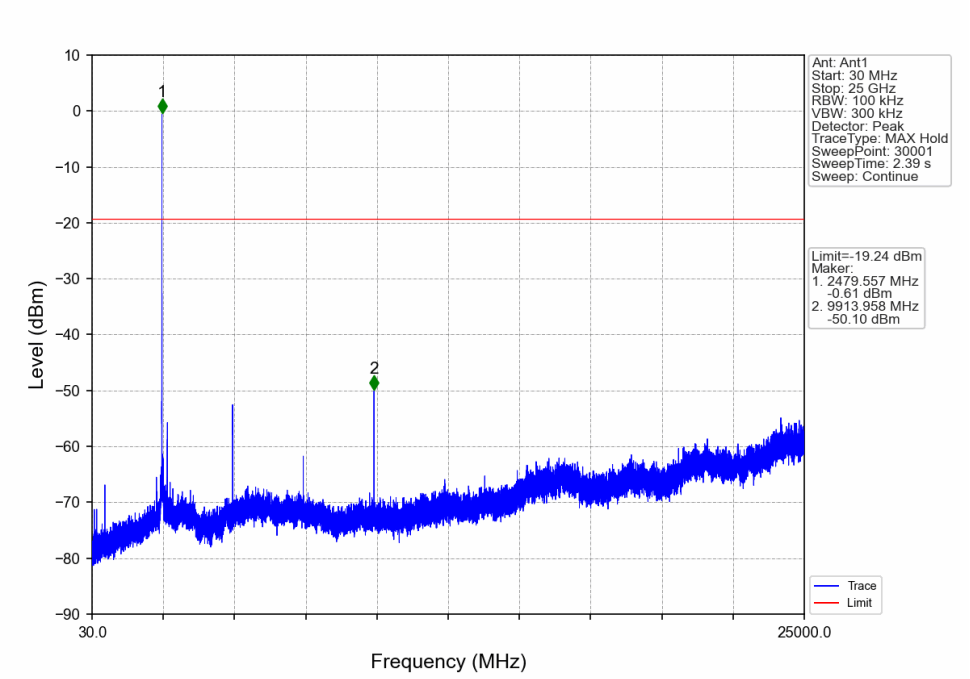
1M_MCH_2440MHz_Ant1_NTNV



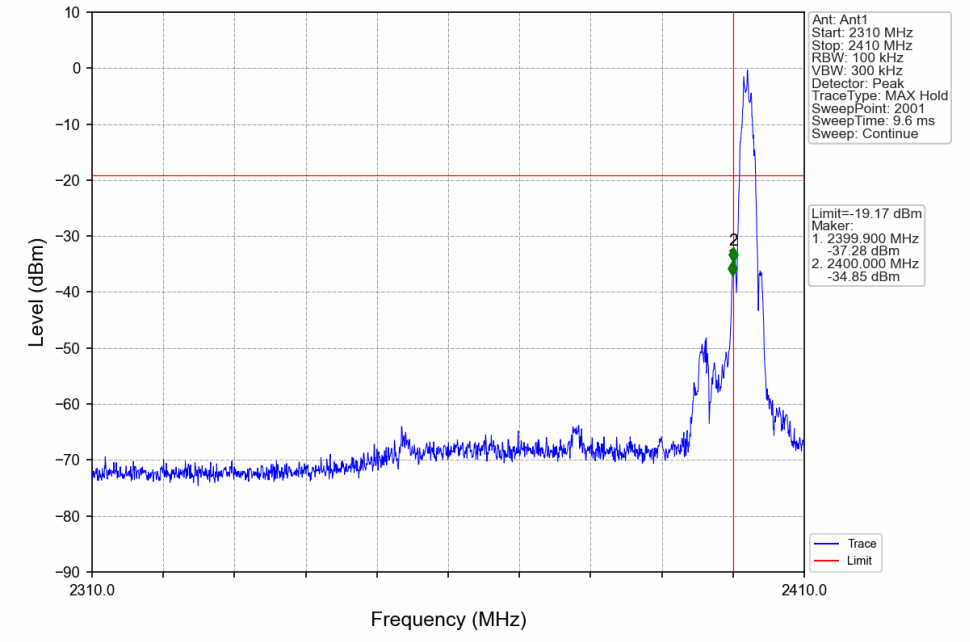

1M_HCH_2480MHz_Ant1_NTNV



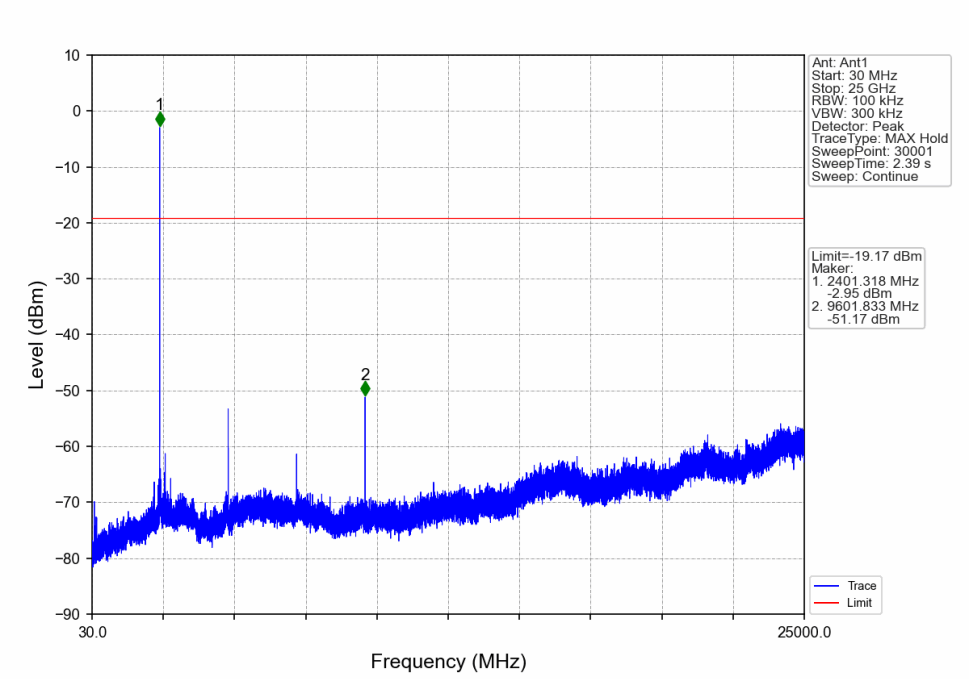
1M_HCH_2480MHz_Ant1_NTNV



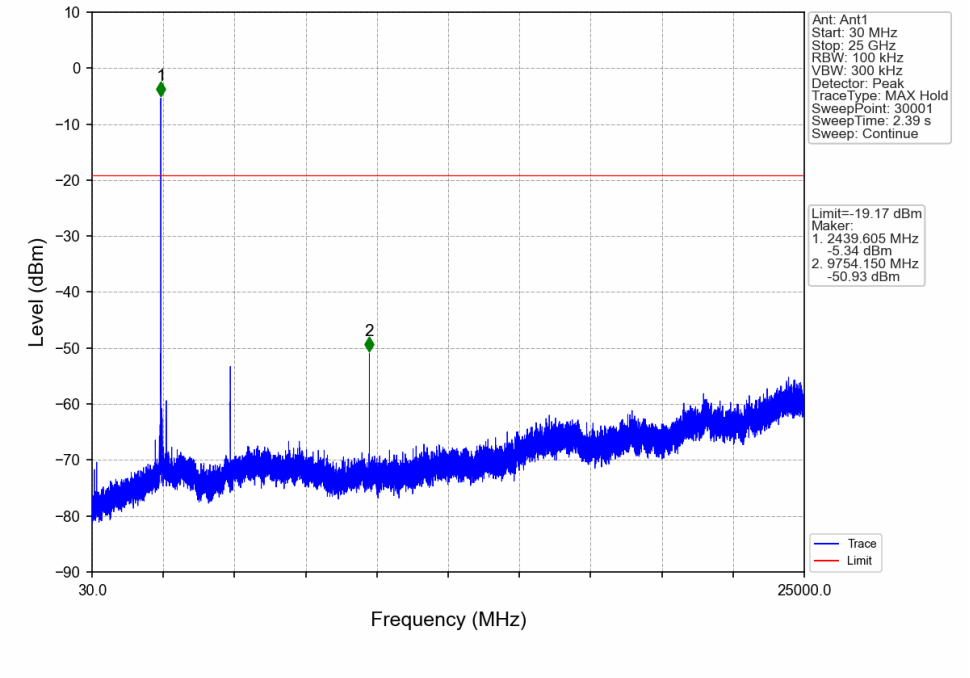

2M_LCH_2402MHz_Ant1_NTNV



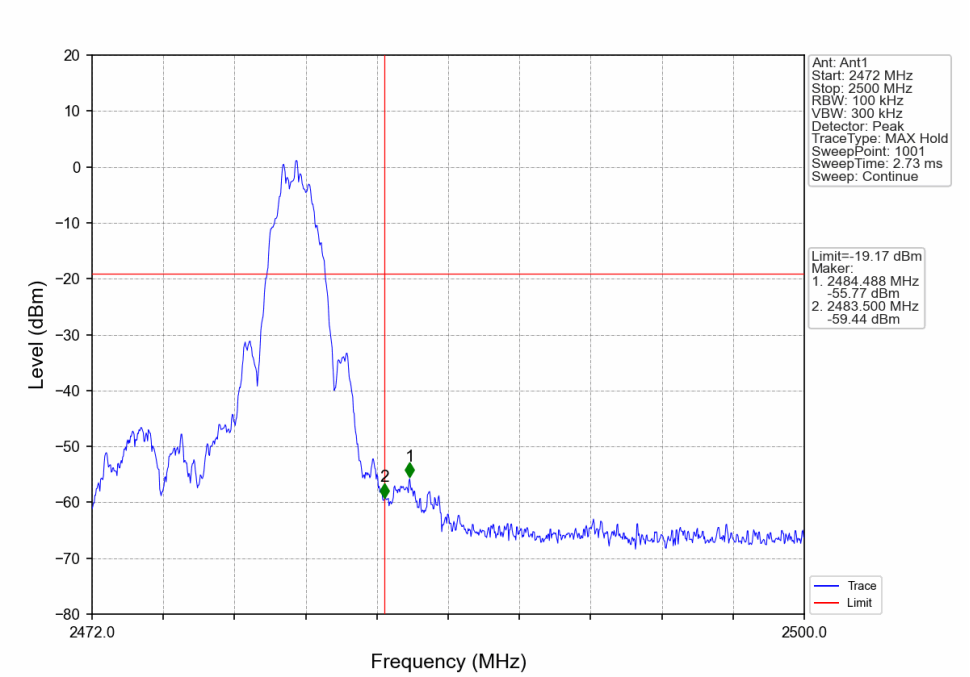
2M_LCH_2402MHz_Ant1_NTNV




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV




2M_HCH_2480MHz_Ant1_NTNV