

1. Duty Cycle

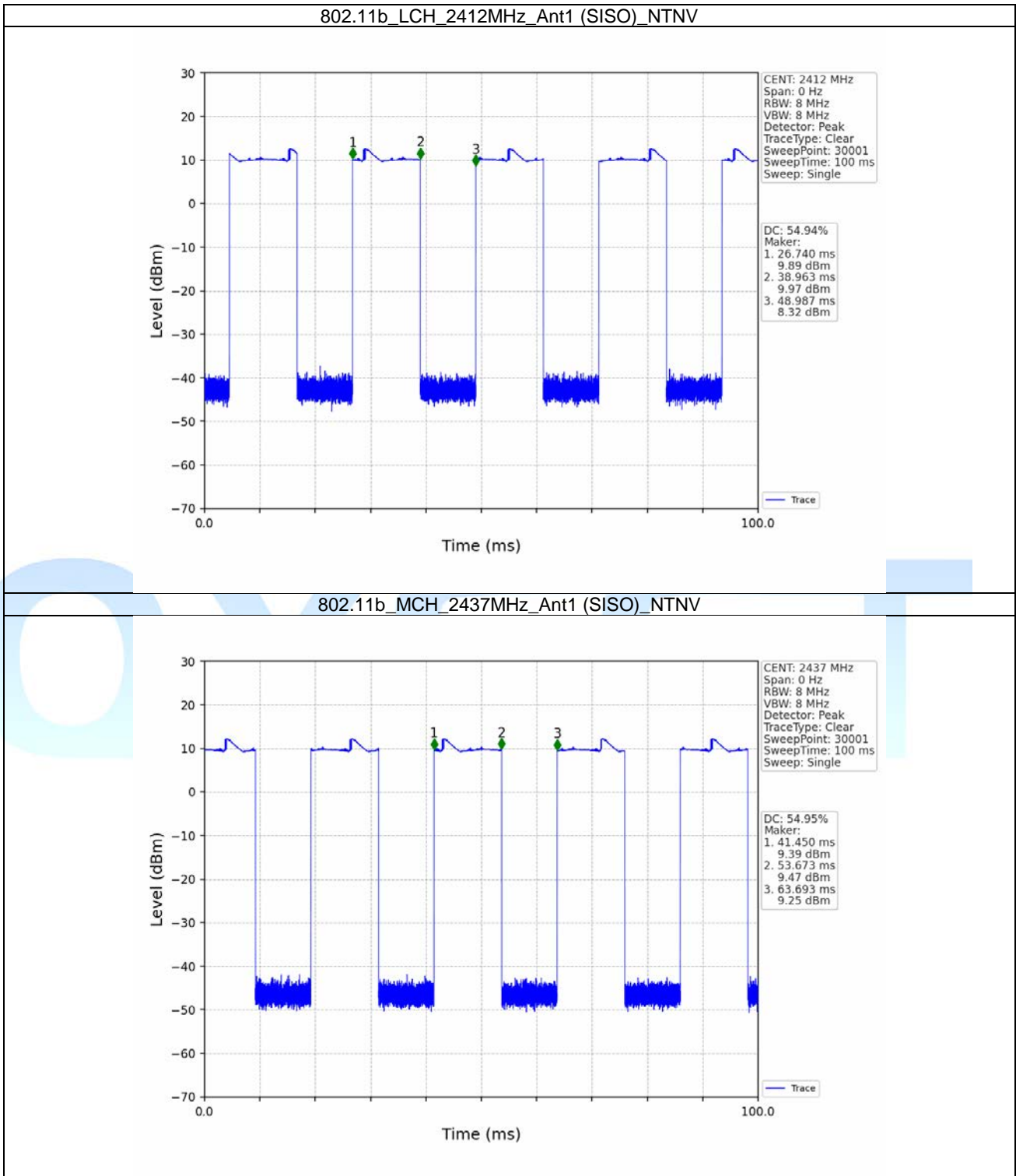
1.1 Test Result

1.1.1 Ant1

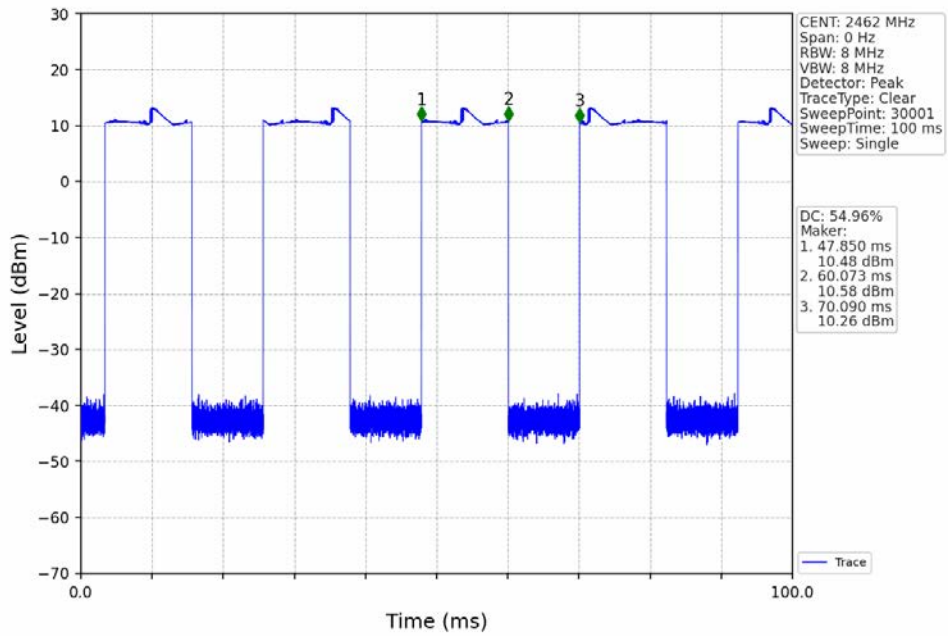
| Ant1 | | | | | | | | | |
|------------------|---------|-----------------|-------|--------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | RU | RU Pos | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b | SISO | 2412 | / | / | 12.223 | 22.247 | 54.94 | 2.60 | 0.02 |
| | | 2437 | / | / | 12.223 | 22.243 | 54.95 | 2.60 | 0.02 |
| | | 2462 | / | / | 12.223 | 22.240 | 54.96 | 2.60 | 0.01 |
| 802.11g | SISO | 2412 | / | / | 2.034 | 12.060 | 16.87 | 7.73 | 0.03 |
| | | 2437 | / | / | 2.034 | 14.654 | 13.88 | 8.58 | 3.02 |
| | | 2462 | / | / | 2.034 | 12.057 | 16.87 | 7.73 | 0.02 |
| 802.11n (HT20) | SISO | 2412 | / | / | 1.894 | 13.660 | 13.87 | 8.58 | 2.05 |
| | | 2437 | / | / | 1.894 | 11.924 | 15.88 | 7.99 | 0.04 |
| | | 2462 | / | / | 1.894 | 11.924 | 15.88 | 7.99 | 0.03 |
| 802.11n (HT40) | SISO | 2422 | / | / | 0.933 | 10.963 | 8.51 | 10.70 | 0.03 |
| | | 2437 | / | / | 0.933 | 10.963 | 8.51 | 10.70 | 0.03 |
| | | 2452 | / | / | 0.934 | 11.034 | 8.46 | 10.72 | 0.06 |
| 802.11ax (HEW20) | SISO | 2412 | RU242 | Left | 1.463 | 11.490 | 12.73 | 8.95 | 0.03 |
| | | 2437 | RU242 | Left | 1.464 | 11.490 | 12.74 | 8.95 | 0.03 |
| | | 2462 | RU242 | Left | 1.463 | 11.487 | 12.74 | 8.95 | 0.03 |
| 802.11ax (HEW40) | SISO | 2422 | RU484 | Left | 0.763 | 10.786 | 7.07 | 11.50 | 0.03 |
| | | 2437 | RU484 | Left | 0.764 | 10.794 | 7.08 | 11.50 | 0.01 |
| | | 2452 | RU484 | Left | 0.764 | 12.784 | 5.98 | 12.24 | 1.14 |

1.2 Test Graph

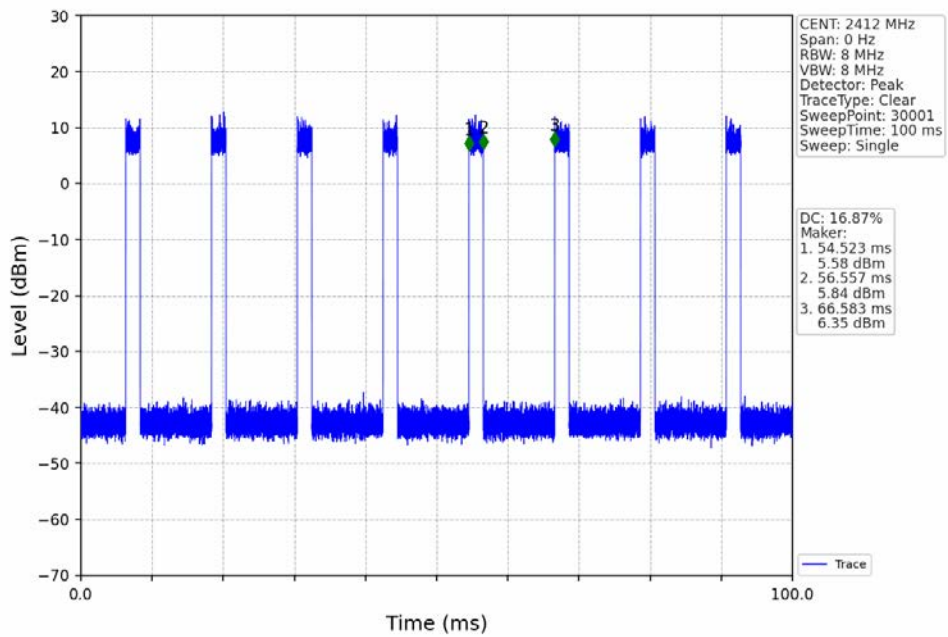
1.2.1 Ant1



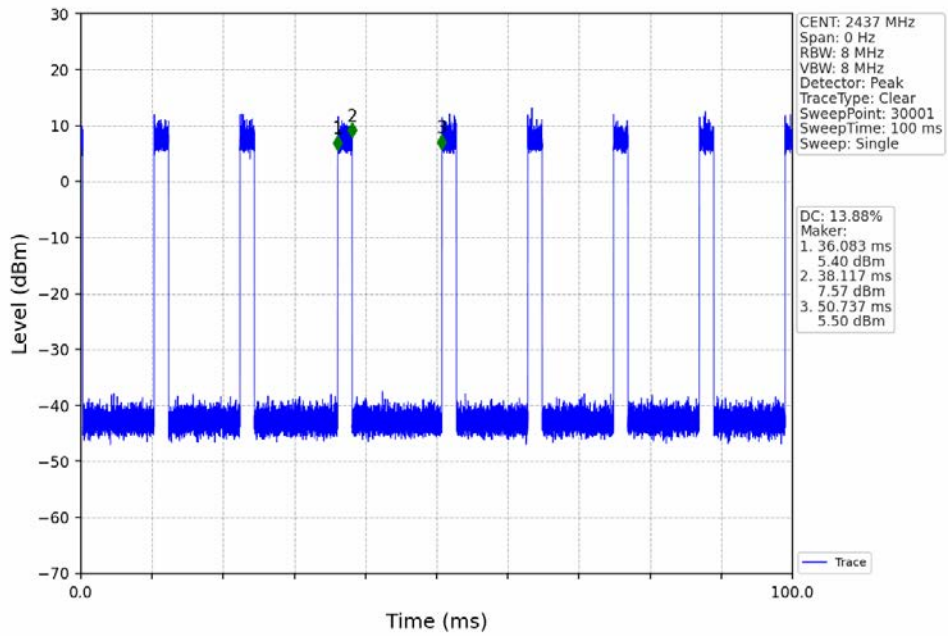
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



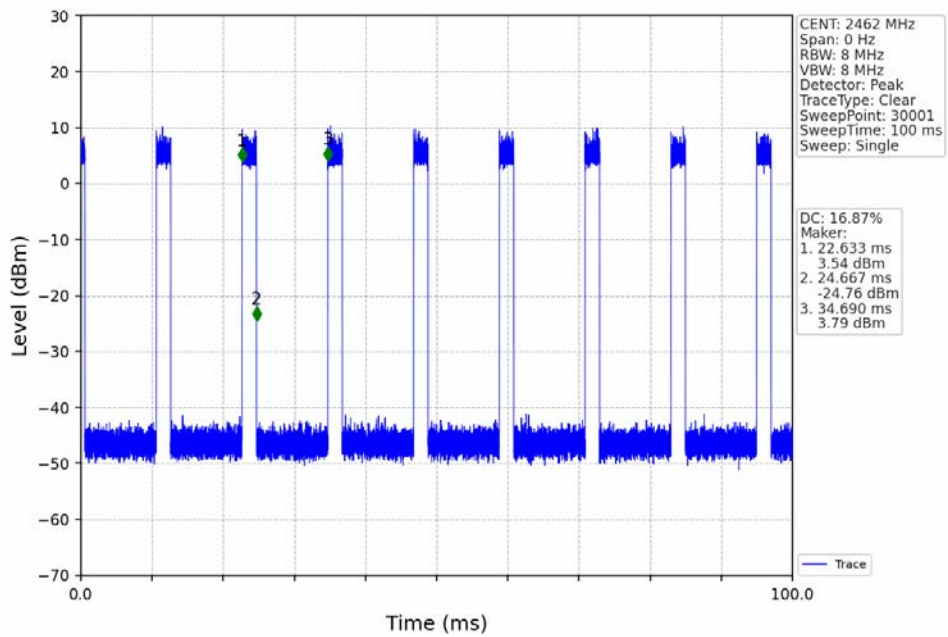
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



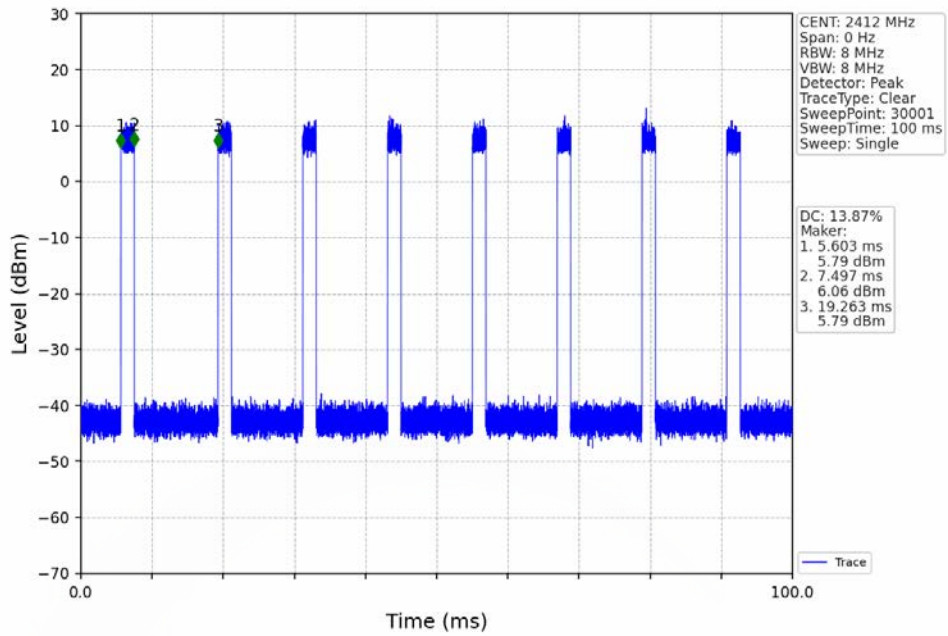
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



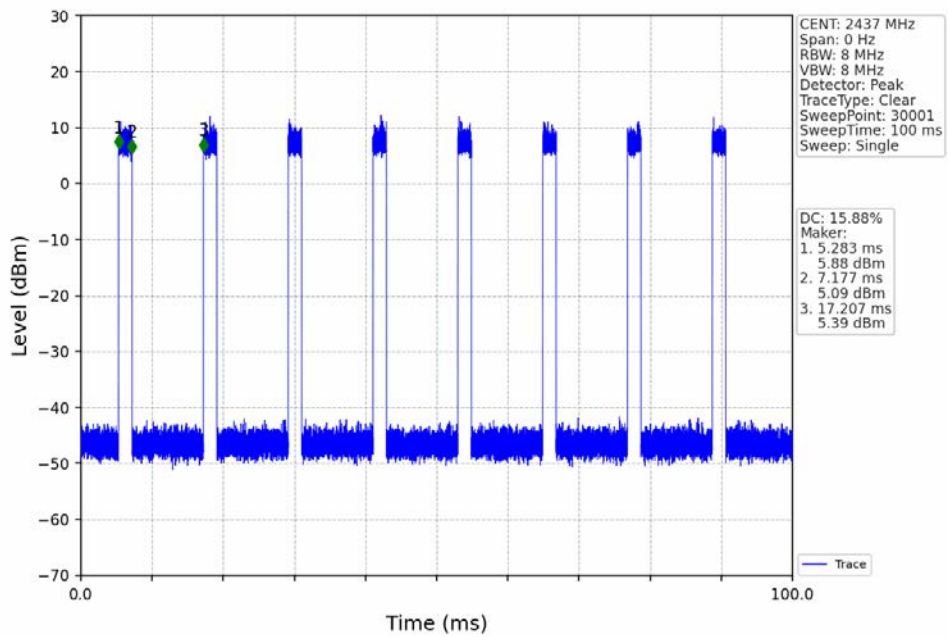
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



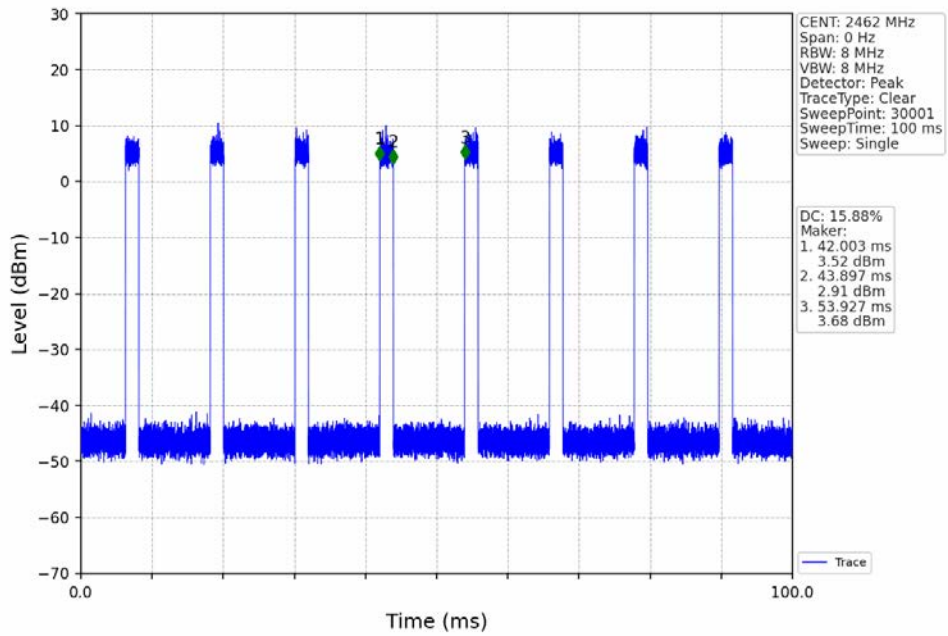
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



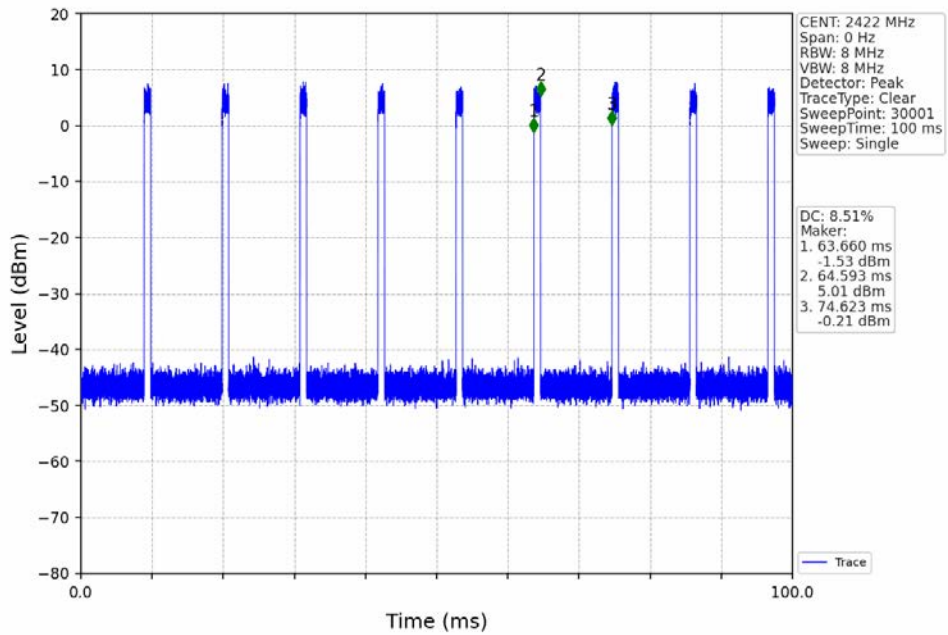
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



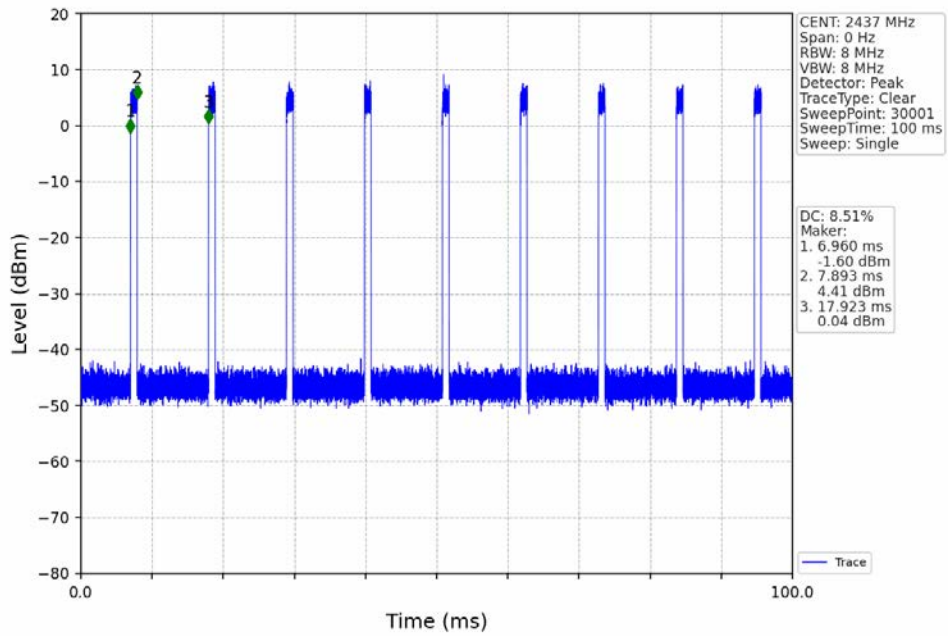
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



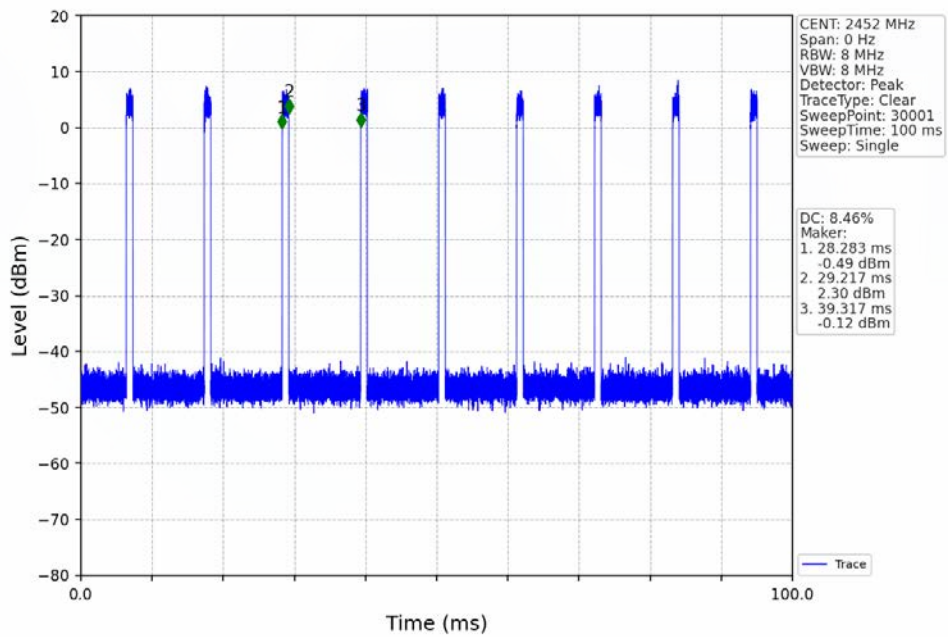
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



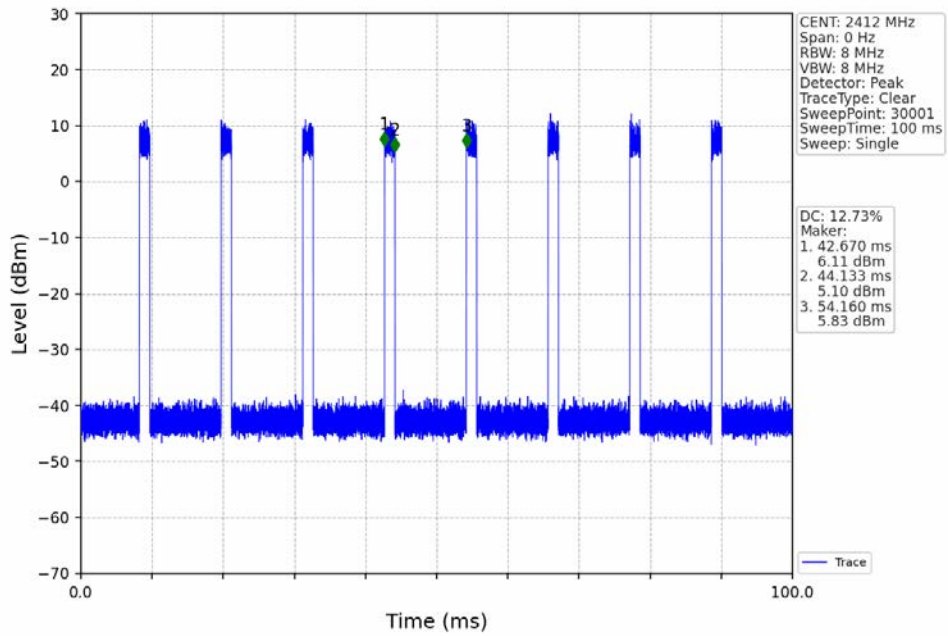
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



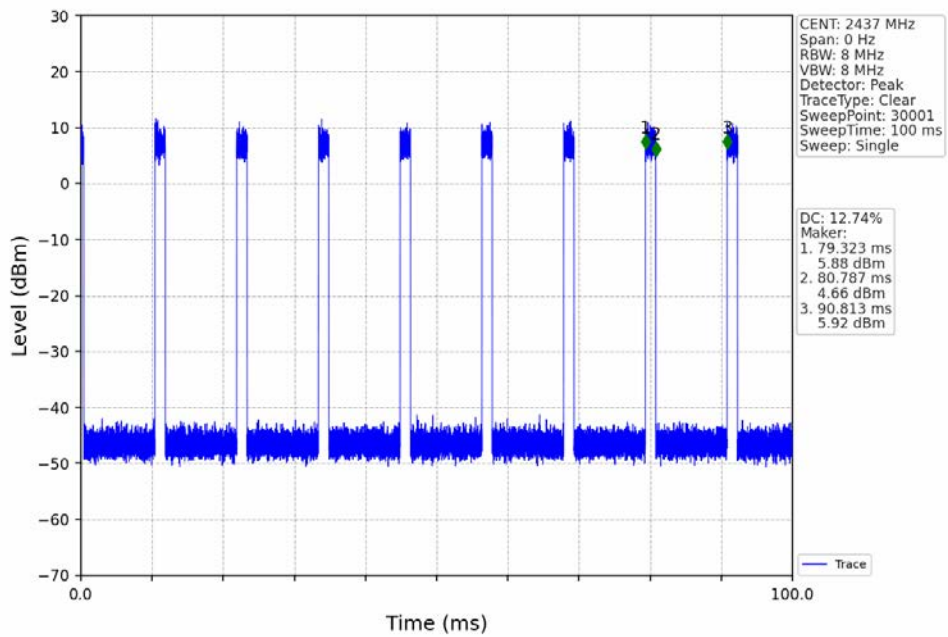
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



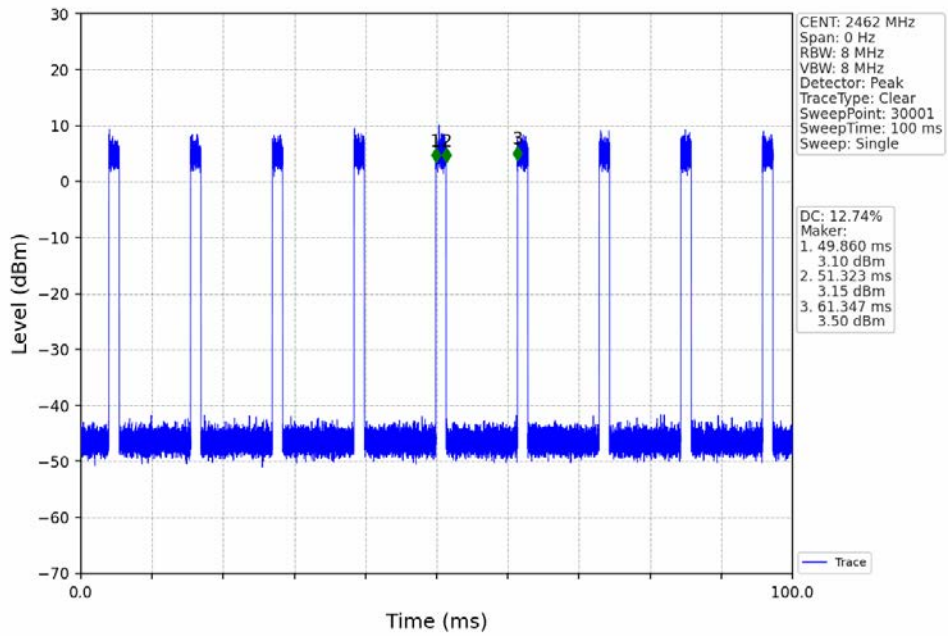
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



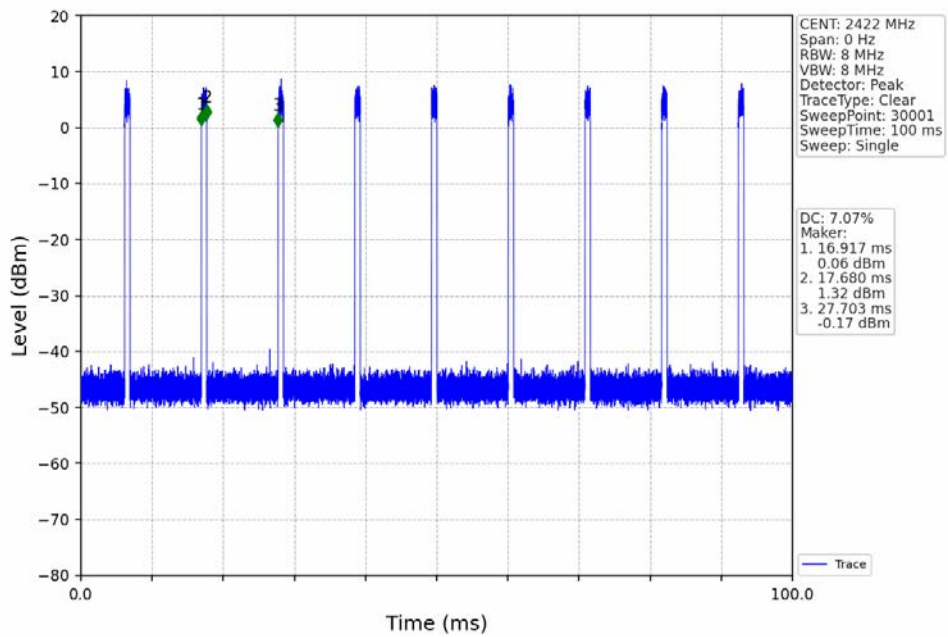
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



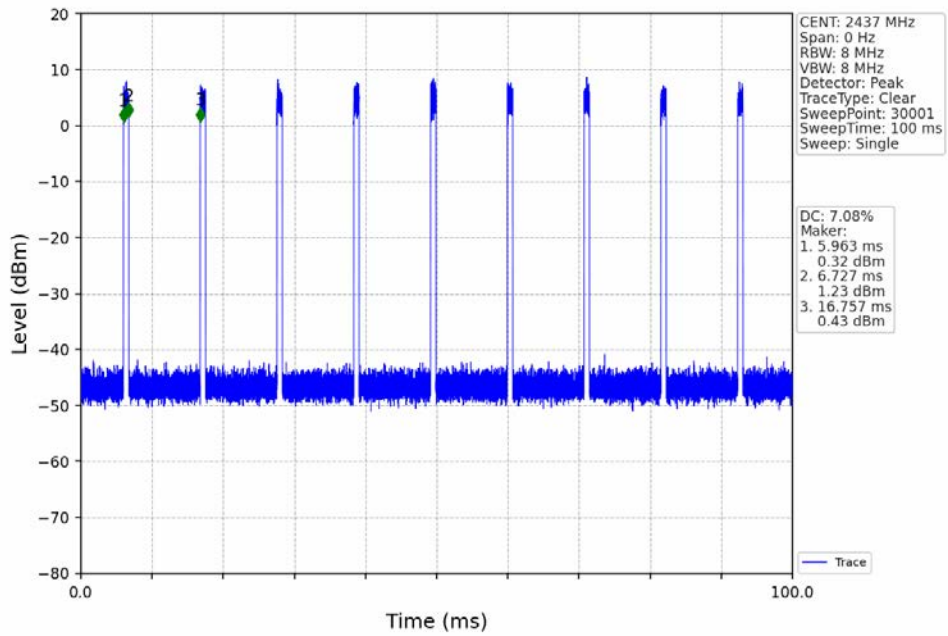
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



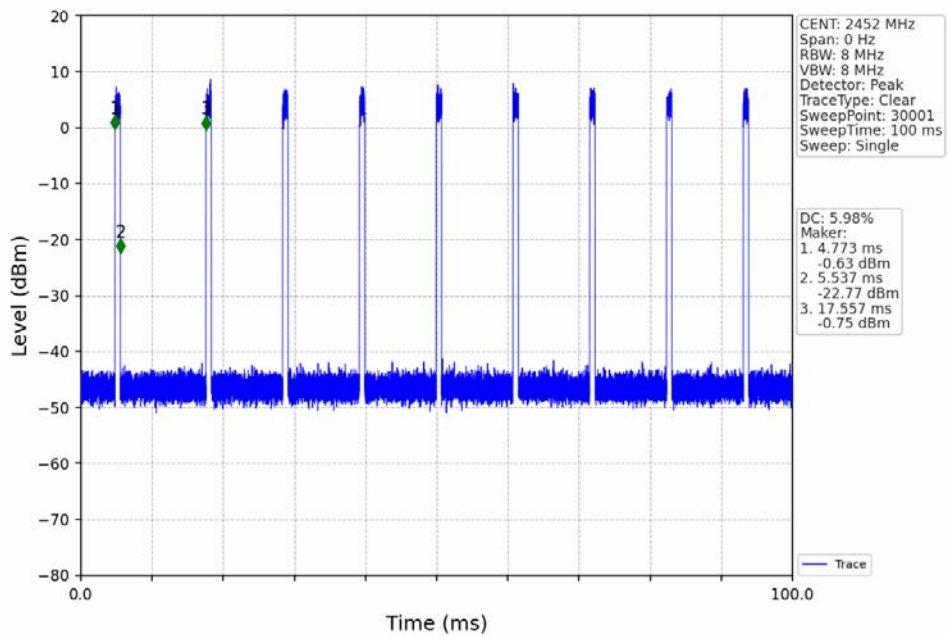
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

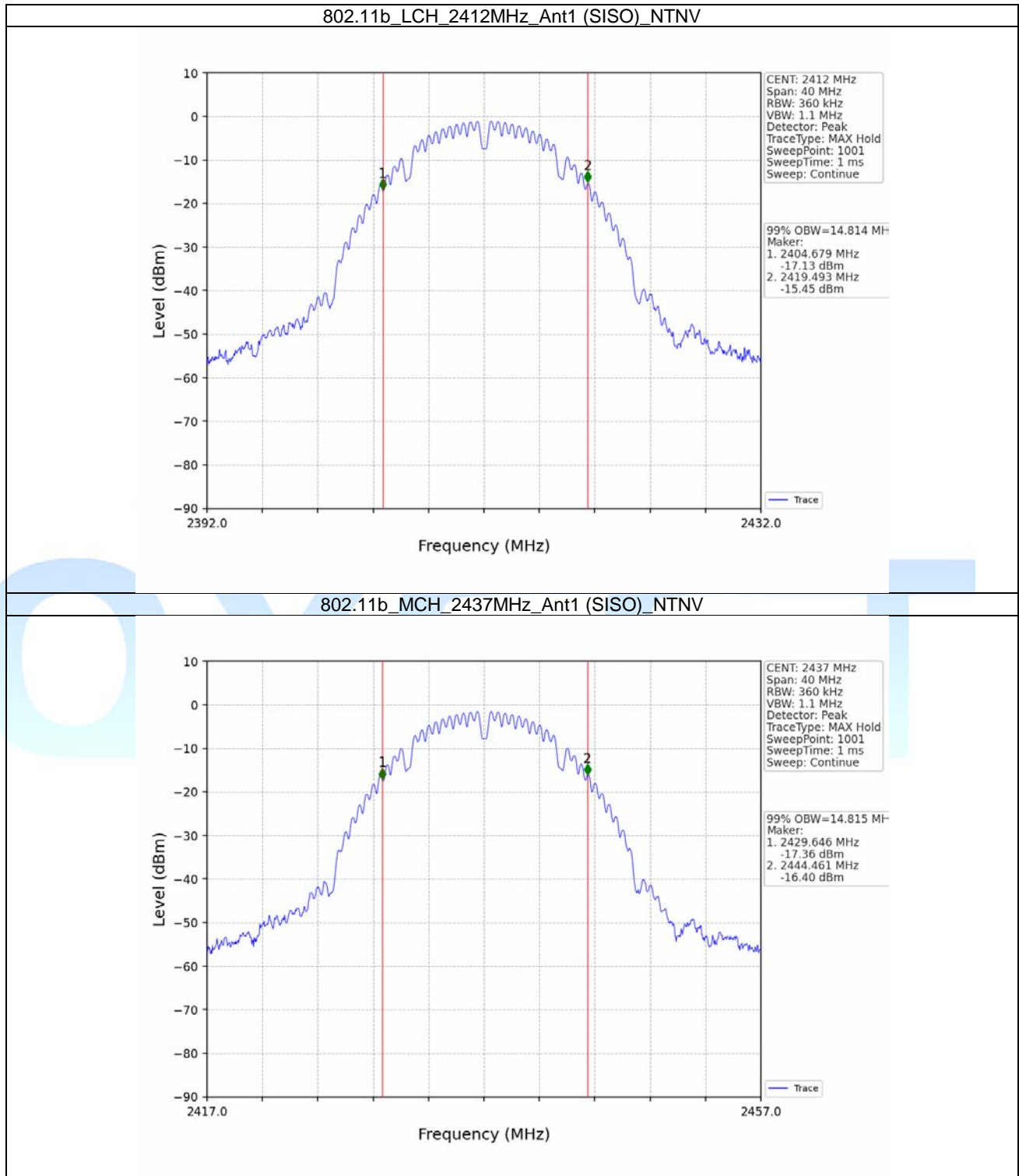
| Mode | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 99% Occupied Bandwidth (MHz) | | Verdict |
|------------------|---------|-----------------|-------|--------|-----|------------------------------|-------|---------|
| | | | | | | Result | Limit | |
| 802.11b | SISO | 2412 | / | / | 1 | 14.814 | / | Pass |
| | | 2437 | / | / | 1 | 14.815 | / | Pass |
| | | 2462 | / | / | 1 | 14.813 | / | Pass |
| 802.11g | SISO | 2412 | / | / | 1 | 18.257 | / | Pass |
| | | 2437 | / | / | 1 | 18.390 | / | Pass |
| | | 2462 | / | / | 1 | 18.349 | / | Pass |
| 802.11n (HT20) | SISO | 2412 | / | / | 1 | 19.240 | / | Pass |
| | | 2437 | / | / | 1 | 19.330 | / | Pass |
| | | 2462 | / | / | 1 | 19.315 | / | Pass |
| 802.11n (HT40) | SISO | 2422 | / | / | 1 | 37.201 | / | Pass |
| | | 2437 | / | / | 1 | 37.284 | / | Pass |
| | | 2452 | / | / | 1 | 37.253 | / | Pass |
| 802.11ax (HEW20) | SISO | 2412 | RU242 | Left | 1 | 19.726 | / | Pass |
| | | 2437 | RU242 | Left | 1 | 19.780 | / | Pass |
| | | 2462 | RU242 | Left | 1 | 19.751 | / | Pass |
| 802.11ax (HEW40) | SISO | 2422 | RU484 | Left | 1 | 38.329 | / | Pass |
| | | 2437 | RU484 | Left | 1 | 38.315 | / | Pass |
| | | 2452 | RU484 | Left | 1 | 38.442 | / | Pass |

2.1.2 6dB BW

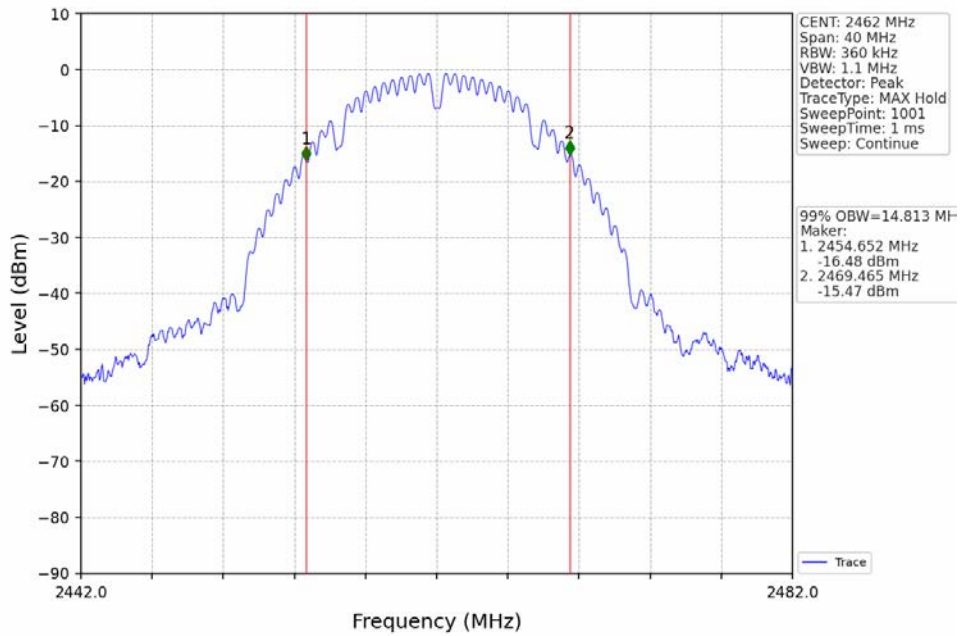
| Mode | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 6dB Bandwidth (MHz) | | Verdict |
|------------------|---------|-----------------|-------|--------|-----|---------------------|-------|---------|
| | | | | | | Result | Limit | |
| 802.11b | SISO | 2412 | / | / | 1 | 10.066 | >=0.5 | Pass |
| | | 2437 | / | / | 1 | 9.121 | >=0.5 | Pass |
| | | 2462 | / | / | 1 | 9.588 | >=0.5 | Pass |
| 802.11g | SISO | 2412 | / | / | 1 | 15.528 | >=0.5 | Pass |
| | | 2437 | / | / | 1 | 15.450 | >=0.5 | Pass |
| | | 2462 | / | / | 1 | 15.501 | >=0.5 | Pass |
| 802.11n (HT20) | SISO | 2412 | / | / | 1 | 16.064 | >=0.5 | Pass |
| | | 2437 | / | / | 1 | 15.346 | >=0.5 | Pass |
| | | 2462 | / | / | 1 | 15.738 | >=0.5 | Pass |
| 802.11n (HT40) | SISO | 2422 | / | / | 1 | 35.157 | >=0.5 | Pass |
| | | 2437 | / | / | 1 | 35.163 | >=0.5 | Pass |
| | | 2452 | / | / | 1 | 35.141 | >=0.5 | Pass |
| 802.11ax (HEW20) | SISO | 2412 | RU242 | Left | 1 | 17.554 | >=0.5 | Pass |
| | | 2437 | RU242 | Left | 1 | 17.045 | >=0.5 | Pass |
| | | 2462 | RU242 | Left | 1 | 16.372 | >=0.5 | Pass |
| 802.11ax (HEW40) | SISO | 2422 | RU484 | Left | 1 | 35.603 | >=0.5 | Pass |
| | | 2437 | RU484 | Left | 1 | 36.351 | >=0.5 | Pass |
| | | 2452 | RU484 | Left | 1 | 36.373 | >=0.5 | Pass |

2.2 Test Graph

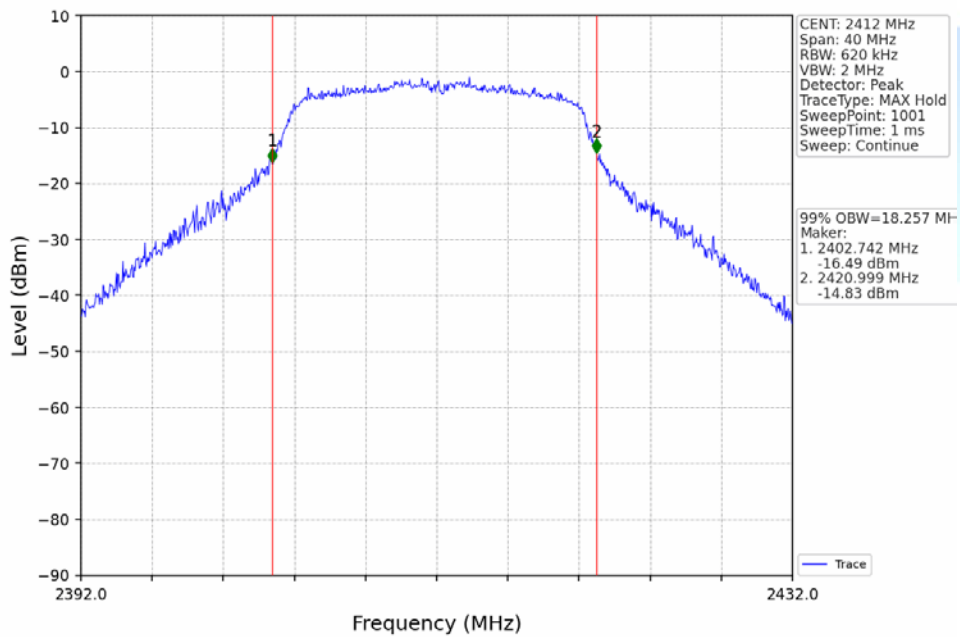
2.2.1 OBW



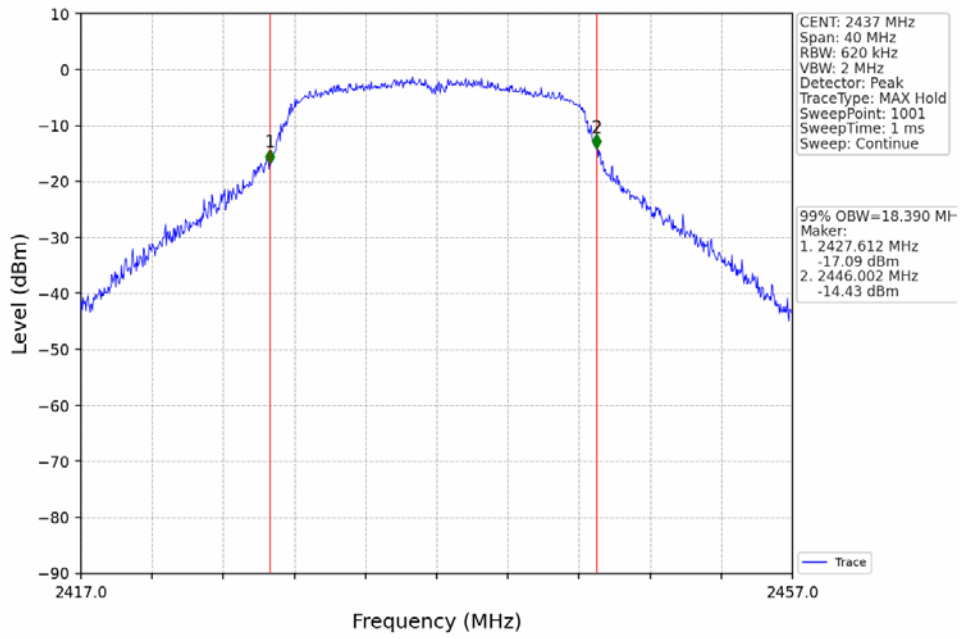
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



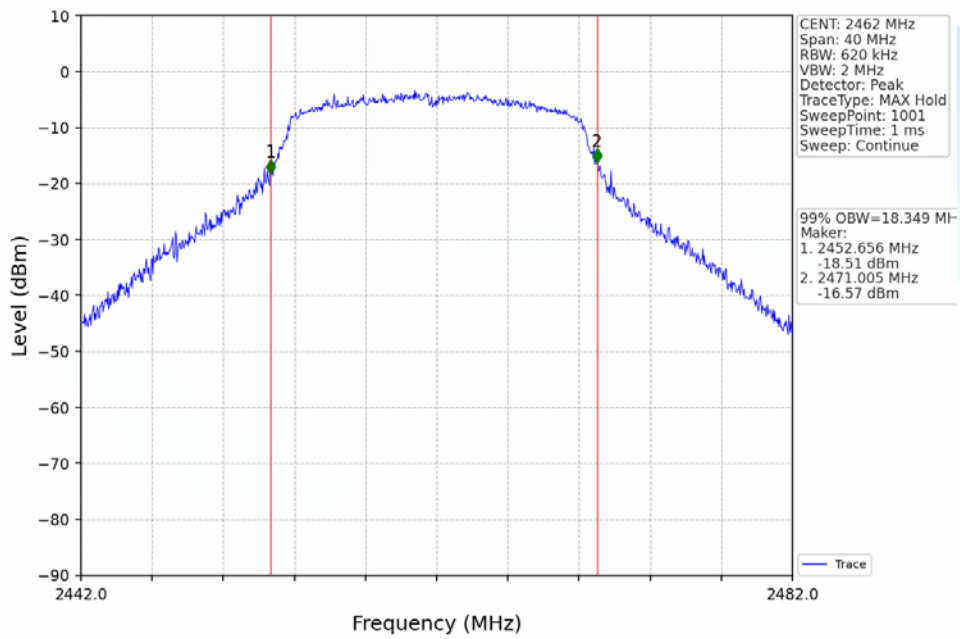
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



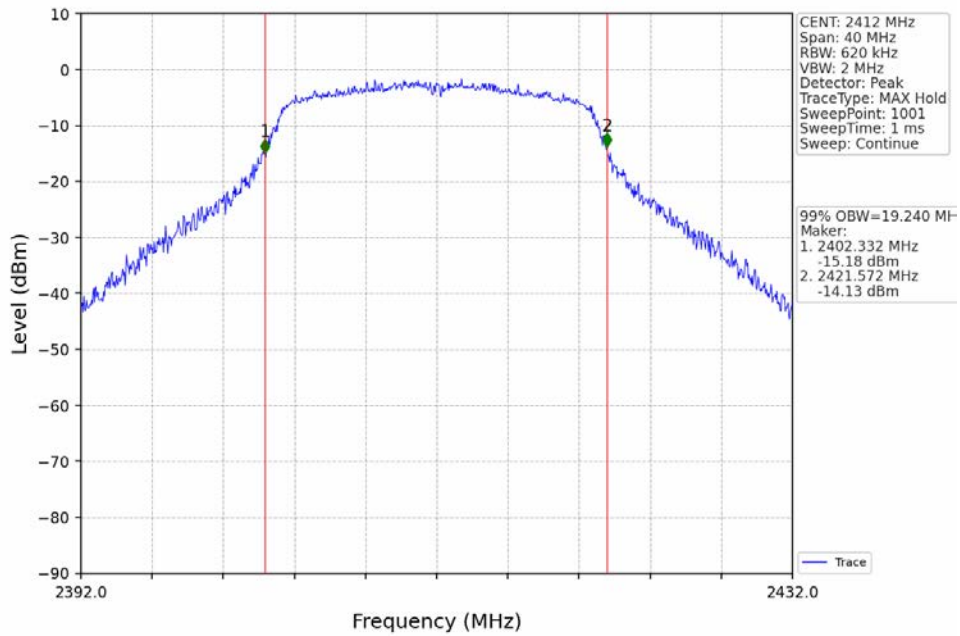
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



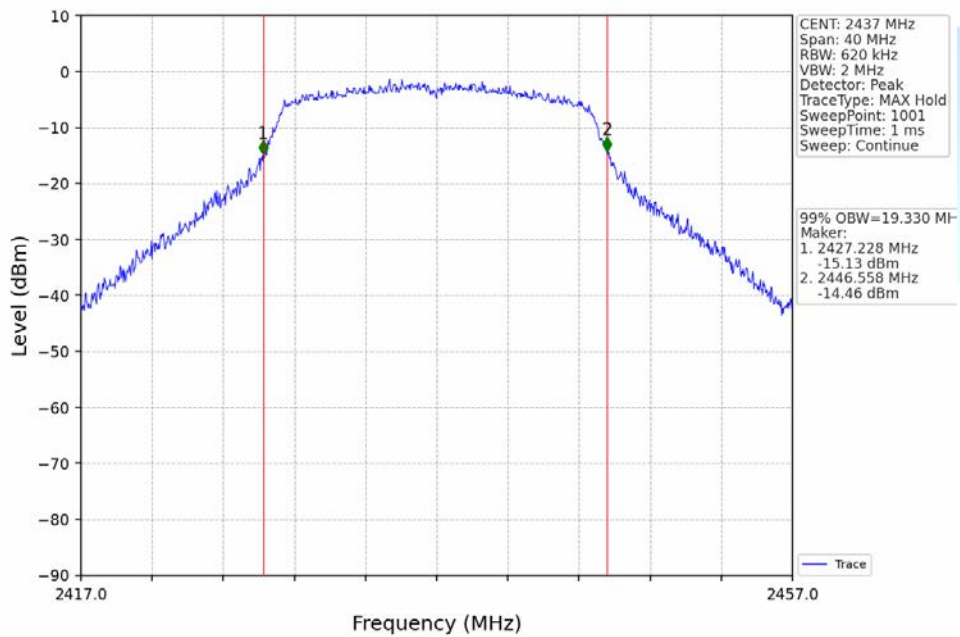
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



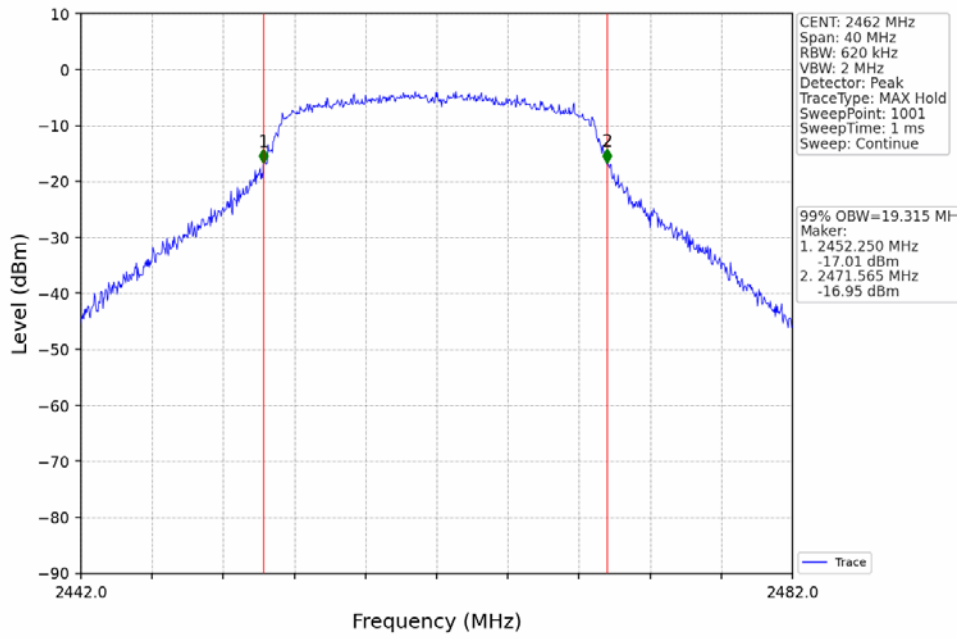
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



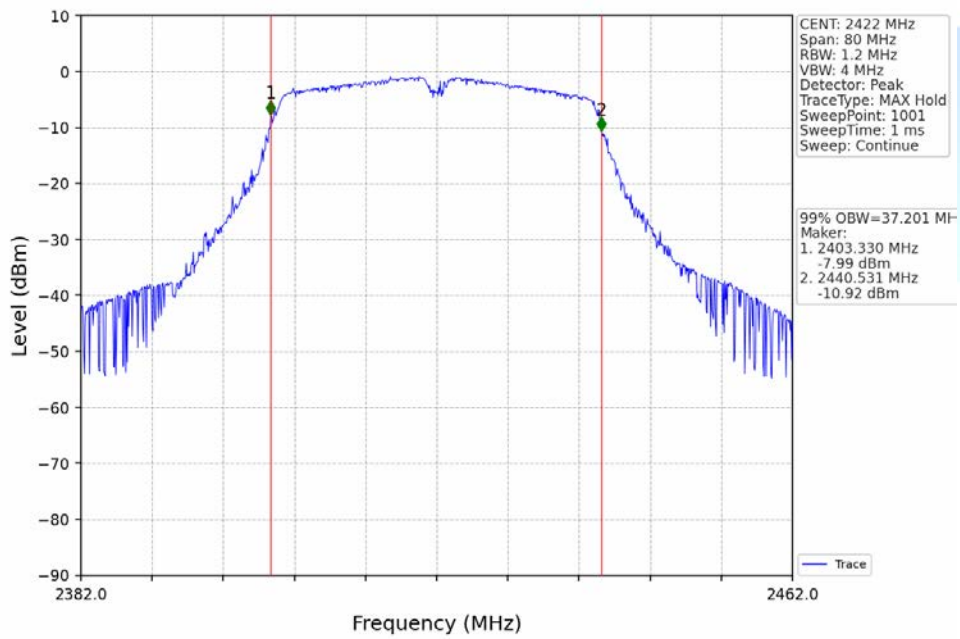
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



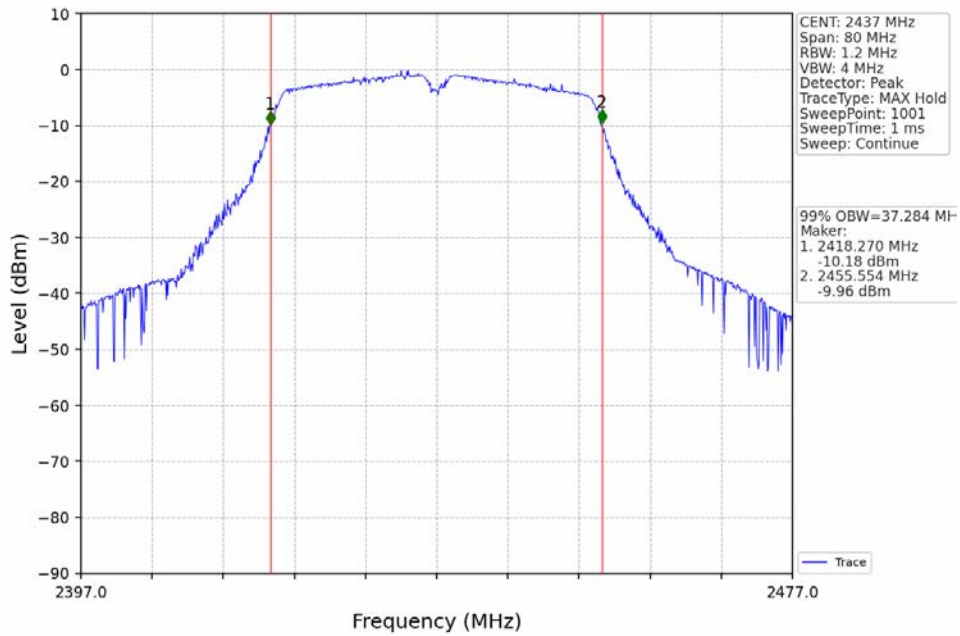
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



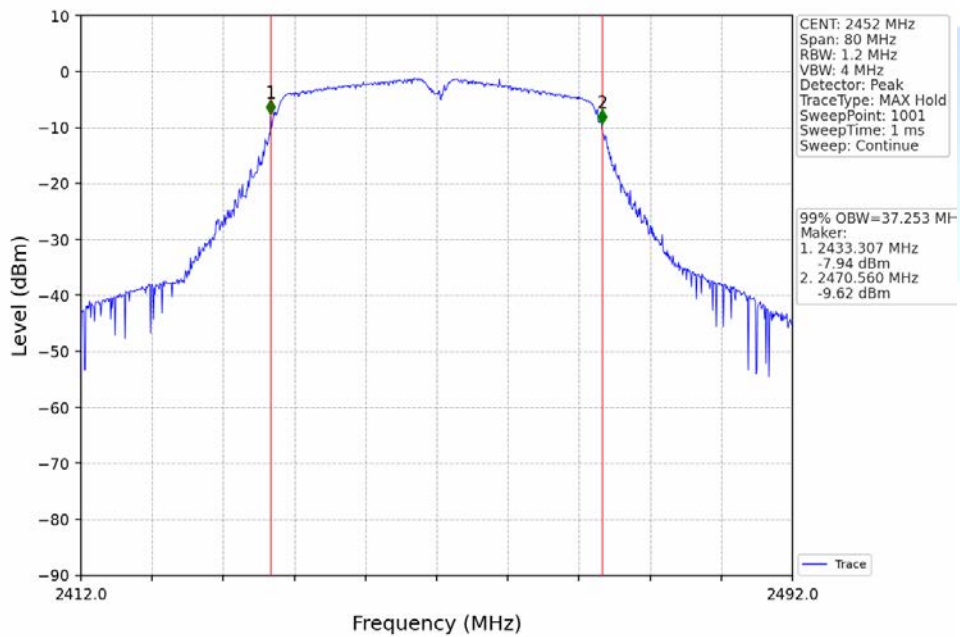
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



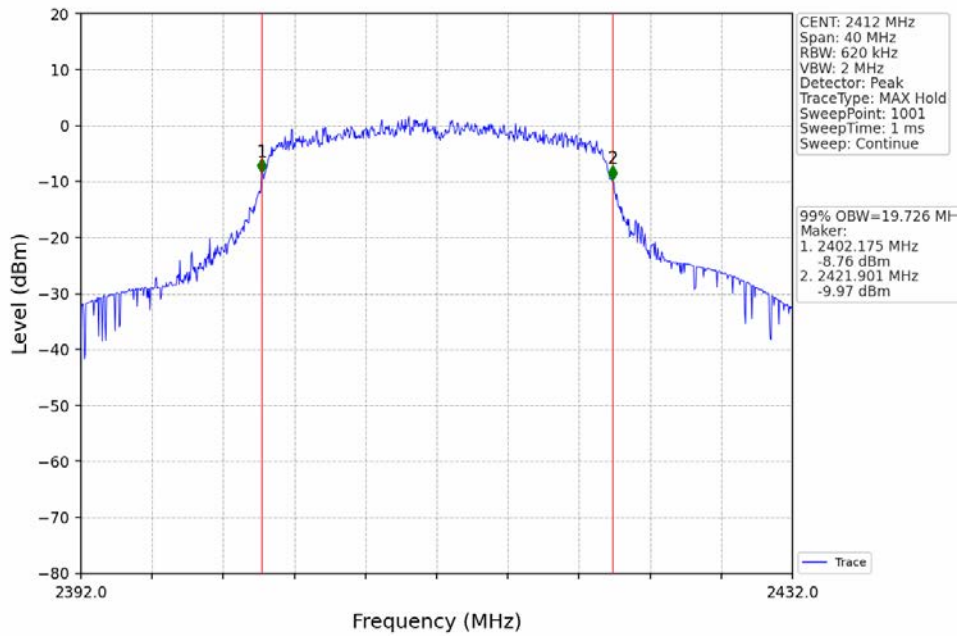
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



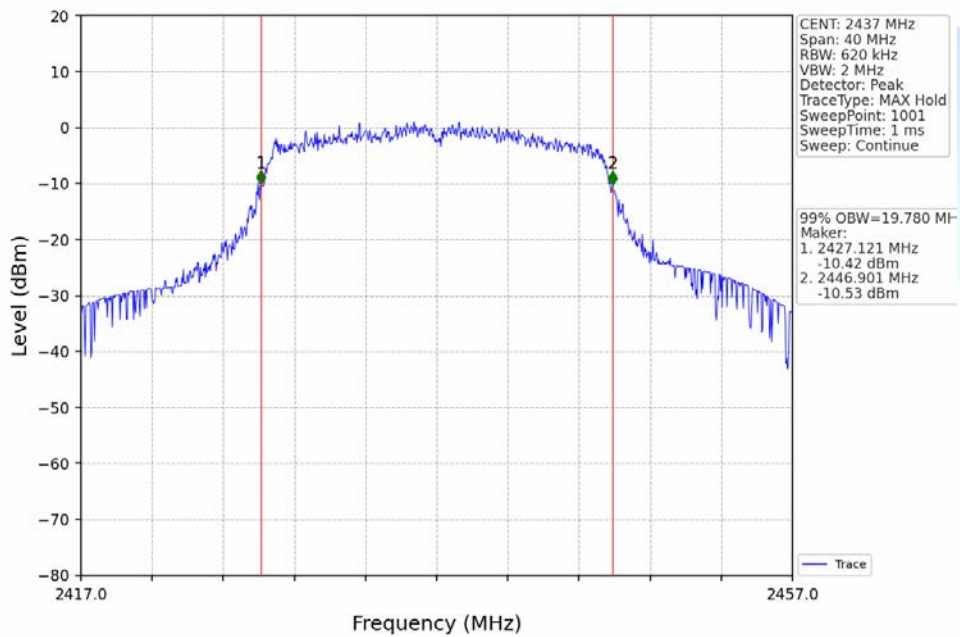
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



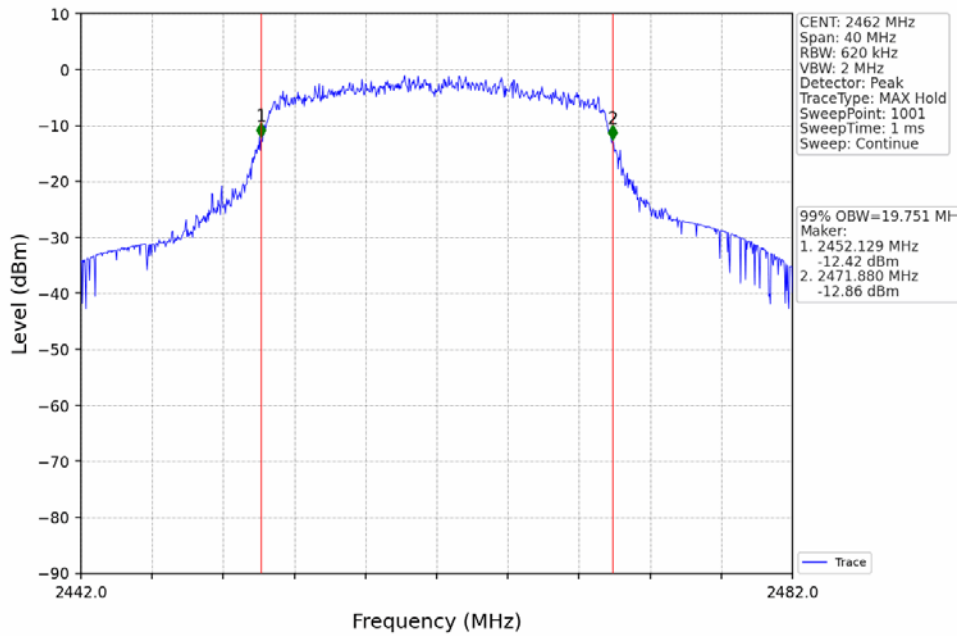
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



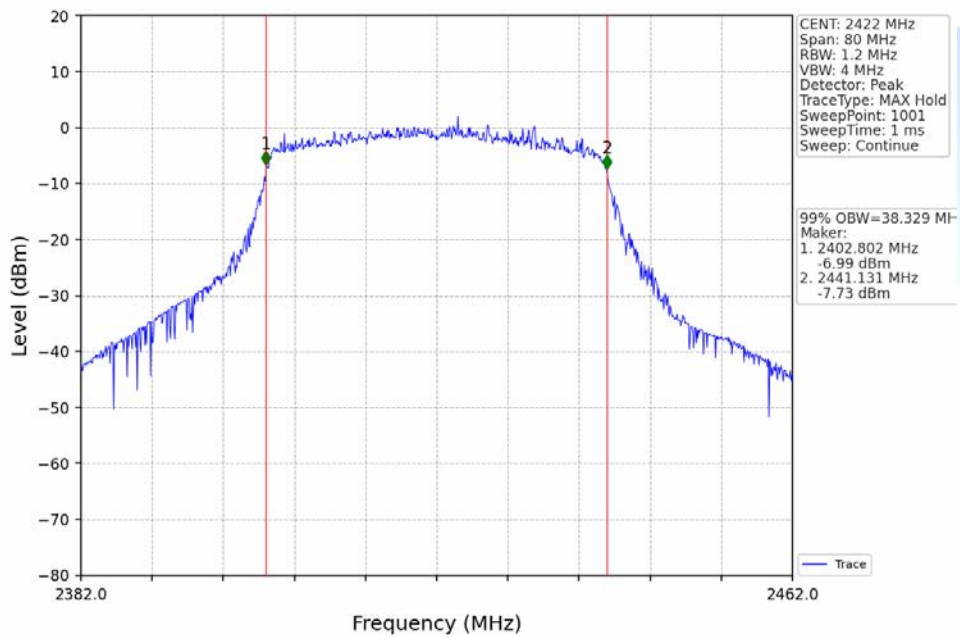
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



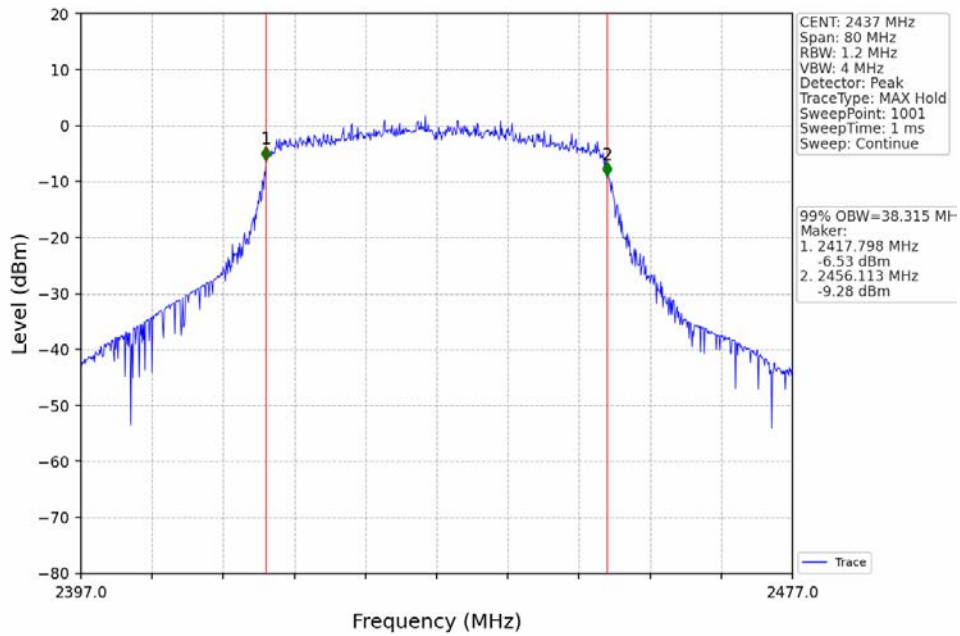
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



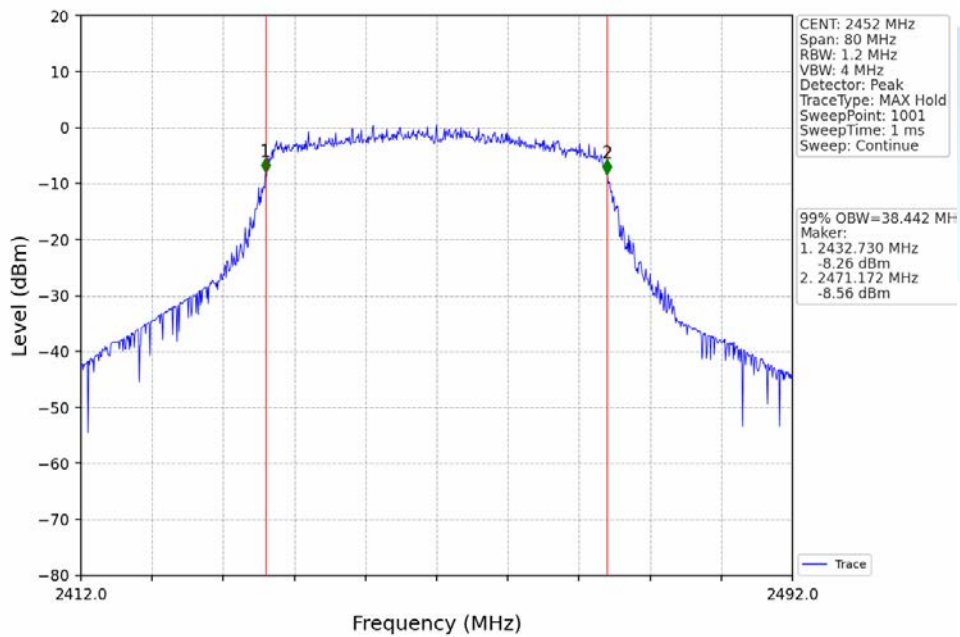
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



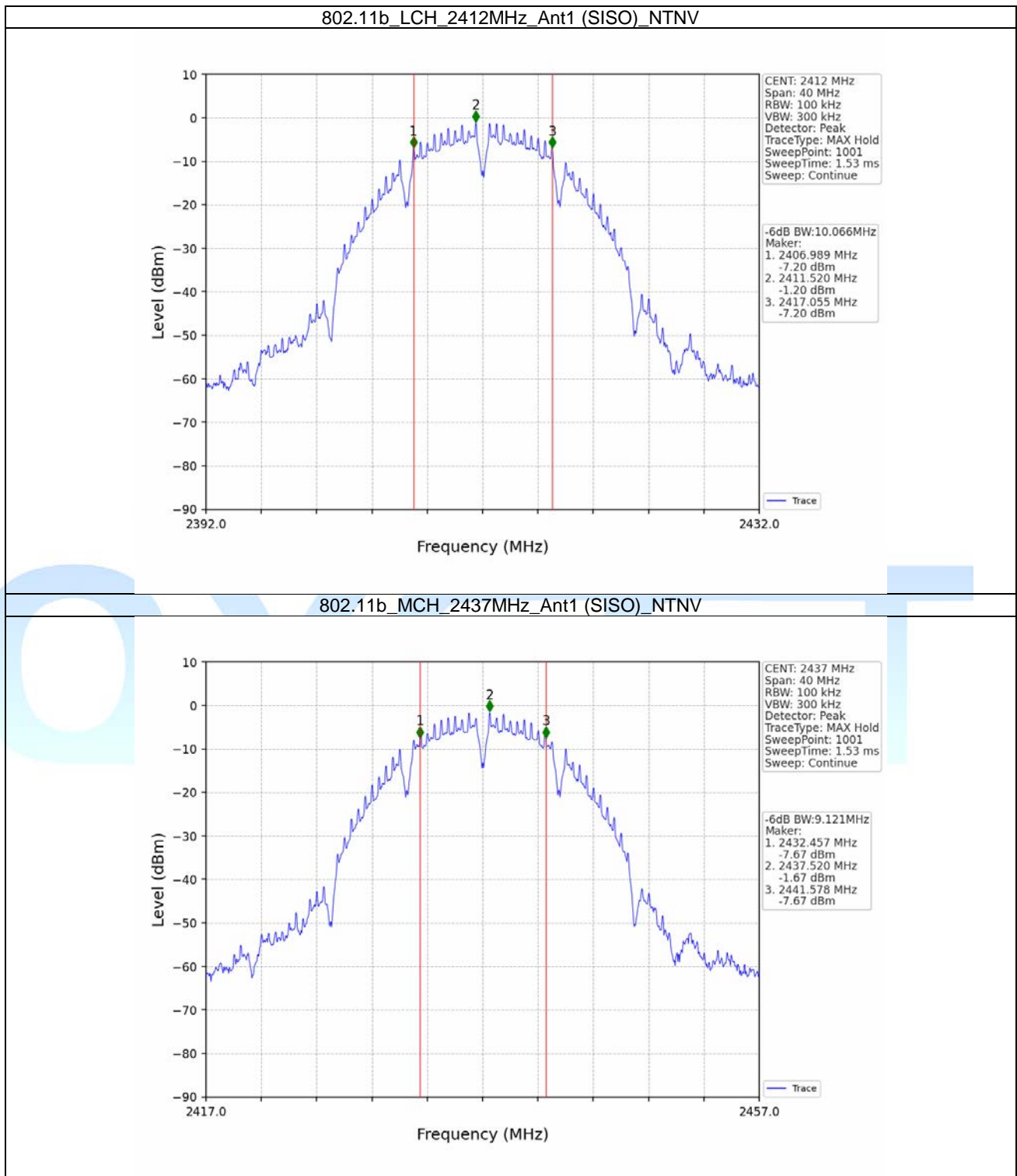
802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



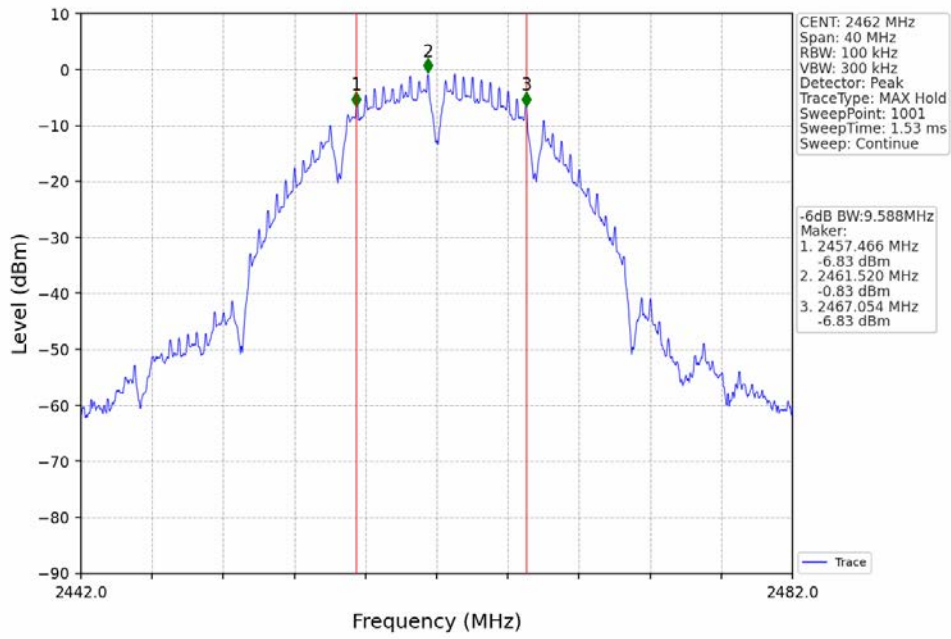
802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



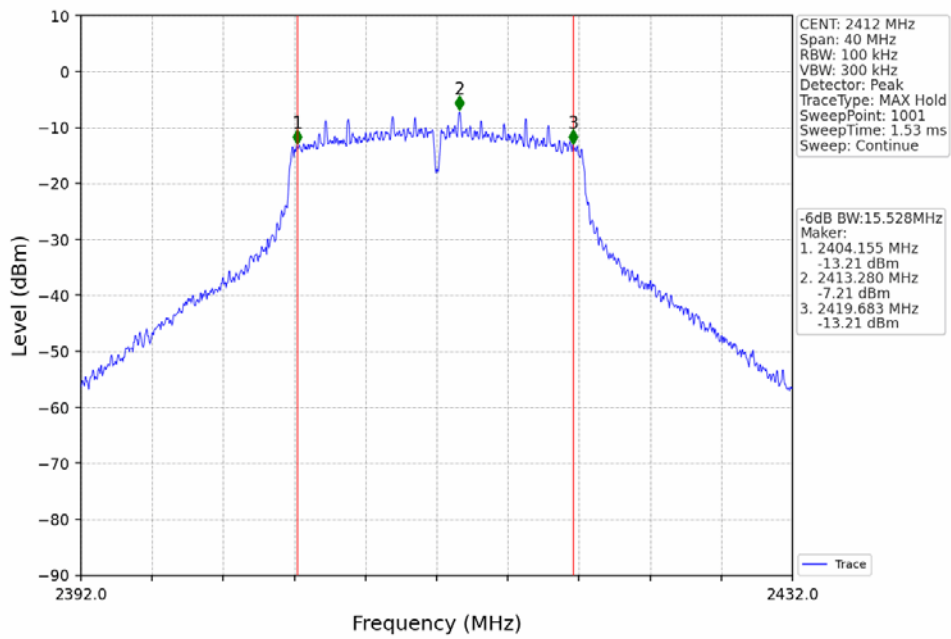
2.2.2 6dB BW



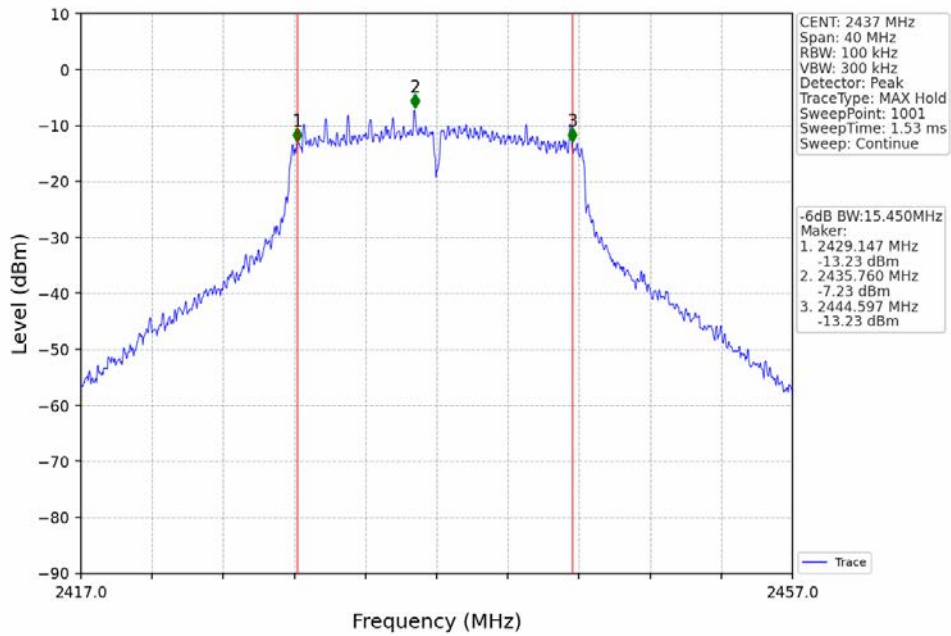
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



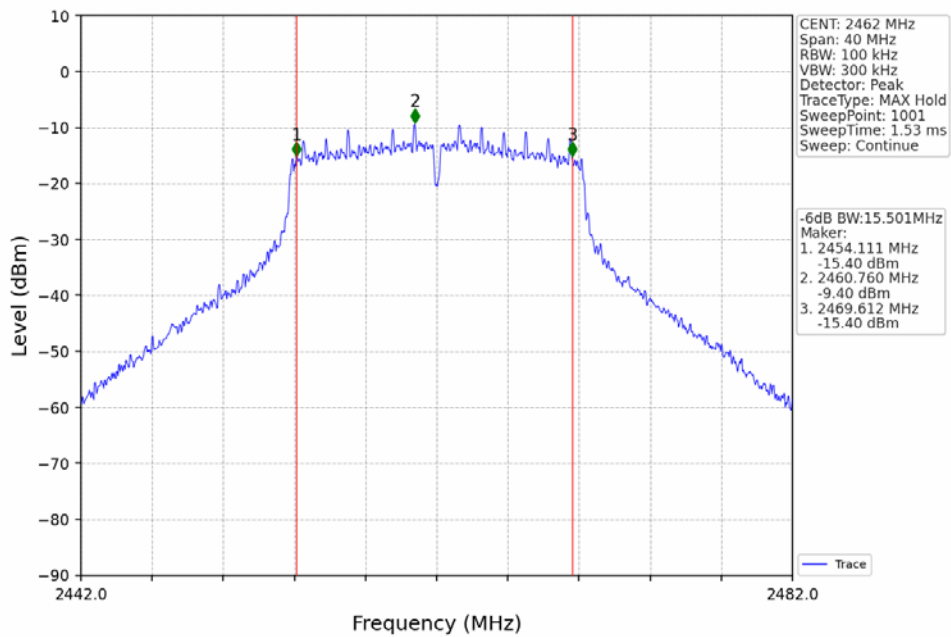
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



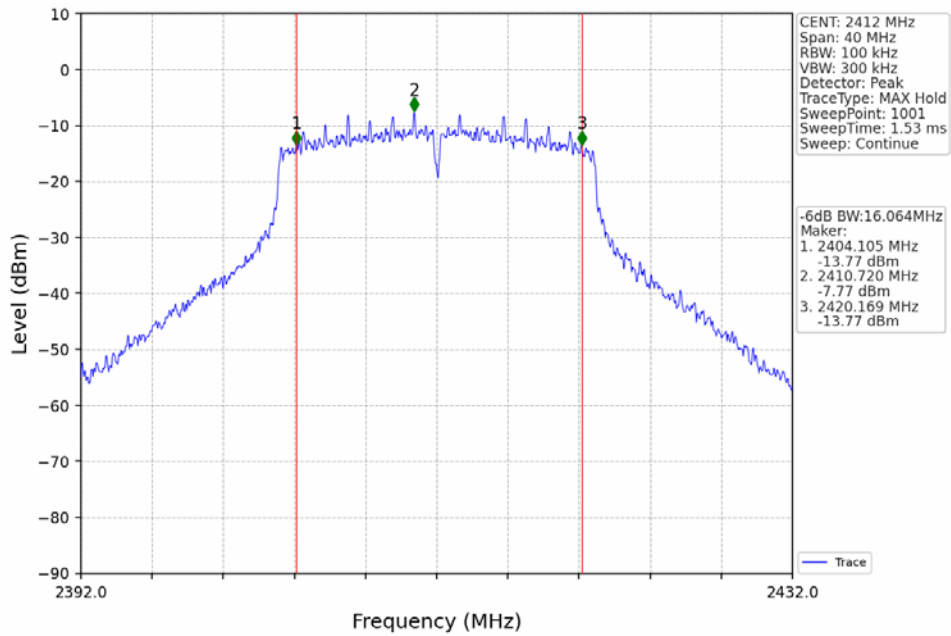
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



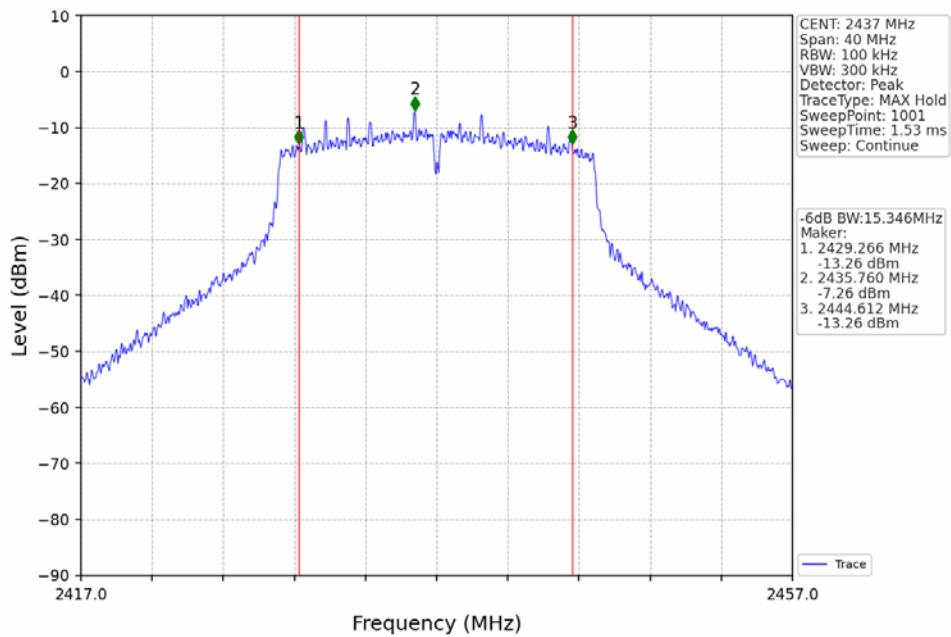
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



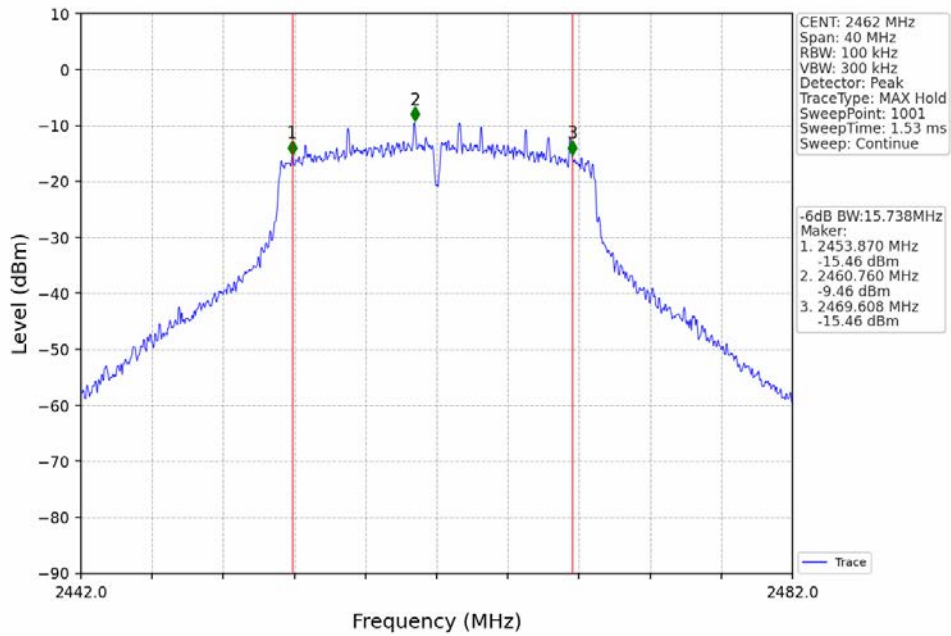
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



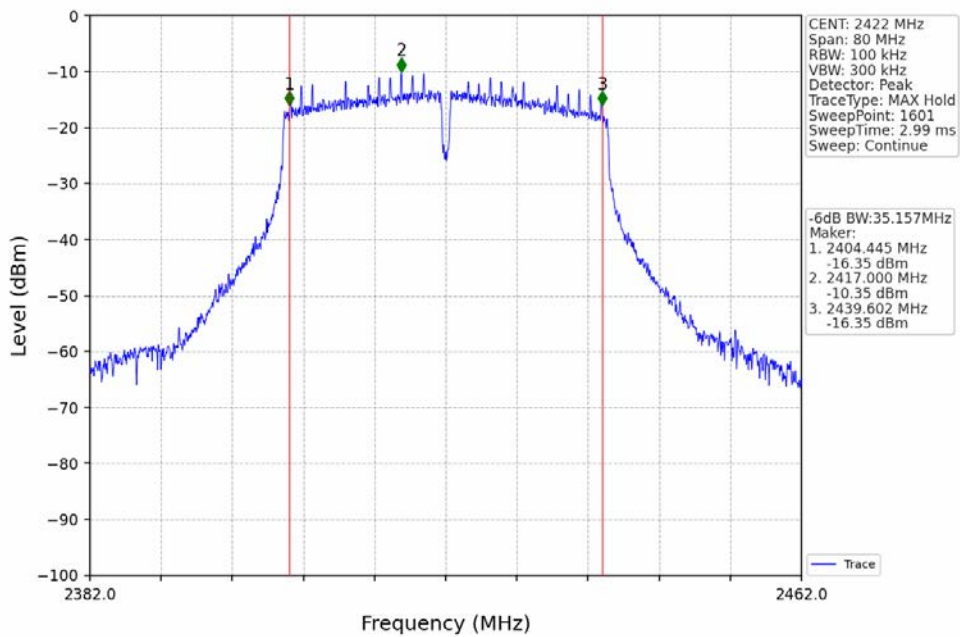
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



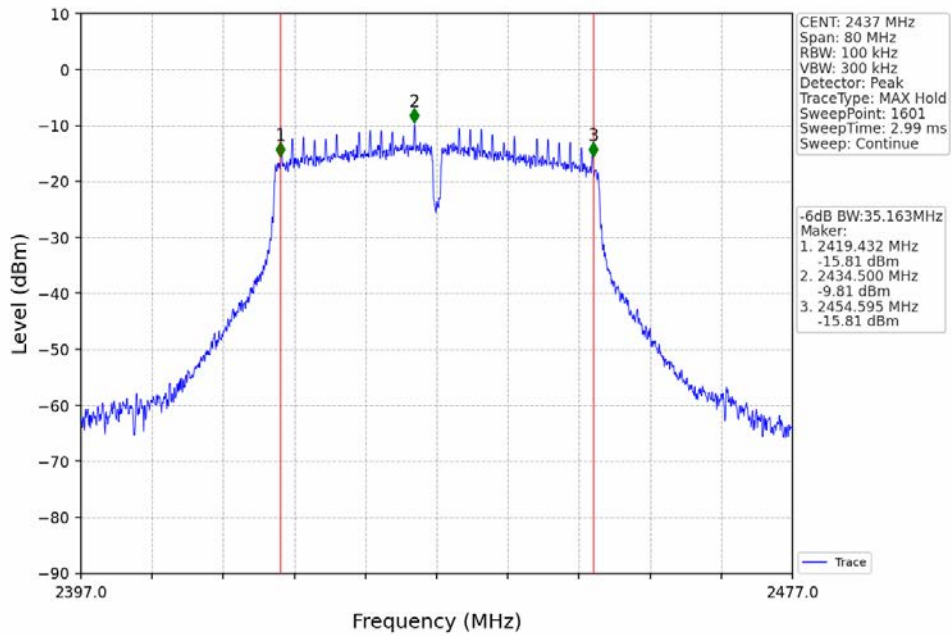
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



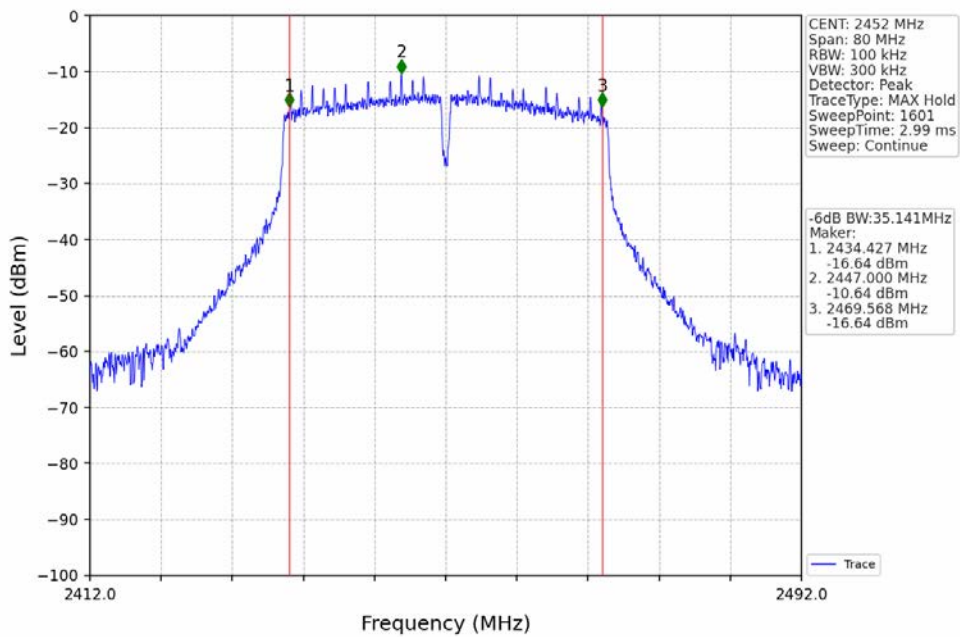
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



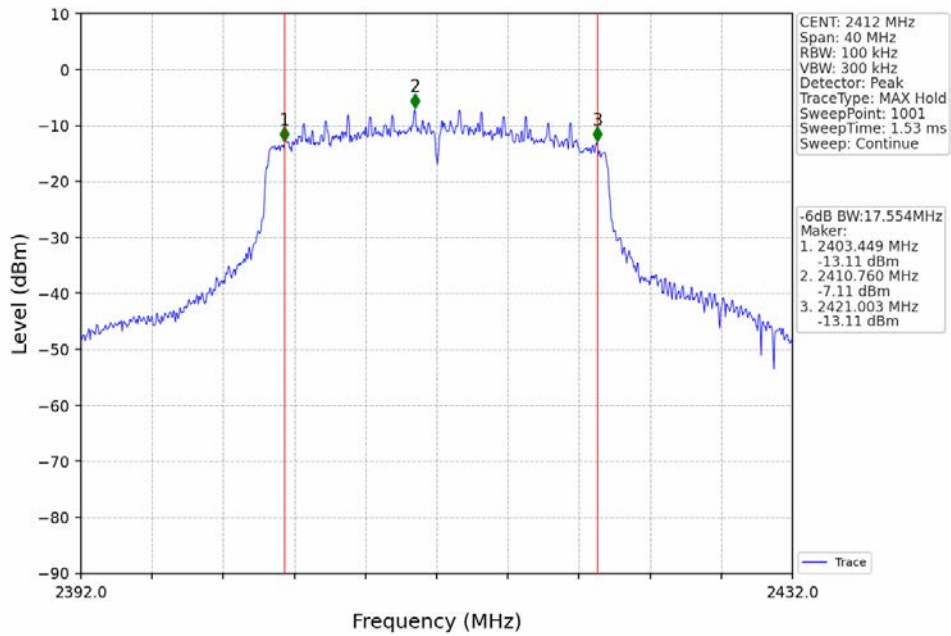
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



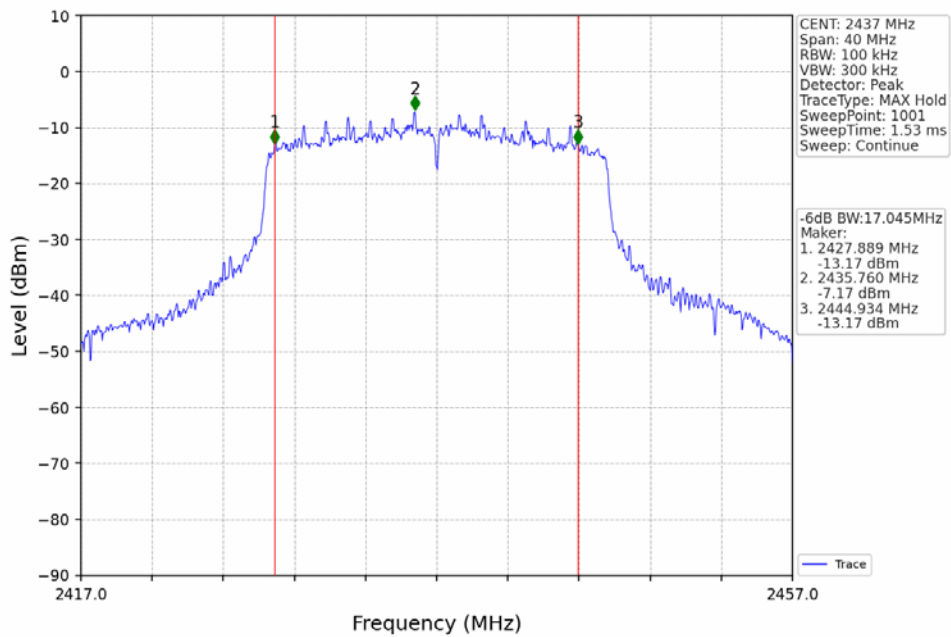
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



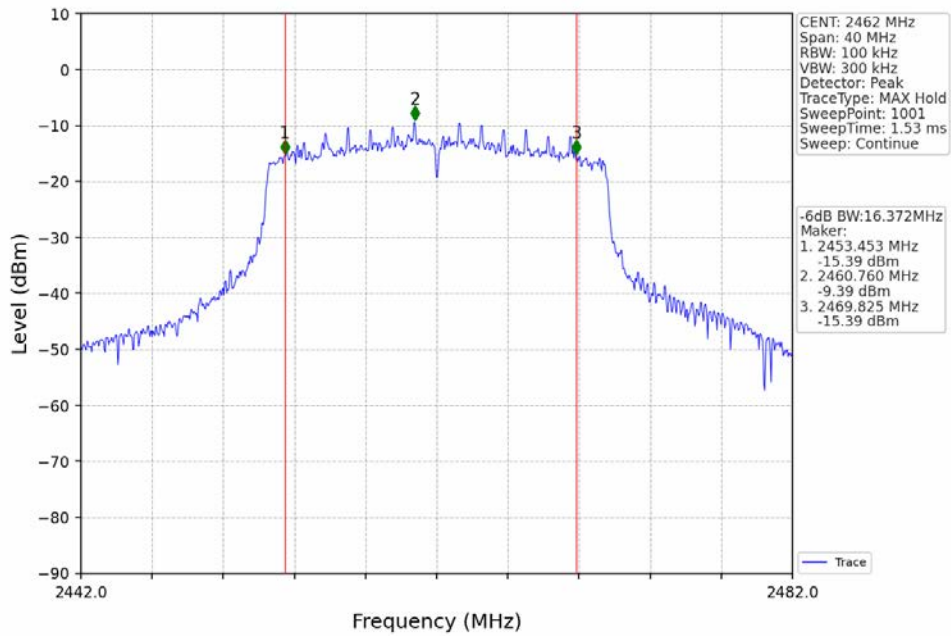
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



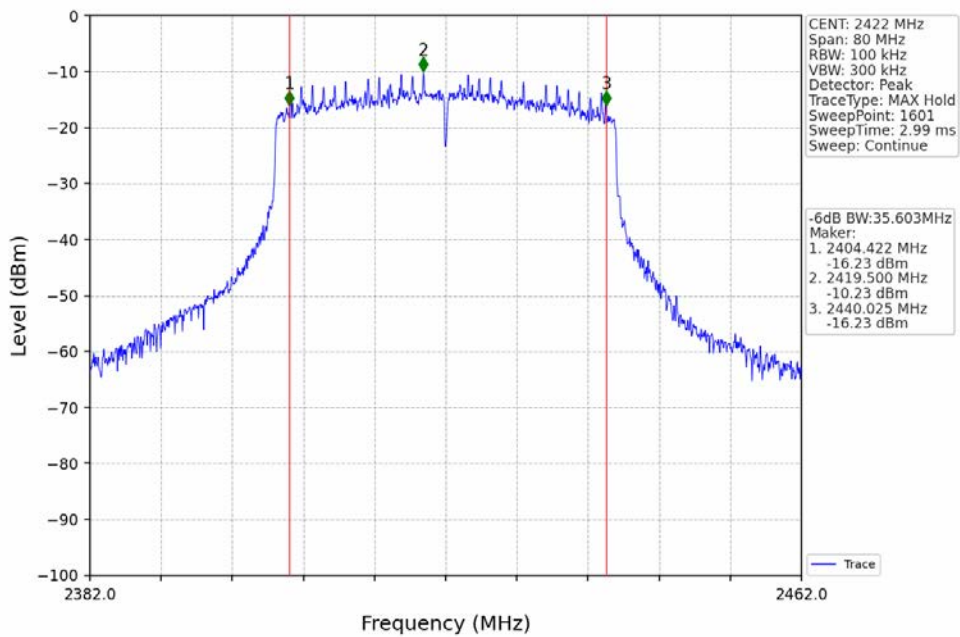
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



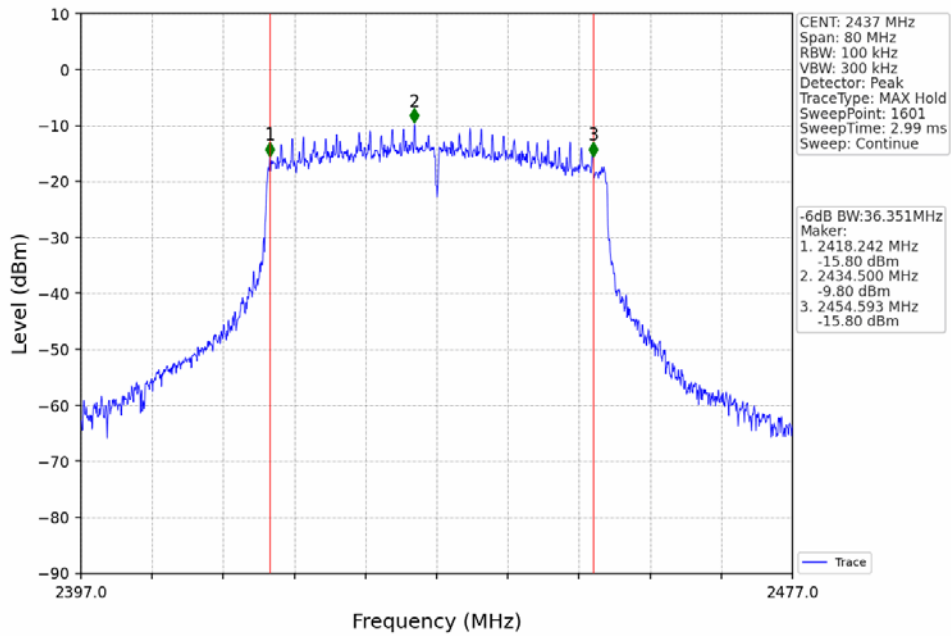
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



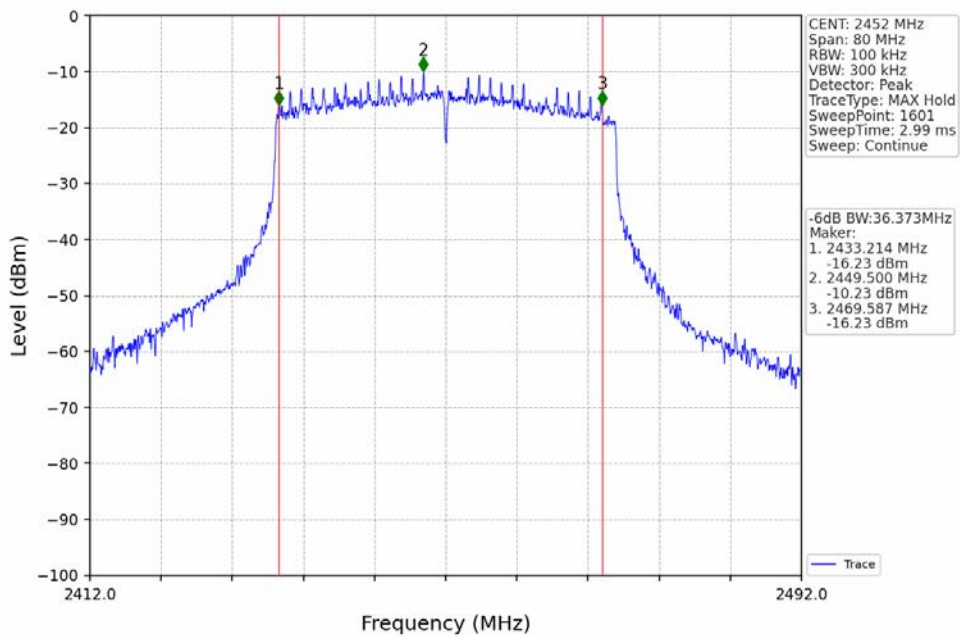
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

| Mode | TX Type | Frequency (MHz) | RU | RU Pos | Maximum Peak Conducted Output Power (dBm) | | Verdict |
|------------------|---------|-----------------|-------|--------|---|-------|---------|
| | | | | | ANT1 | Limit | |
| 802.11b | SISO | 2412 | / | / | 9.98 | <=30 | Pass |
| | | 2437 | / | / | 9.35 | <=30 | Pass |
| | | 2462 | / | / | 10.35 | <=30 | Pass |
| 802.11g | SISO | 2412 | / | / | 10.97 | <=30 | Pass |
| | | 2437 | / | / | 10.87 | <=30 | Pass |
| | | 2462 | / | / | 10.82 | <=30 | Pass |
| 802.11n (HT20) | SISO | 2412 | / | / | 10.89 | <=30 | Pass |
| | | 2437 | / | / | 10.53 | <=30 | Pass |
| | | 2462 | / | / | 10.50 | <=30 | Pass |
| 802.11n (HT40) | SISO | 2422 | / | / | 10.50 | <=30 | Pass |
| | | 2437 | / | / | 10.79 | <=30 | Pass |
| | | 2452 | / | / | 10.29 | <=30 | Pass |
| 802.11ax (HEW20) | SISO | 2412 | RU242 | Left | 11.60 | <=30 | Pass |
| | | 2437 | RU242 | Left | 11.74 | <=30 | Pass |
| | | 2462 | RU242 | Left | 10.45 | <=30 | Pass |
| 802.11ax (HEW40) | SISO | 2422 | RU484 | Left | 11.62 | <=30 | Pass |
| | | 2437 | RU484 | Left | 11.69 | <=30 | Pass |
| | | 2452 | RU484 | Left | 11.05 | <=30 | Pass |

Note1: Antenna Gain: Ant1: 1.69dBi;

4. Maximum Power Spectral Density

4.1 Test Result

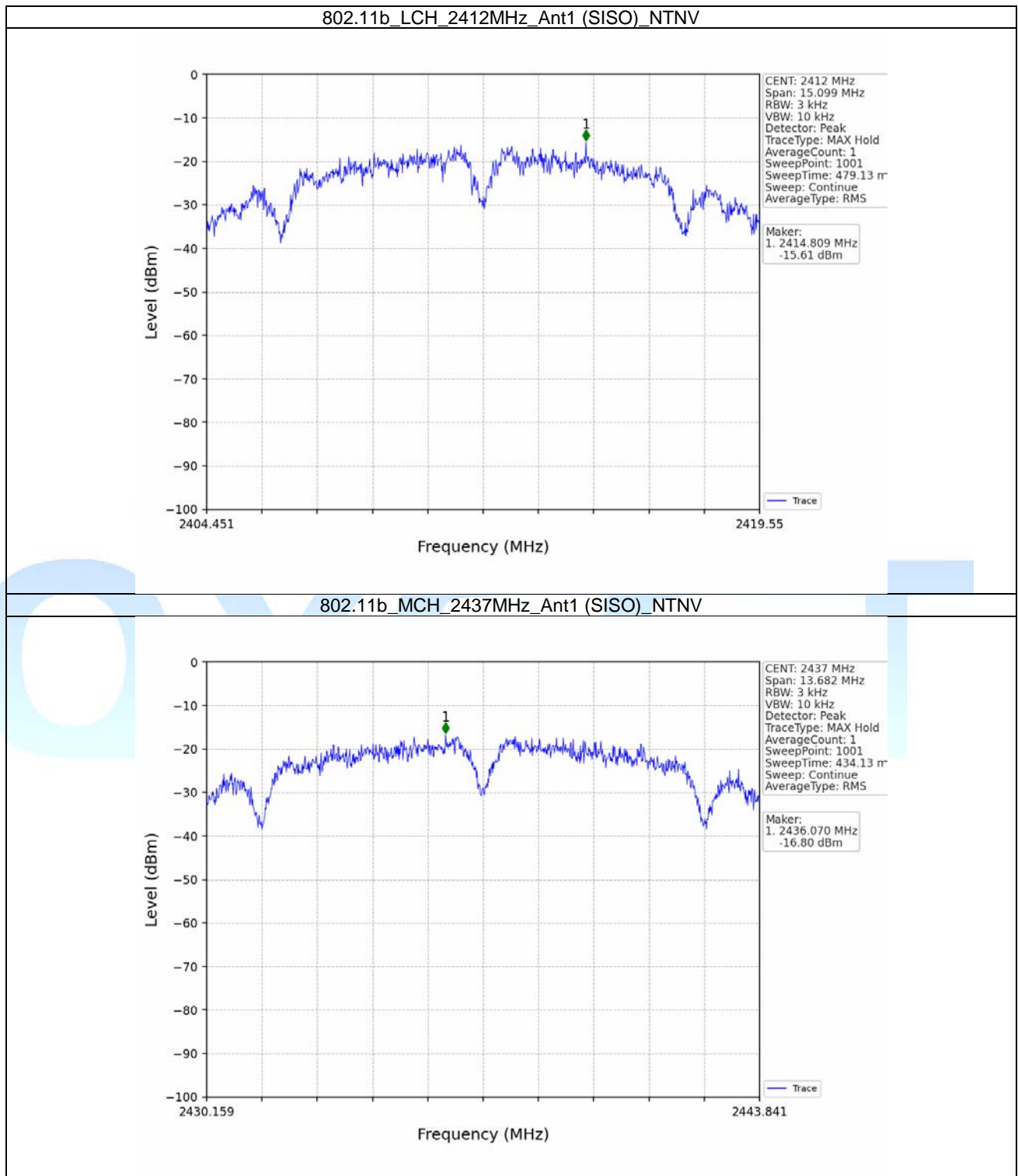
4.1.1 PSD

| Mode | TX Type | Frequency (MHz) | RU | RU Pos | Maximum PSD (dBm/3kHz) | | Verdict |
|------------------|---------|-----------------|-------|--------|------------------------|-------|---------|
| | | | | | ANT1 | Limit | |
| 802.11b | SISO | 2412 | / | / | -15.61 | <=8 | Pass |
| | | 2437 | / | / | -16.80 | <=8 | Pass |
| | | 2462 | / | / | -15.57 | <=8 | Pass |
| 802.11g | SISO | 2412 | / | / | -21.07 | <=8 | Pass |
| | | 2437 | / | / | -21.20 | <=8 | Pass |
| | | 2462 | / | / | -24.71 | <=8 | Pass |
| 802.11n (HT20) | SISO | 2412 | / | / | -22.50 | <=8 | Pass |
| | | 2437 | / | / | -21.18 | <=8 | Pass |
| | | 2462 | / | / | -23.89 | <=8 | Pass |
| 802.11n (HT40) | SISO | 2422 | / | / | -24.74 | <=8 | Pass |
| | | 2437 | / | / | -24.82 | <=8 | Pass |
| | | 2452 | / | / | -25.06 | <=8 | Pass |
| 802.11ax (HEW20) | SISO | 2412 | RU242 | Left | -22.57 | <=8 | Pass |
| | | 2437 | RU242 | Left | -23.55 | <=8 | Pass |
| | | 2462 | RU242 | Left | -24.30 | <=8 | Pass |
| 802.11ax (HEW40) | SISO | 2422 | RU484 | Left | -26.19 | <=8 | Pass |
| | | 2437 | RU484 | Left | -26.81 | <=8 | Pass |
| | | 2452 | RU484 | Left | -26.79 | <=8 | Pass |

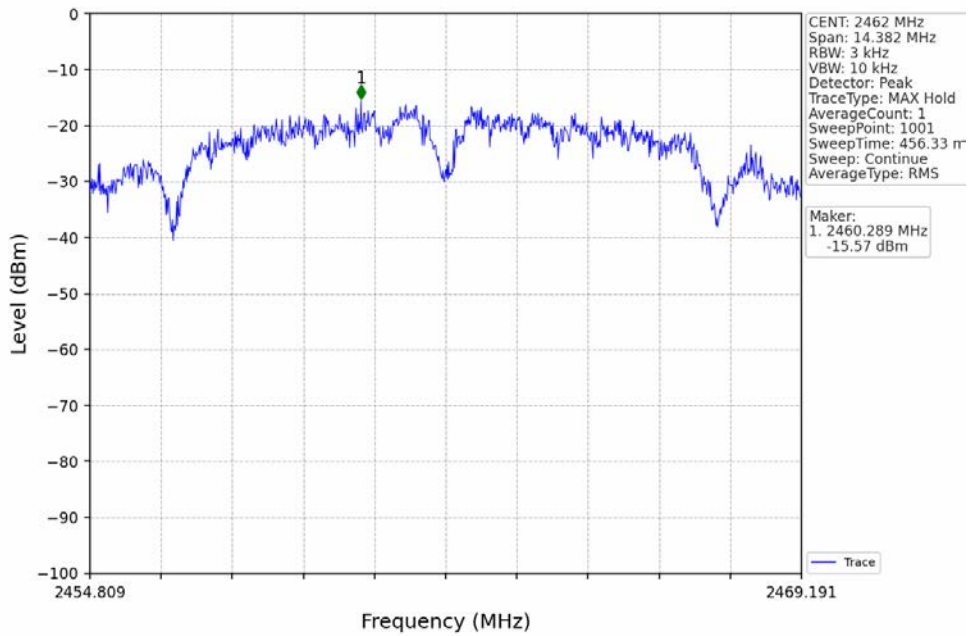
Note1: Antenna Gain: Ant1: 1.69dBi;

4.2 Test Graph

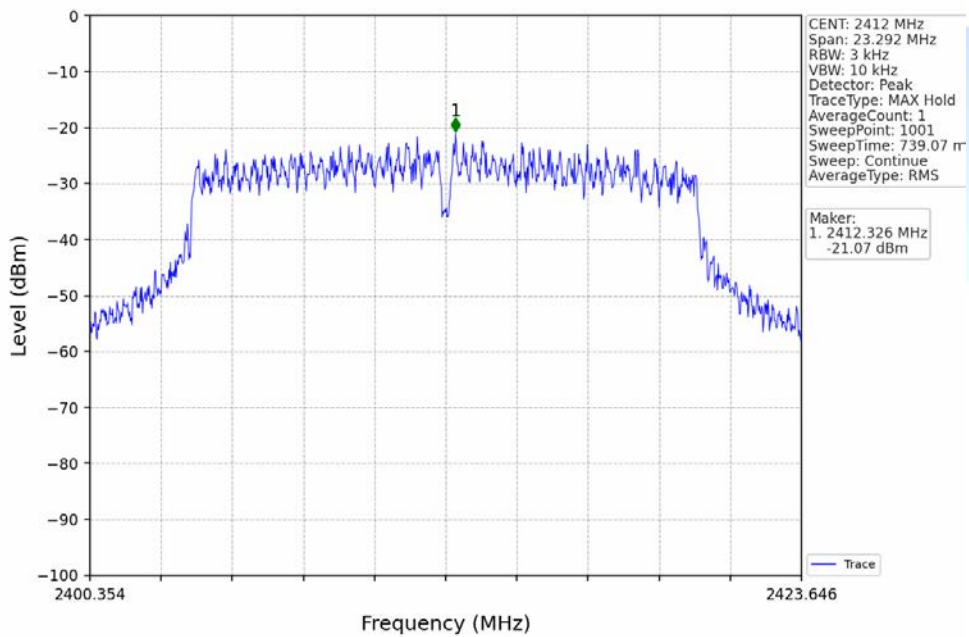
4.2.1 PSD



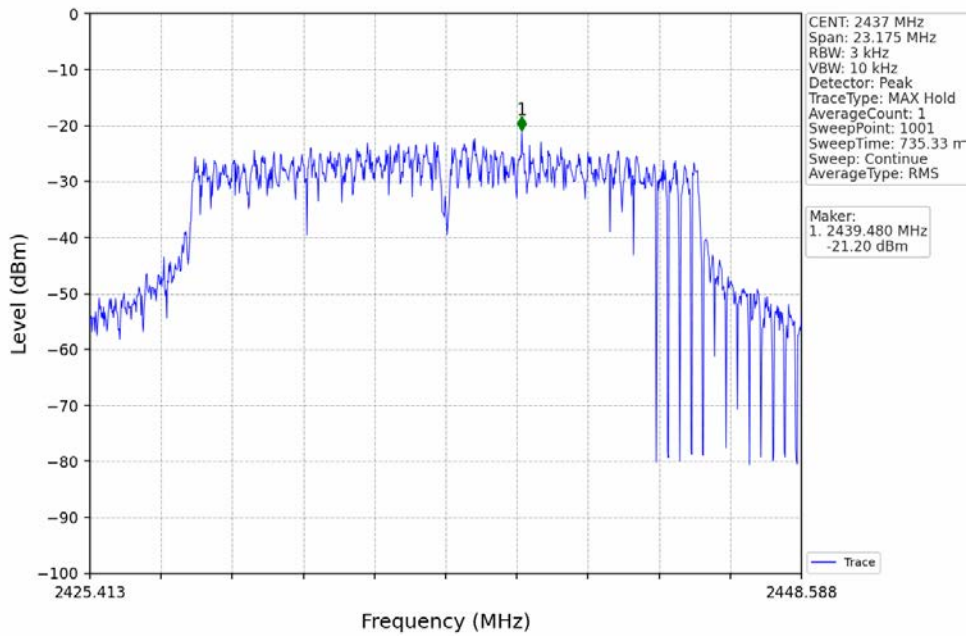
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



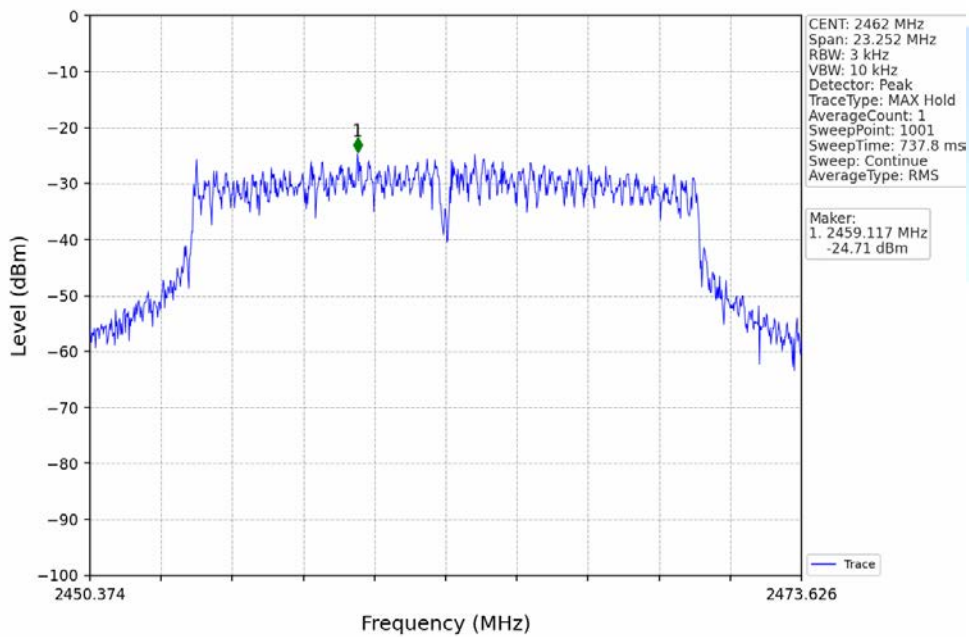
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



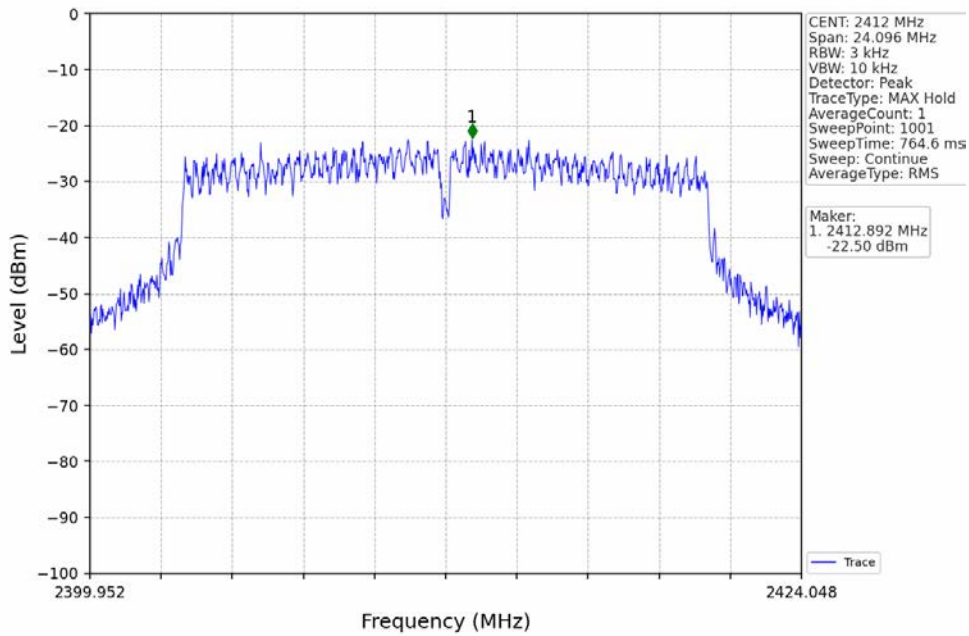
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



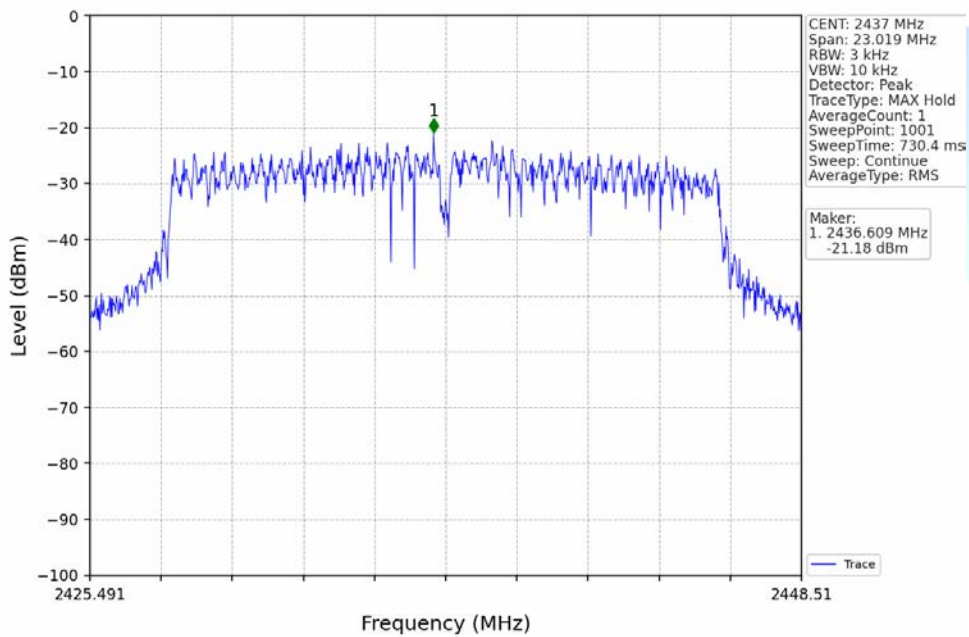
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



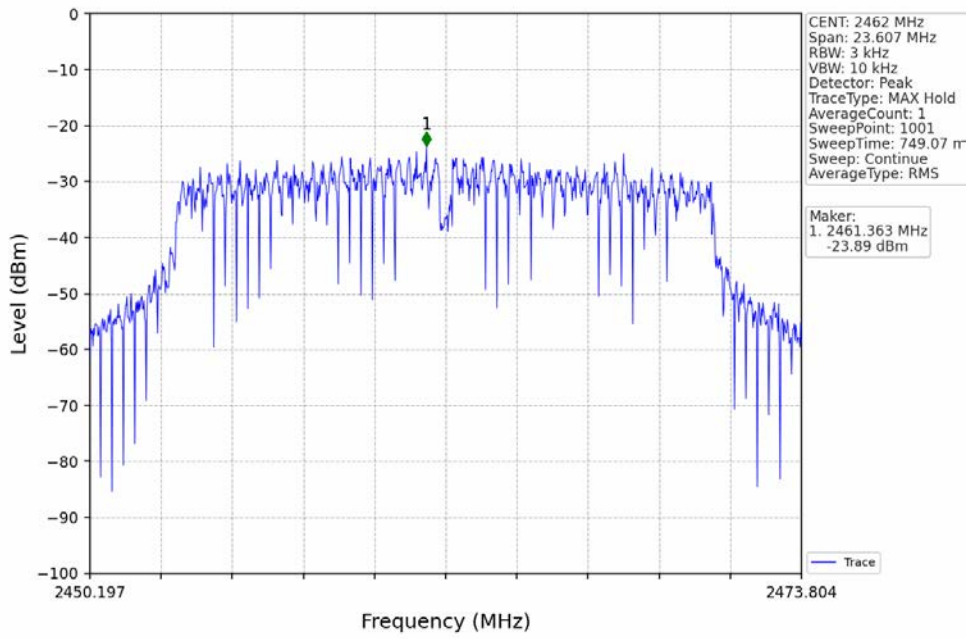
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



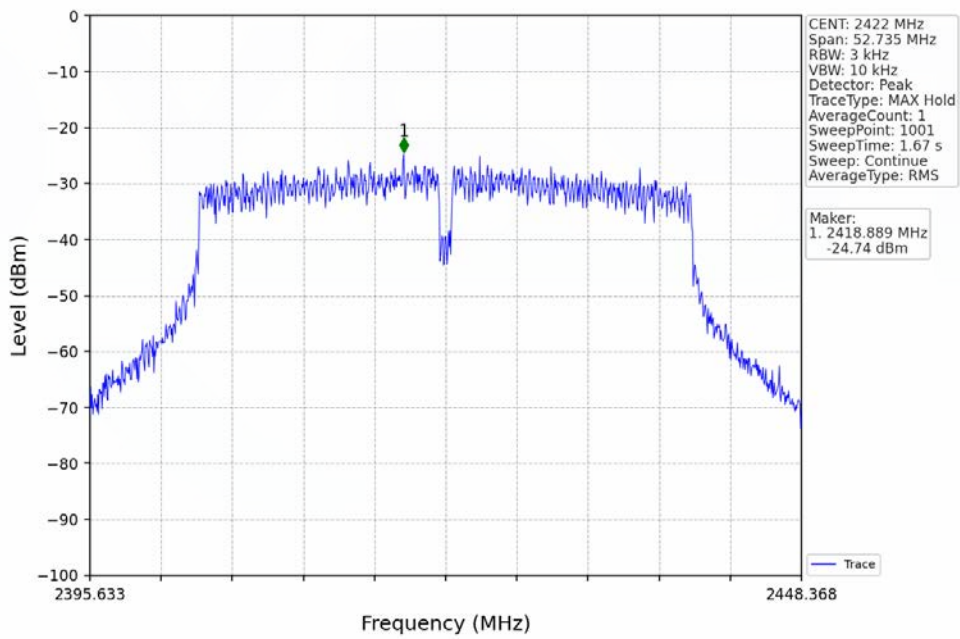
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



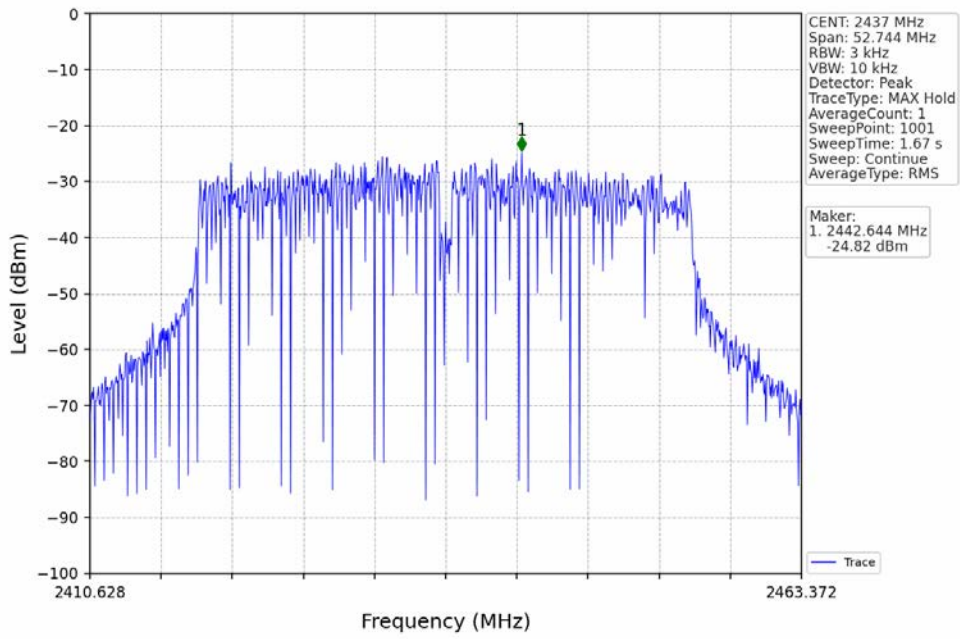
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



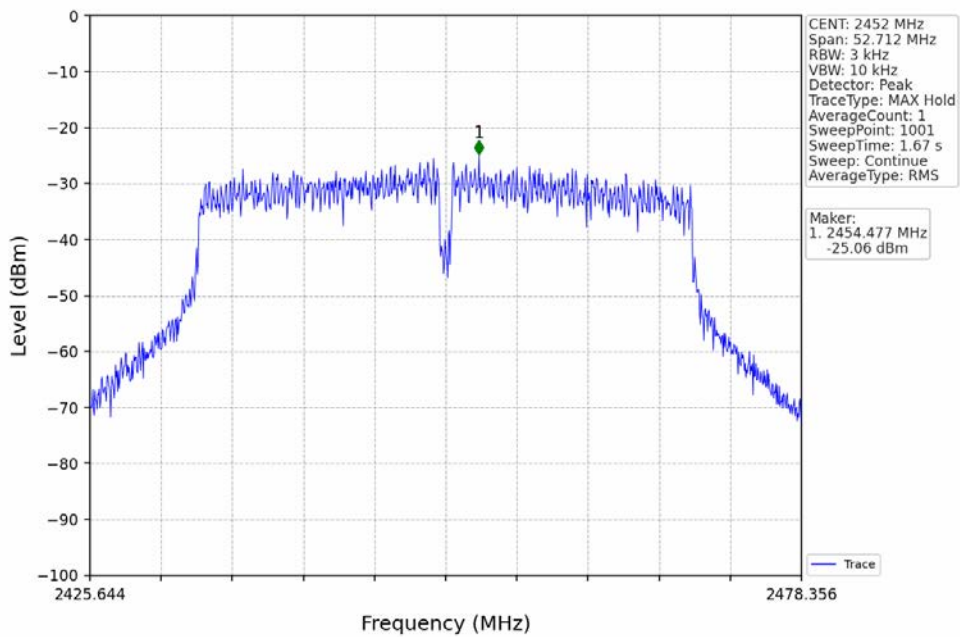
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



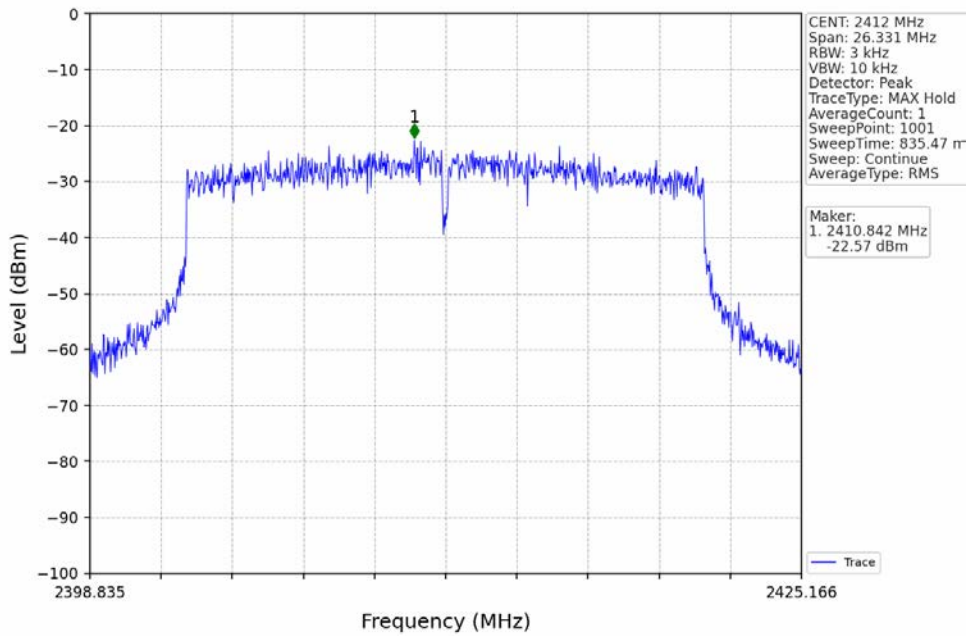
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



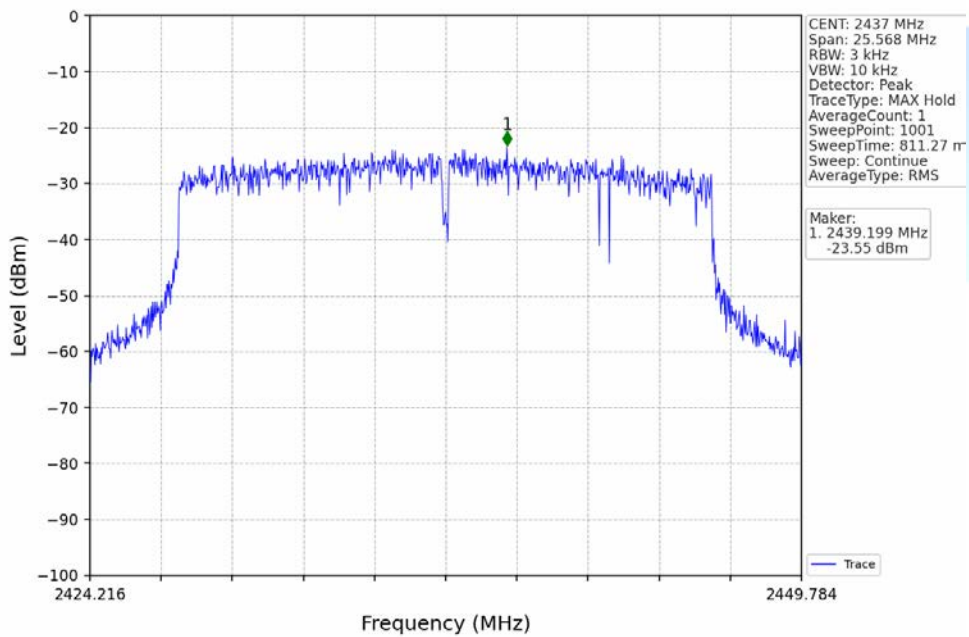
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



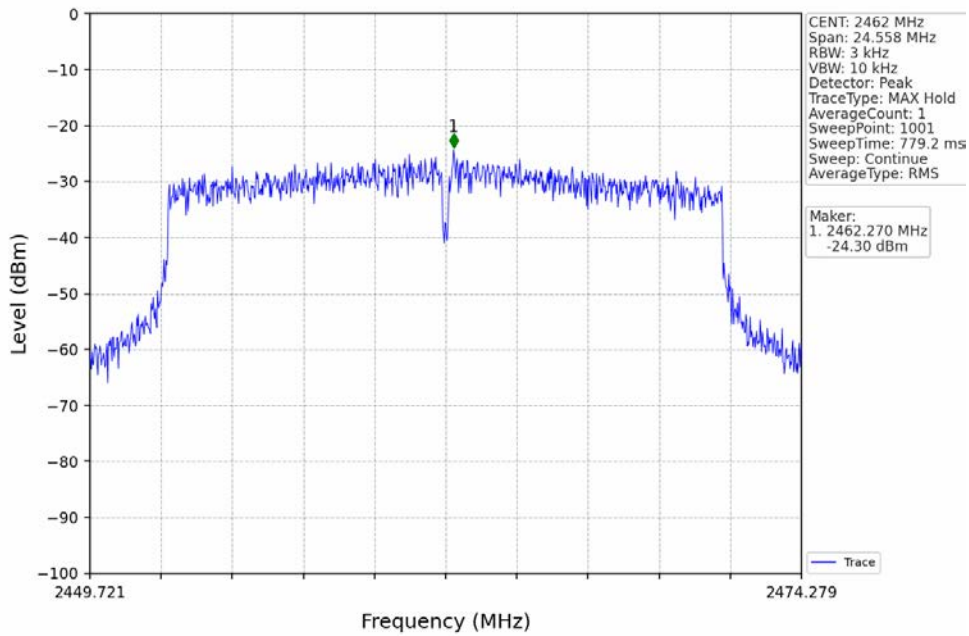
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



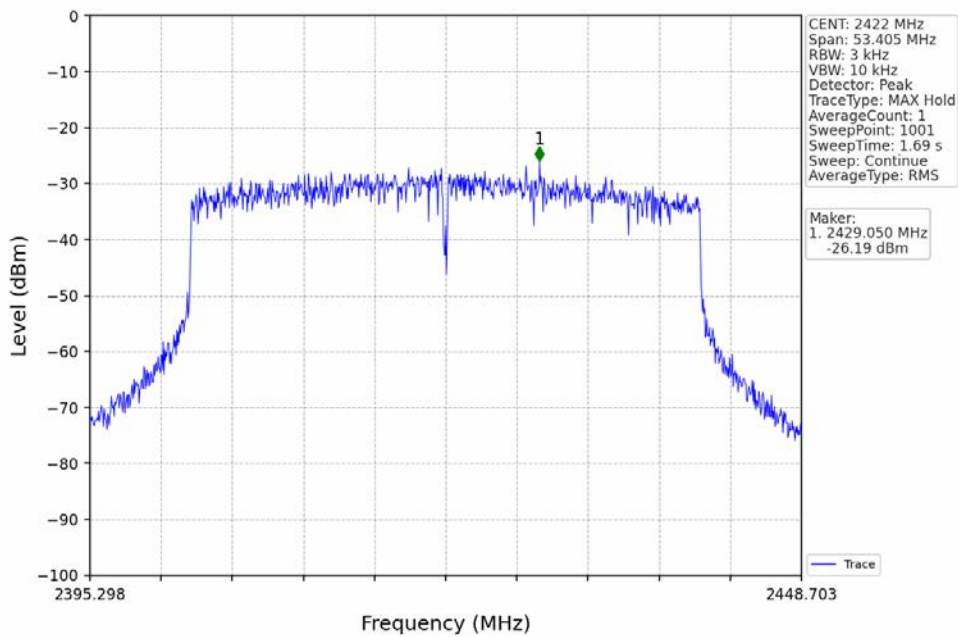
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



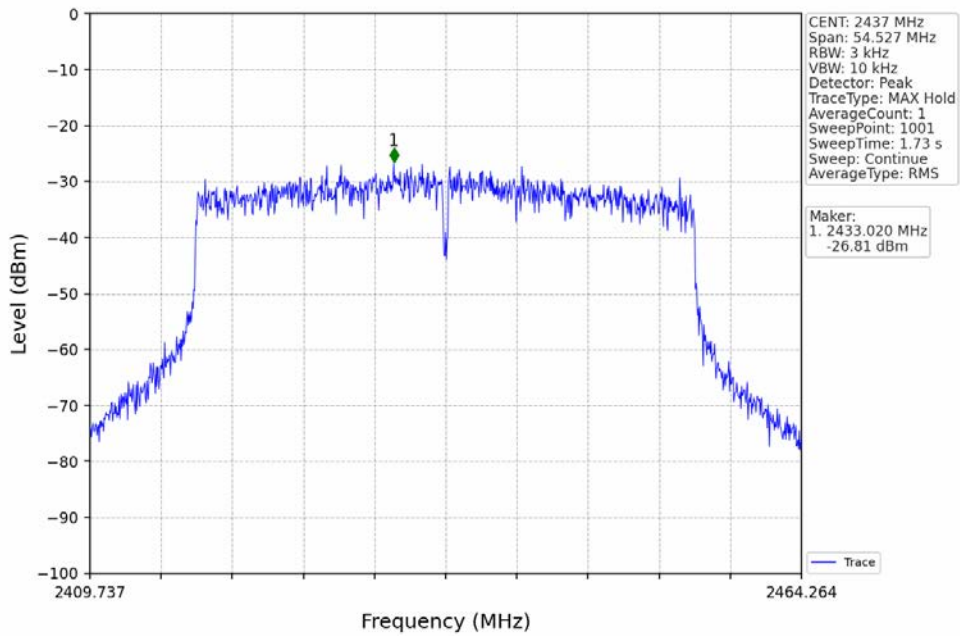
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



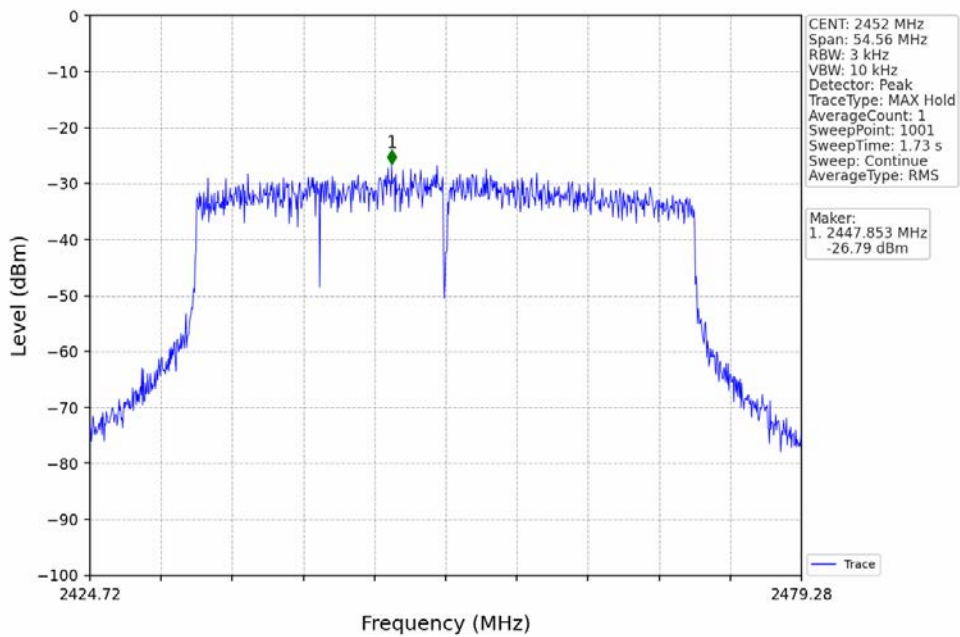
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

| Mode | TX Type | Frequency (MHz) | RU | RU Pos | ANT | Level of Reference (dBm) |
|------------------|---------|-----------------|-------|--------|-----|--------------------------|
| 802.11b | SISO | 2412 | / | / | 1 | -1.25 |
| | | 2437 | / | / | 1 | -1.80 |
| | | 2462 | / | / | 1 | -0.79 |
| 802.11g | SISO | 2412 | / | / | 1 | -7.51 |
| | | 2437 | / | / | 1 | -7.56 |
| | | 2462 | / | / | 1 | -9.74 |
| 802.11n (HT20) | SISO | 2412 | / | / | 1 | -7.32 |
| | | 2437 | / | / | 1 | -7.39 |
| | | 2462 | / | / | 1 | -9.82 |
| 802.11n (HT40) | SISO | 2422 | / | / | 1 | -9.95 |
| | | 2437 | / | / | 1 | -10.66 |
| | | 2452 | / | / | 1 | -11.30 |
| 802.11ax (HEW20) | SISO | 2412 | RU242 | Left | 1 | -8.71 |
| | | 2437 | RU242 | Left | 1 | -7.93 |
| | | 2462 | RU242 | Left | 1 | -9.82 |
| 802.11ax (HEW40) | SISO | 2422 | RU484 | Left | 1 | -10.78 |
| | | 2437 | RU484 | Left | 1 | -10.18 |
| | | 2452 | RU484 | Left | 1 | -11.43 |

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

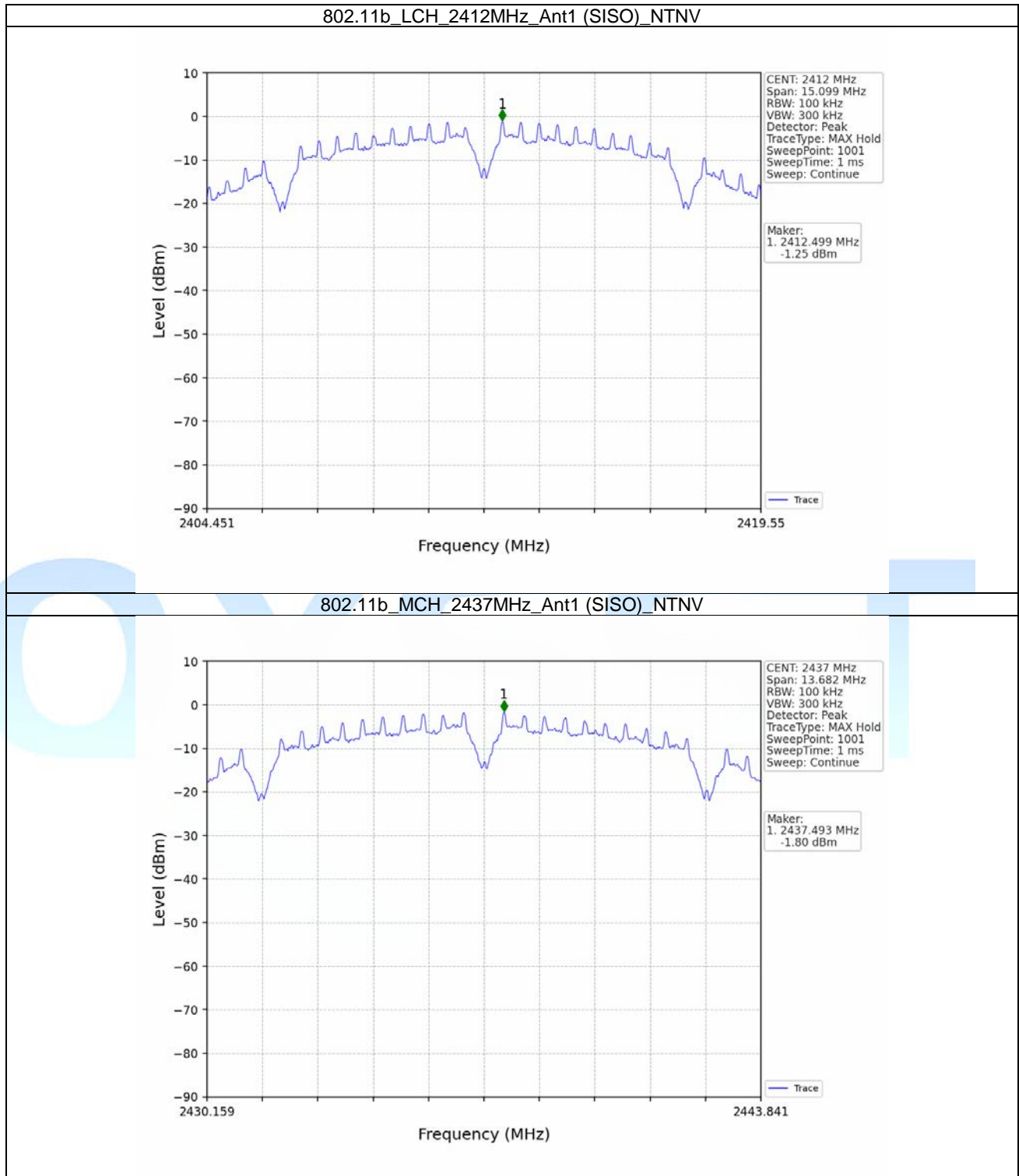
| Mode | TX Type | Frequency (MHz) | RU | RU Pos | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------------------|---------|-----------------|-------|--------|-----|--------------------------|-------------|---------|
| 802.11b | SISO | 2412 | / | / | 1 | -0.79 | -20.79 | Pass |
| | | 2437 | / | / | 1 | -0.79 | -20.79 | Pass |
| | | 2462 | / | / | 1 | -0.79 | -20.79 | Pass |
| 802.11g | SISO | 2412 | / | / | 1 | -7.51 | -27.51 | Pass |
| | | 2437 | / | / | 1 | -7.51 | -27.51 | Pass |
| | | 2462 | / | / | 1 | -7.51 | -27.51 | Pass |
| 802.11n (HT20) | SISO | 2412 | / | / | 1 | -7.32 | -27.32 | Pass |
| | | 2437 | / | / | 1 | -7.32 | -27.32 | Pass |
| | | 2462 | / | / | 1 | -7.32 | -27.32 | Pass |
| 802.11n (HT40) | SISO | 2422 | / | / | 1 | -9.95 | -29.95 | Pass |
| | | 2437 | / | / | 1 | -9.95 | -29.95 | Pass |
| | | 2452 | / | / | 1 | -9.95 | -29.95 | Pass |
| 802.11ax (HEW20) | SISO | 2412 | RU242 | Left | 1 | -7.93 | -27.93 | Pass |
| | | 2437 | RU242 | Left | 1 | -7.93 | -27.93 | Pass |
| | | 2462 | RU242 | Left | 1 | -7.93 | -27.93 | Pass |
| 802.11ax (HEW40) | SISO | 2422 | RU484 | Left | 1 | -10.18 | -30.18 | Pass |
| | | 2437 | RU484 | Left | 1 | -10.18 | -30.18 | Pass |
| | | 2452 | RU484 | Left | 1 | -10.18 | -30.18 | 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.

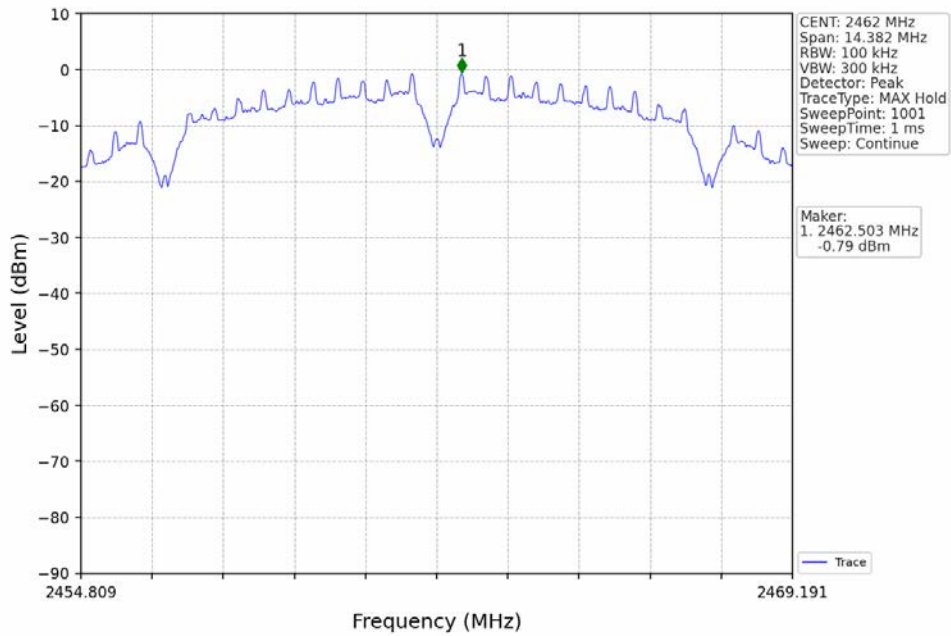


5.2 Test Graph

5.2.1 Ref



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

