

## Appendix: 2.4G Wi-Fi\_AP6275P

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## 1. Duty Cycle

### 1.1 Test Result

#### 1.1.1 Ant1

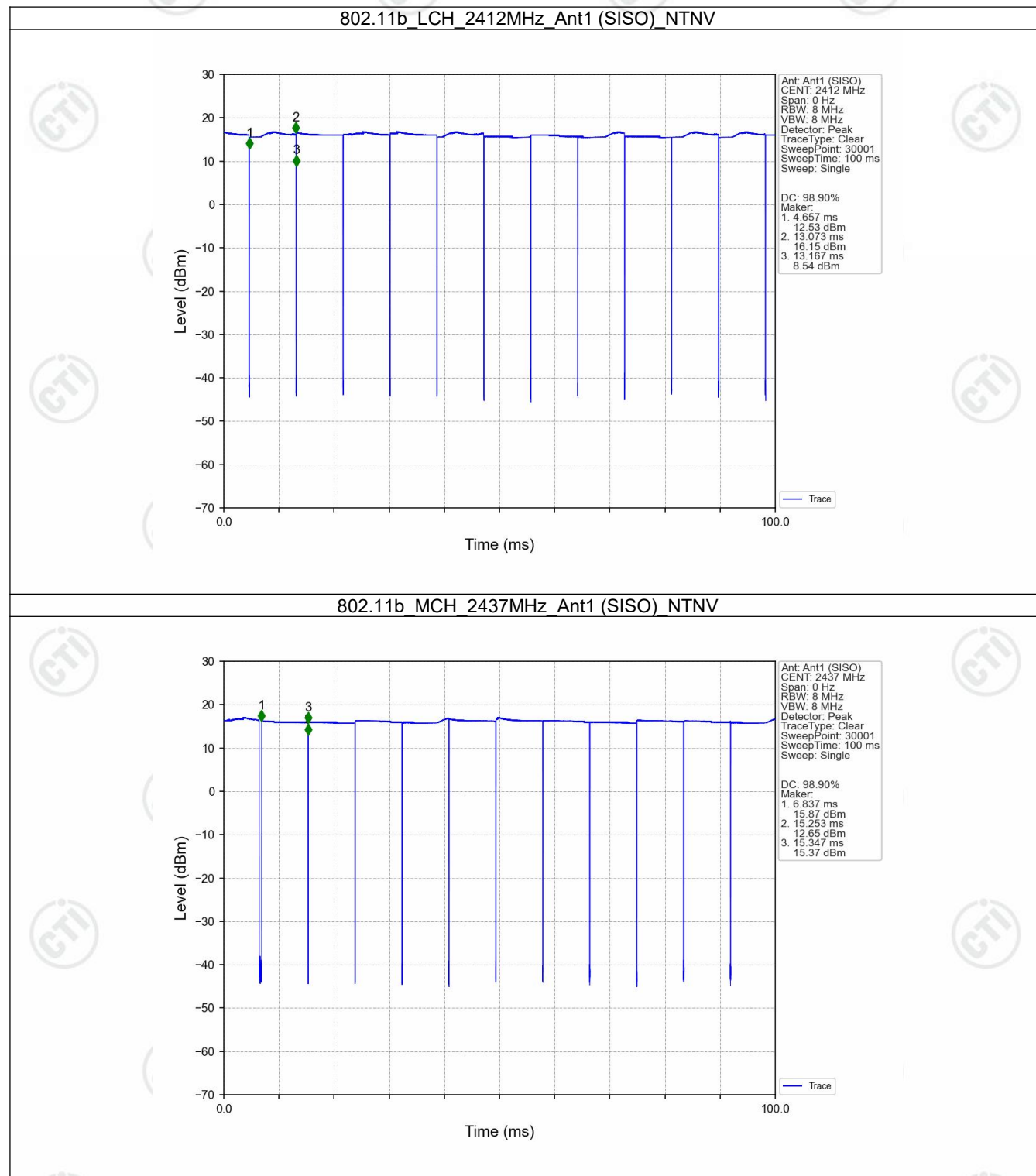
| Ant1           |         |                 |           |             |                |                                   |                       |
|----------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode           | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b        | SISO    | 2412            | 8.416     | 8.510       | 98.90          | 0.05                              | 0.04                  |
|                |         | 2437            | 8.416     | 8.510       | 98.90          | 0.05                              | 0.04                  |
|                |         | 2462            | 8.416     | 8.510       | 98.90          | 0.05                              | 0.04                  |
| 802.11g        | SISO    | 2412            | 1.397     | 1.495       | 93.44          | 0.29                              | 0.00                  |
|                |         | 2437            | 1.397     | 1.495       | 93.44          | 0.29                              | 0.03                  |
|                |         | 2462            | 1.397     | 1.495       | 93.44          | 0.29                              | 0.03                  |
| 802.11n (HT20) | MIMO    | 2412            | 0.692     | 0.792       | 87.37          | 0.59                              | 0.03                  |
|                |         | 2437            | 0.692     | 0.792       | 87.37          | 0.59                              | 0.04                  |
|                |         | 2462            | 0.692     | 0.792       | 87.37          | 0.59                              | 0.03                  |

#### 1.1.2 Ant2

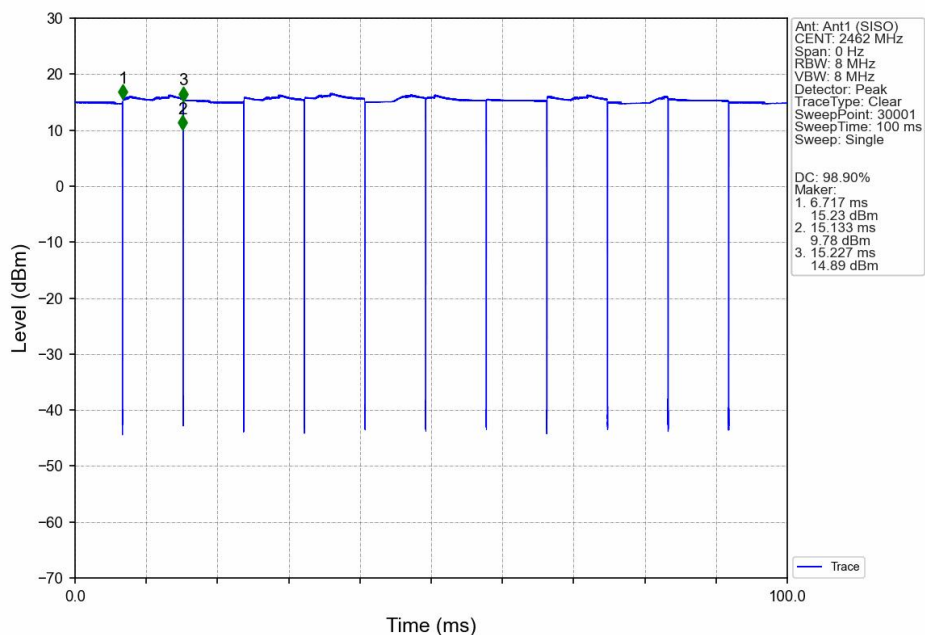
| Ant2           |         |                 |           |             |                |                                   |                       |
|----------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode           | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b        | SISO    | 2412            | 8.417     | 8.510       | 98.91          | 0.05                              | 0.00                  |
|                |         | 2437            | 8.416     | 8.510       | 98.90          | 0.05                              | 0.00                  |
|                |         | 2462            | 8.417     | 8.510       | 98.91          | 0.05                              | 0.00                  |
| 802.11g        | SISO    | 2412            | 1.397     | 1.496       | 93.38          | 0.30                              | 0.00                  |
|                |         | 2437            | 1.396     | 1.495       | 93.38          | 0.30                              | 0.03                  |
|                |         | 2462            | 1.396     | 1.495       | 93.38          | 0.30                              | 0.03                  |
| 802.11n (HT20) | MIMO    | 2412            | 0.692     | 0.792       | 87.37          | 0.59                              | 0.03                  |
|                |         | 2437            | 0.692     | 0.792       | 87.37          | 0.59                              | 0.03                  |
|                |         | 2462            | 0.692     | 0.791       | 87.48          | 0.58                              | 0.03                  |

## 1.2 Test Graph

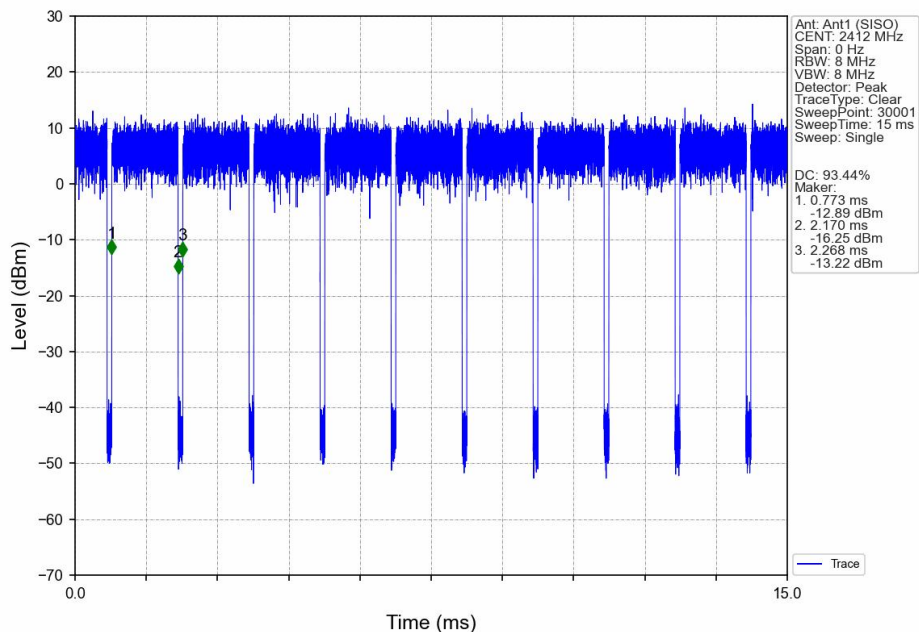
### 1.2.1 Ant1



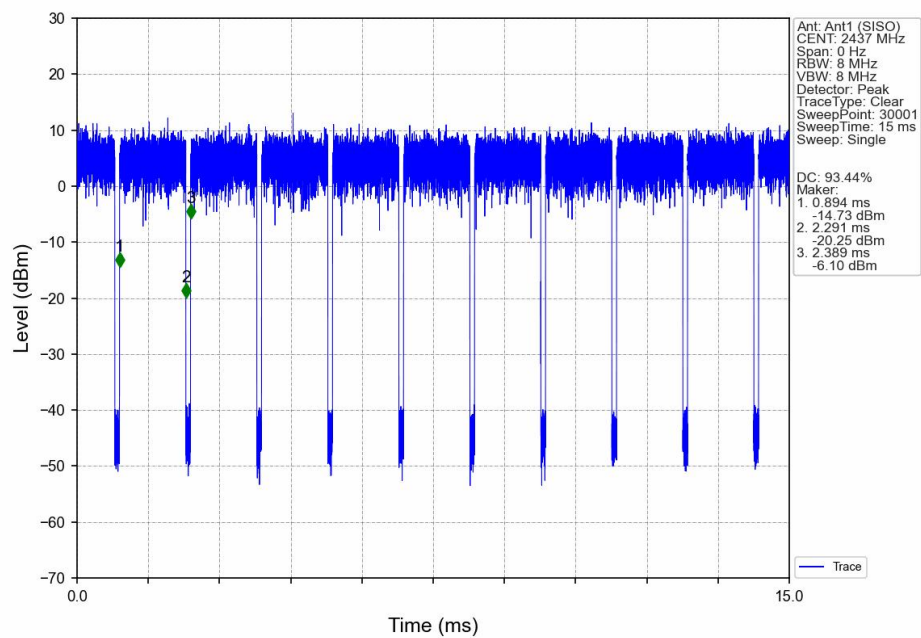
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



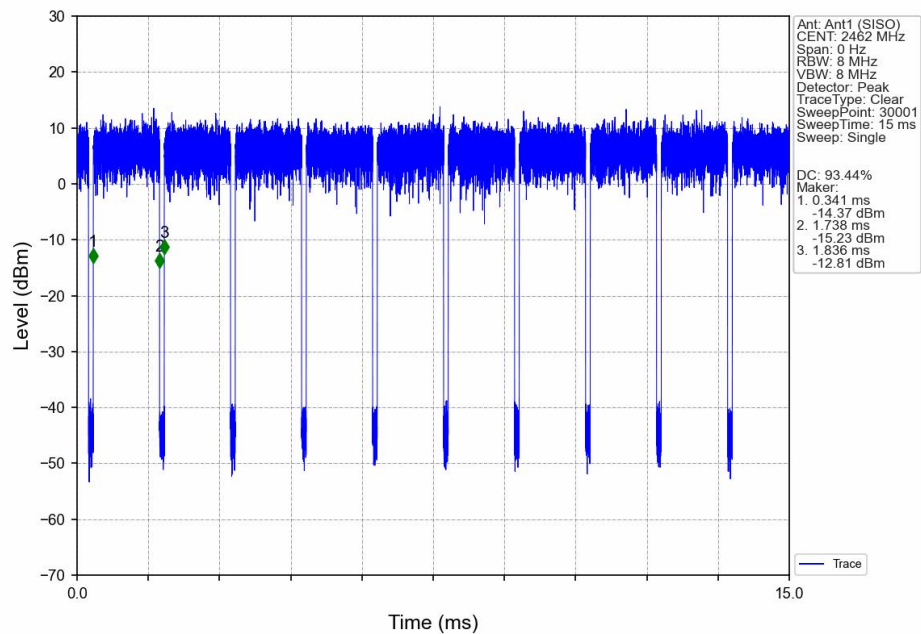
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



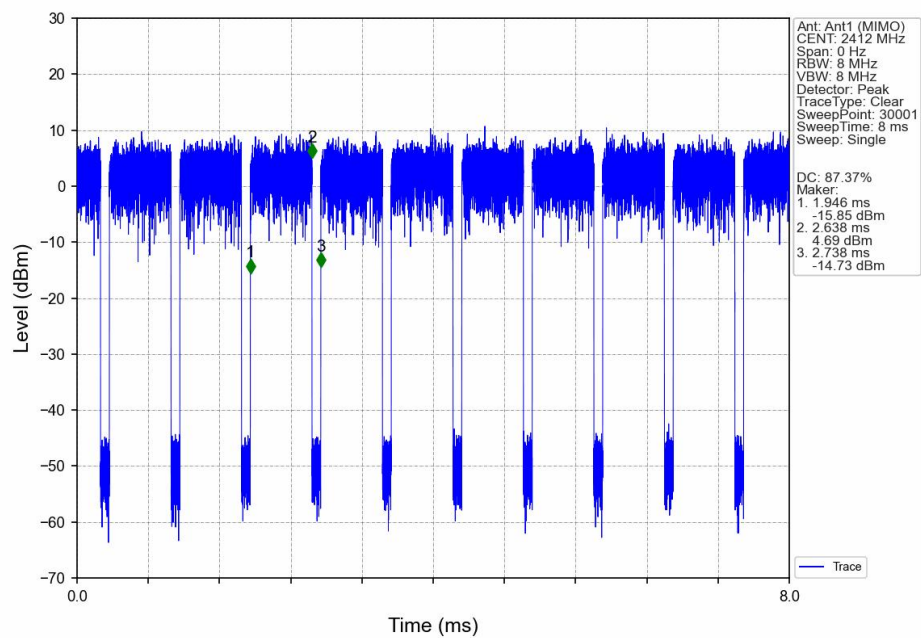
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



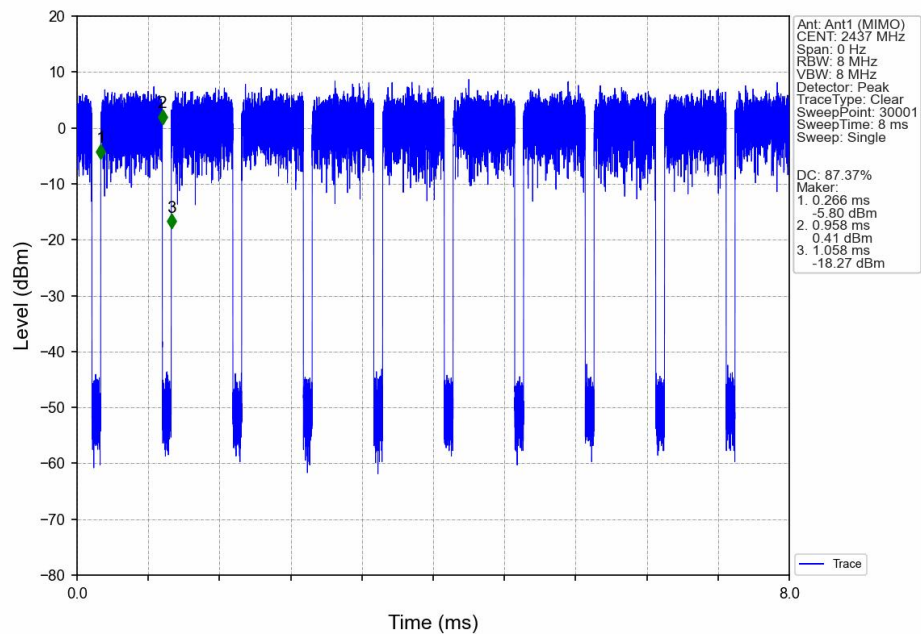
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

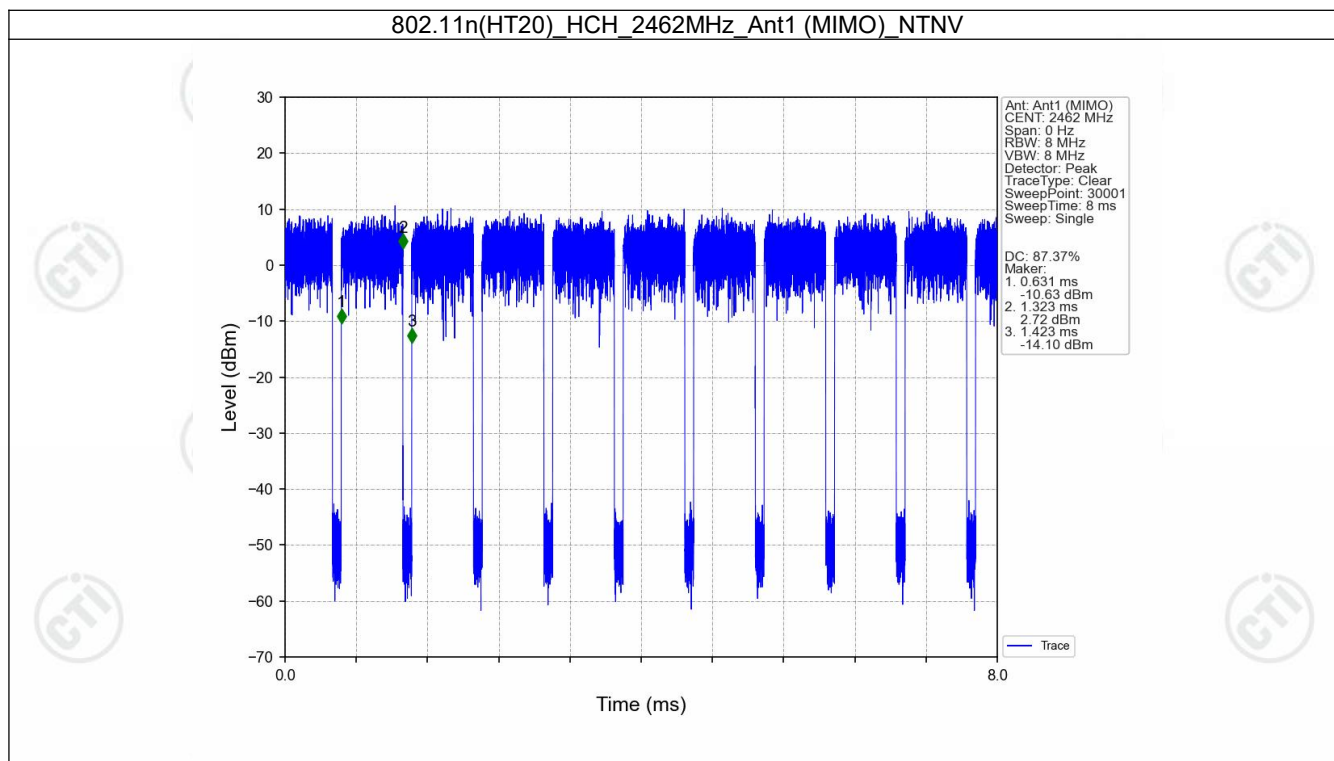


802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV

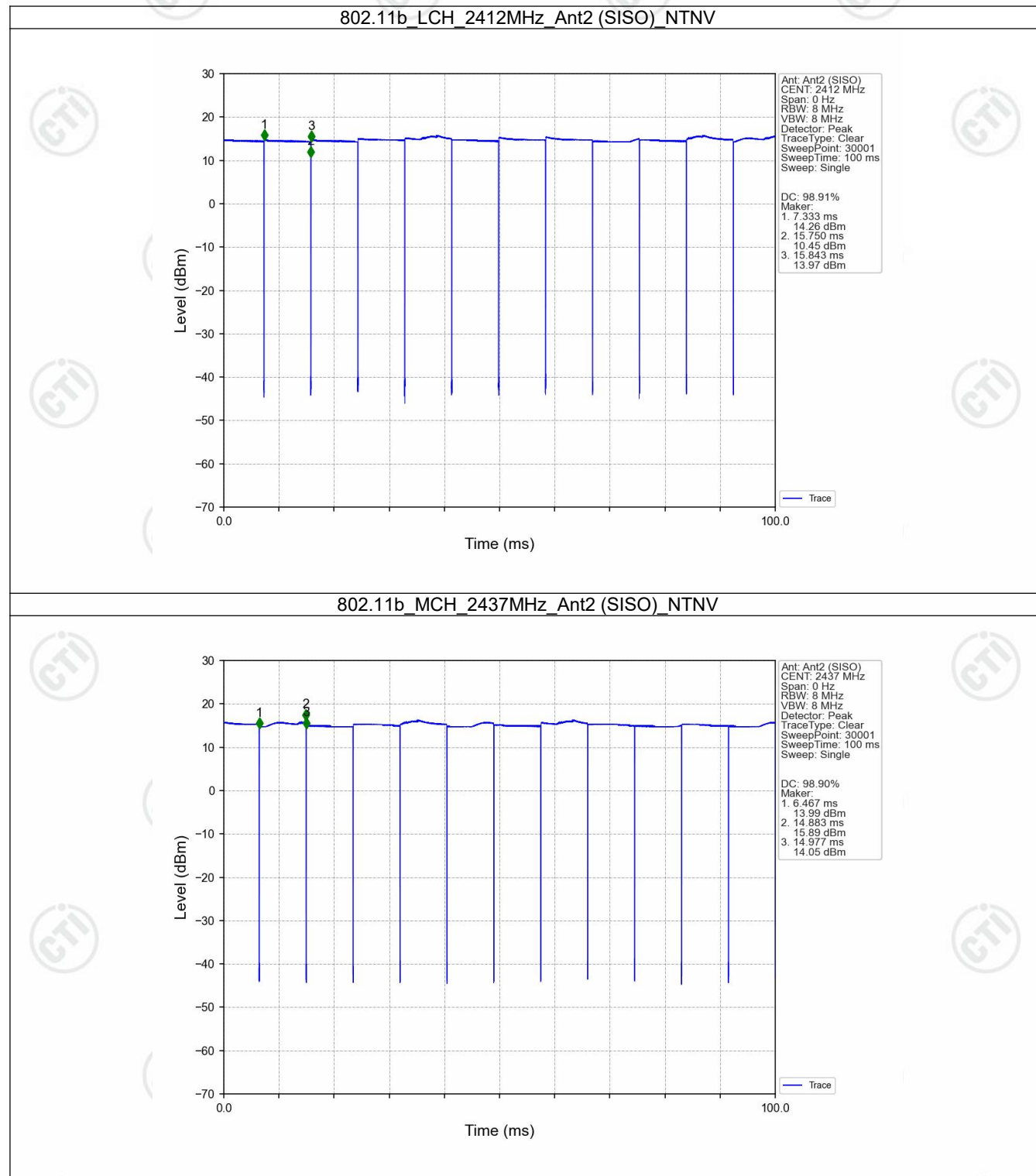


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV

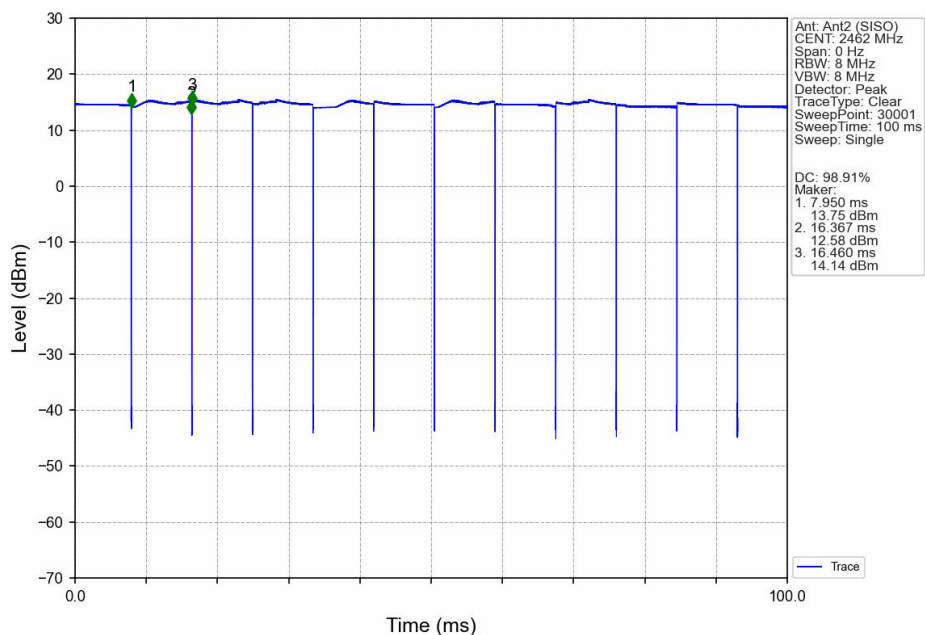




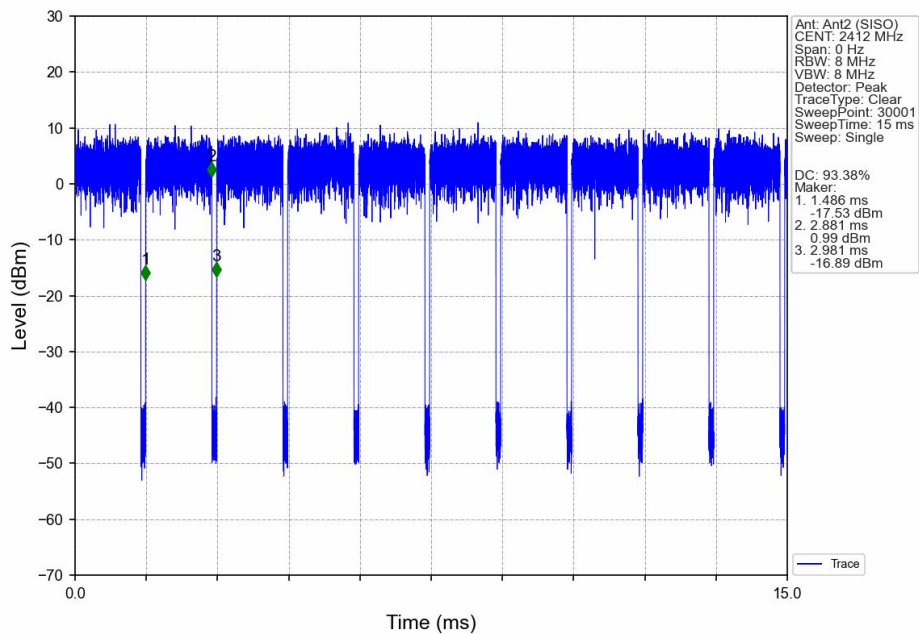
## 1.2.2 Ant2



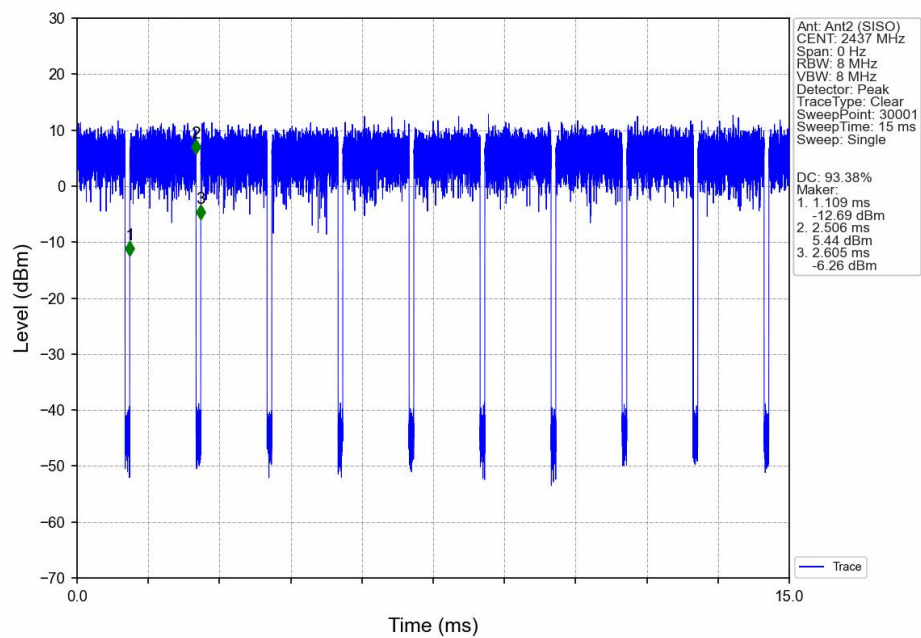
802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



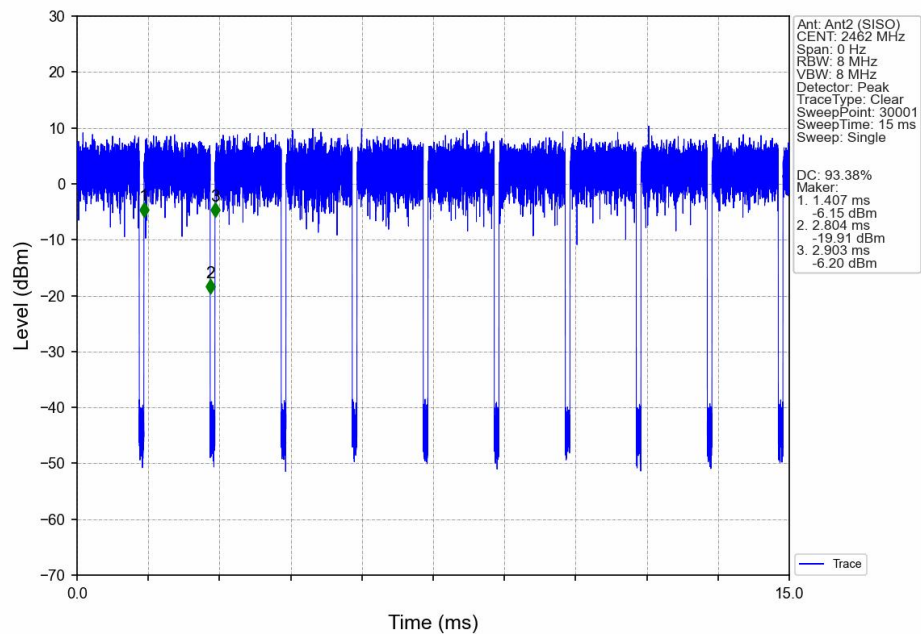
802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



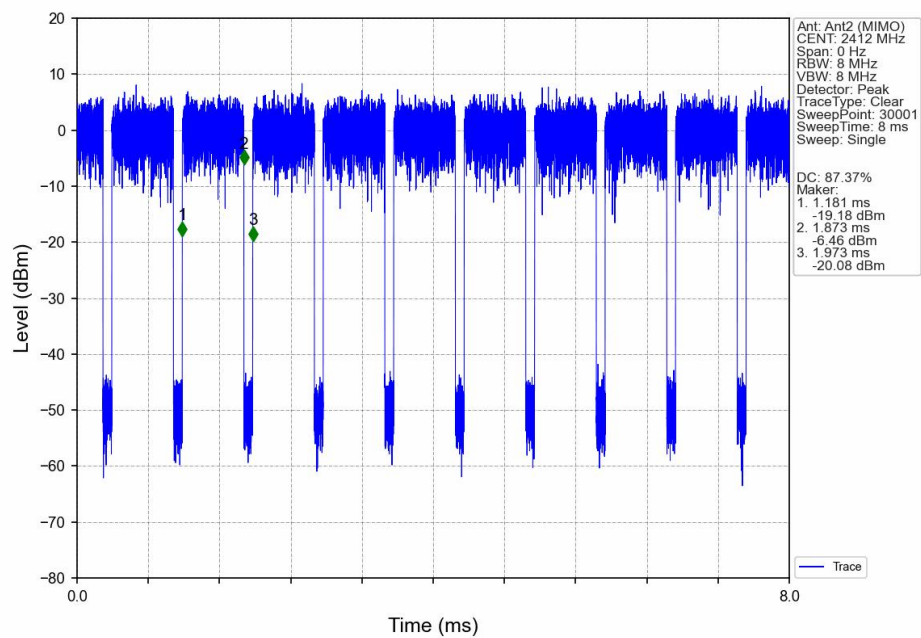
802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



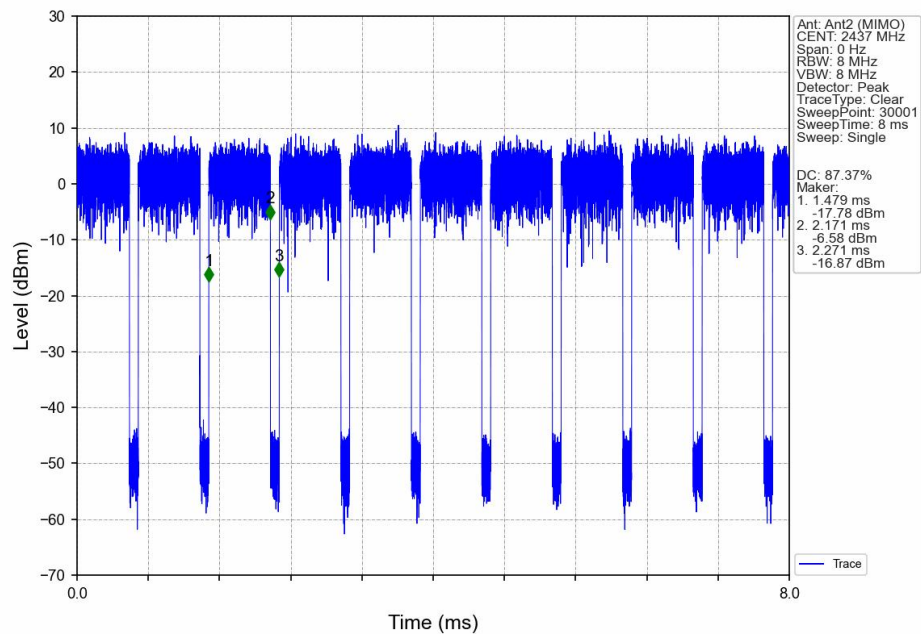
802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV

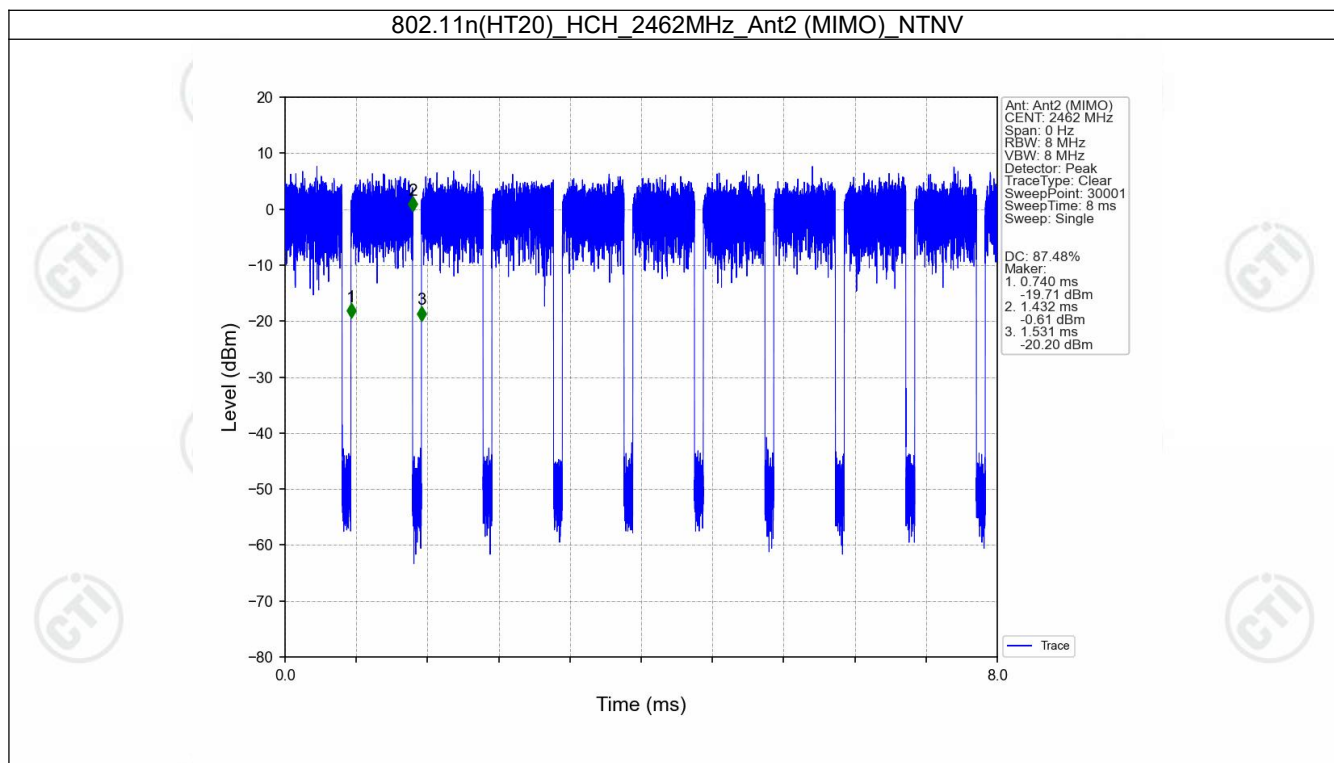


802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV





## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

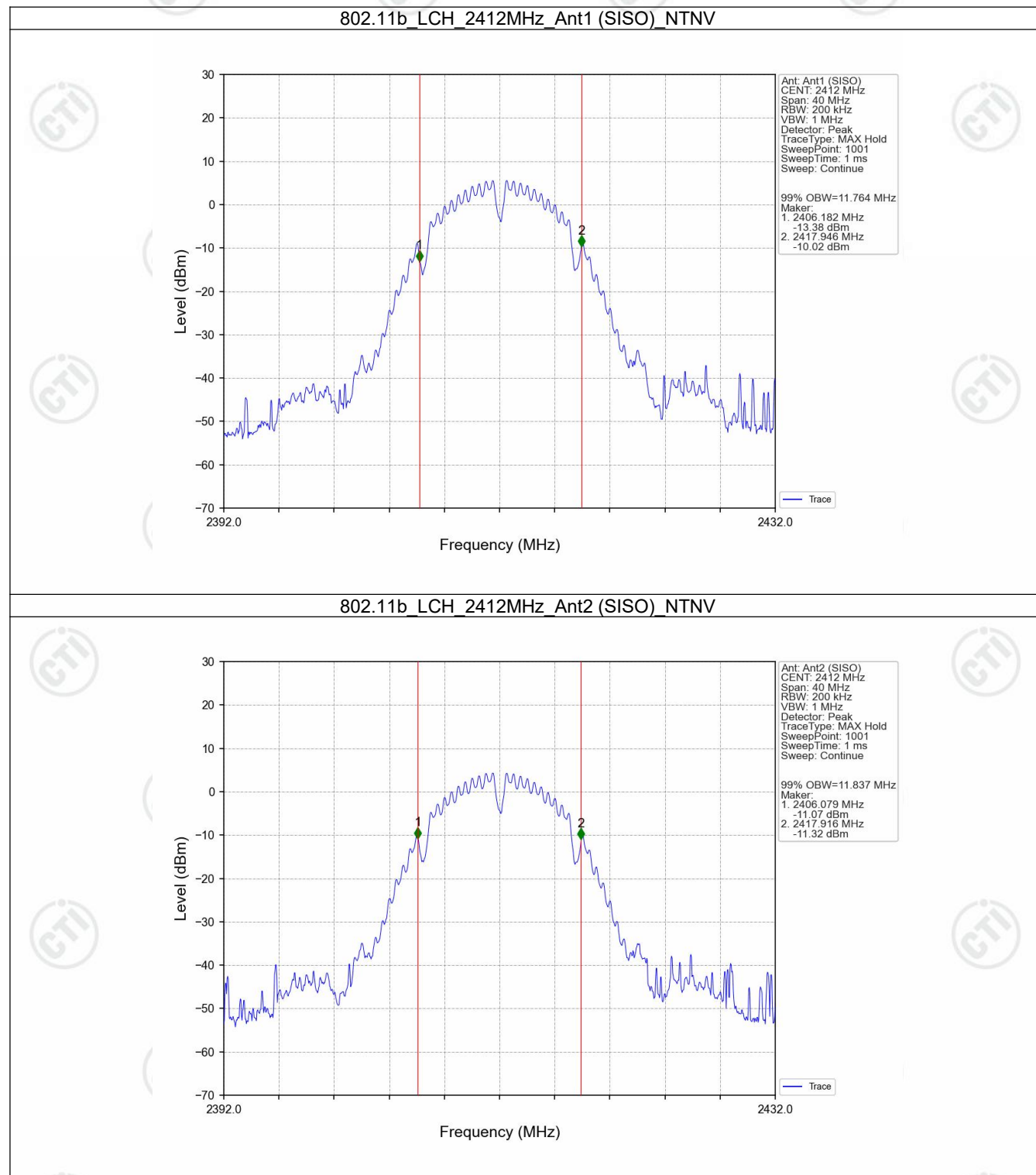
| Mode           | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|----------------|---------|-----------------|-----|------------------------------|-------|---------|
|                |         |                 |     | Result                       | Limit |         |
| 802.11b        | SISO    | 2412            | 1   | 11.764                       | /     | Pass    |
|                |         |                 | 2   | 11.837                       | /     | Pass    |
|                |         | 2437            | 1   | 11.811                       | /     | Pass    |
|                |         |                 | 2   | 11.848                       | /     | Pass    |
|                |         | 2462            | 1   | 11.773                       | /     | Pass    |
|                |         |                 | 2   | 11.783                       | /     | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 16.668                       | /     | Pass    |
|                |         |                 | 2   | 16.584                       | /     | Pass    |
|                |         | 2437            | 1   | 16.656                       | /     | Pass    |
|                |         |                 | 2   | 16.584                       | /     | Pass    |
|                |         | 2462            | 1   | 16.651                       | /     | Pass    |
|                |         |                 | 2   | 16.606                       | /     | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | 1   | 17.765                       | /     | Pass    |
|                |         |                 | 2   | 17.725                       | /     | Pass    |
|                |         | 2437            | 1   | 17.760                       | /     | Pass    |
|                |         |                 | 2   | 17.739                       | /     | Pass    |
|                |         | 2462            | 1   | 17.793                       | /     | Pass    |
|                |         |                 | 2   | 17.734                       | /     | Pass    |

#### 2.1.2 6dB BW

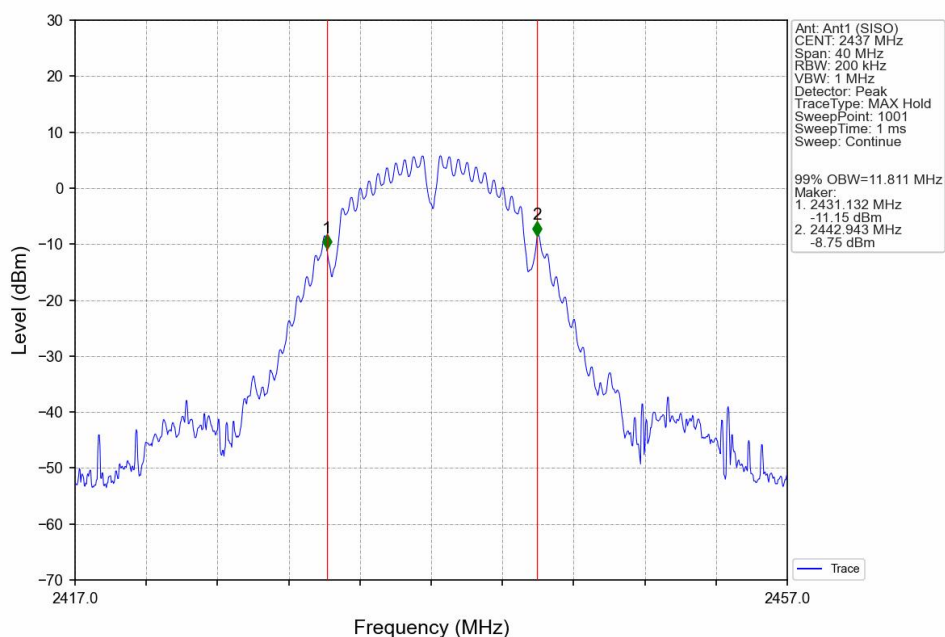
| Mode           | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
|                |         |                 |     | Result              | Limit      |         |
| 802.11b        | SISO    | 2412            | 1   | 8.080               | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 8.091               | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 8.084               | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 8.093               | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 8.095               | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 8.090               | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 16.328              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 16.355              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 16.370              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 16.377              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 16.297              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 16.417              | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | 1   | 17.560              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 17.619              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 17.589              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 17.659              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 17.572              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 17.631              | $\geq 0.5$ | Pass    |

## 2.2 Test Graph

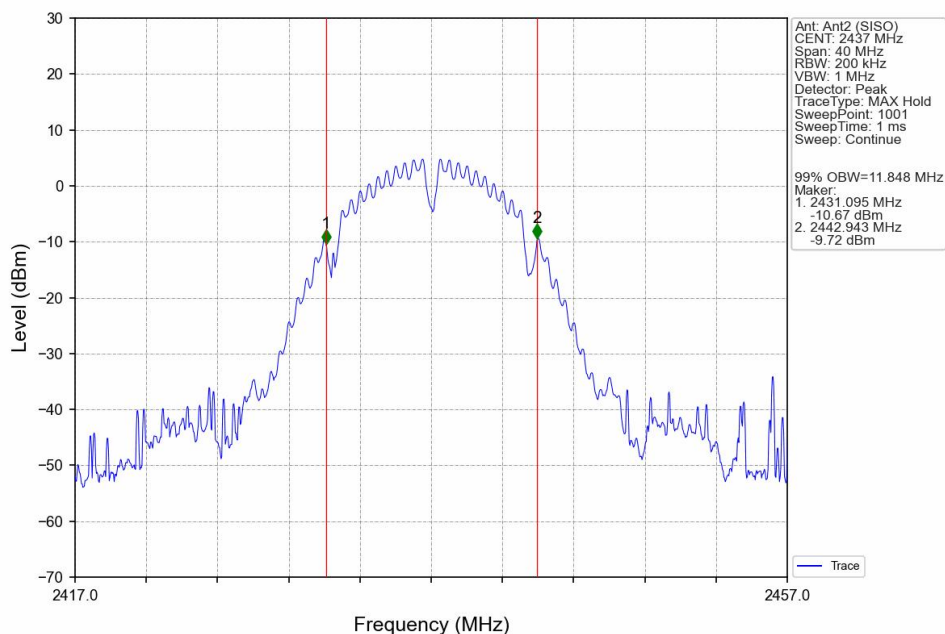
### 2.2.1 OBW



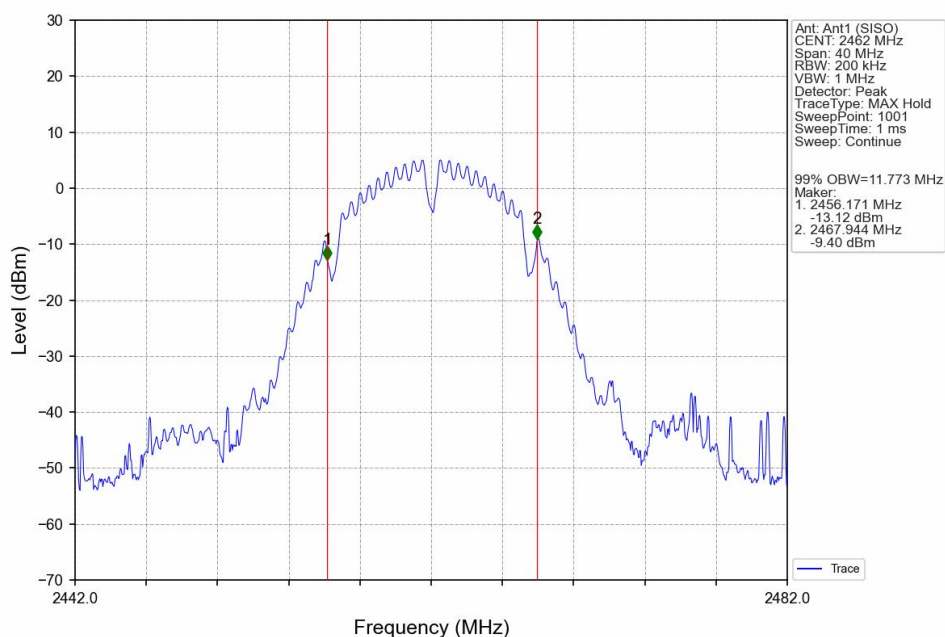
802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV

