

1. Duty Cycle

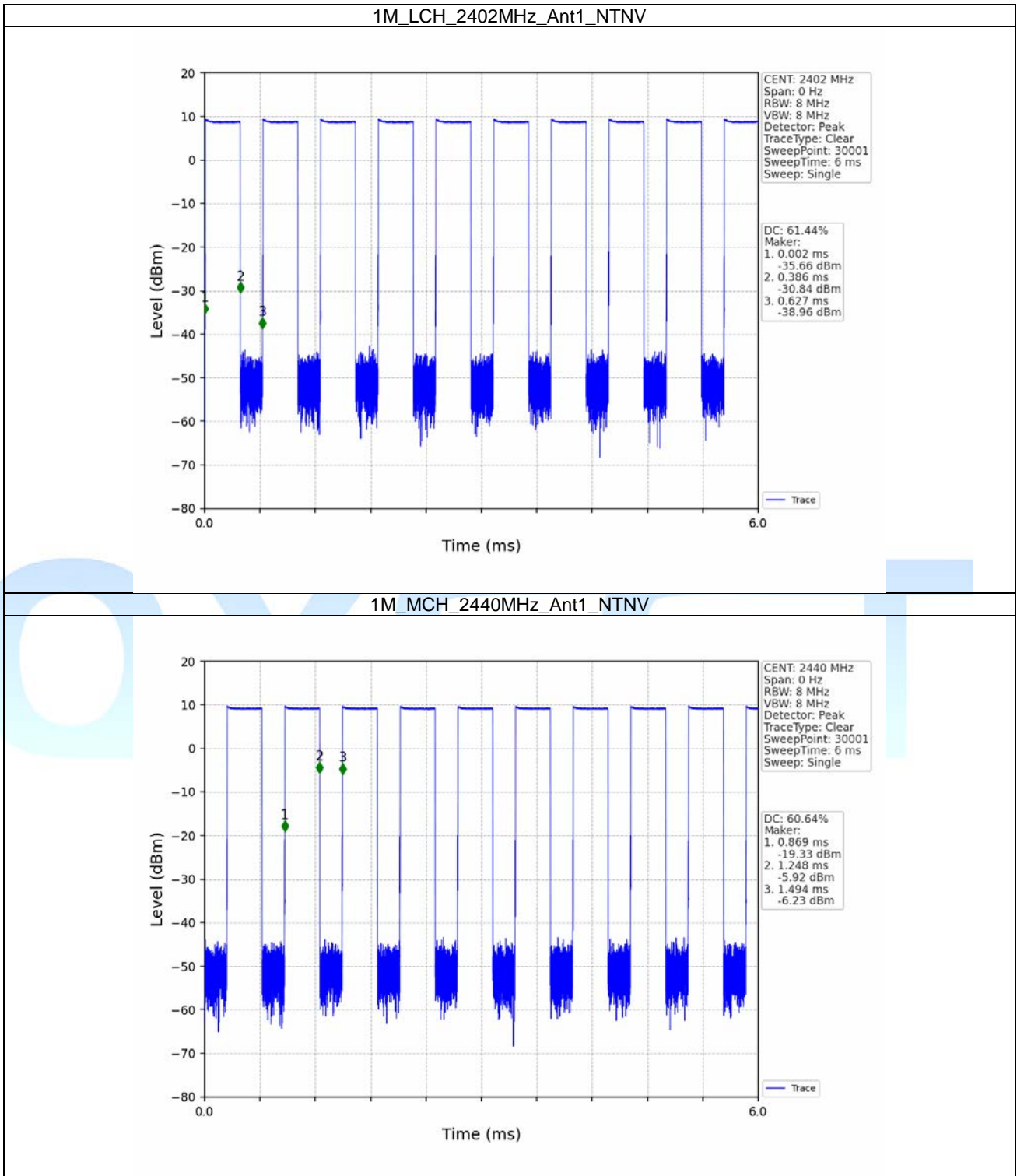
1.1 Test Result

1.1.1 Ant1

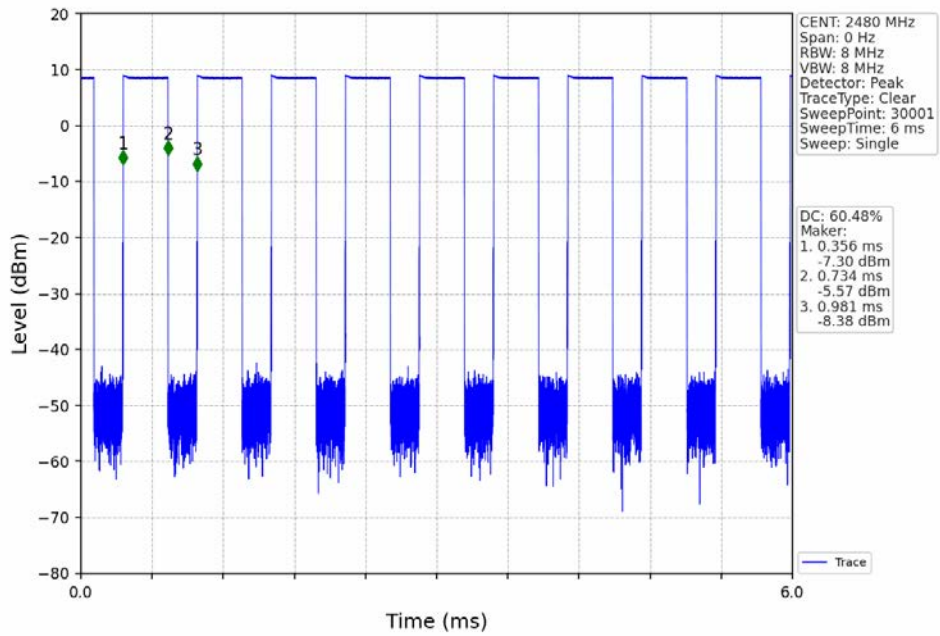
| Ant1 | | | | | | | |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 1M | SISO | 2402 | 0.384 | 0.625 | 61.44 | 2.12 | 0.03 |
| | | 2440 | 0.379 | 0.625 | 60.64 | 2.17 | 0.02 |
| | | 2480 | 0.378 | 0.625 | 60.48 | 2.18 | 0.03 |
| 2M | SISO | 2402 | 0.384 | 0.625 | 61.44 | 2.12 | 0.03 |
| | | 2440 | 0.385 | 0.625 | 61.60 | 2.10 | 0.00 |
| | | 2480 | 0.379 | 0.625 | 60.64 | 2.17 | 0.00 |

1.2 Test Graph

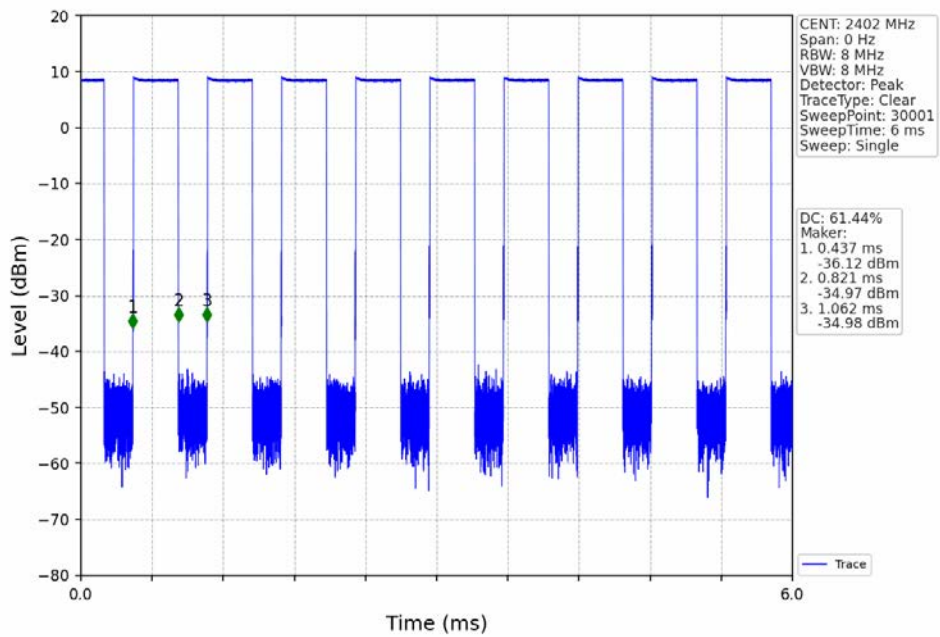
1.2.1 Ant1



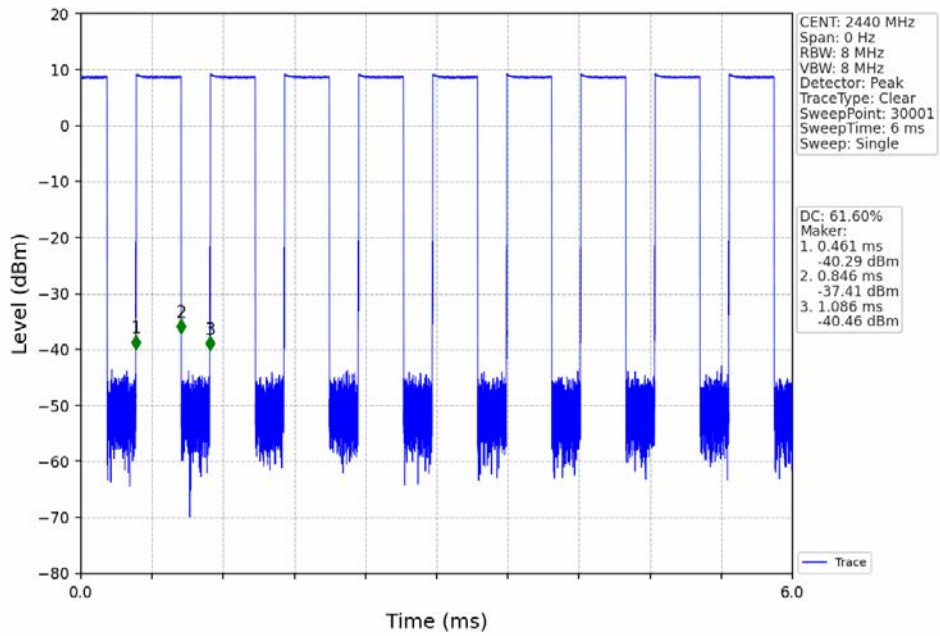
1M_HCH_2480MHz_Ant1_NTNV



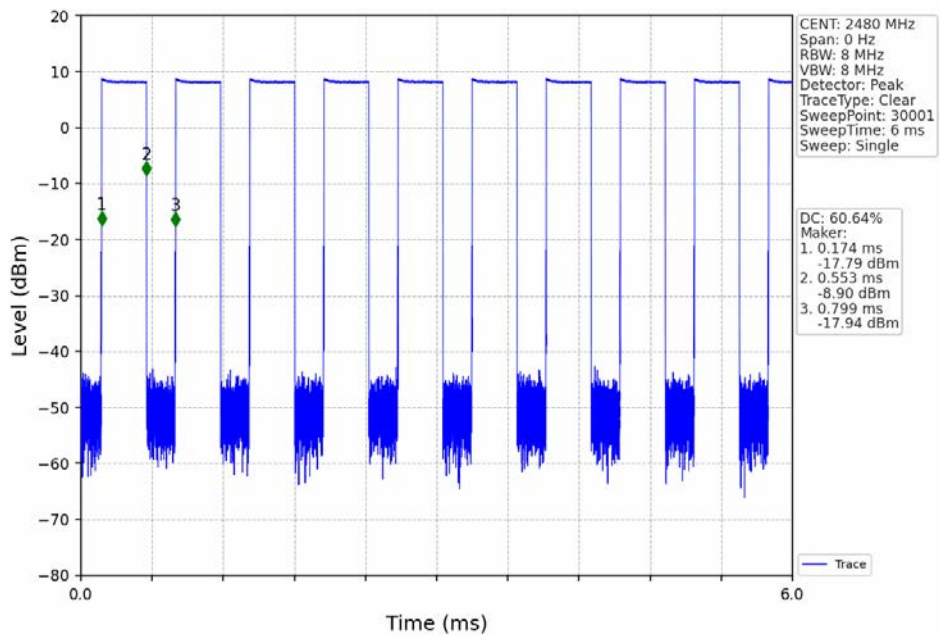
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

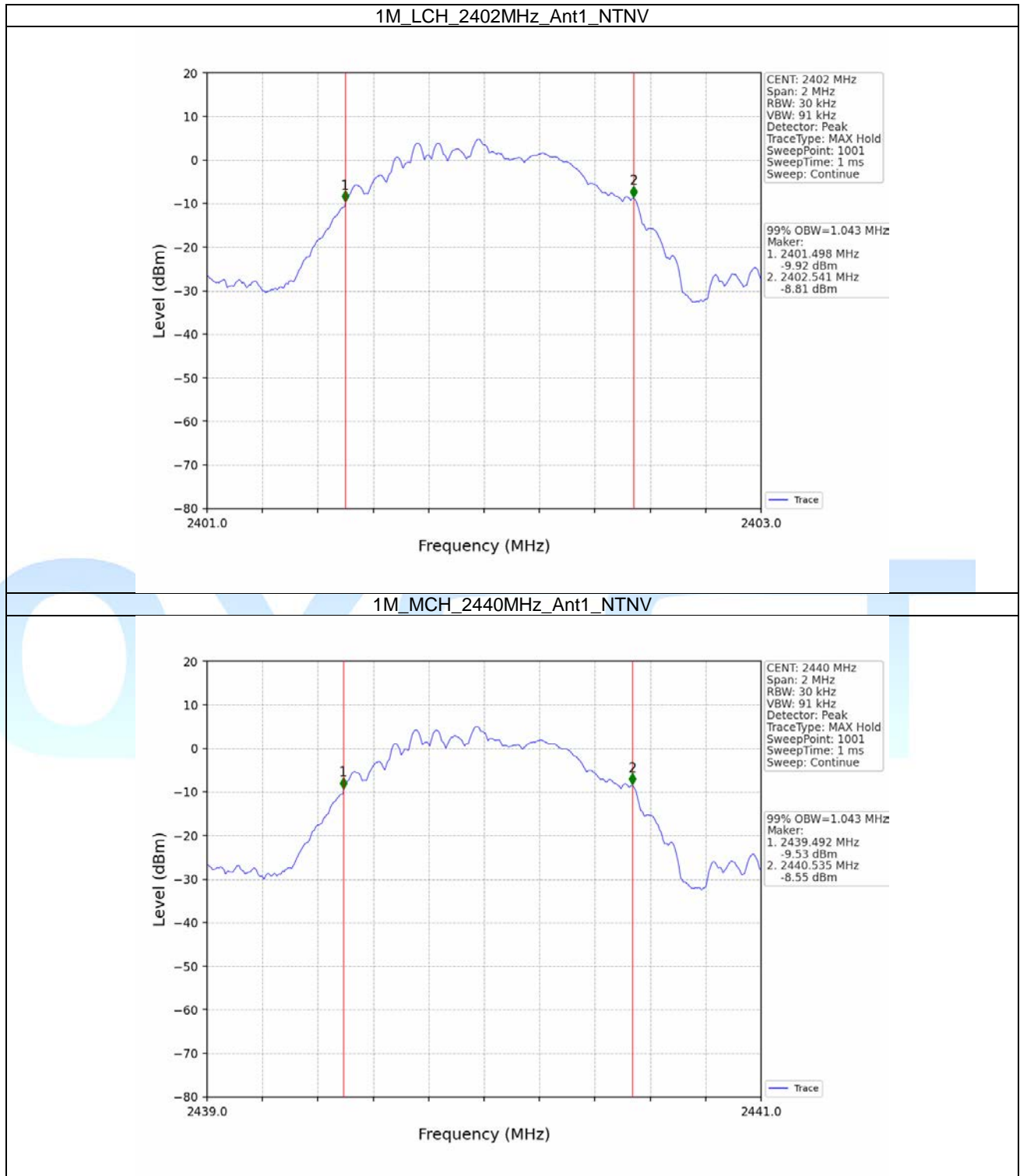
| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | | Verdict |
|------|---------|-----------------|-----|------------------------------|-------|---------|
| | | | | Result | Limit | |
| 1M | SISO | 2402 | 1 | 1.043 | / | Pass |
| | | 2440 | 1 | 1.043 | / | Pass |
| | | 2480 | 1 | 1.044 | / | Pass |
| 2M | SISO | 2402 | 1 | 2.098 | / | Pass |
| | | 2440 | 1 | 2.098 | / | Pass |
| | | 2480 | 1 | 2.098 | / | Pass |

2.1.2 6dB BW

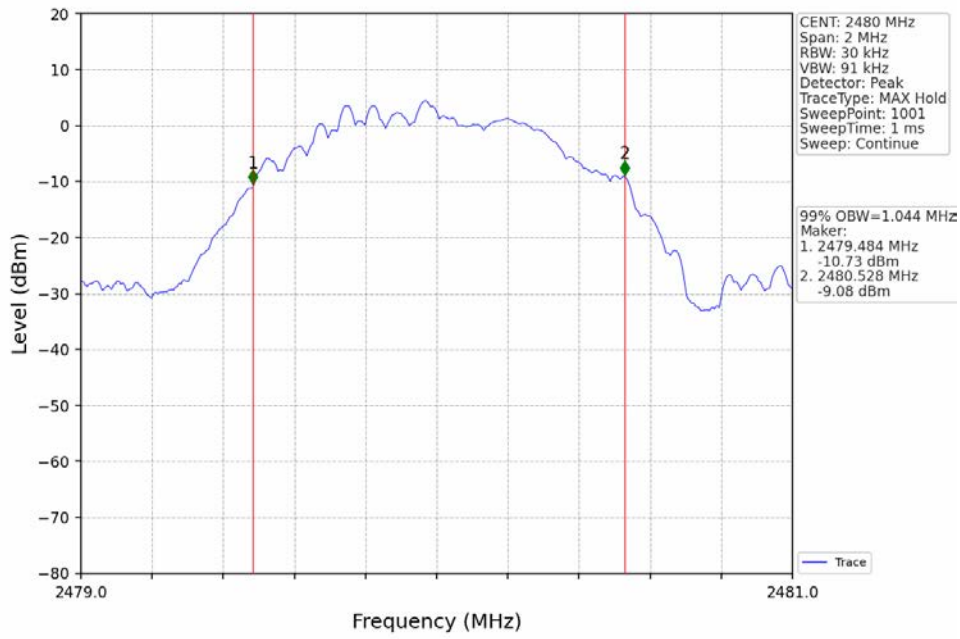
| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
| | | | | Result | Limit | |
| 1M | SISO | 2402 | 1 | 0.700 | ≥ 0.5 | Pass |
| | | 2440 | 1 | 0.700 | ≥ 0.5 | Pass |
| | | 2480 | 1 | 0.701 | ≥ 0.5 | Pass |
| 2M | SISO | 2402 | 1 | 1.269 | ≥ 0.5 | Pass |
| | | 2440 | 1 | 1.275 | ≥ 0.5 | Pass |
| | | 2480 | 1 | 1.275 | ≥ 0.5 | Pass |

2.2 Test Graph

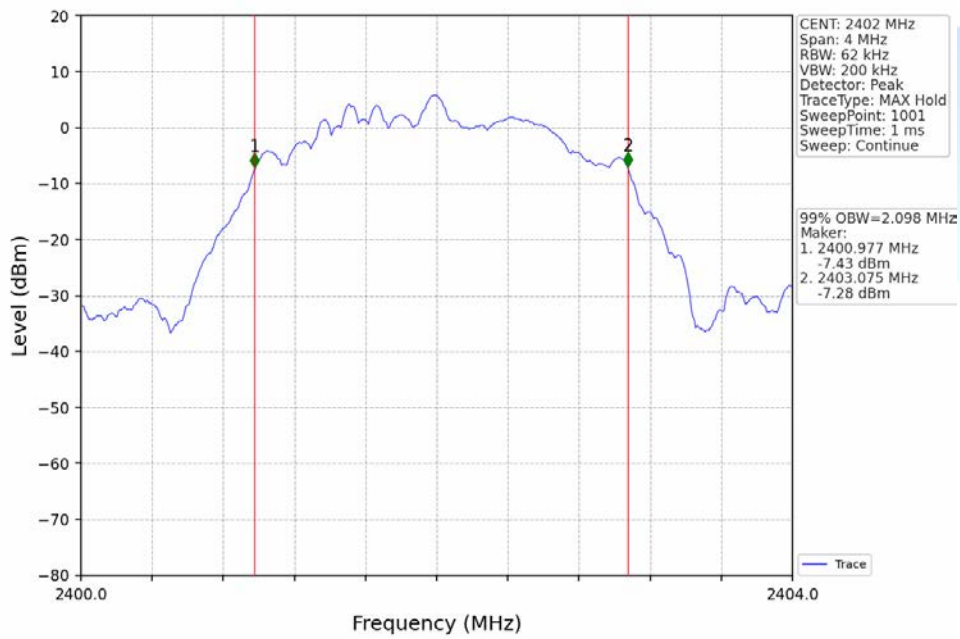
2.2.1 OBW

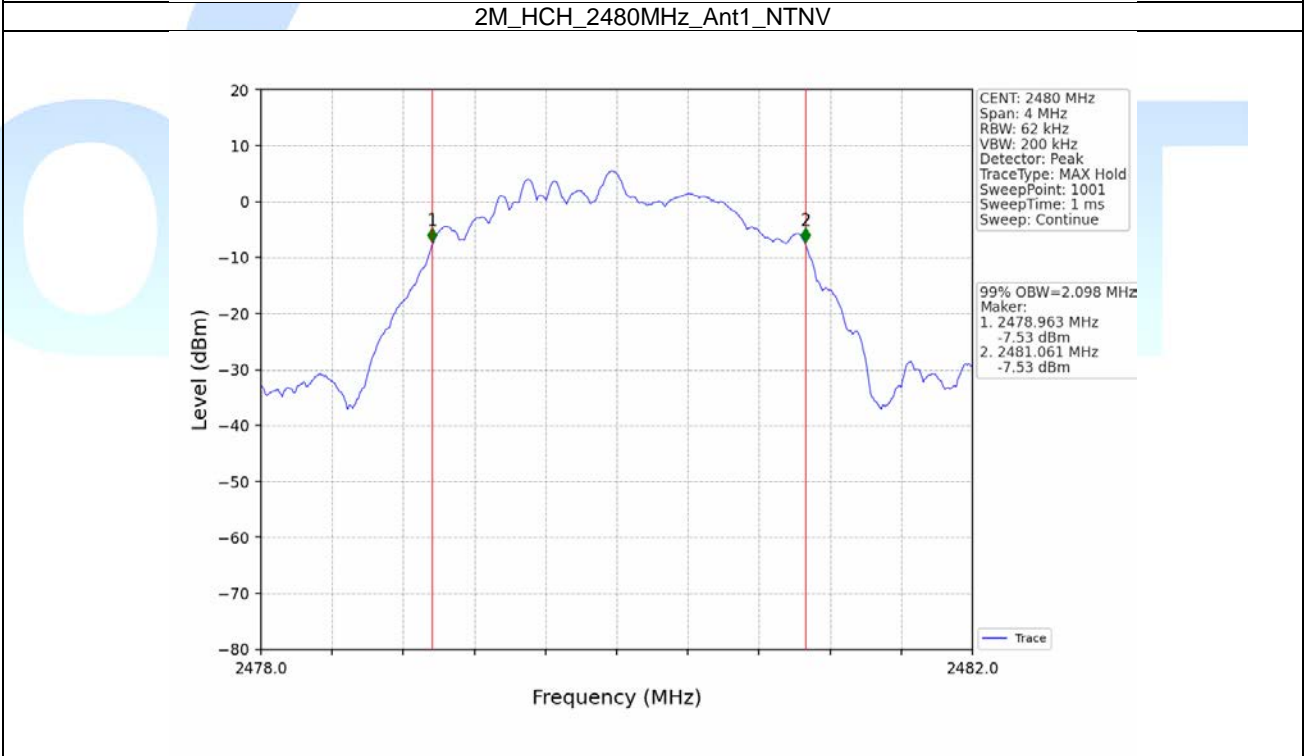
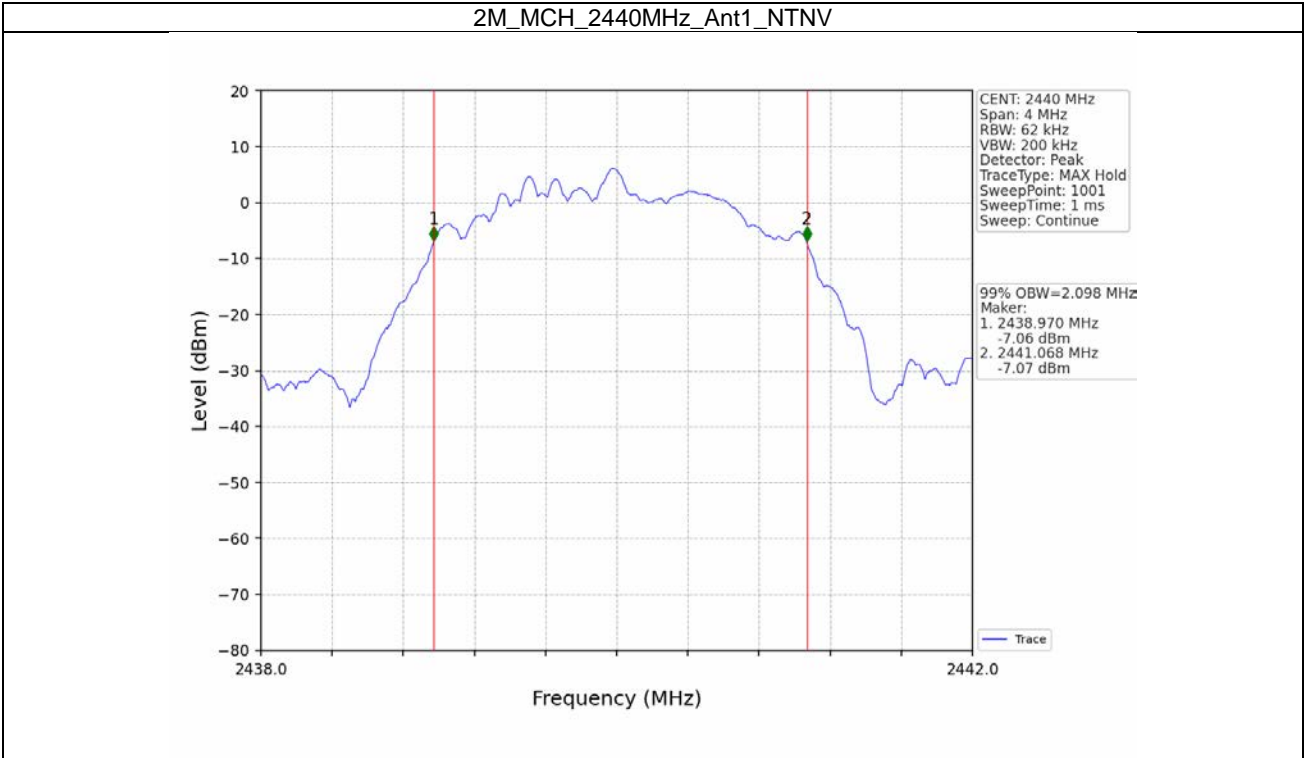


1M_HCH_2480MHz_Ant1_NTNV

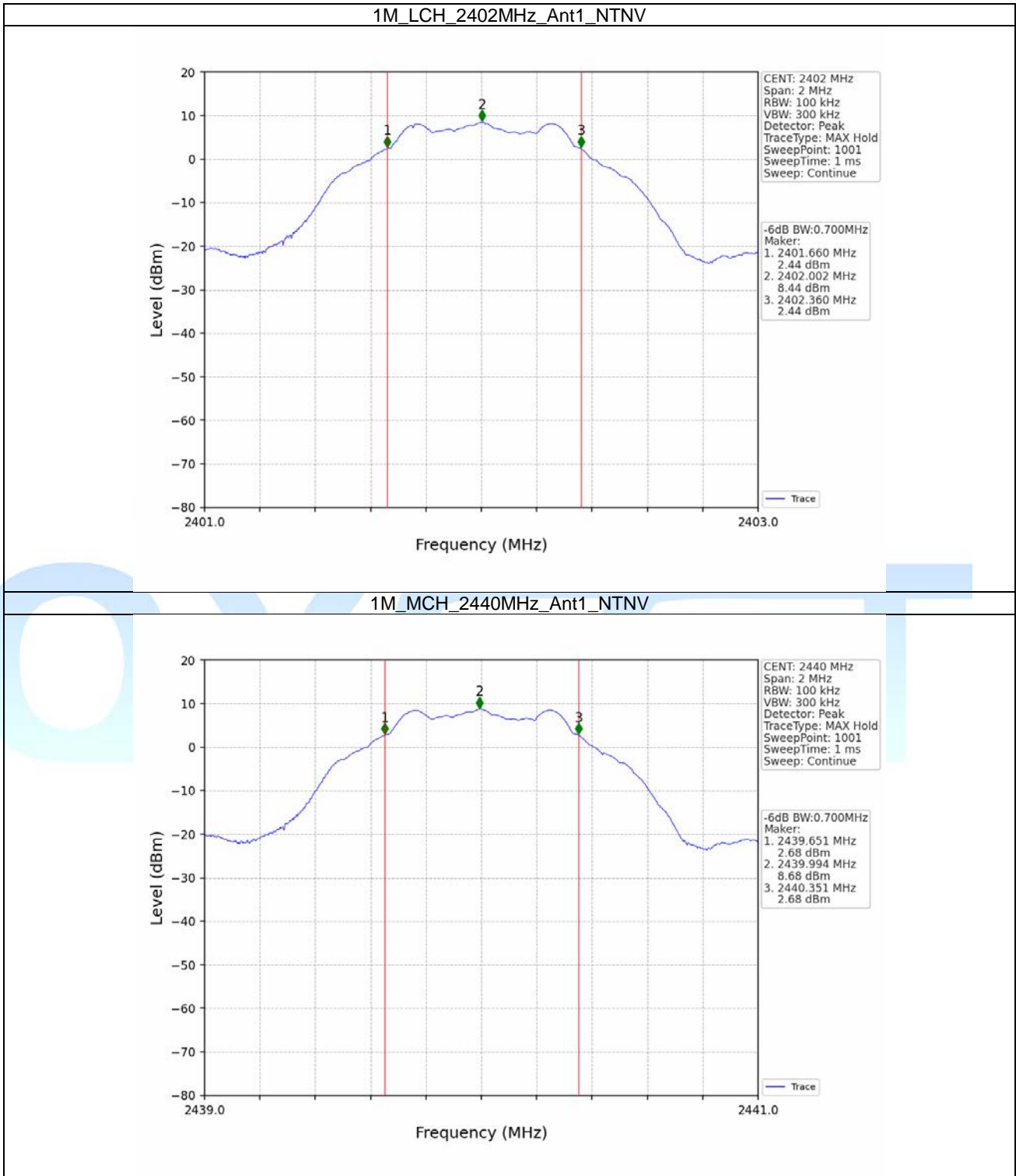


2M_LCH_2402MHz_Ant1_NTNV

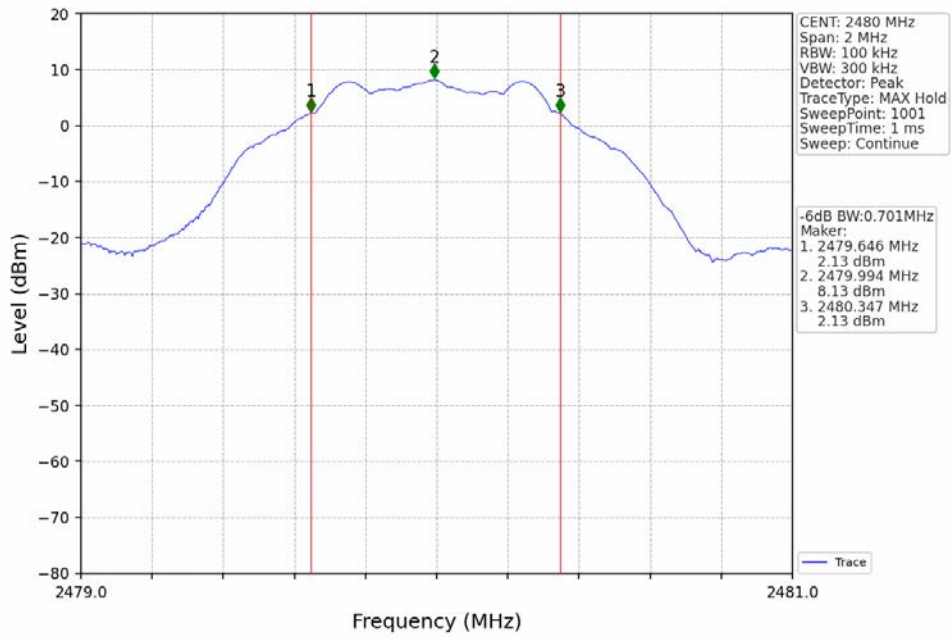




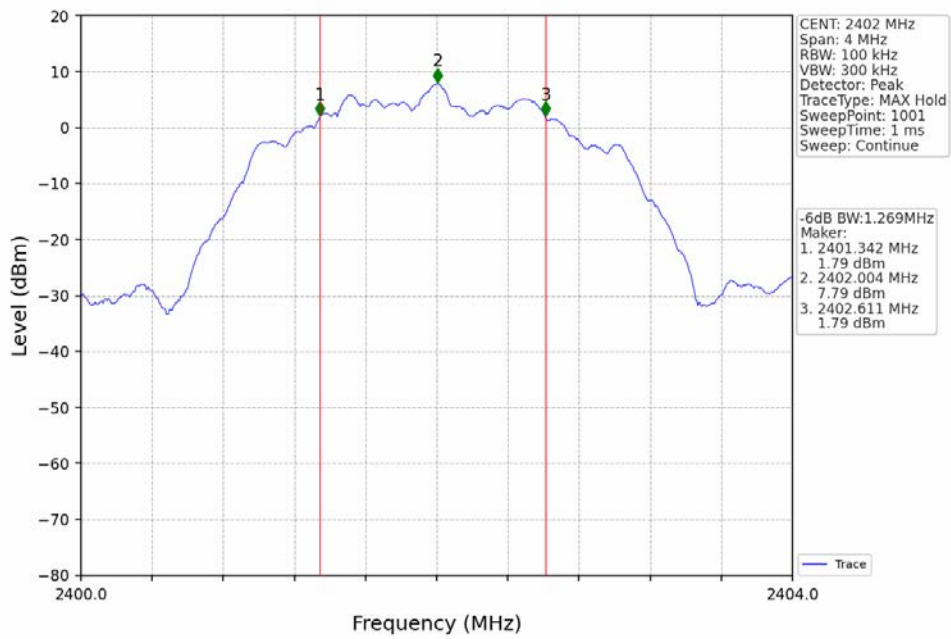
2.2.2 6dB BW



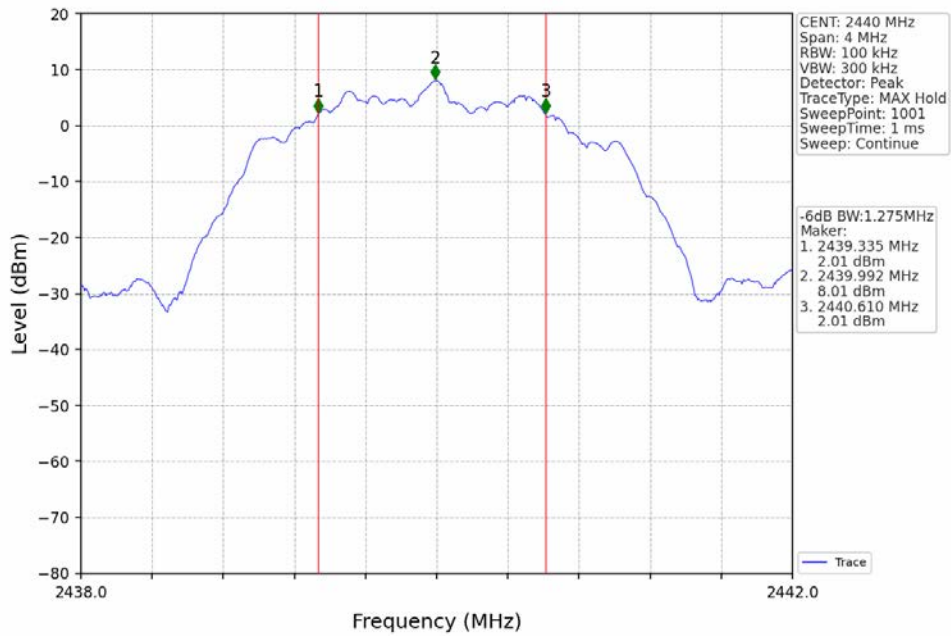
1M_HCH_2480MHz_Ant1_NTNV



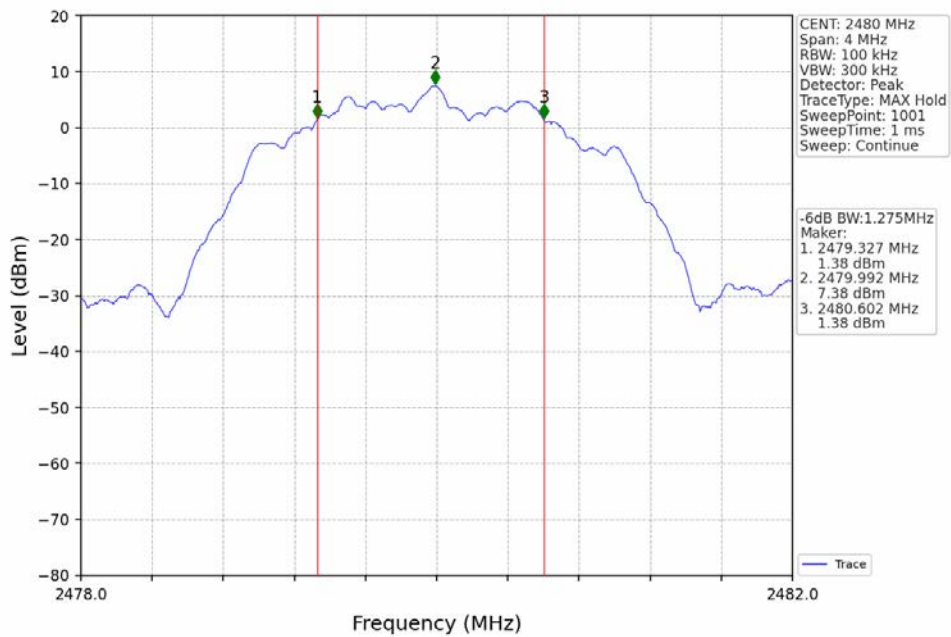
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

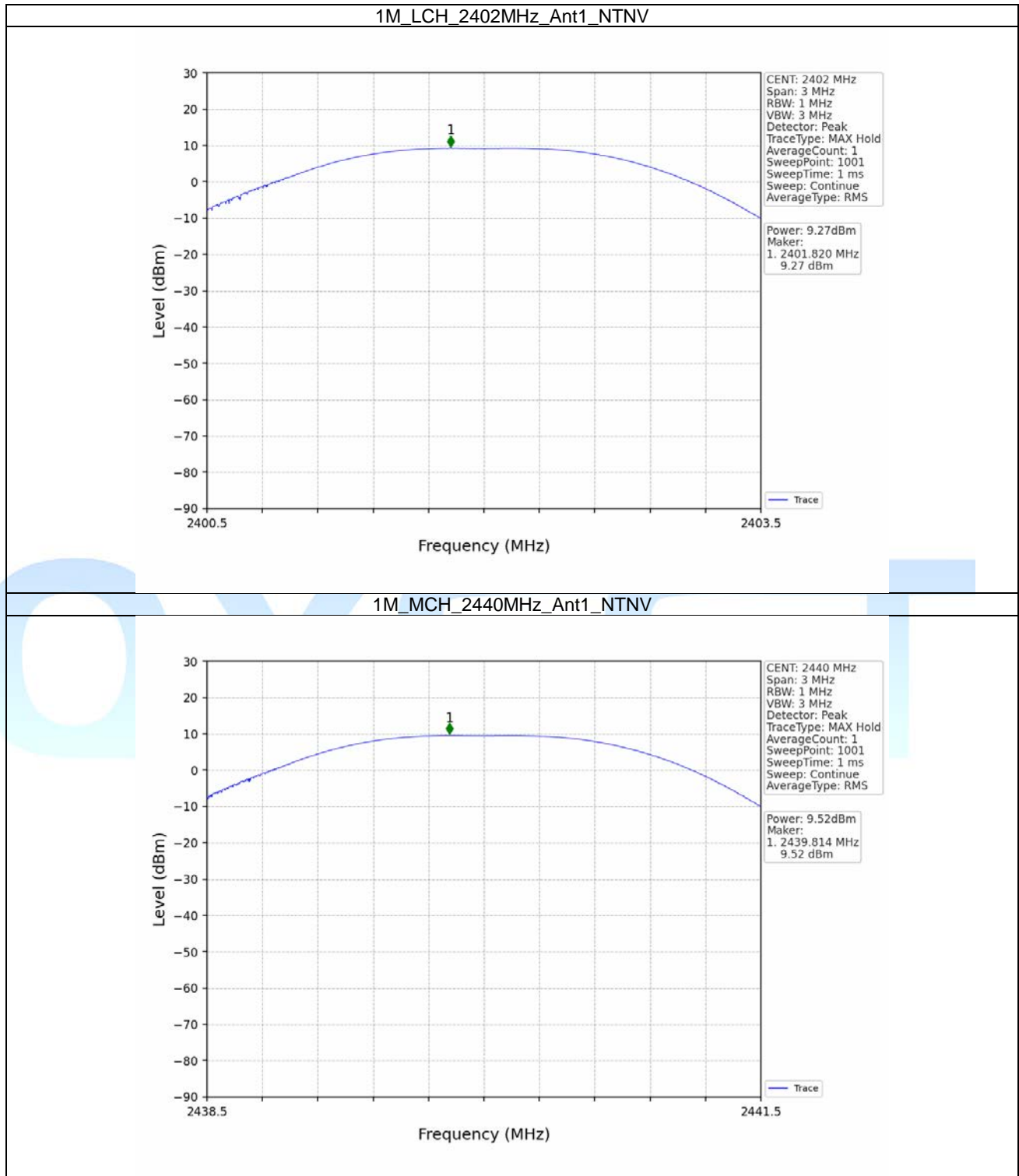
3.1.1 Power

| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) | | Verdict |
|------|---------|-----------------|---|-----------|---------|
| | | | ANT1 | Limit | |
| 1M | SISO | 2402 | 9.27 | ≤ 30 | Pass |
| | | 2440 | 9.52 | ≤ 30 | Pass |
| | | 2480 | 8.95 | ≤ 30 | Pass |
| 2M | SISO | 2402 | 9.61 | ≤ 30 | Pass |
| | | 2440 | 9.77 | ≤ 30 | Pass |
| | | 2480 | 9.19 | ≤ 30 | Pass |

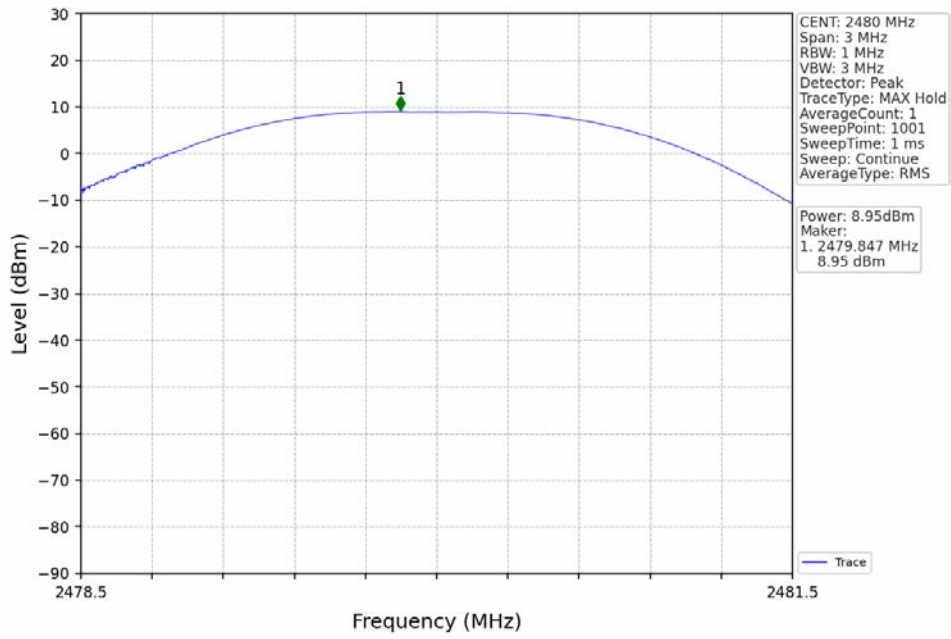
Note1: Antenna Gain: Ant1: 2.96dBi;

3.2 Test Graph

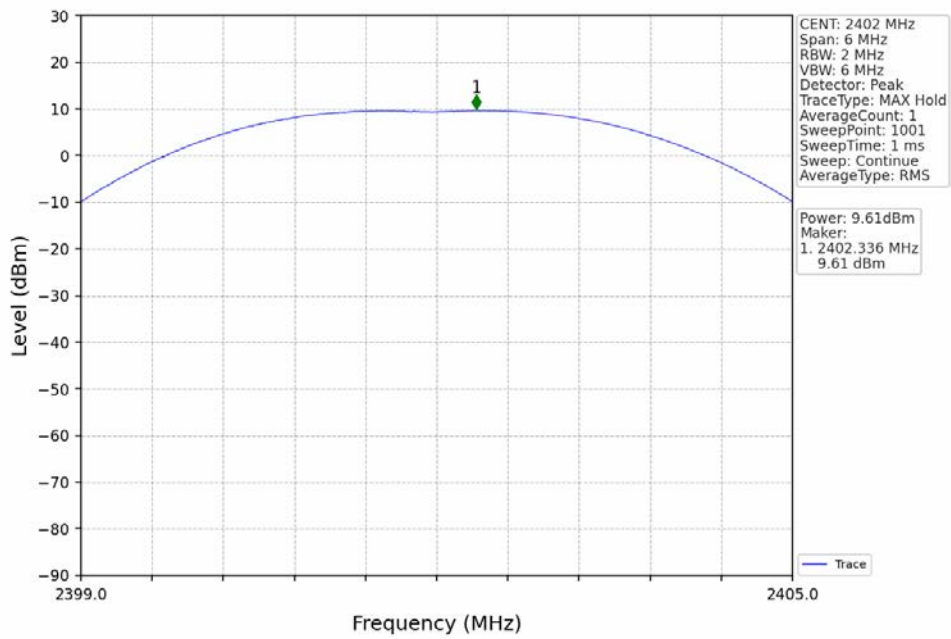
3.2.1 Power



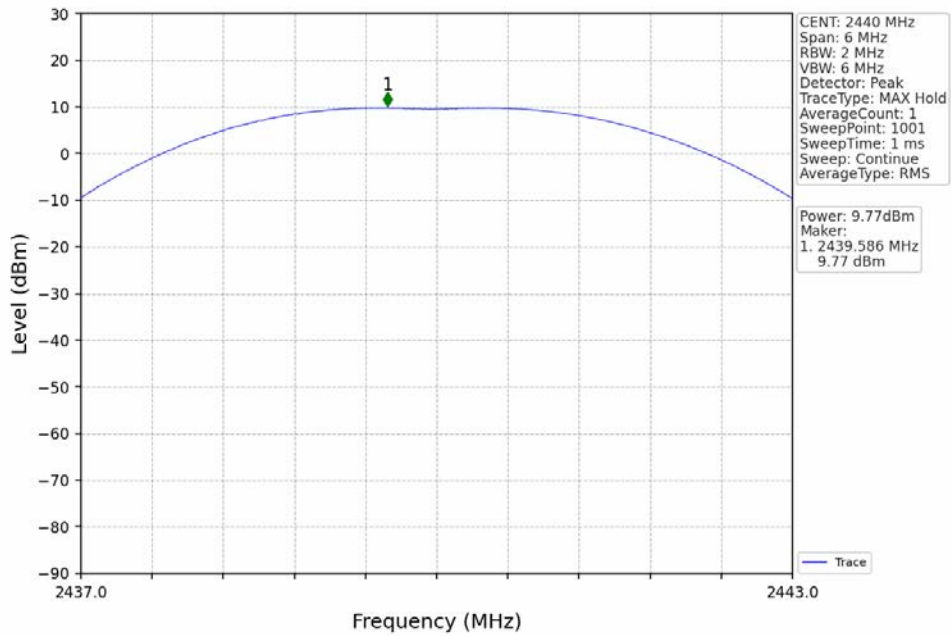
1M_HCH_2480MHz_Ant1_NTNV



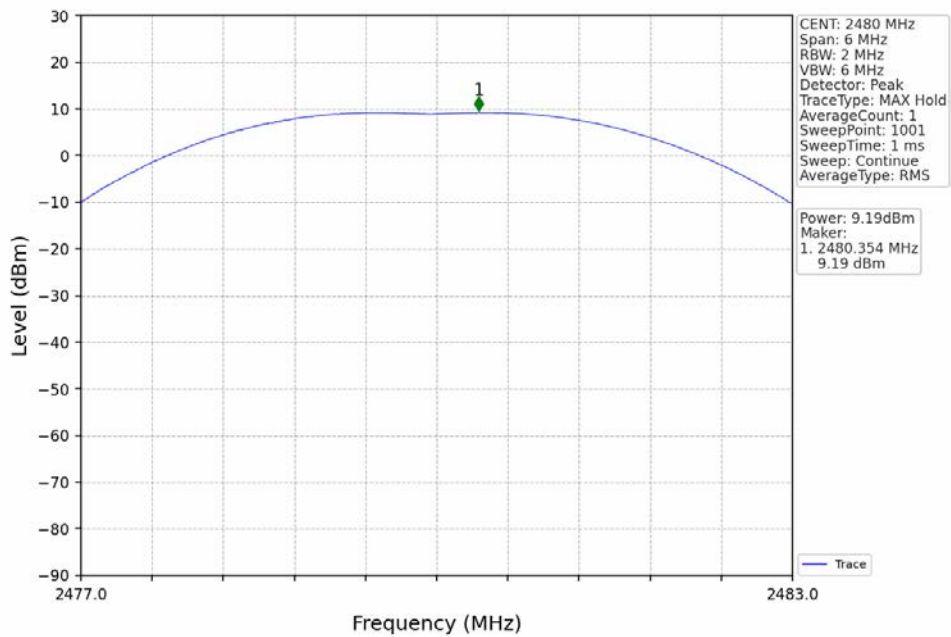
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



4. Maximum Power Spectral Density

4.1 Test Result

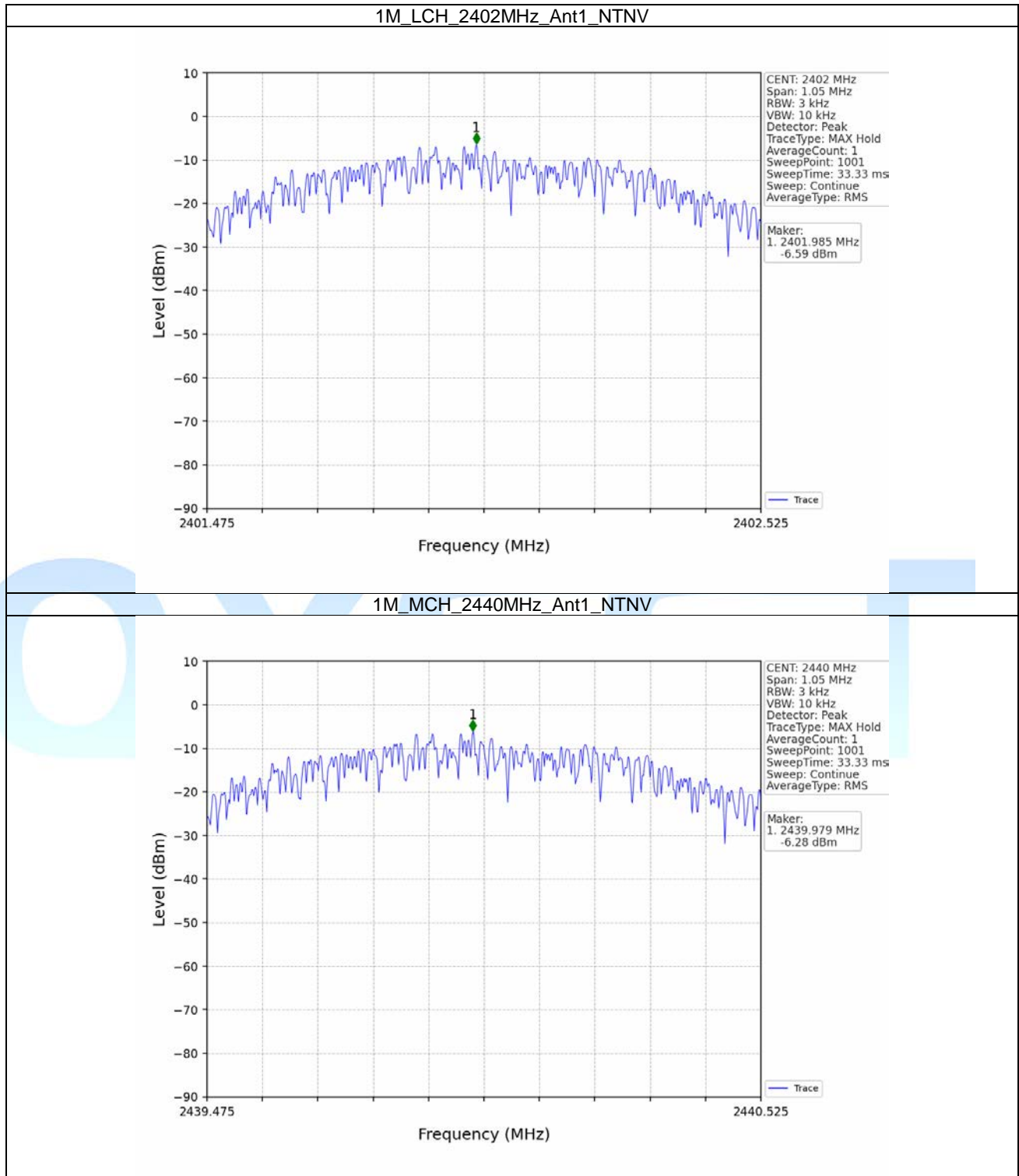
4.1.1 PSD

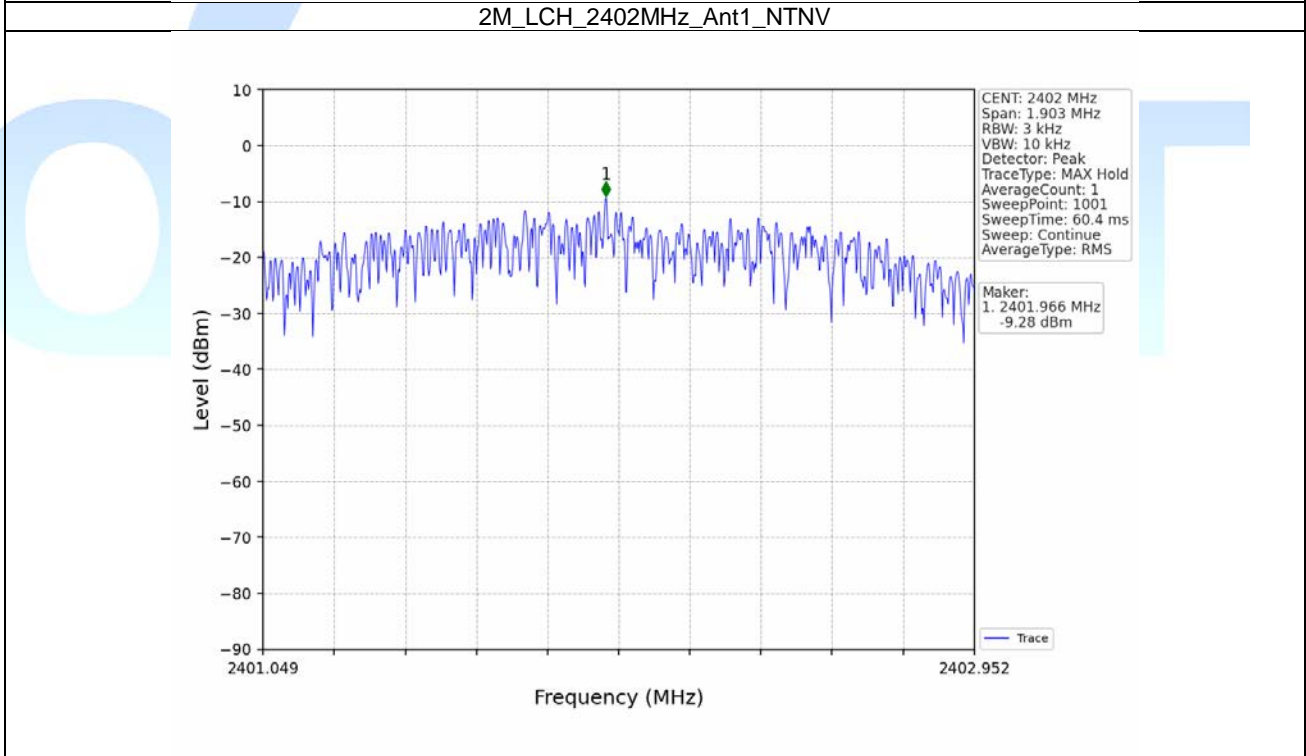
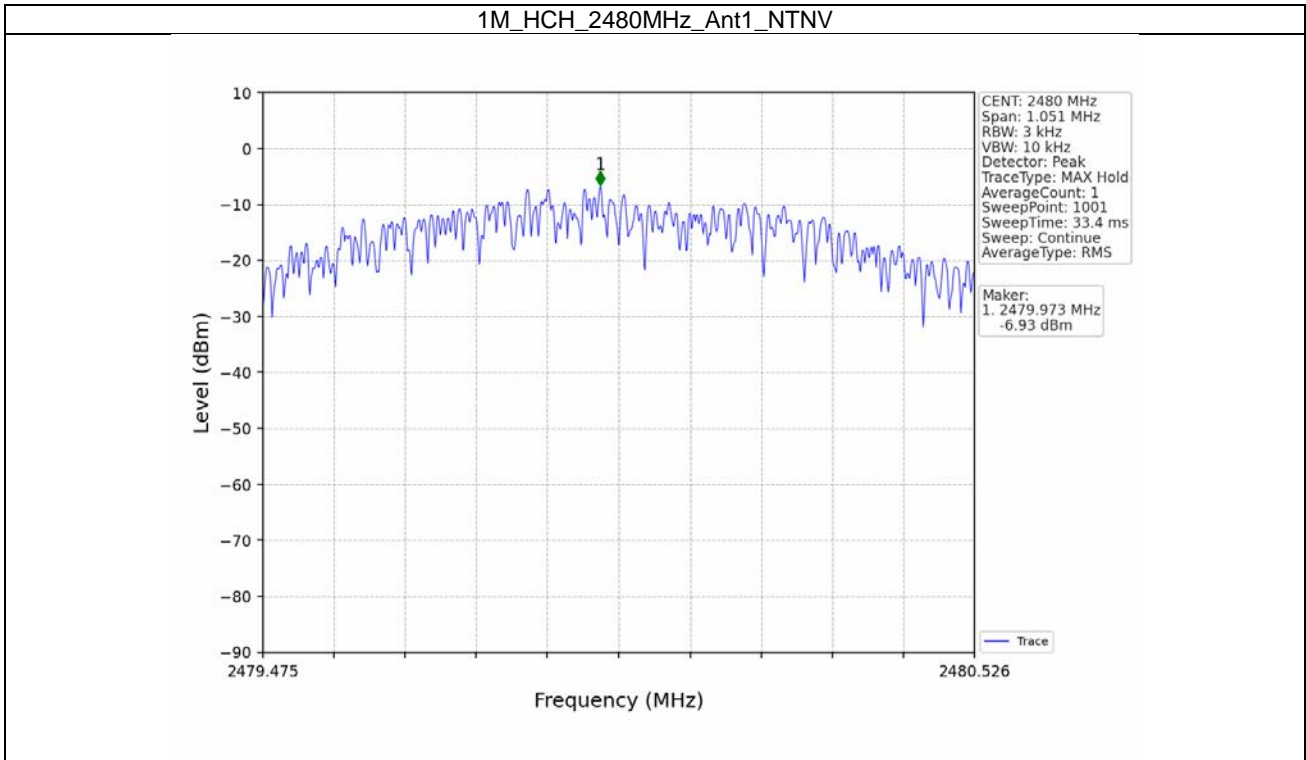
| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) | | Verdict |
|------|---------|-----------------|------------------------|-------|---------|
| | | | ANT1 | Limit | |
| 1M | SISO | 2402 | -6.59 | <=8 | Pass |
| | | 2440 | -6.28 | <=8 | Pass |
| | | 2480 | -6.93 | <=8 | Pass |
| 2M | SISO | 2402 | -9.28 | <=8 | Pass |
| | | 2440 | -8.98 | <=8 | Pass |
| | | 2480 | -9.69 | <=8 | Pass |

Note1: Antenna Gain: Ant1: 2.96dBi;

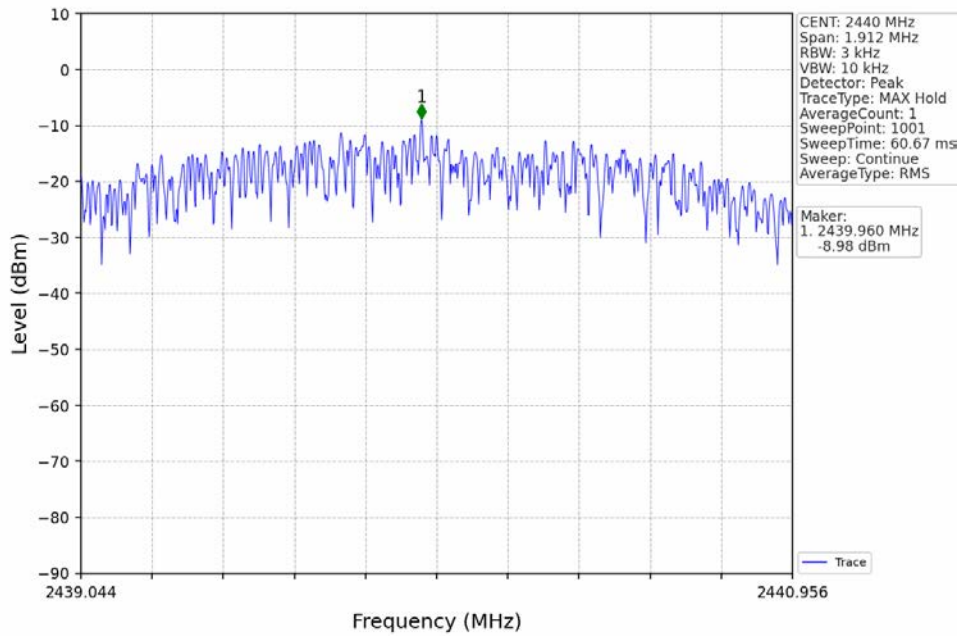
4.2 Test Graph

4.2.1 PSD

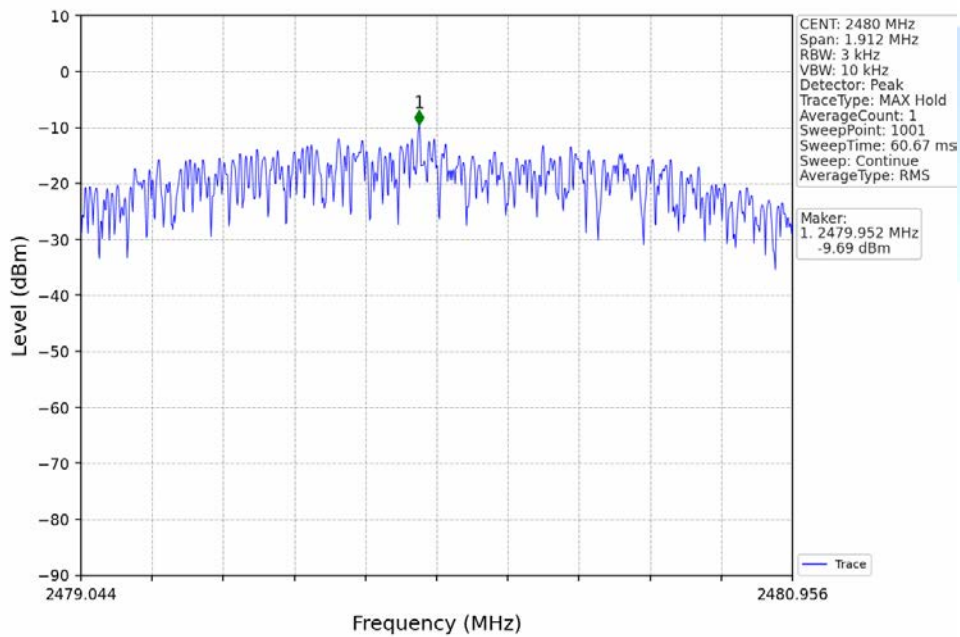




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------|---------|-----------------|-----|--------------------------|
| 1M | SISO | 2402 | 1 | 8.44 |
| | | 2440 | 1 | 8.68 |
| | | 2480 | 1 | 8.11 |
| 2M | SISO | 2402 | 1 | 7.83 |
| | | 2440 | 1 | 7.98 |
| | | 2480 | 1 | 7.37 |

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

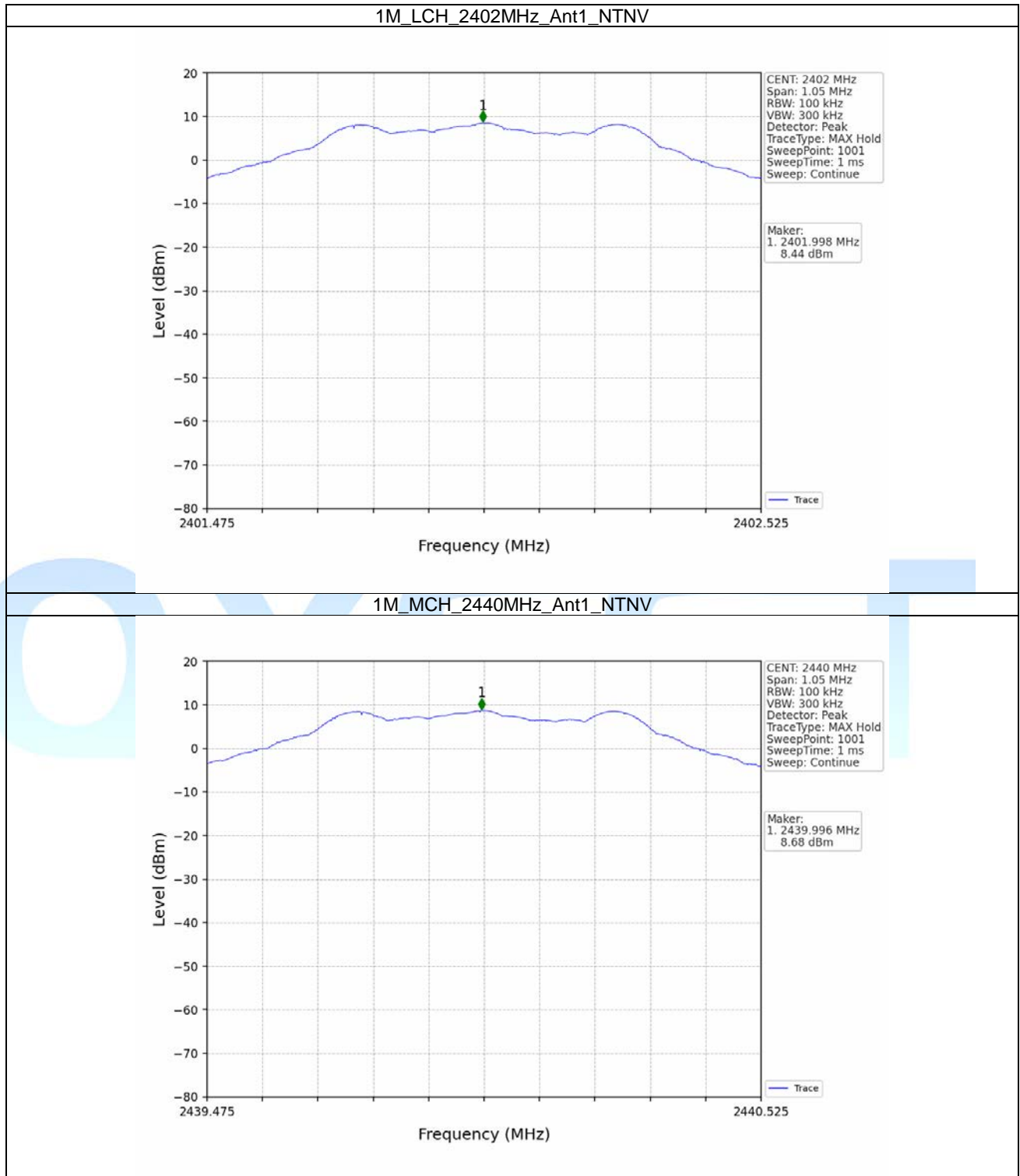
5.1.2 CSE

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M | SISO | 2402 | 1 | 8.68 | -11.32 | Pass |
| | | 2440 | 1 | 8.68 | -11.32 | Pass |
| | | 2480 | 1 | 8.68 | -11.32 | Pass |
| 2M | SISO | 2402 | 1 | 7.98 | -12.02 | Pass |
| | | 2440 | 1 | 7.98 | -12.02 | Pass |
| | | 2480 | 1 | 7.98 | -12.02 | Pass |

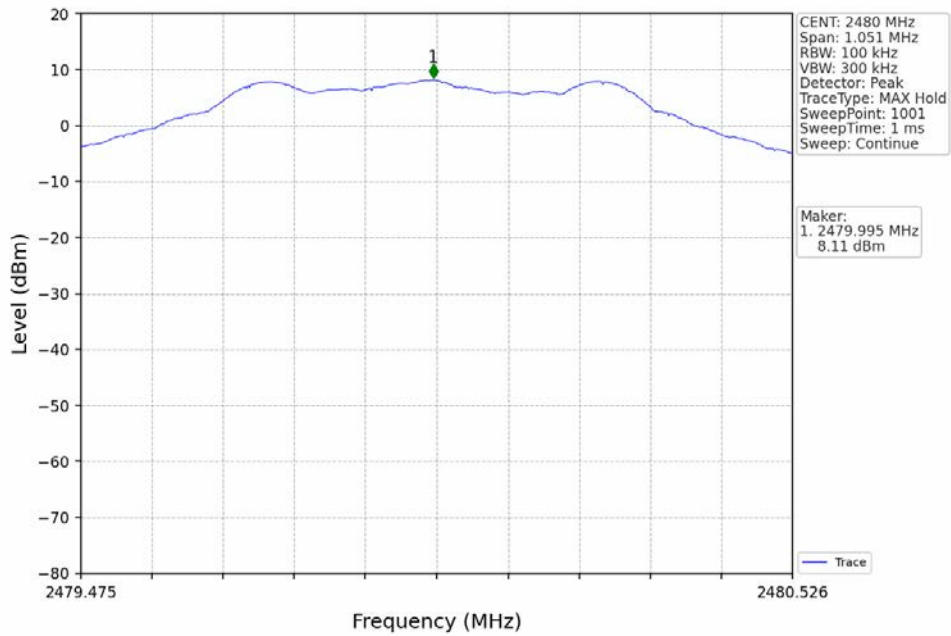
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

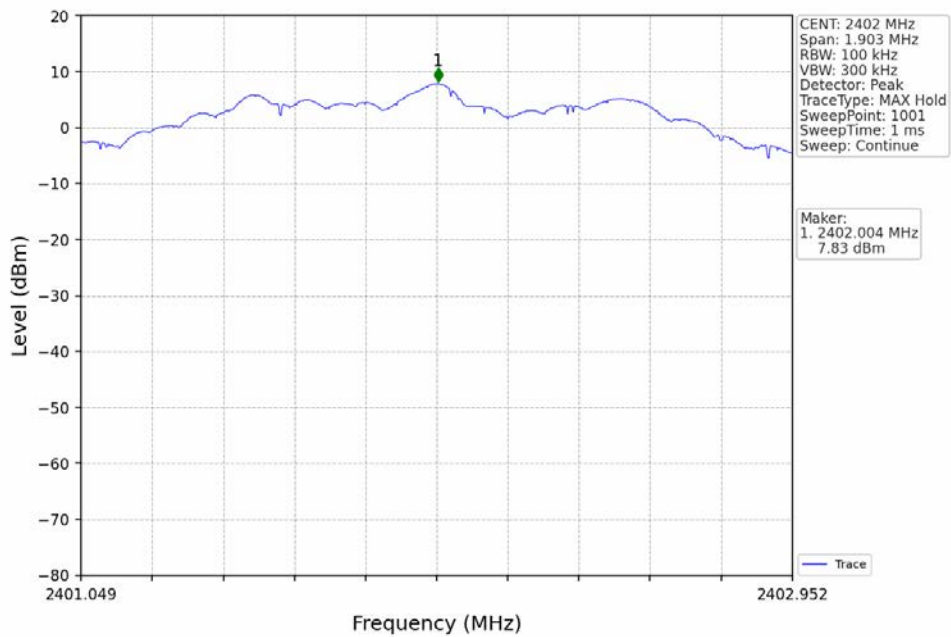
5.2.1 Ref



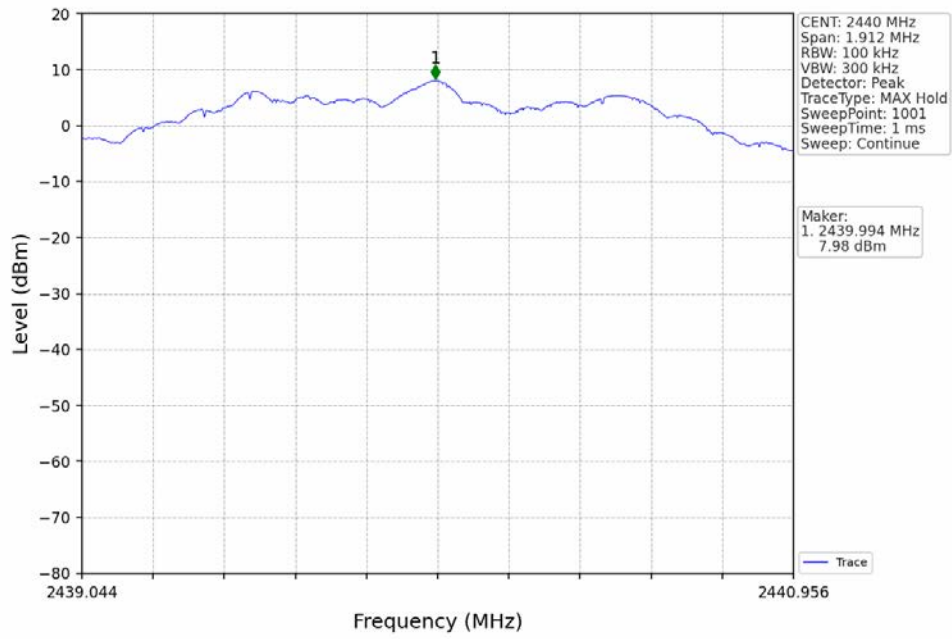
1M_HCH_2480MHz_Ant1_NTNV



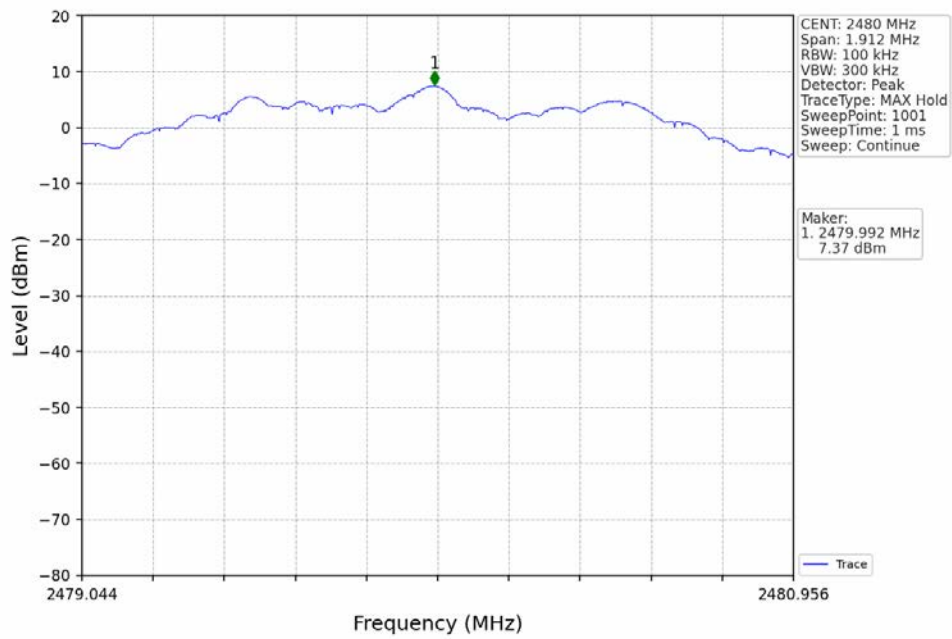
2M_LCH_2402MHz_Ant1_NTNV



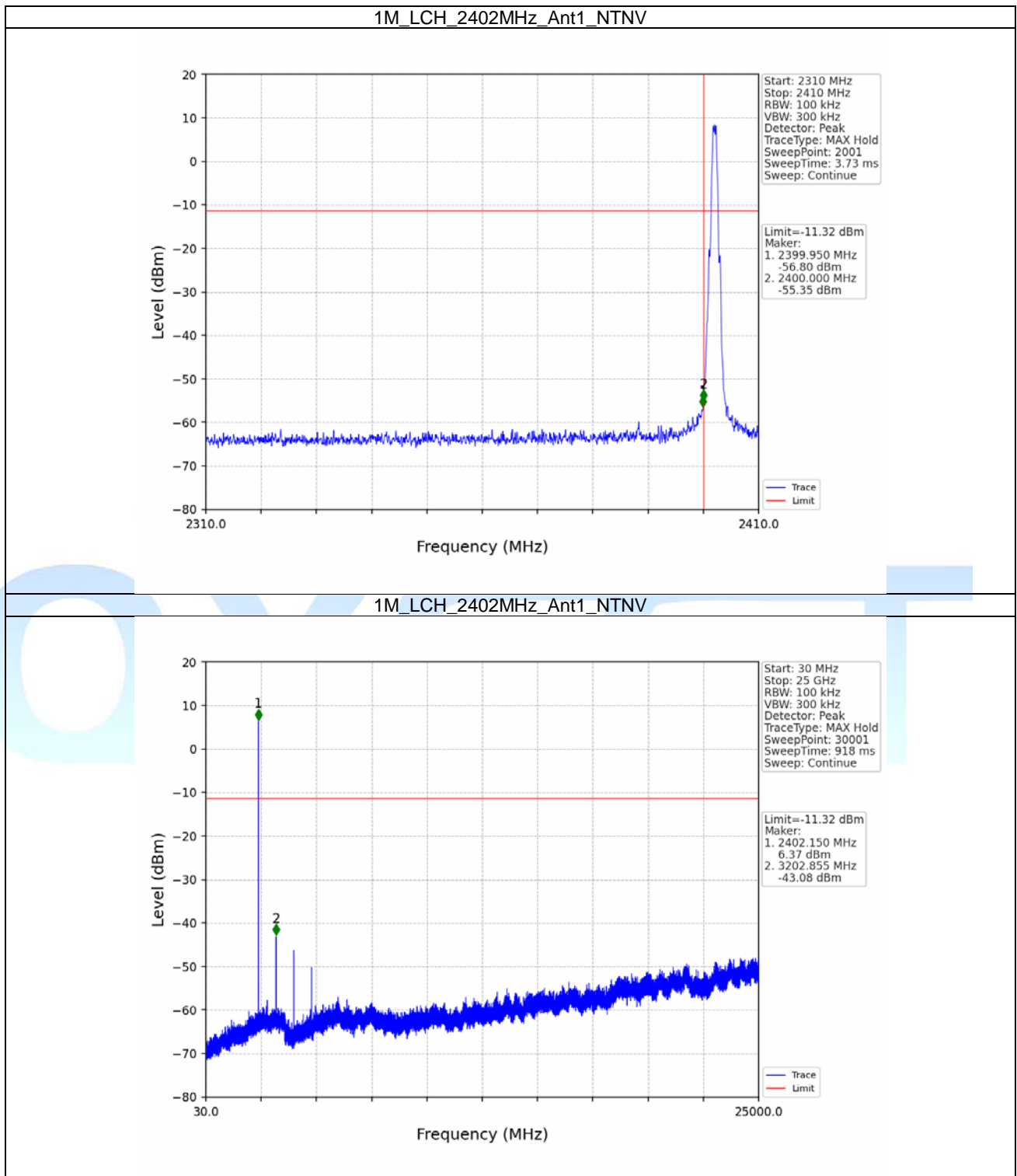
2M_MCH_2440MHz_Ant1_NTNV



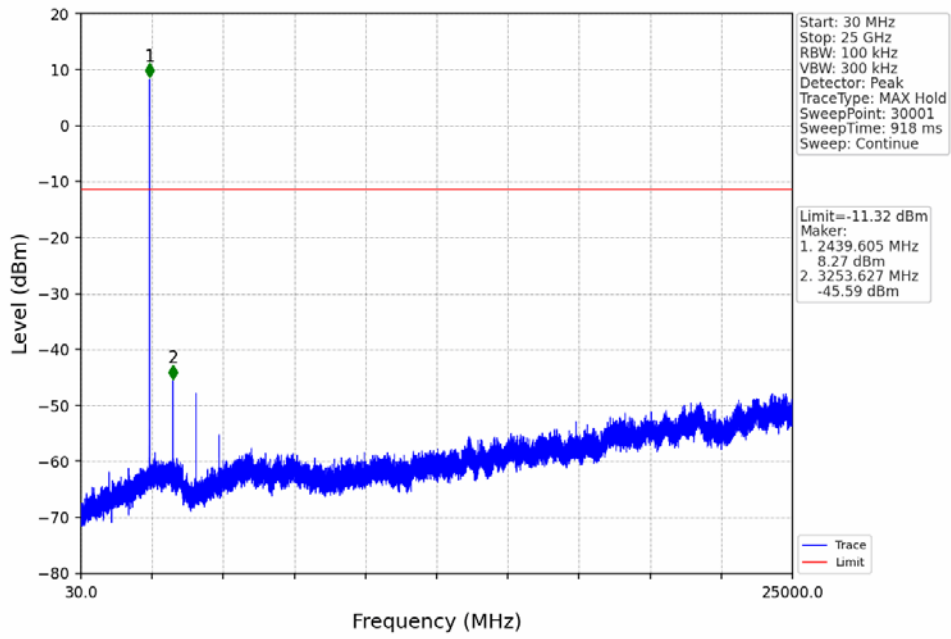
2M_HCH_2480MHz_Ant1_NTNV



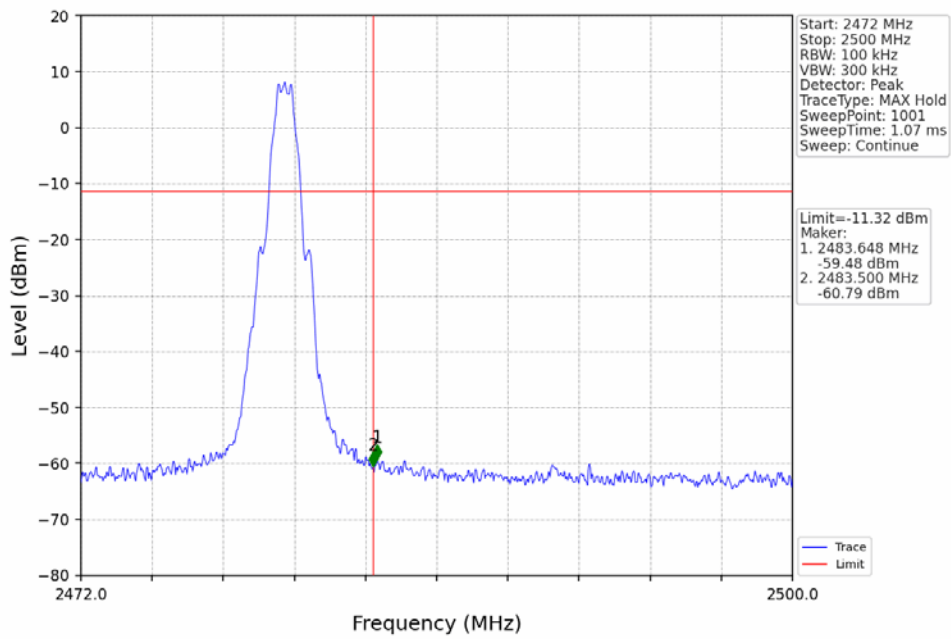
5.2.2 CSE



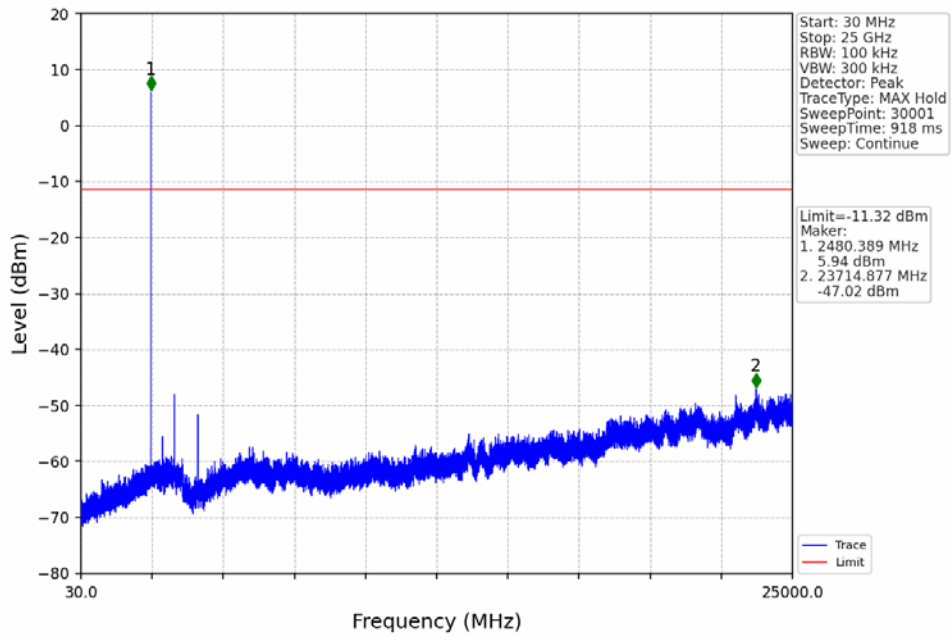
1M_MCH_2440MHz_Ant1_NTNV



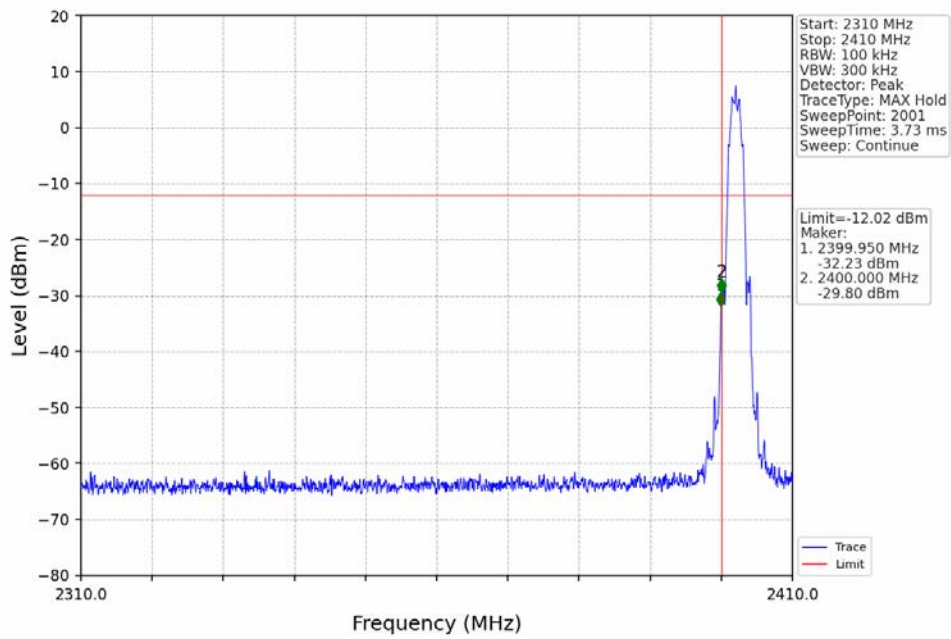
1M_HCH_2480MHz_Ant1_NTNV



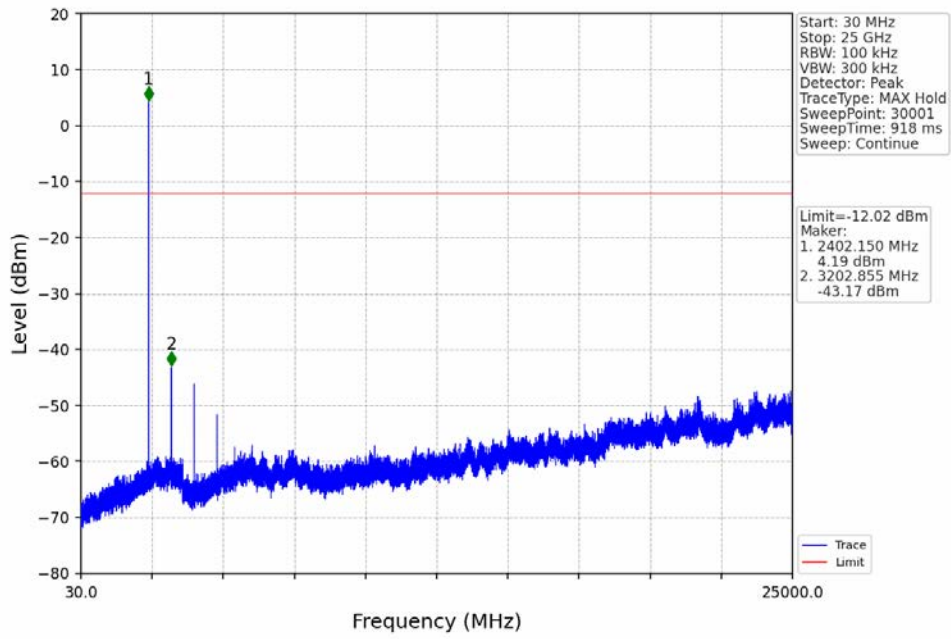
1M_HCH_2480MHz_Ant1_NTNV



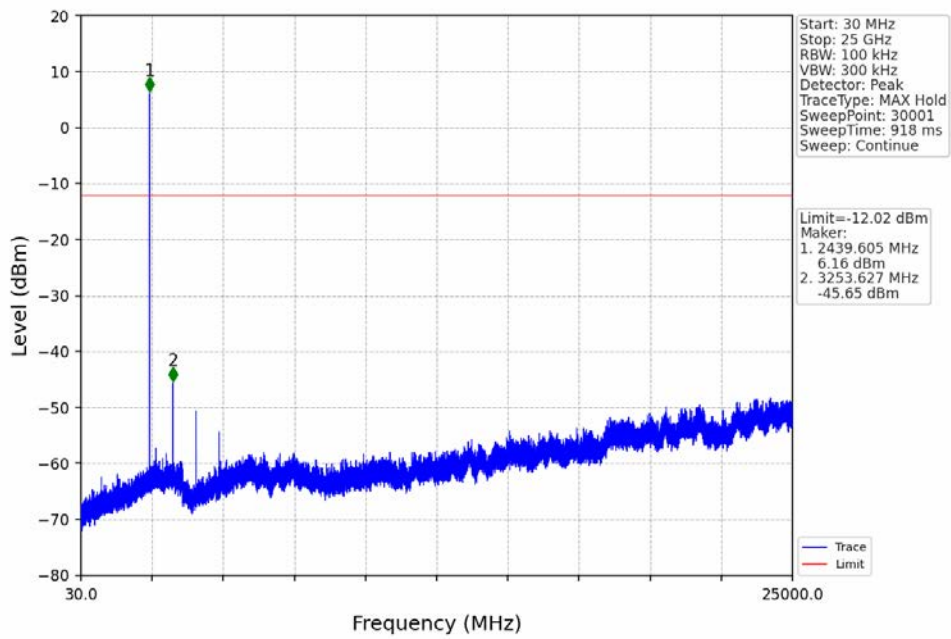
2M_LCH_2402MHz_Ant1_NTNV



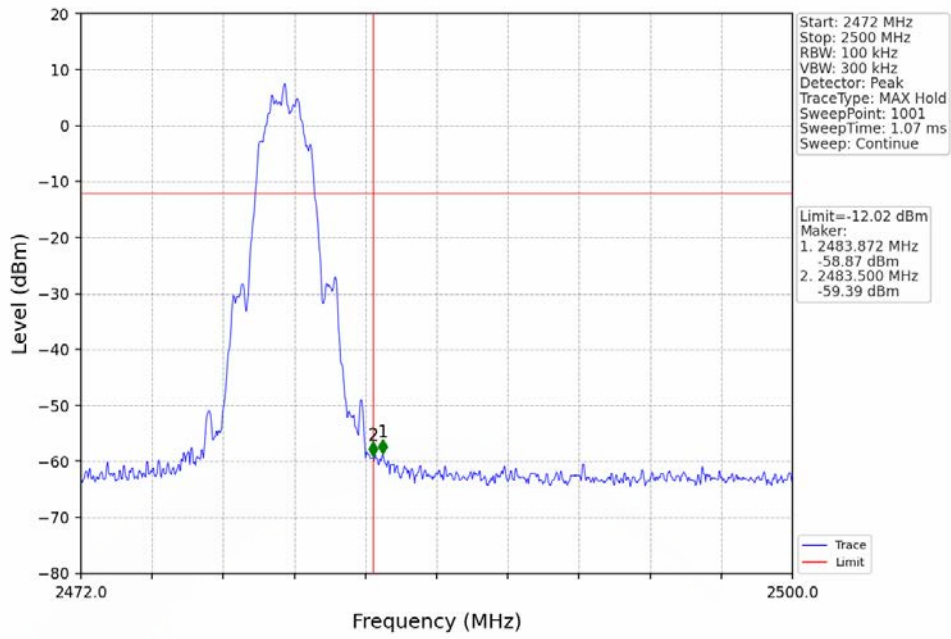
2M_LCH_2402MHz_Ant1_NTNV



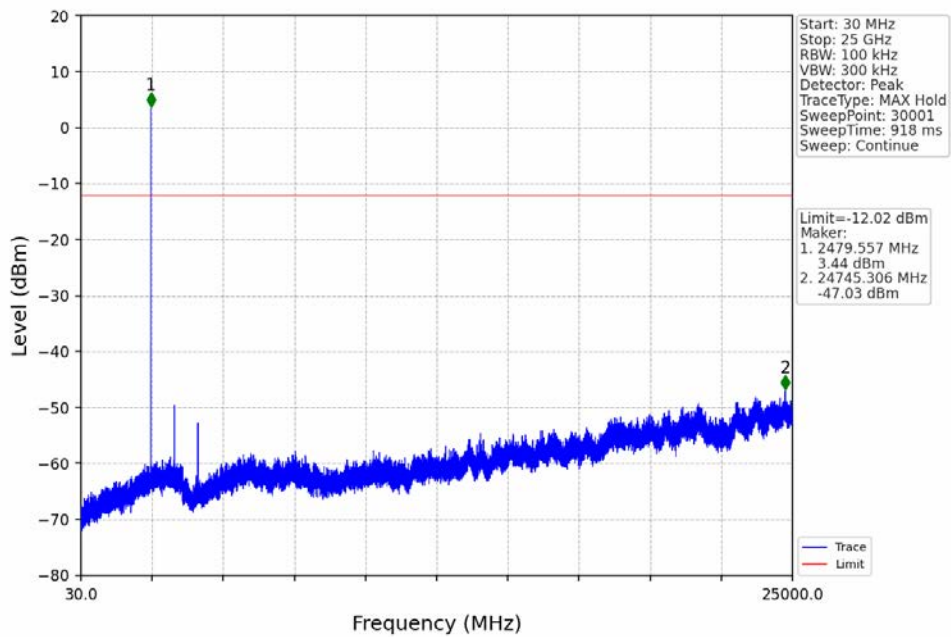
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



6. Unwanted Emissions In Restricted Frequency Bands

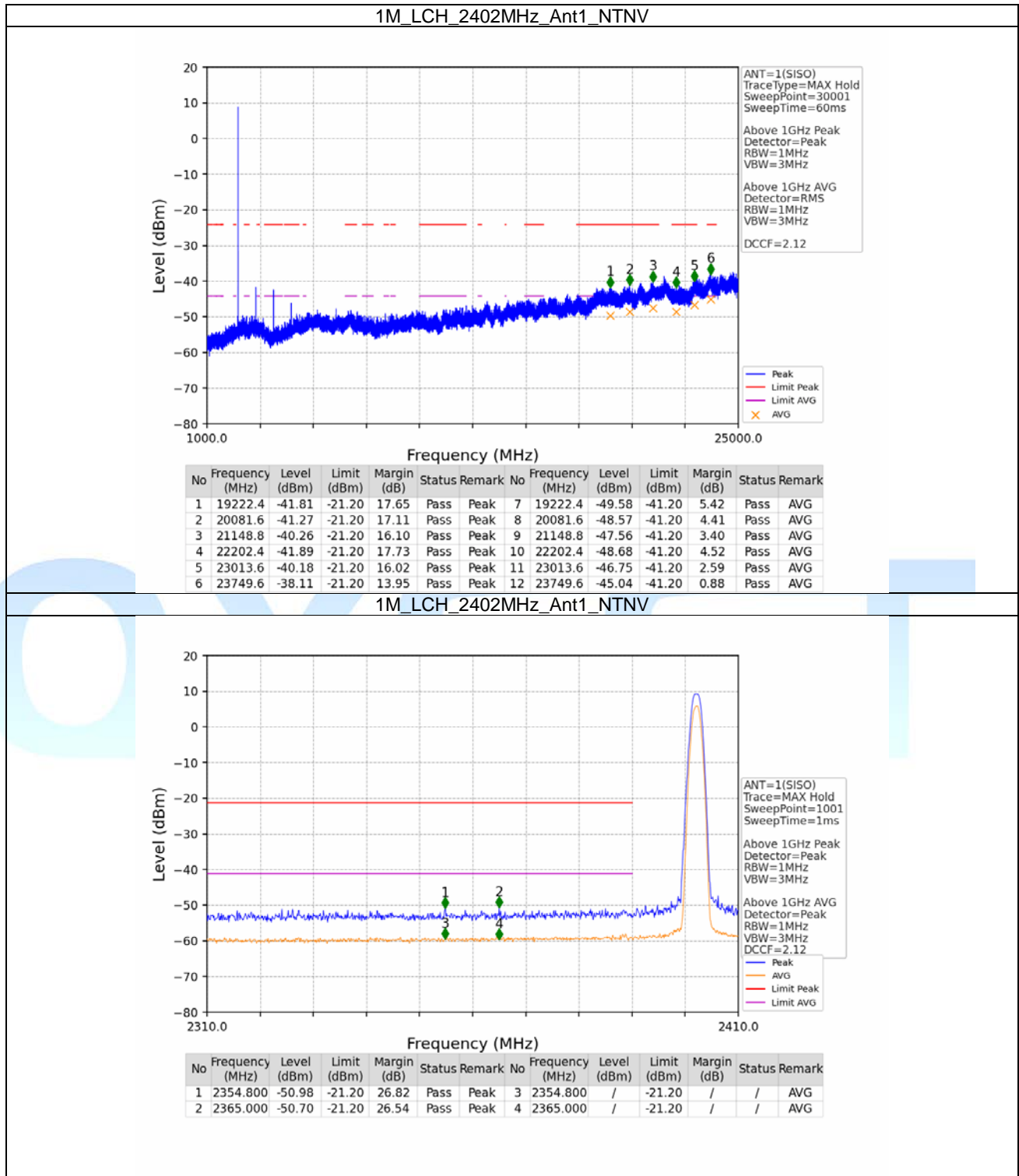
6.1 Test Result

6.1.1 RSE

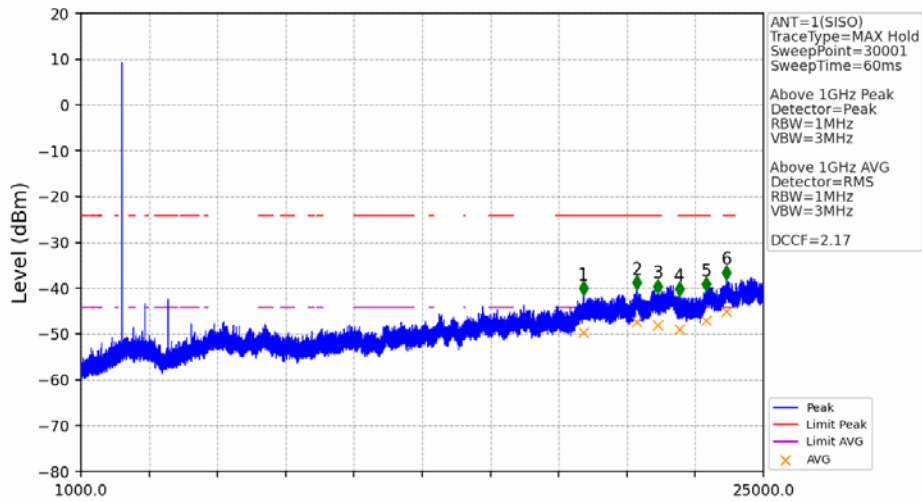
| Mode | TX Type | Frequency (MHz) | ANT | Level of Unwanted Emissions (dBm) | | Verdict |
|------|---------|-----------------|-----|-----------------------------------|-------|---------|
| | | | | Result | Limit | |
| 1M | SISO | 2402 | 1 | Refer To Test Graph | | Pass |
| | | 2440 | 1 | Refer To Test Graph | | Pass |
| | | 2480 | 1 | Refer To Test Graph | | Pass |
| 2M | SISO | 2402 | 1 | Refer To Test Graph | | Pass |
| | | 2440 | 1 | Refer To Test Graph | | Pass |
| | | 2480 | 1 | Refer To Test Graph | | Pass |

6.2 Test Graph

6.2.1 RSE

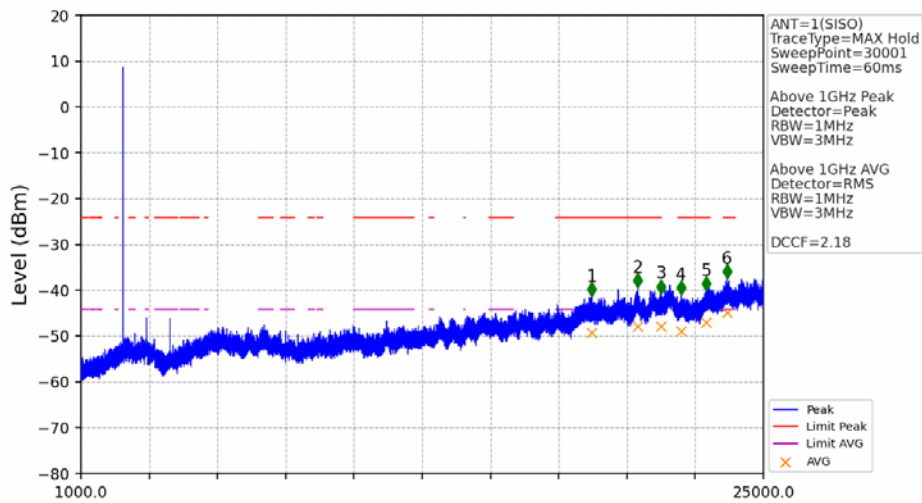


1M_MCH_2440MHz_Ant1_NTNV



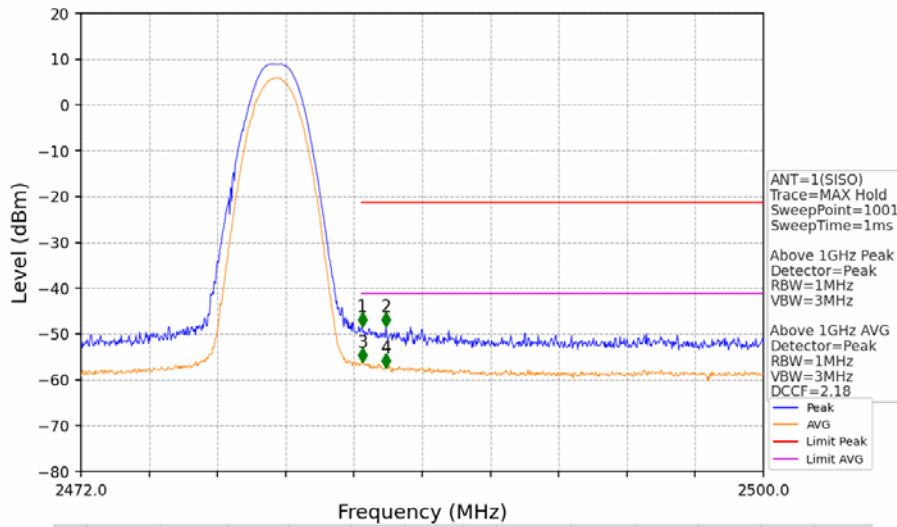
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1 | 18660 | -41.53 | -21.20 | 17.37 | Pass | Peak | 7 | 18660 | -49.65 | -41.20 | 5.49 | Pass | AVG |
| 2 | 20546.4 | -40.37 | -21.20 | 16.21 | Pass | Peak | 8 | 20546.4 | -47.46 | -41.20 | 3.30 | Pass | AVG |
| 3 | 21289.6 | -41.11 | -21.20 | 16.95 | Pass | Peak | 9 | 21289.6 | -48.01 | -41.20 | 3.85 | Pass | AVG |
| 4 | 22043.2 | -41.71 | -21.20 | 17.55 | Pass | Peak | 10 | 22043.2 | -48.97 | -41.20 | 4.81 | Pass | AVG |
| 5 | 22983.2 | -40.62 | -21.20 | 16.46 | Pass | Peak | 11 | 22983.2 | -46.95 | -41.20 | 2.79 | Pass | AVG |
| 6 | 23704.8 | -38.14 | -21.20 | 13.98 | Pass | Peak | 12 | 23704.8 | -45.03 | -41.20 | 0.87 | Pass | AVG |

1M_HCH_2480MHz_Ant1_NTNV



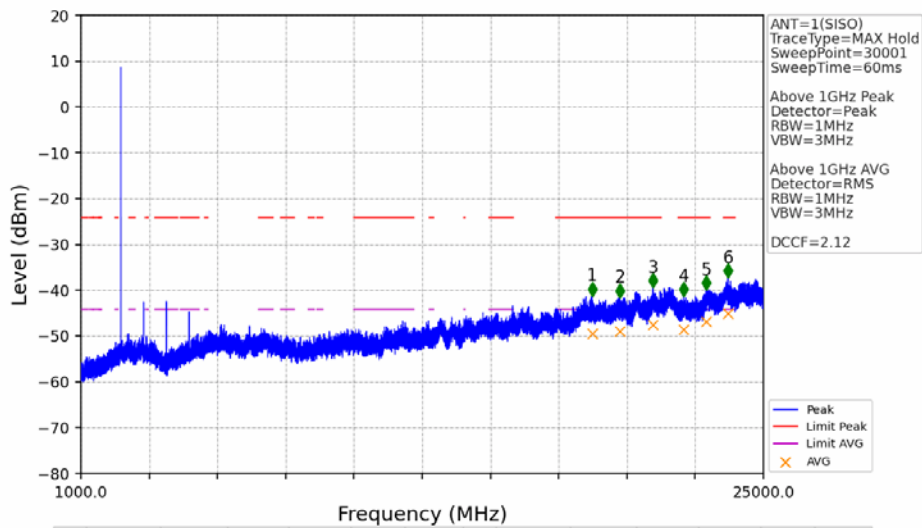
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1 | 18961.6 | -41.34 | -21.20 | 17.18 | Pass | Peak | 7 | 18961.6 | -49.25 | -41.20 | 5.09 | Pass | AVG |
| 2 | 20587.2 | -39.49 | -21.20 | 15.33 | Pass | Peak | 8 | 20587.2 | -47.85 | -41.20 | 3.69 | Pass | AVG |
| 3 | 21388.8 | -40.76 | -21.20 | 16.60 | Pass | Peak | 9 | 21388.8 | -47.88 | -41.20 | 3.73 | Pass | AVG |
| 4 | 22109.6 | -41.07 | -21.20 | 16.91 | Pass | Peak | 10 | 22109.6 | -49.03 | -41.20 | 4.87 | Pass | AVG |
| 5 | 22990.4 | -40.20 | -21.20 | 16.04 | Pass | Peak | 11 | 22990.4 | -46.98 | -41.20 | 2.81 | Pass | AVG |
| 6 | 23711.2 | -37.52 | -21.20 | 13.36 | Pass | Peak | 12 | 23711.2 | -44.88 | -41.20 | 0.72 | Pass | AVG |

1M_HCH_2480MHz_Ant1_NTNV



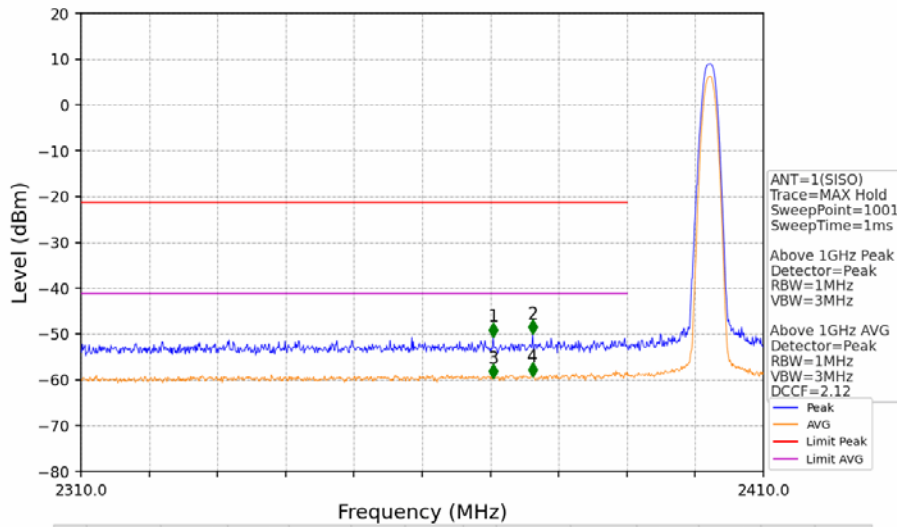
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1 | 2483.536 | -48.41 | -21.20 | 24.25 | Pass | Peak | 3 | 2483.536 | / | -21.20 | / | / | AVG |
| 2 | 2484.516 | -48.45 | -21.20 | 24.29 | Pass | Peak | 4 | 2484.516 | / | -21.20 | / | / | AVG |

2M_LCH_2402MHz_Ant1_NTNV



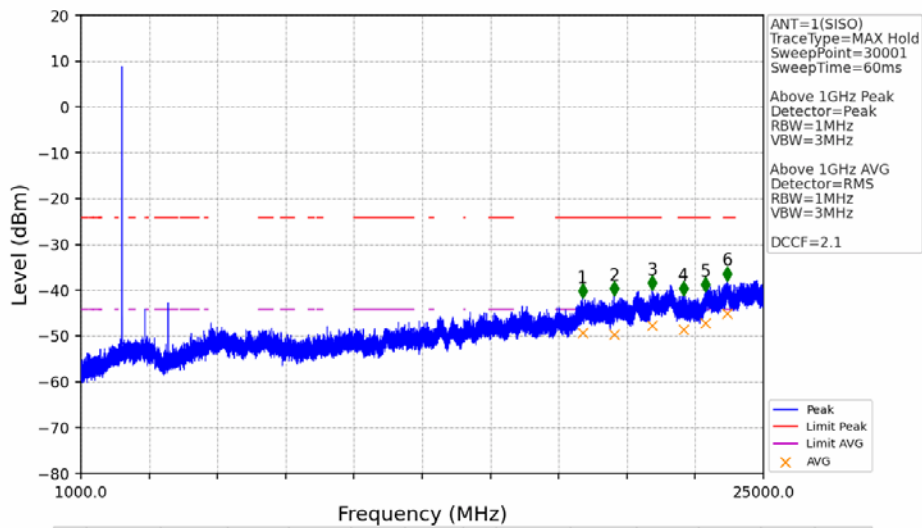
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1 | 18974.4 | -41.31 | -21.20 | 17.15 | Pass | Peak | 7 | 18974.4 | -49.43 | -41.20 | 5.27 | Pass | AVG |
| 2 | 19943.2 | -41.66 | -21.20 | 17.50 | Pass | Peak | 8 | 19943.2 | -48.93 | -41.20 | 4.77 | Pass | AVG |
| 3 | 21115.2 | -39.43 | -21.20 | 15.27 | Pass | Peak | 9 | 21115.2 | -47.51 | -41.20 | 3.35 | Pass | AVG |
| 4 | 22199.2 | -41.38 | -21.20 | 17.22 | Pass | Peak | 10 | 22199.2 | -48.63 | -41.20 | 4.47 | Pass | AVG |
| 5 | 22991.2 | -40.00 | -21.20 | 15.84 | Pass | Peak | 11 | 22991.2 | -46.88 | -41.20 | 2.72 | Pass | AVG |
| 6 | 23754.4 | -37.38 | -21.20 | 13.22 | Pass | Peak | 12 | 23754.4 | -45.14 | -41.20 | 0.98 | Pass | AVG |

2M_LCH_2402MHz_Ant1_NTNV



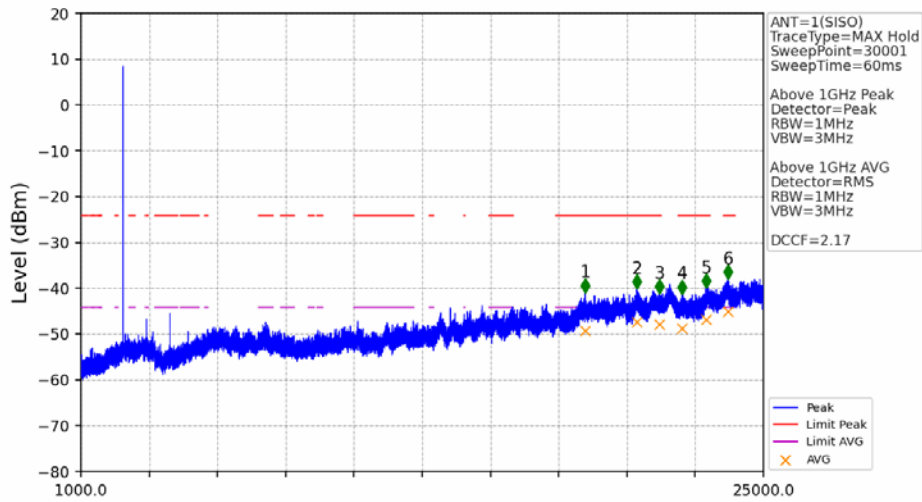
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1 | 2370.400 | -50.64 | -21.20 | 26.48 | Pass | Peak | 3 | 2370.400 | / | -21.20 | / | / | AVG |
| 2 | 2376.200 | -50.07 | -21.20 | 25.91 | Pass | Peak | 4 | 2376.200 | / | -21.20 | / | / | AVG |

2M_MCH_2440MHz_Ant1_NTNV



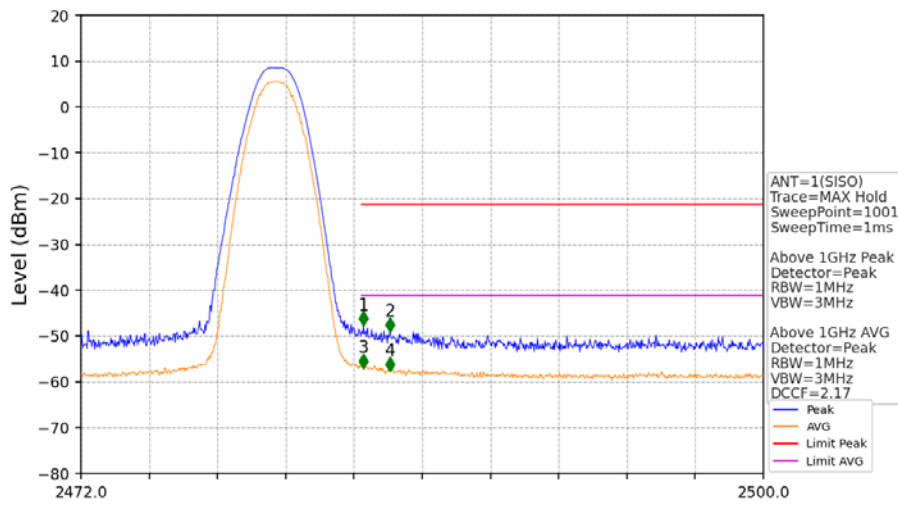
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1 | 18634.4 | -41.68 | -21.20 | 17.52 | Pass | Peak | 7 | 18634.4 | -49.39 | -41.20 | 5.23 | Pass | AVG |
| 2 | 19744.8 | -41.21 | -21.20 | 17.05 | Pass | Peak | 8 | 19744.8 | -49.68 | -41.20 | 5.52 | Pass | AVG |
| 3 | 21092.8 | -40.01 | -21.20 | 15.85 | Pass | Peak | 9 | 21092.8 | -47.70 | -41.20 | 3.54 | Pass | AVG |
| 4 | 22192 | -41.21 | -21.20 | 17.05 | Pass | Peak | 10 | 22192 | -48.53 | -41.20 | 4.37 | Pass | AVG |
| 5 | 22971.2 | -40.31 | -21.20 | 16.15 | Pass | Peak | 11 | 22971.2 | -47.24 | -41.20 | 3.08 | Pass | AVG |
| 6 | 23728.8 | -37.96 | -21.20 | 13.80 | Pass | Peak | 12 | 23728.8 | -45.05 | -41.20 | 0.89 | Pass | AVG |

2M_HCH_2480MHz_Ant1_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1 | 18728 | -40.93 | -21.20 | 16.77 | Pass | Peak | 7 | 18728 | -49.32 | -41.20 | 5.16 | Pass | AVG |
| 2 | 20547.2 | -40.20 | -21.20 | 16.04 | Pass | Peak | 8 | 20547.2 | -47.43 | -41.20 | 3.27 | Pass | AVG |
| 3 | 21337.6 | -41.28 | -21.20 | 17.12 | Pass | Peak | 9 | 21337.6 | -47.94 | -41.20 | 3.78 | Pass | AVG |
| 4 | 22140.8 | -41.29 | -21.20 | 17.13 | Pass | Peak | 10 | 22140.8 | -48.78 | -41.20 | 4.62 | Pass | AVG |
| 5 | 22992 | -39.93 | -21.20 | 15.77 | Pass | Peak | 11 | 22992 | -46.84 | -41.20 | 2.68 | Pass | AVG |
| 6 | 23746.4 | -37.98 | -21.20 | 13.81 | Pass | Peak | 12 | 23746.4 | -45.04 | -41.20 | 0.88 | Pass | AVG |

2M_HCH_2480MHz_Ant1_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1 | 2483.592 | -47.70 | -21.20 | 23.54 | Pass | Peak | 3 | 2483.592 | / | -21.20 | / | / | AVG |
| 2 | 2484.684 | -49.05 | -21.20 | 24.89 | Pass | Peak | 4 | 2484.684 | / | -21.20 | / | / | AVG |

▶▶▶ END OF REPORT ◀◀◀