

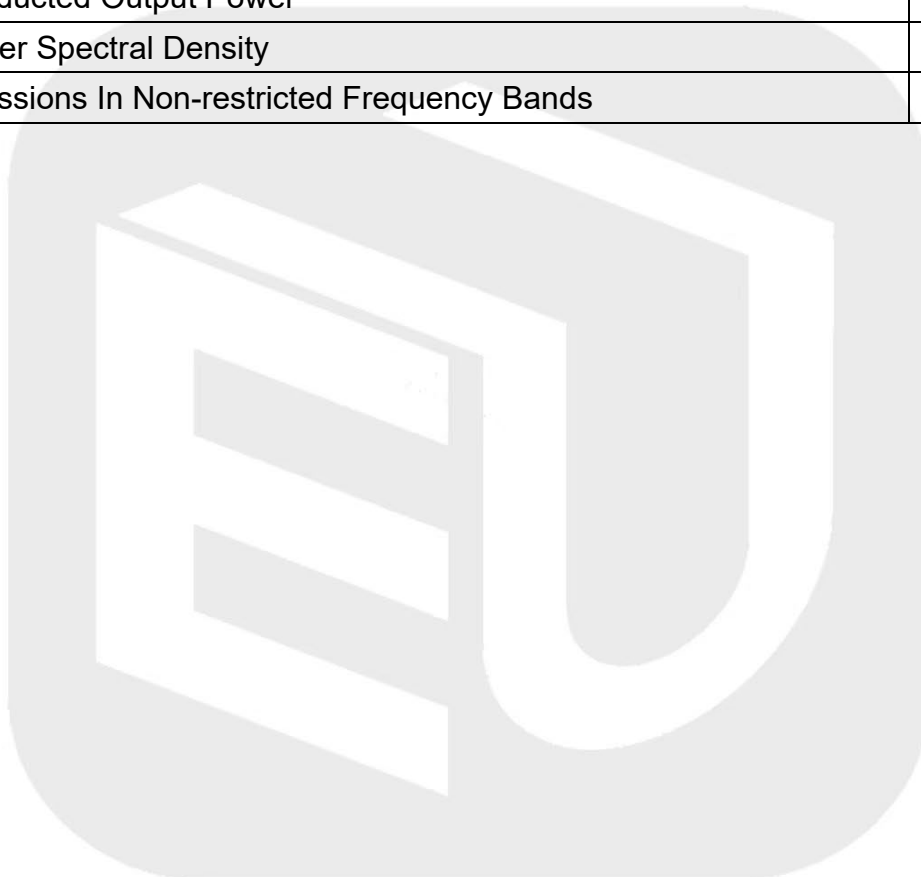
## ANNEX D TEST DATA

For

|                |                                                   |
|----------------|---------------------------------------------------|
| Project No.:   | 8227EU121306W                                     |
| Client:        | Shenzhen Zhongyao information Technology Co., Ltd |
| Product Name:  | Wifi Camera                                       |
| Model No.:     | A33                                               |
| FCC ID:        | 2BFPI-A33                                         |
| Technology:    | WiFi 2.4G                                         |
| Test Engineer: | <i>Mikoy zhu</i>                                  |
| Test Date:     | 2024-03-22                                        |

## Test Summary

| Item                                                 | Result |
|------------------------------------------------------|--------|
| Duty Cycle                                           | Pass   |
| Bandwidth                                            | Pass   |
| Maximum Conducted Output Power                       | Pass   |
| Maximum Power Spectral Density                       | Pass   |
| Unwanted Emissions In Non-restricted Frequency Bands | Pass   |



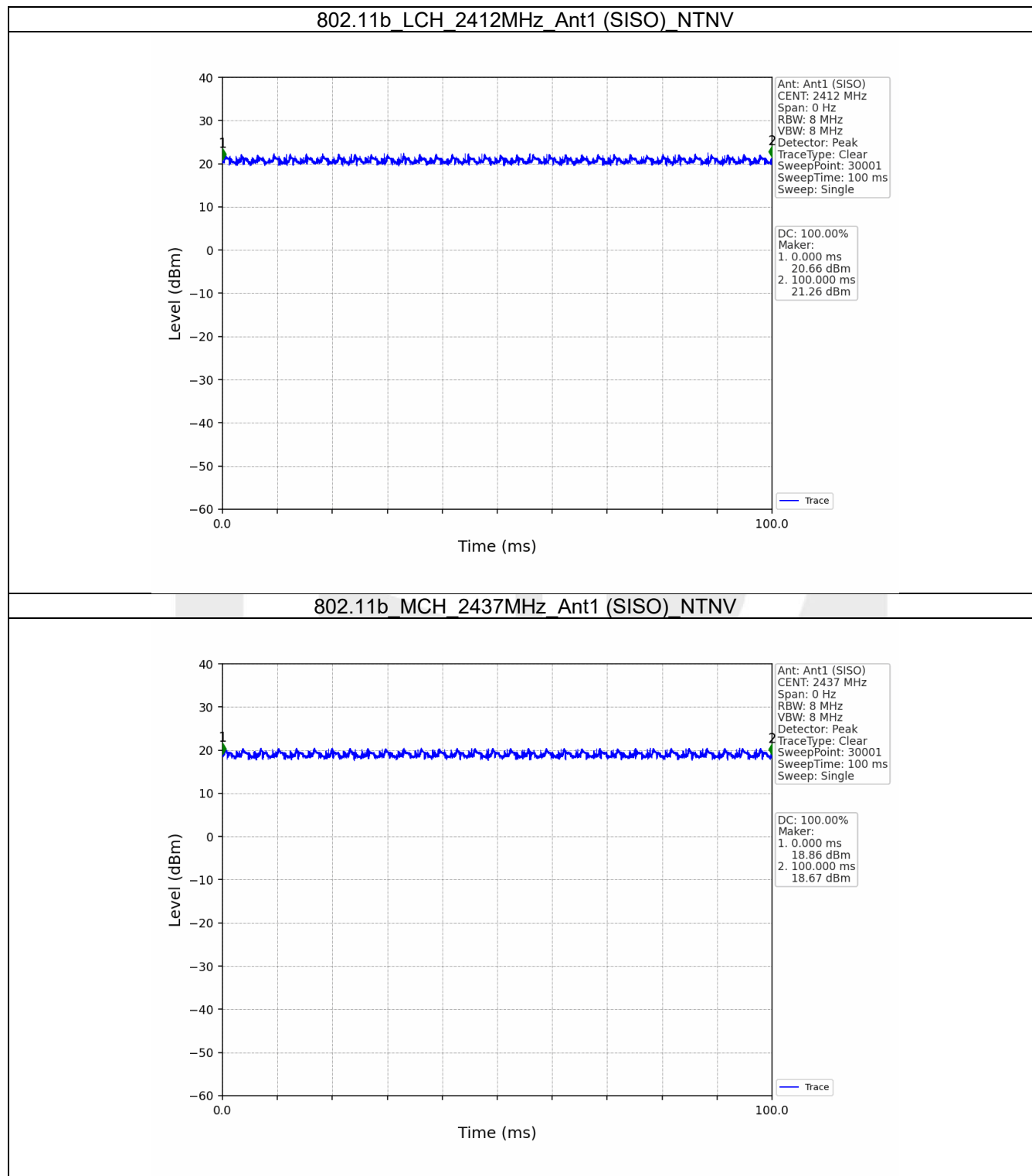
## 1. Duty Cycle

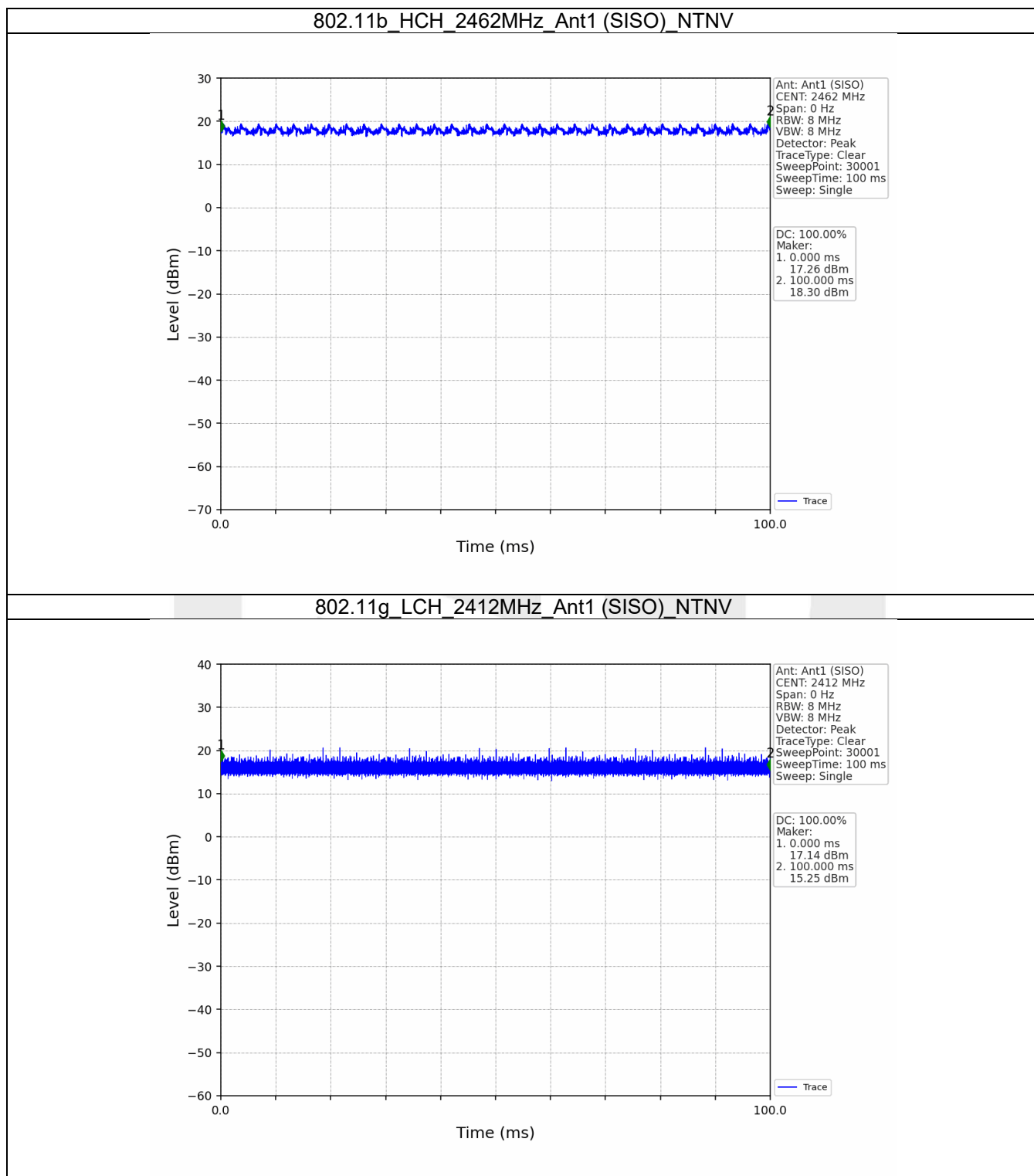
### 1.1 Ant1

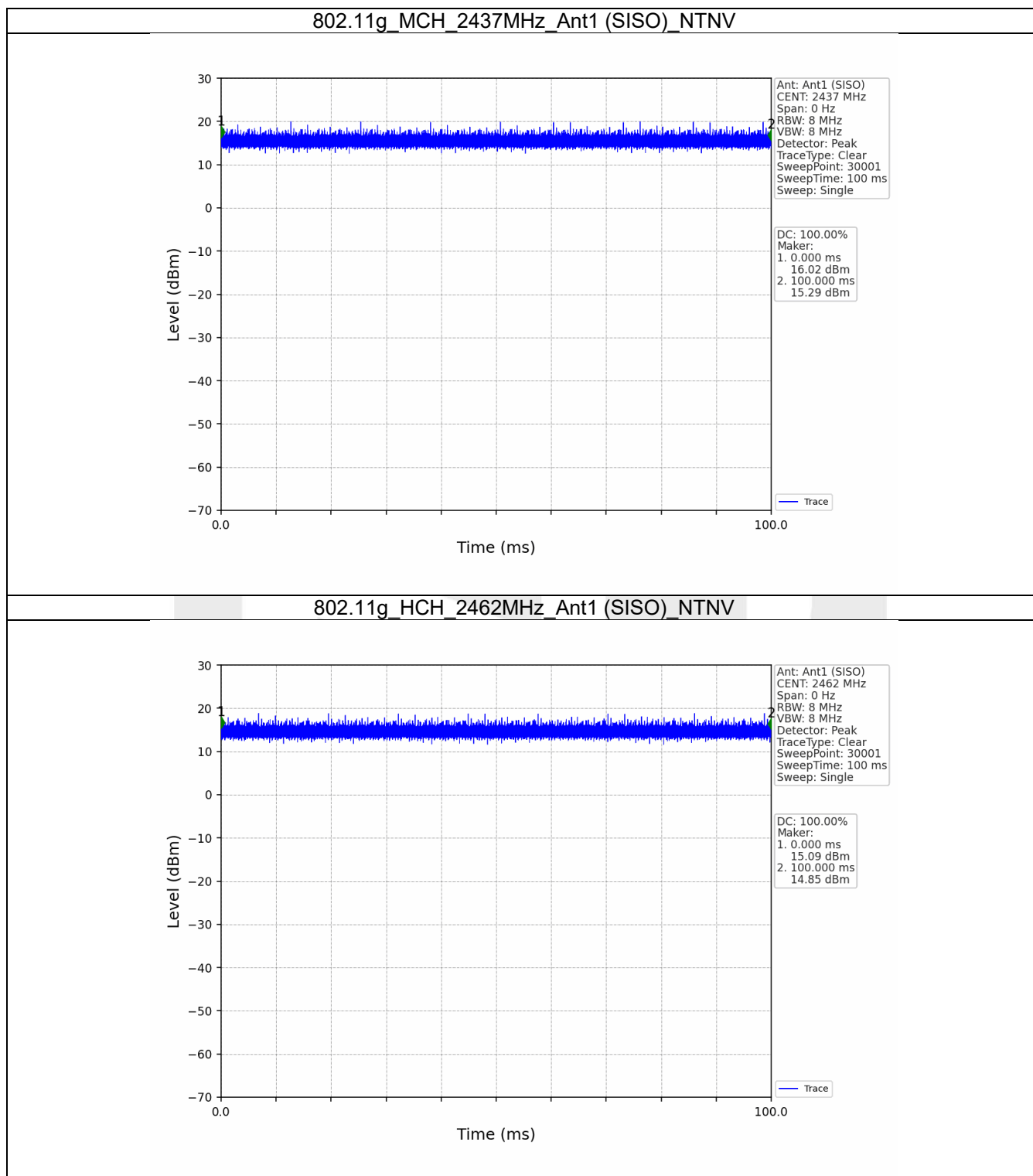
#### 1.1.1 Test Result

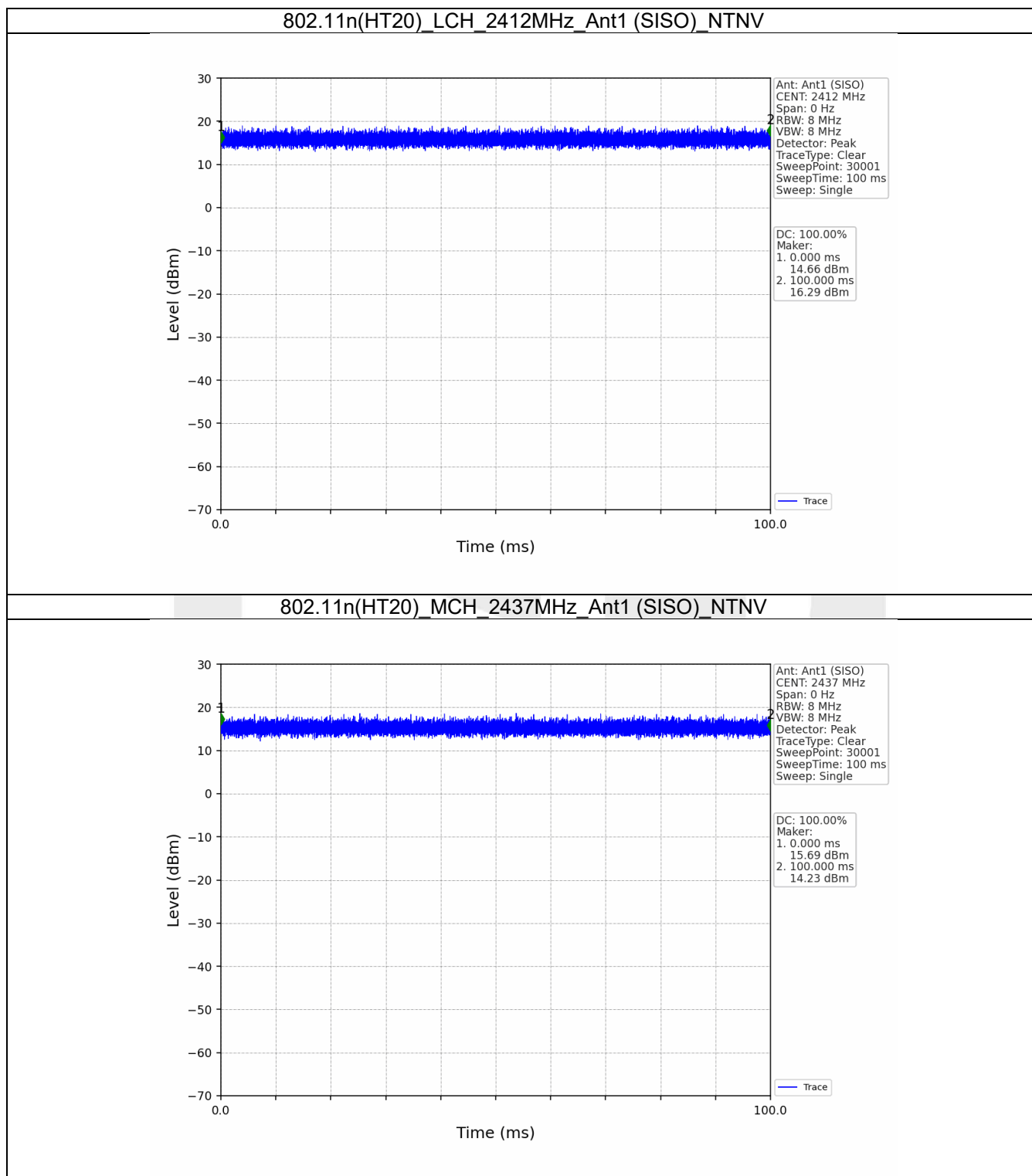
| Ant1           |         |                 |           |             |                |                                   |                       |
|----------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode           | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b        | SISO    | 2412            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 802.11g        | SISO    | 2412            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 802.11n (HT20) | SISO    | 2412            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |

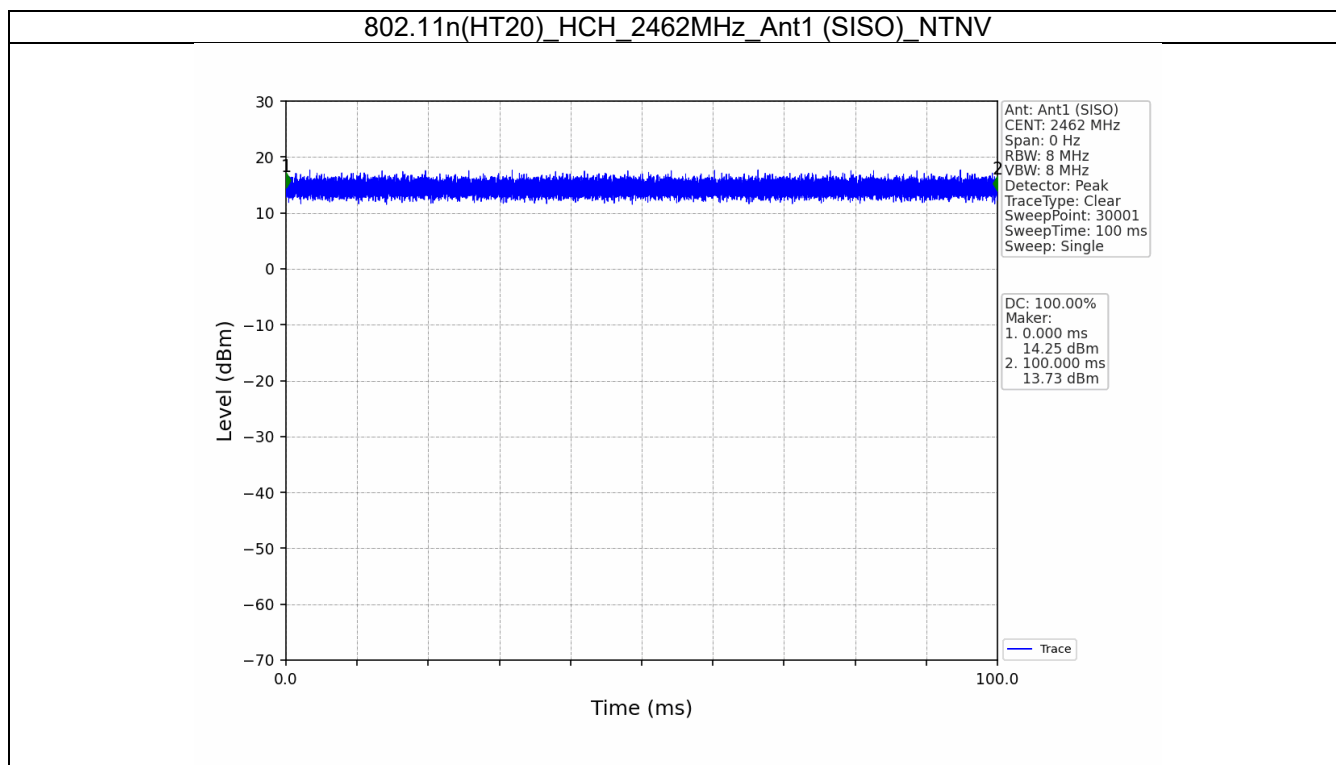
### 1.1.2 Test Graph











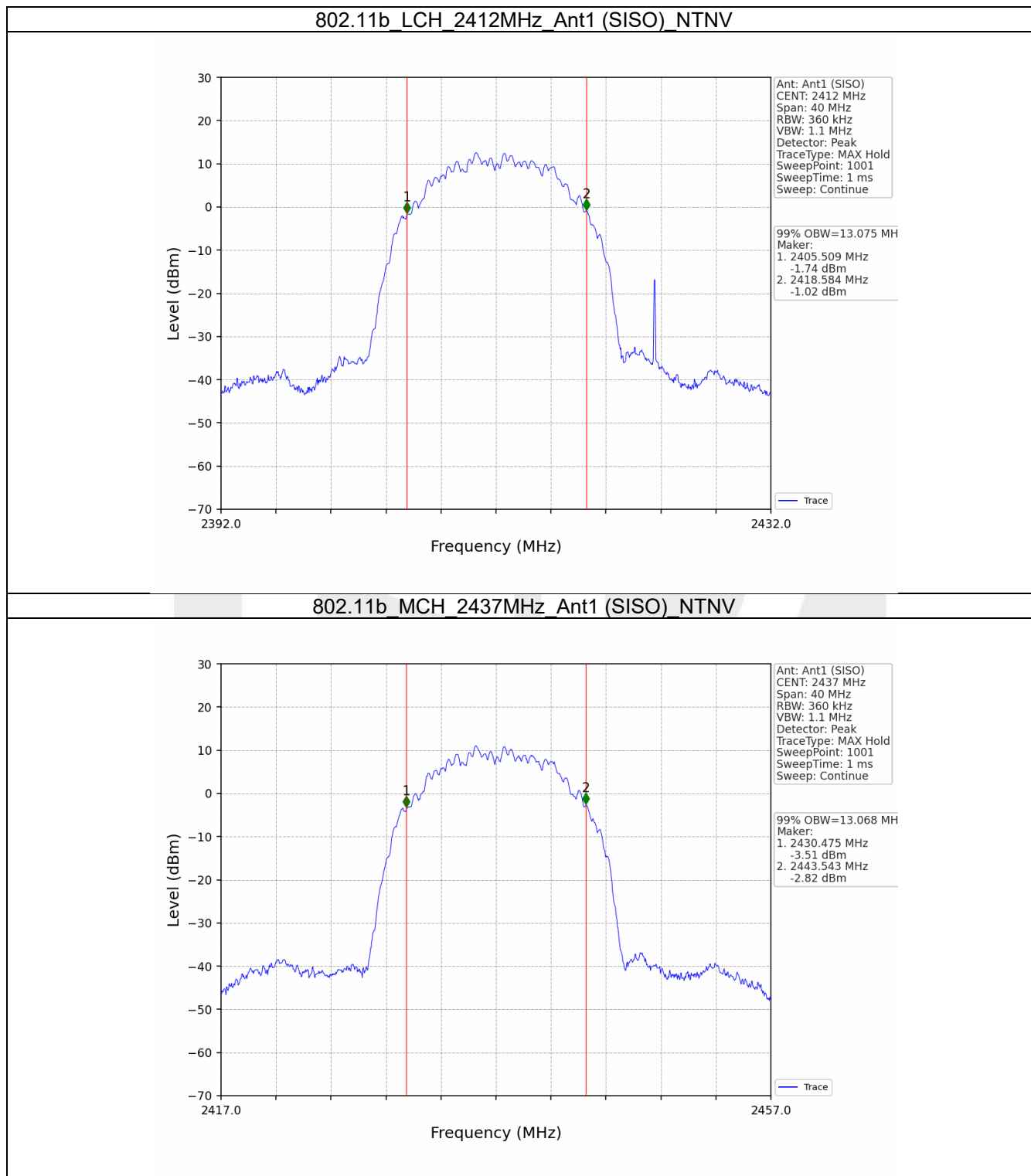
## 2. Bandwidth

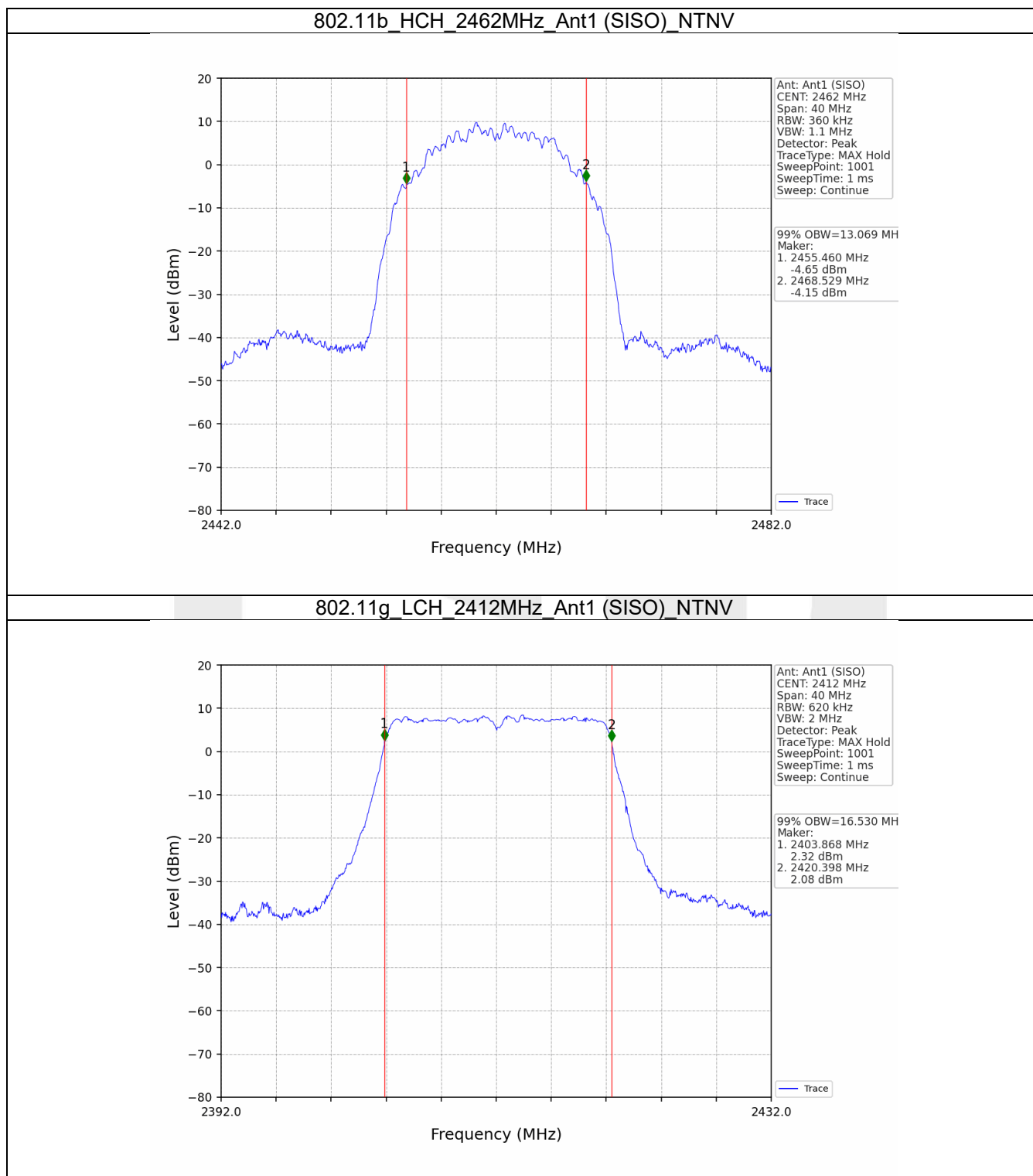
### 2.1 OBW

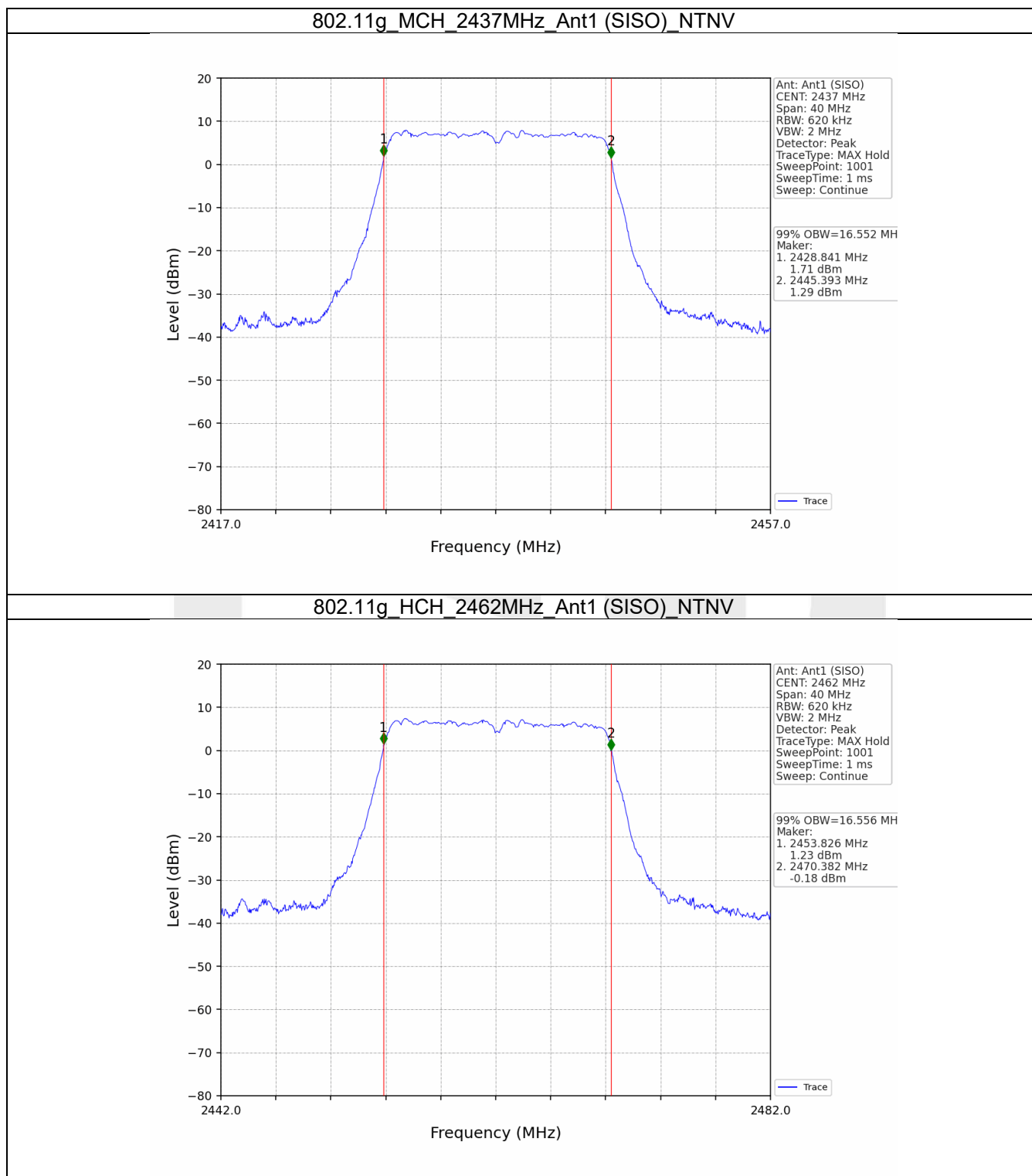
#### 2.1.1 Test Result

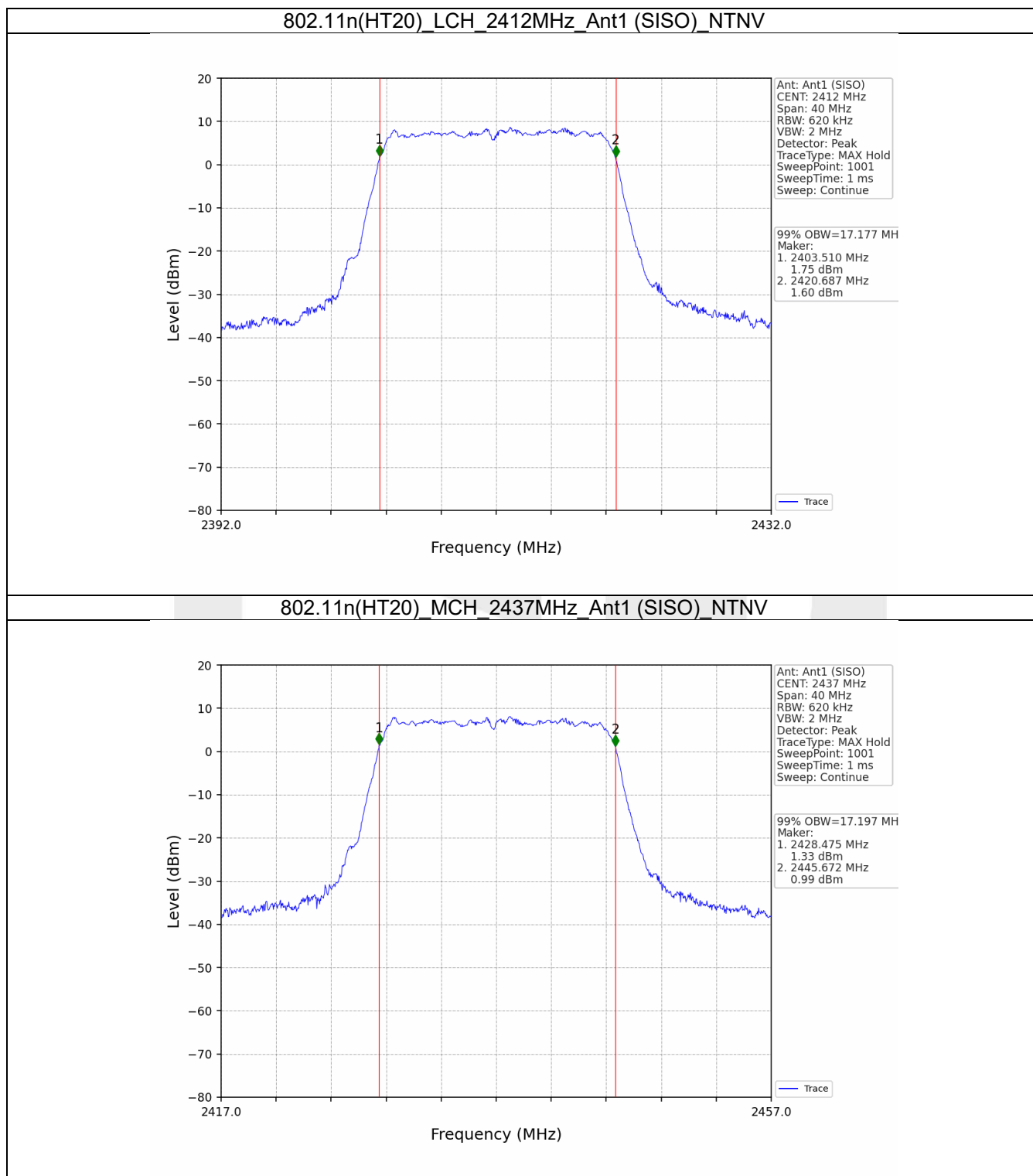
| Mode           | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|----------------|---------|-----------------|-----|------------------------------|---------|
|                |         |                 |     | Result                       |         |
| 802.11b        | SISO    | 2412            | 1   | 13.075                       | Pass    |
|                |         | 2437            | 1   | 13.068                       | Pass    |
|                |         | 2462            | 1   | 13.069                       | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 16.530                       | Pass    |
|                |         | 2437            | 1   | 16.552                       | Pass    |
|                |         | 2462            | 1   | 16.556                       | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 17.177                       | Pass    |
|                |         | 2437            | 1   | 17.197                       | Pass    |
|                |         | 2462            | 1   | 17.189                       | Pass    |

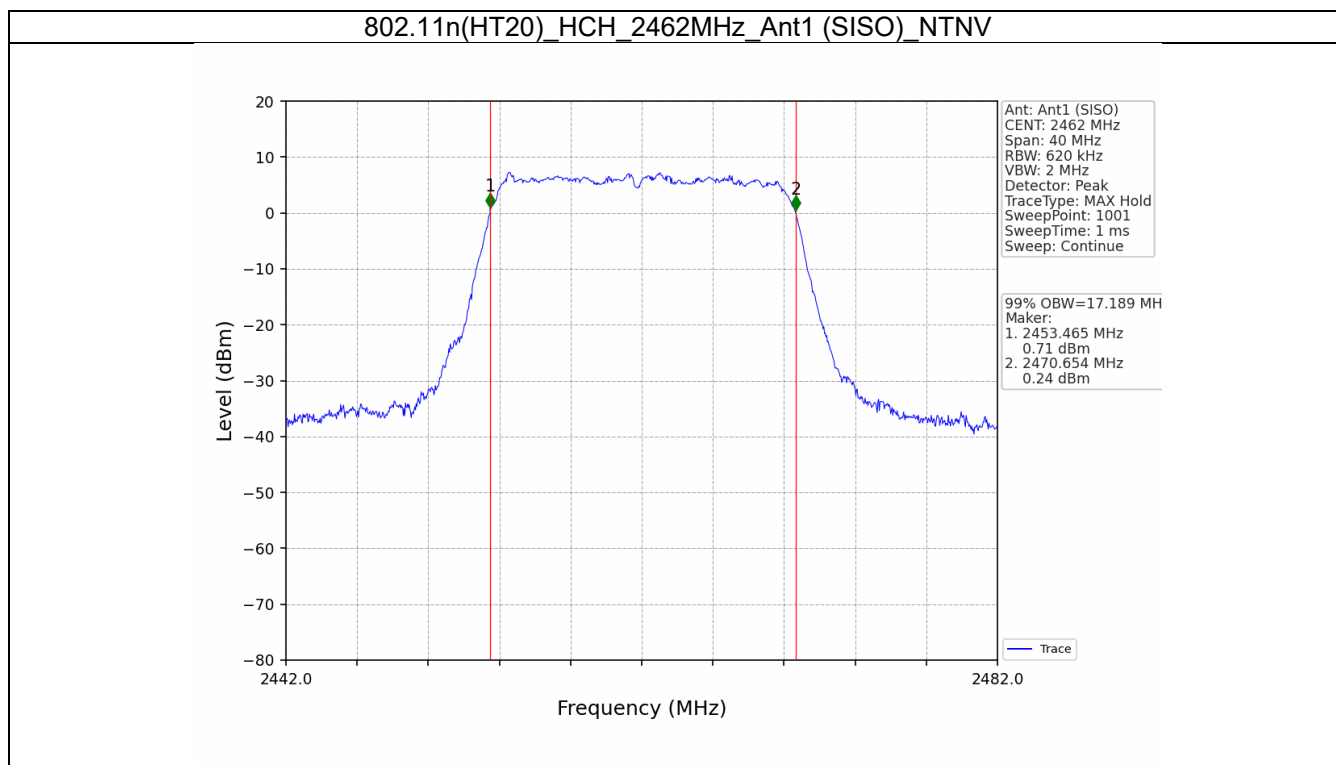
## 2.1.2 Test Graph









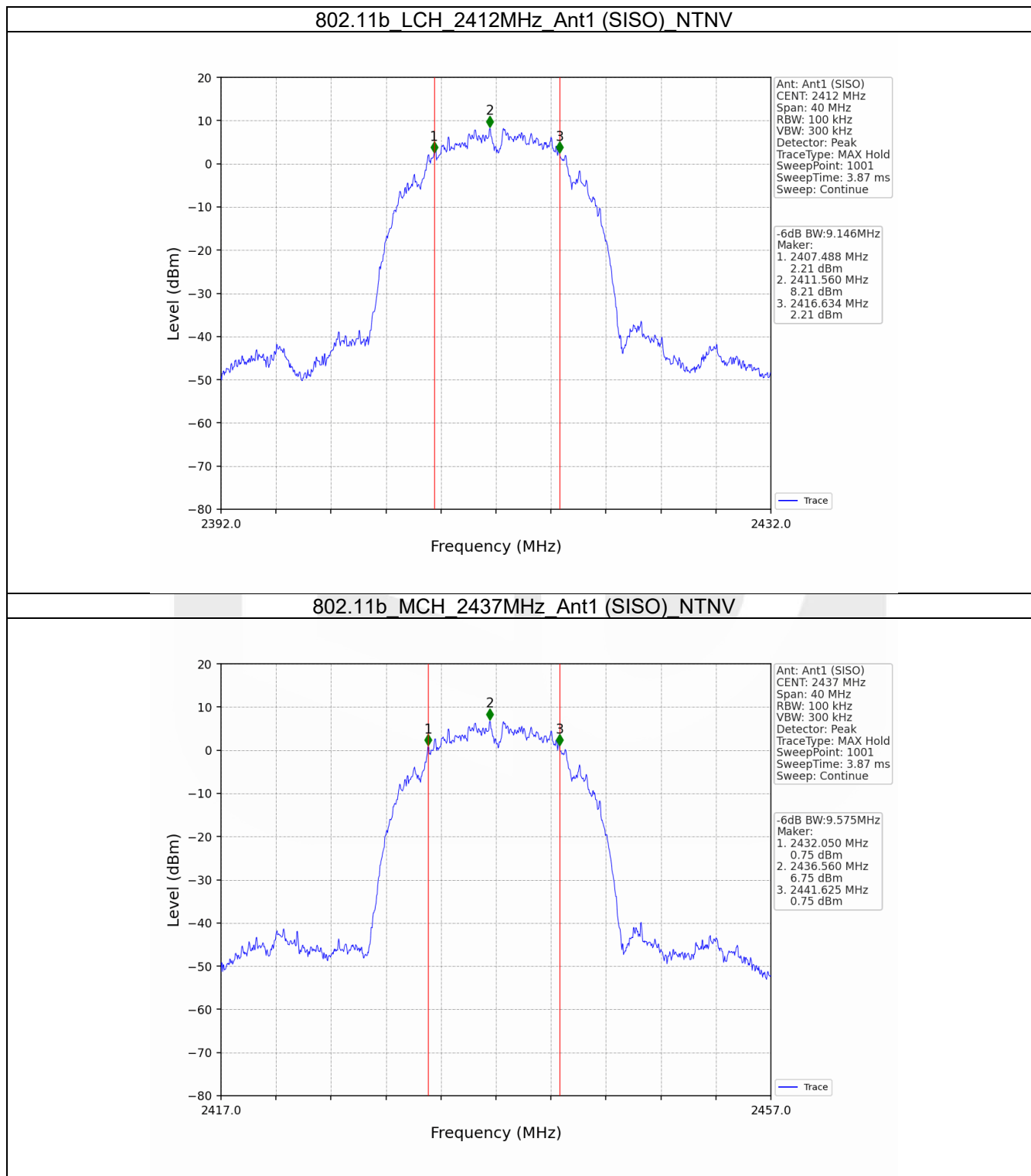


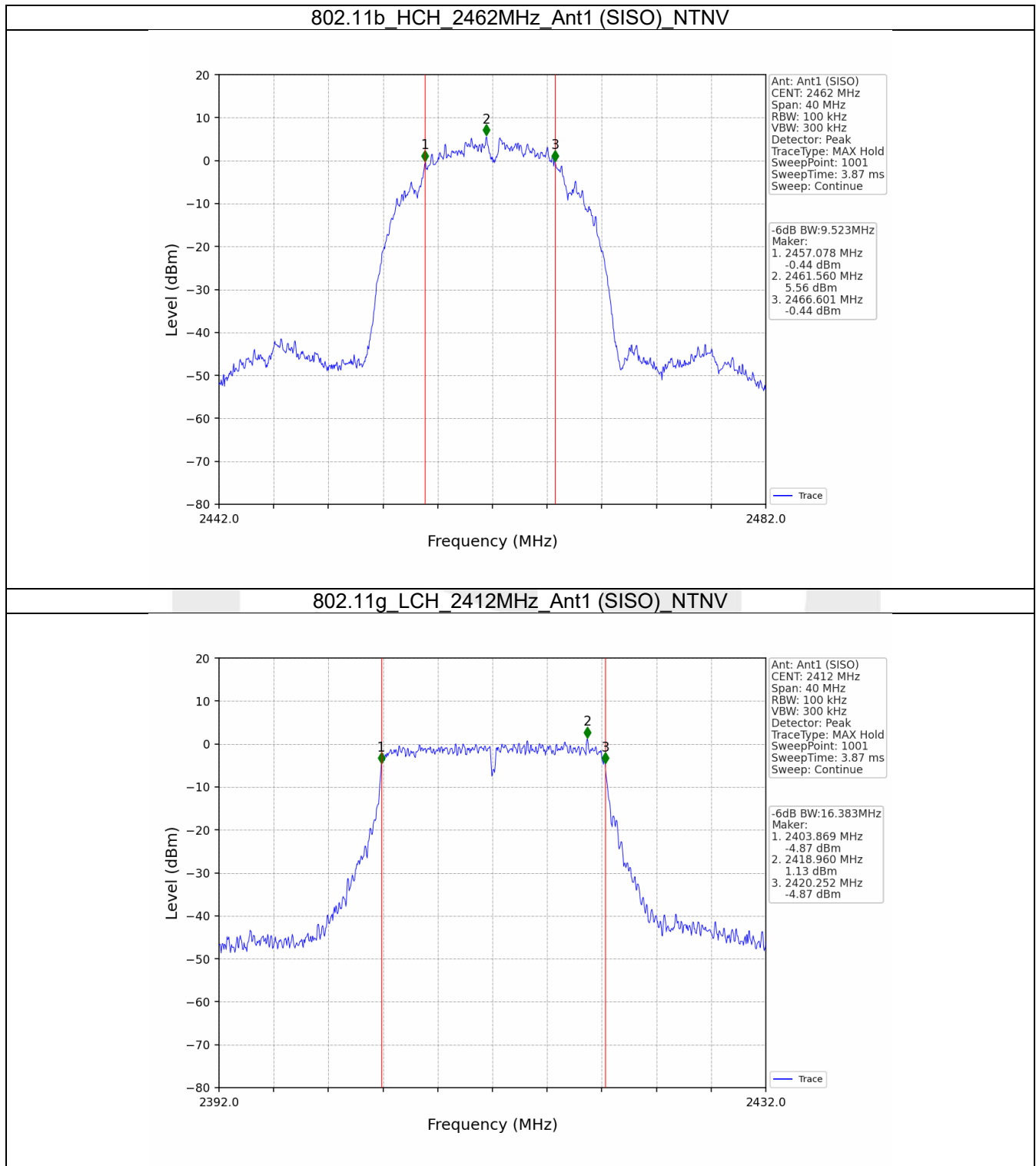
## 2.2 6dB BW

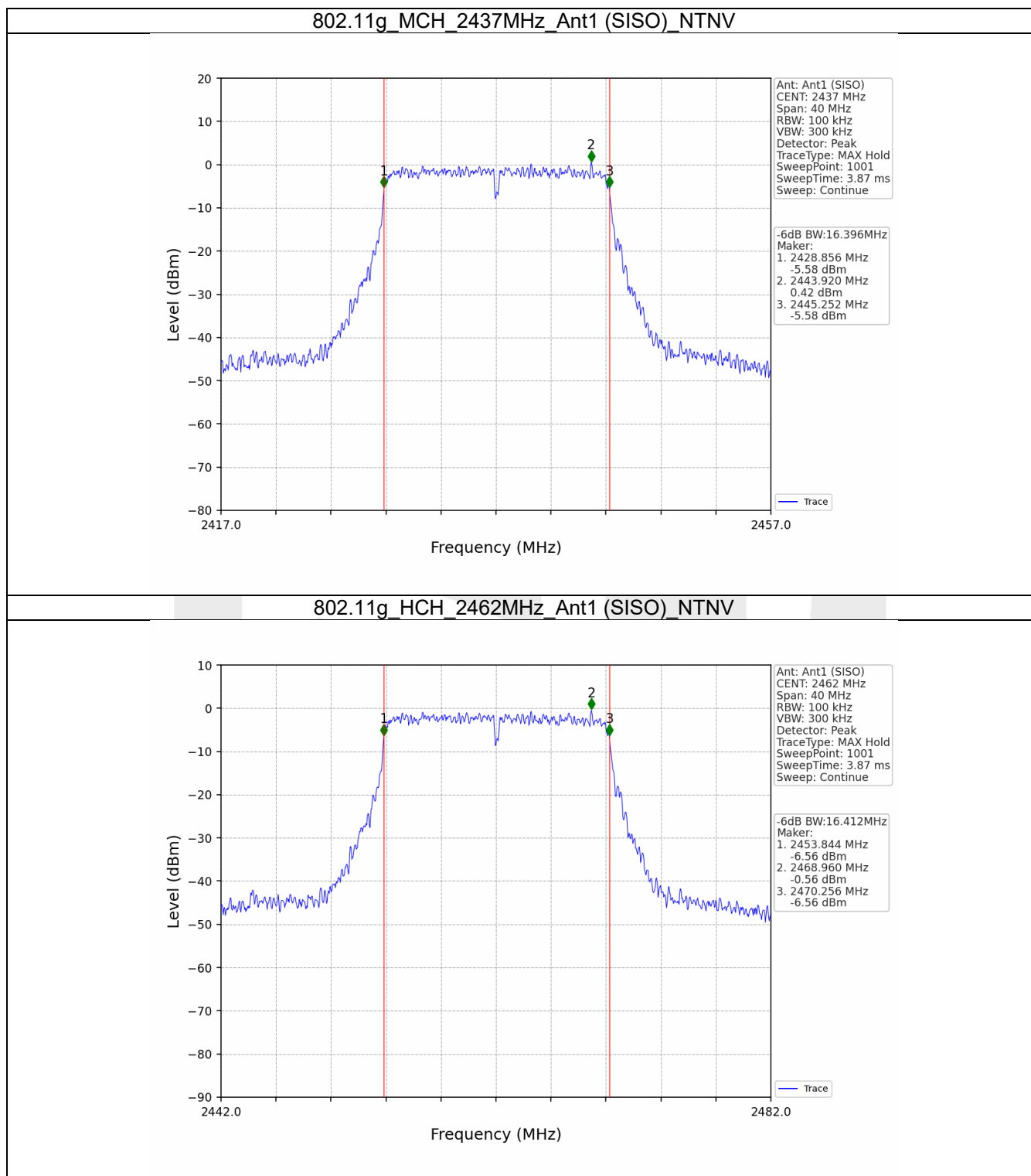
### 2.2.1 Test Result

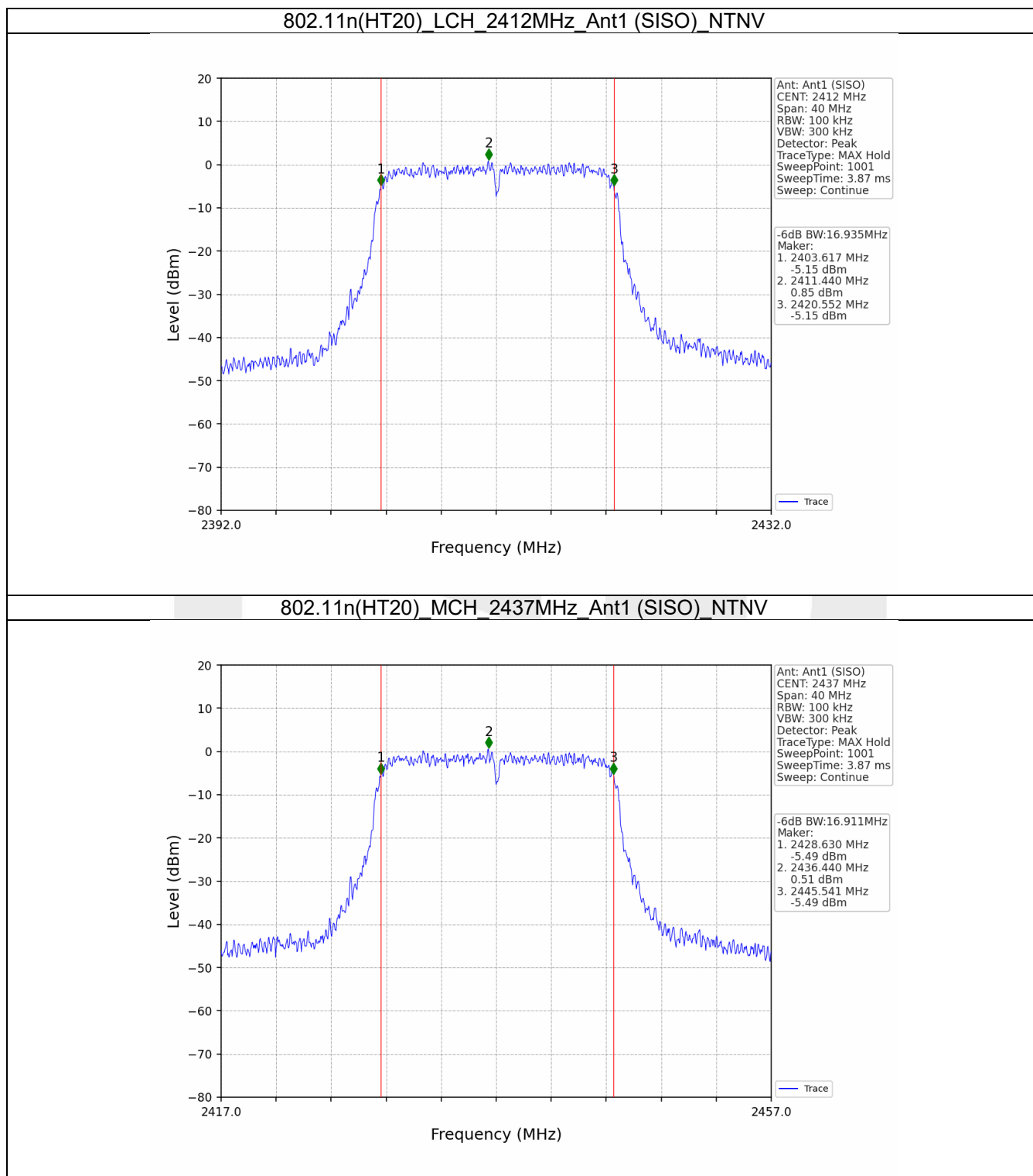
| Mode           | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
|                |         |                 |     | Result              | Limit      |         |
| 802.11b        | SISO    | 2412            | 1   | 9.146               | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 9.575               | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 9.523               | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 16.383              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 16.396              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 16.412              | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 16.935              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 16.911              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 16.918              | $\geq 0.5$ | Pass    |

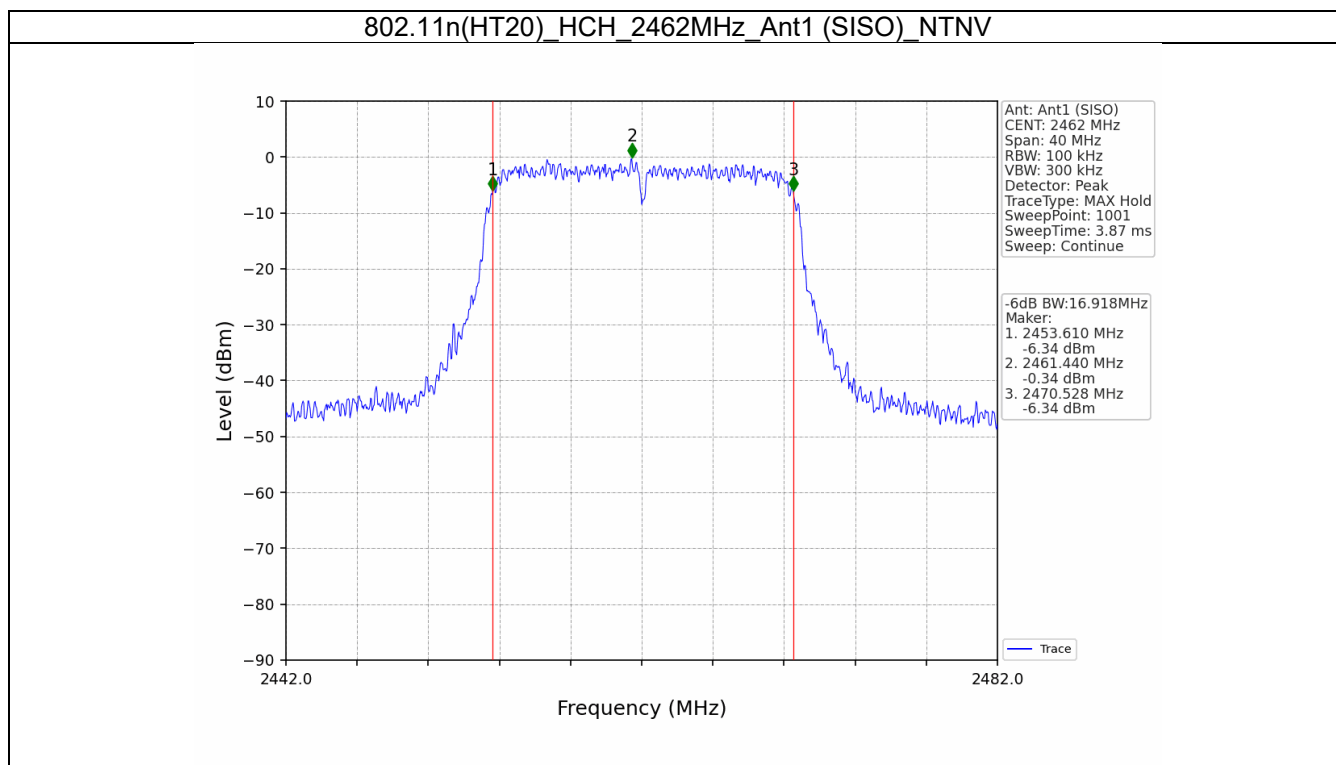
## 2.2.2 Test Graph











### 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            | 22.91                                     | <=30  | Pass    |
|                |         | 2437            | 21.50                                     | <=30  | Pass    |
|                |         | 2462            | 20.24                                     | <=30  | Pass    |
| 802.11g        | SISO    | 2412            | 21.70                                     | <=30  | Pass    |
|                |         | 2437            | 21.27                                     | <=30  | Pass    |
|                |         | 2462            | 20.51                                     | <=30  | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 21.68                                     | <=30  | Pass    |
|                |         | 2437            | 21.19                                     | <=30  | Pass    |
|                |         | 2462            | 20.33                                     | <=30  | Pass    |

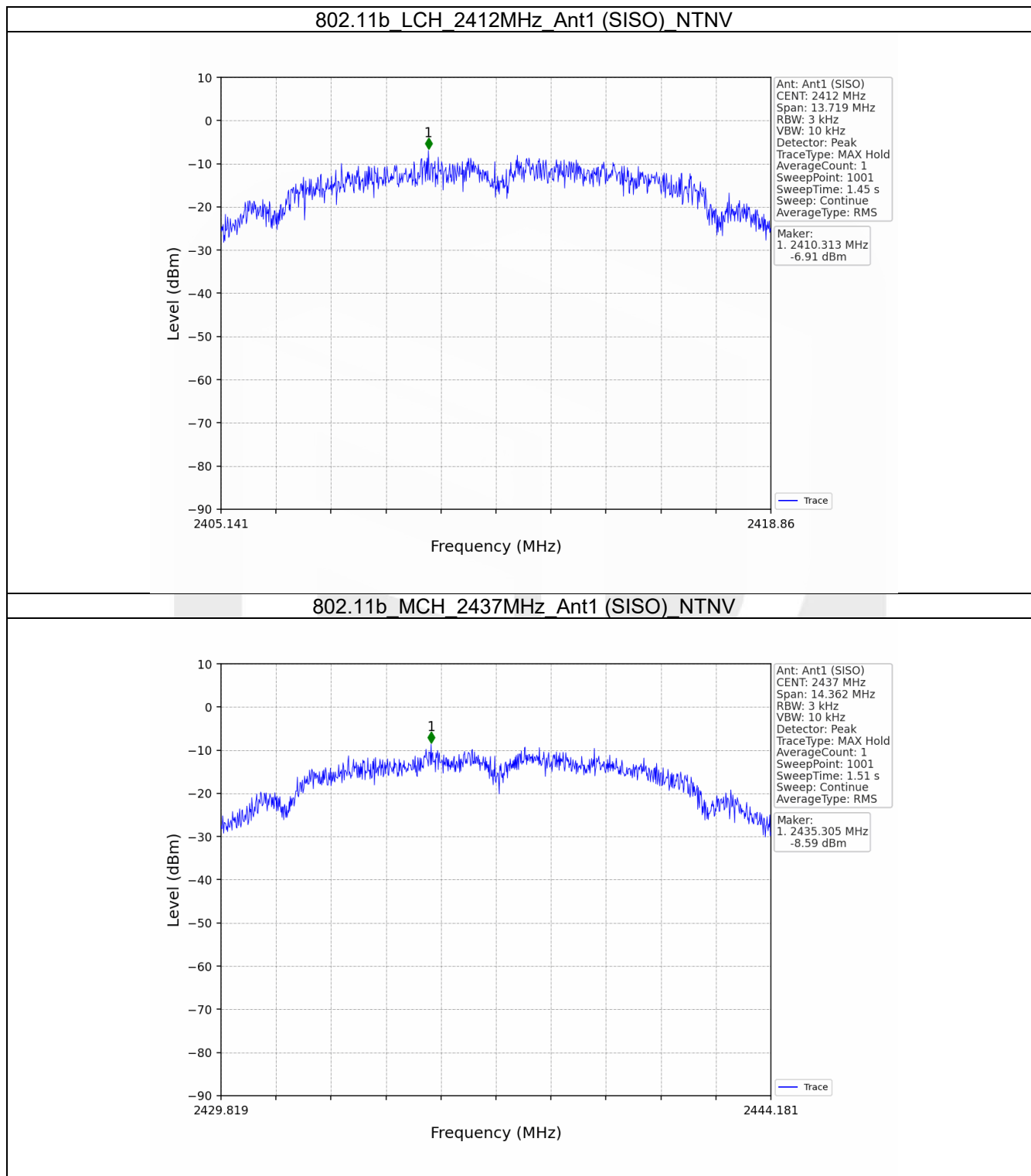
#### 4. Maximum Power Spectral Density

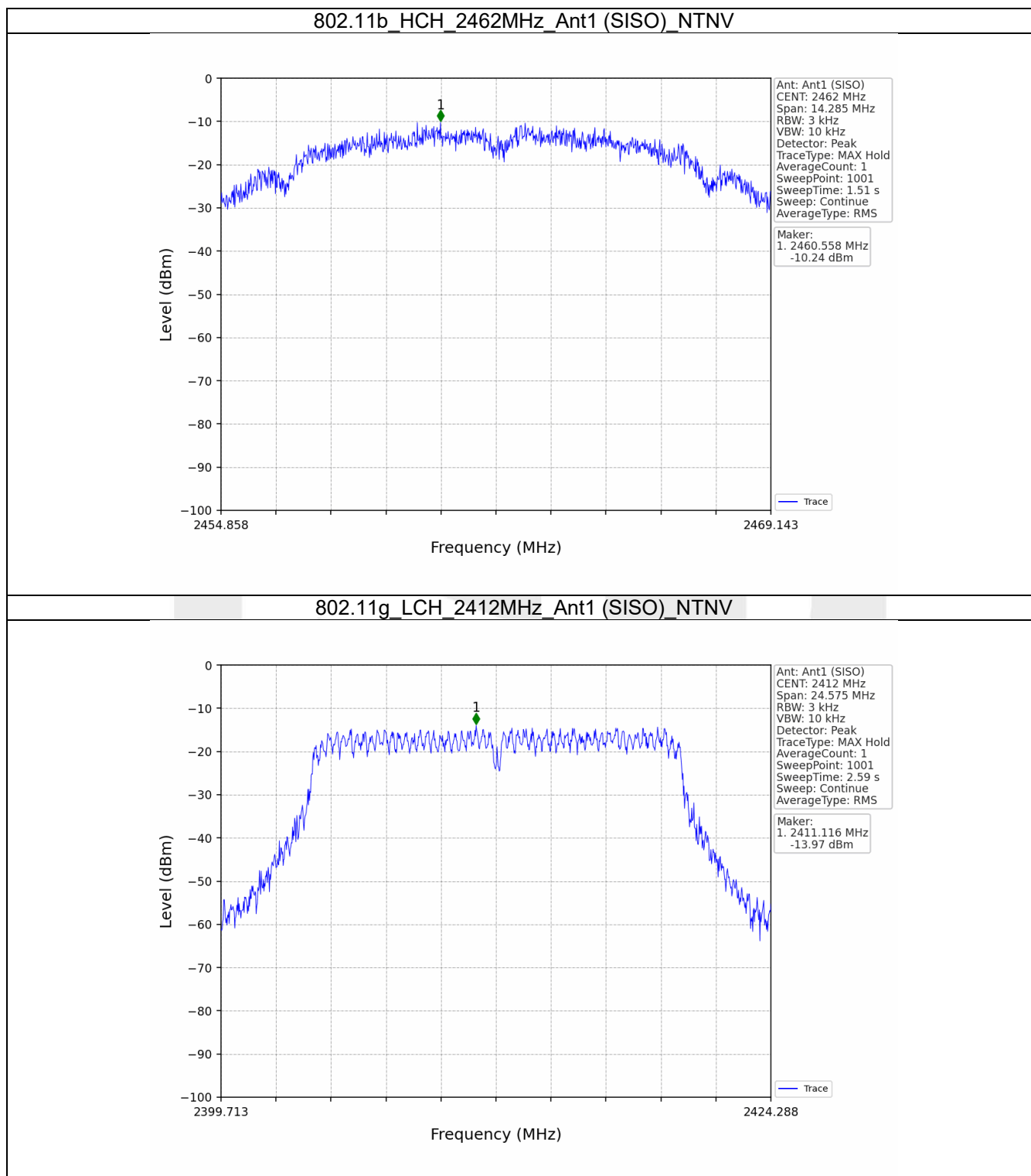
##### 4.1 PSD

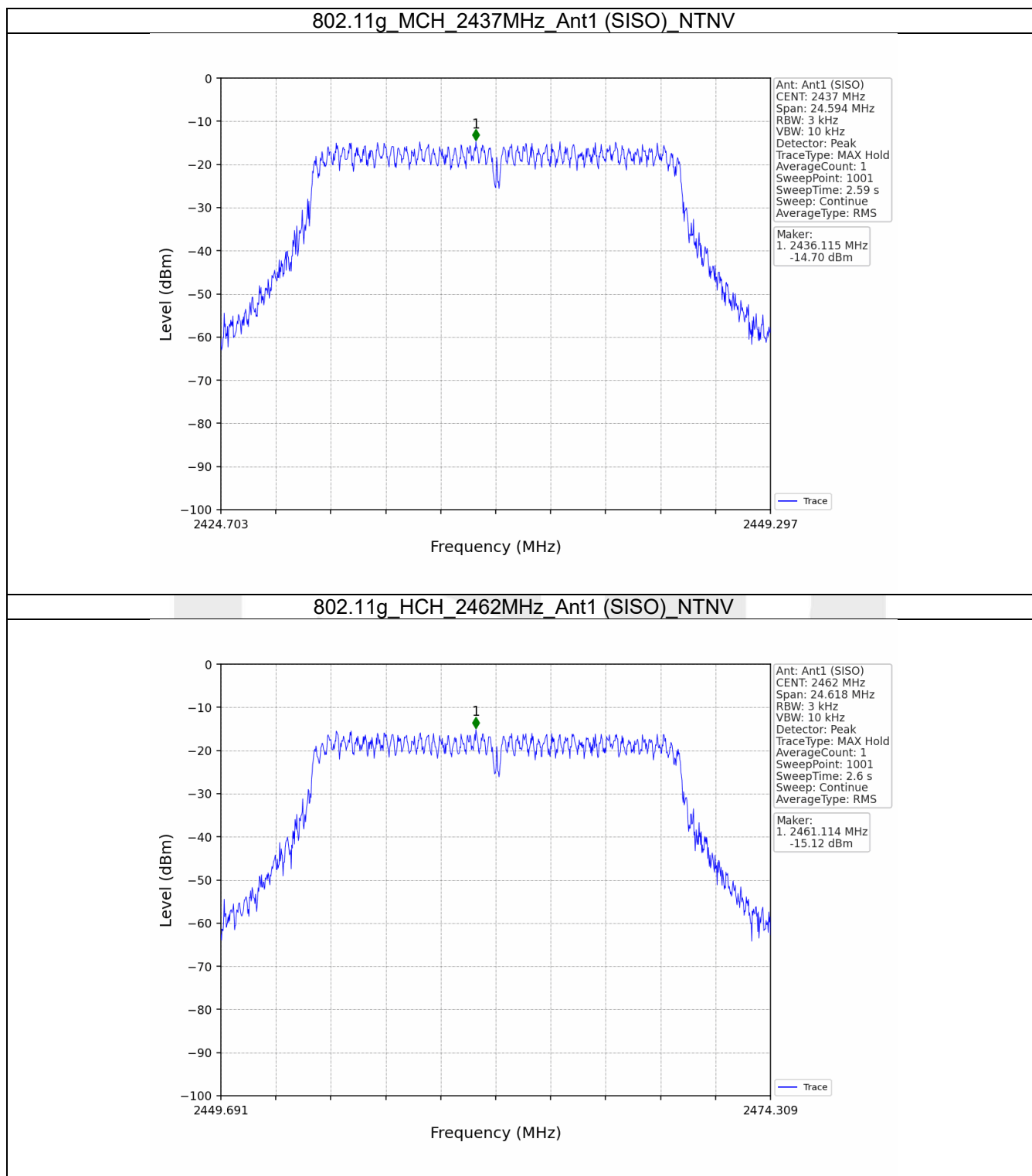
##### 4.1.1 Test Result

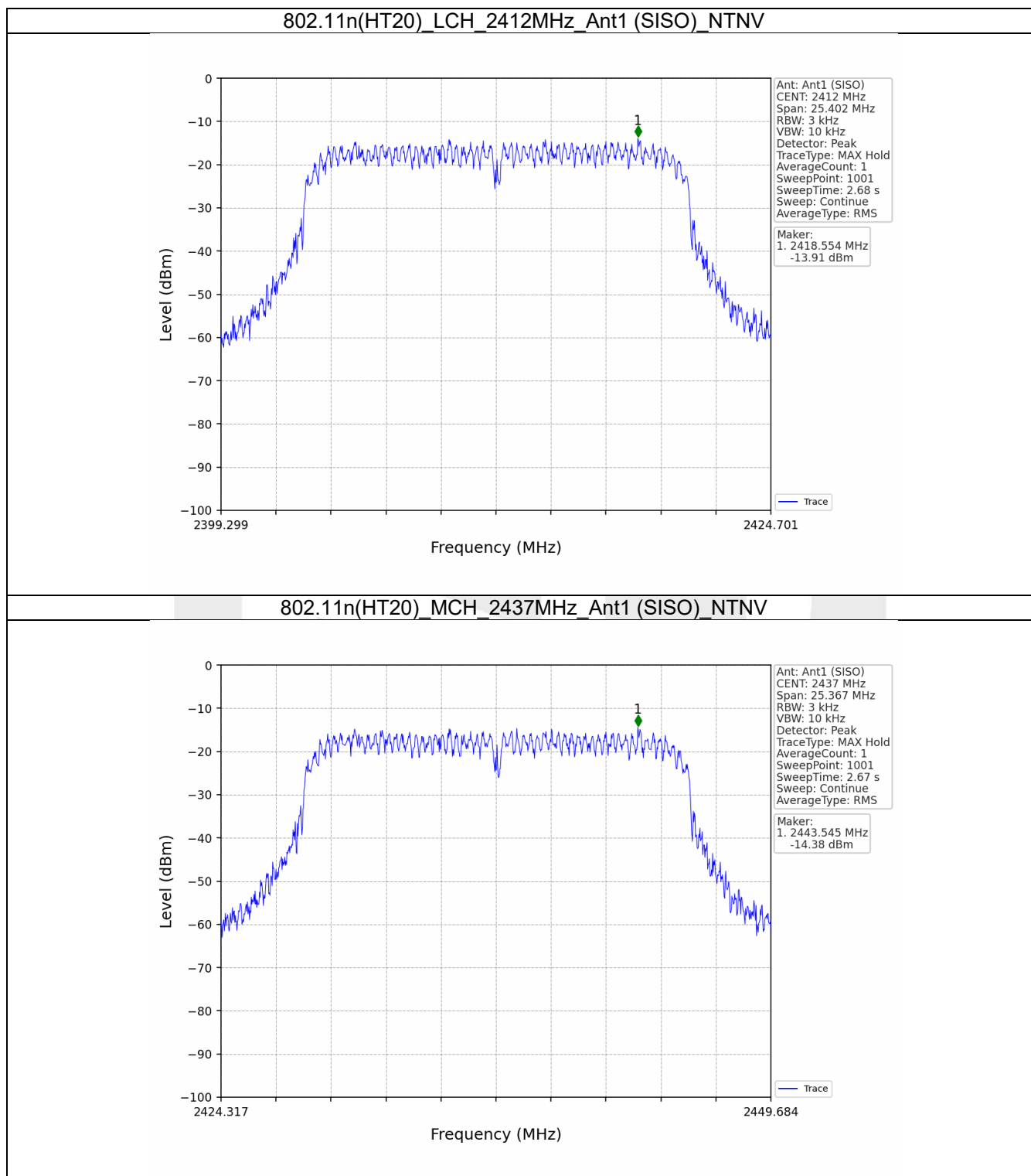
| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|----------------|---------|-----------------|------------------------|-------|---------|
|                |         |                 | ANT1                   | Limit |         |
| 802.11b        | SISO    | 2412            | -6.91                  | <=8   | Pass    |
|                |         | 2437            | -8.59                  | <=8   | Pass    |
|                |         | 2462            | -10.24                 | <=8   | Pass    |
| 802.11g        | SISO    | 2412            | -13.97                 | <=8   | Pass    |
|                |         | 2437            | -14.70                 | <=8   | Pass    |
|                |         | 2462            | -15.12                 | <=8   | Pass    |
| 802.11n (HT20) | SISO    | 2412            | -13.91                 | <=8   | Pass    |
|                |         | 2437            | -14.38                 | <=8   | Pass    |
|                |         | 2462            | -15.32                 | <=8   | Pass    |

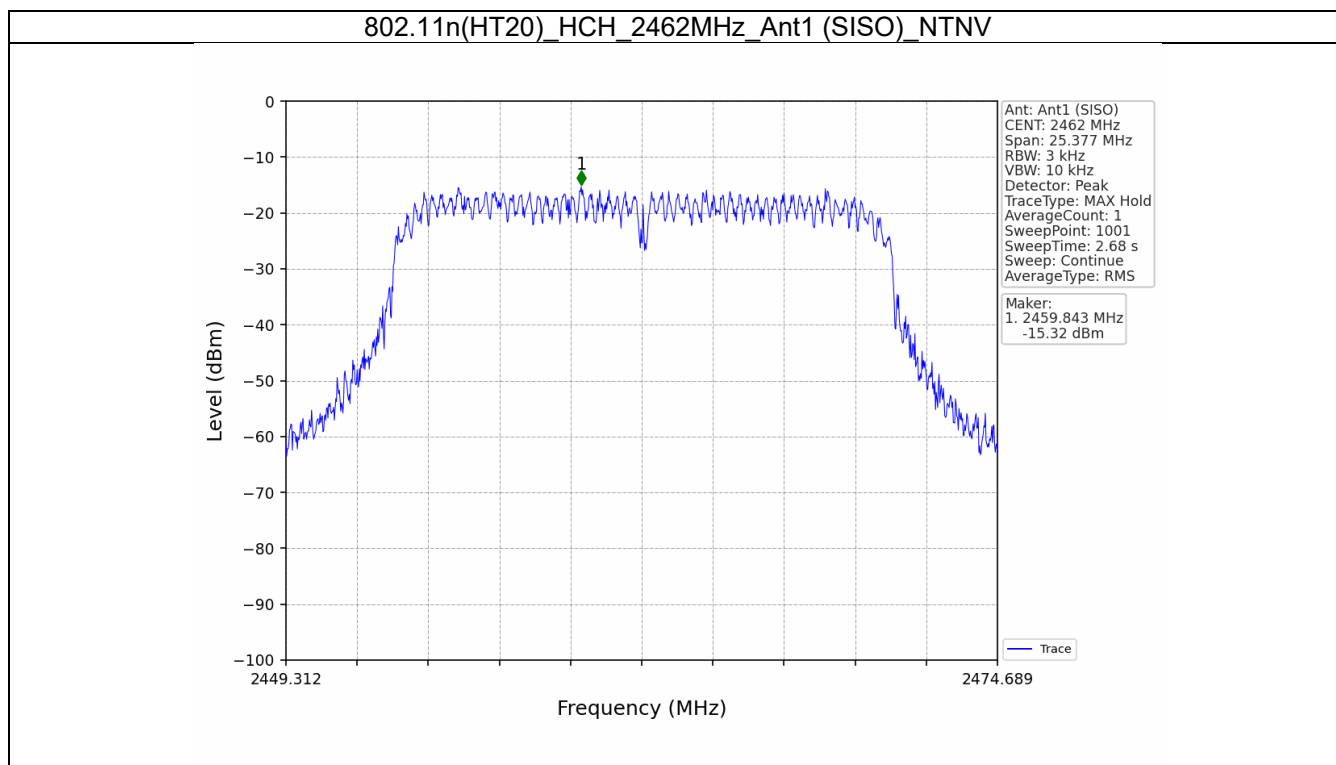
#### 4.1.2 Test Graph











## 5. Unwanted Emissions In Non-restricted Frequency Bands

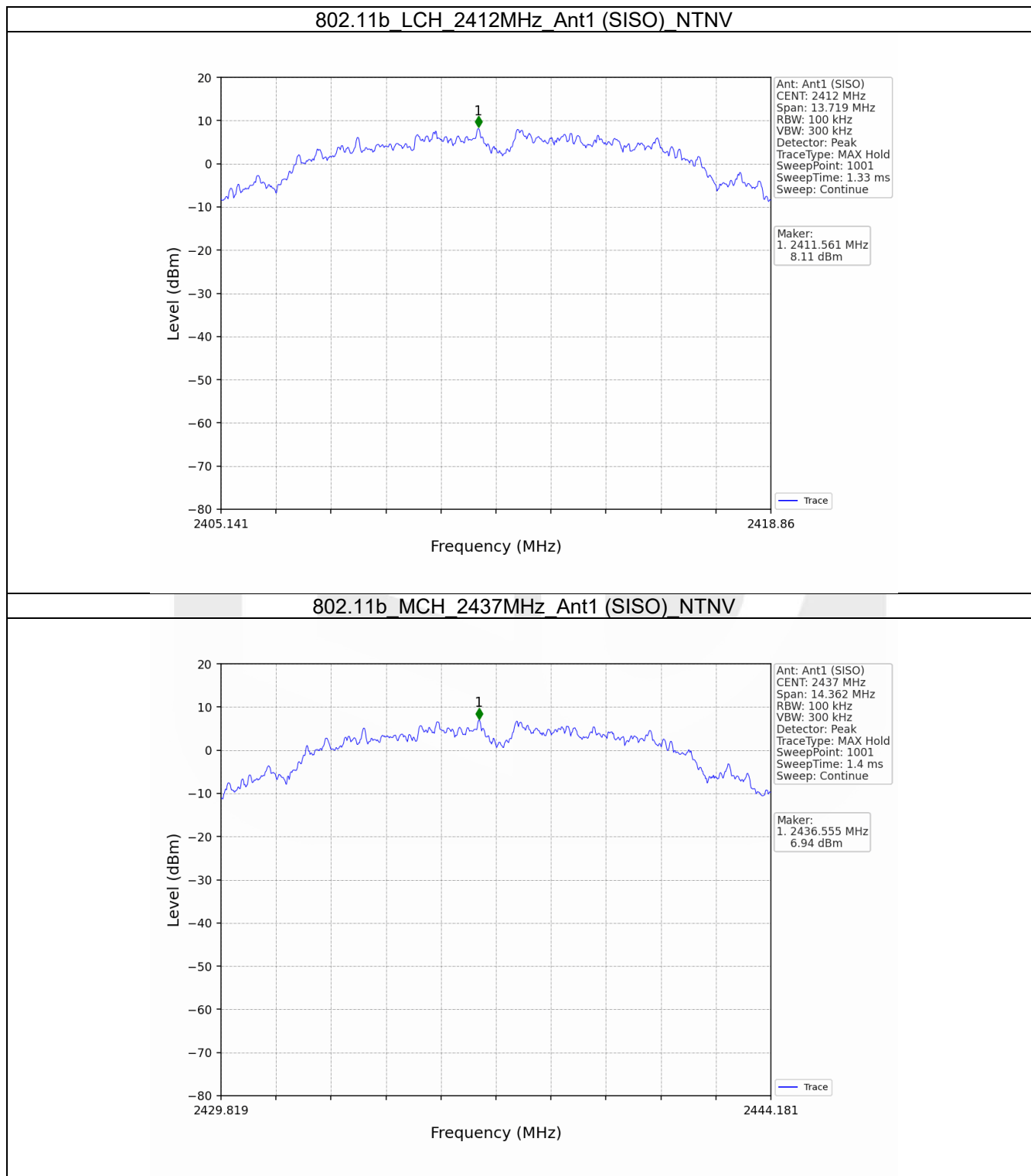
### 5.1 Ref

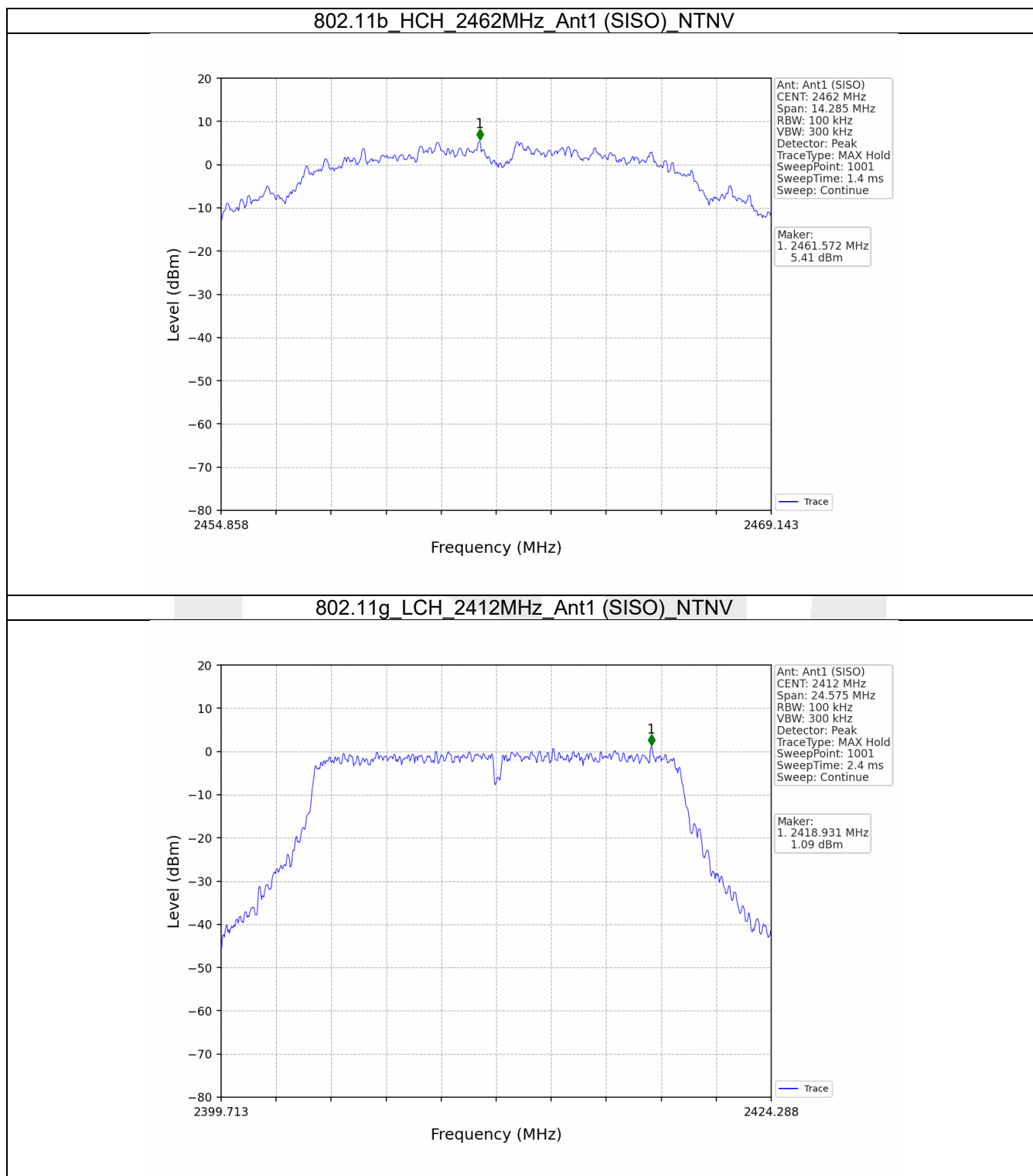
#### 5.1.1 Test Result

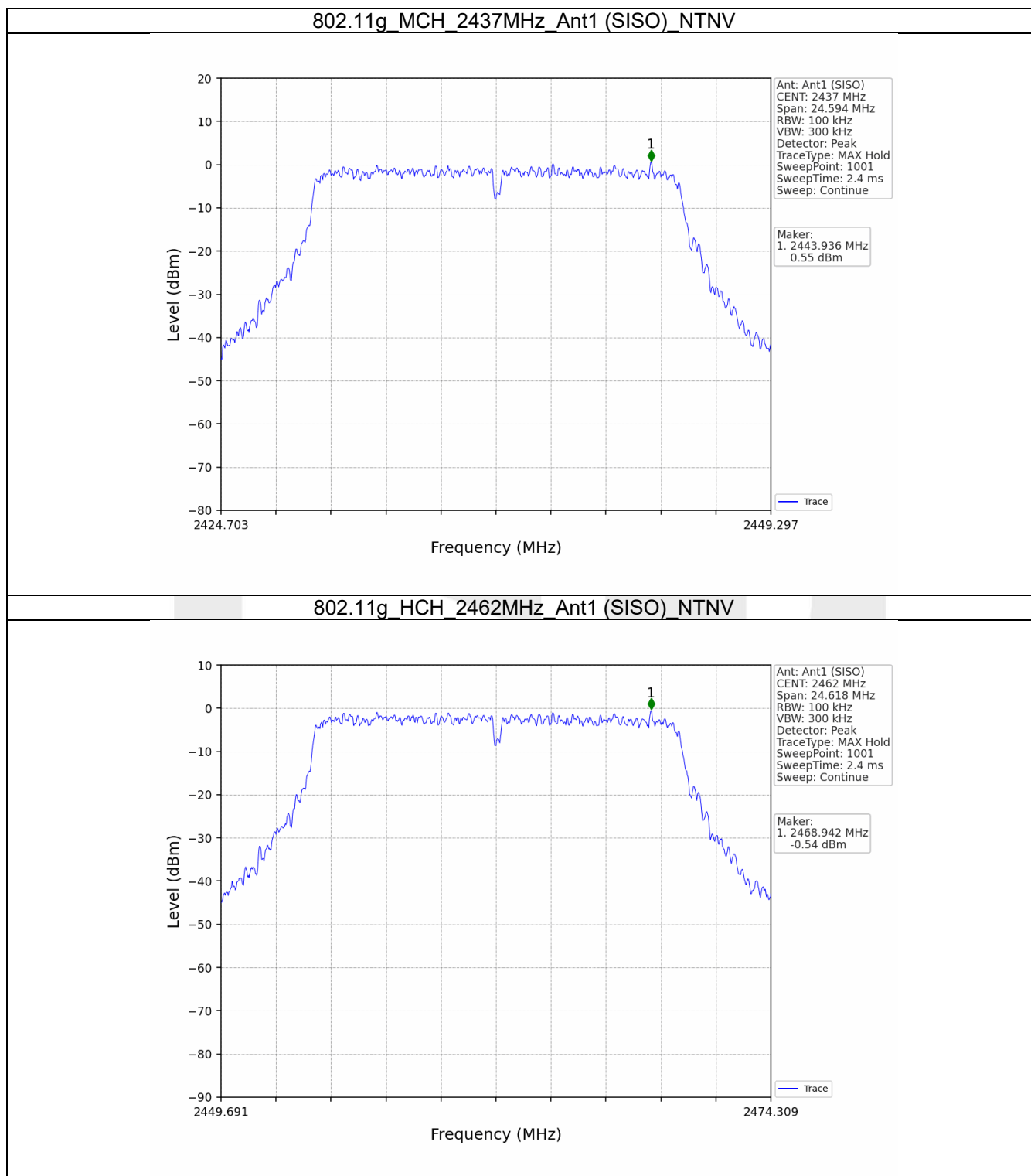
| Mode           | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b        | SISO    | 2412            | 1   | 8.11                     |
|                |         | 2437            | 1   | 6.94                     |
|                |         | 2462            | 1   | 5.41                     |
| 802.11g        | SISO    | 2412            | 1   | 1.09                     |
|                |         | 2437            | 1   | 0.55                     |
|                |         | 2462            | 1   | -0.54                    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 0.94                     |
|                |         | 2437            | 1   | 0.31                     |
|                |         | 2462            | 1   | -0.39                    |

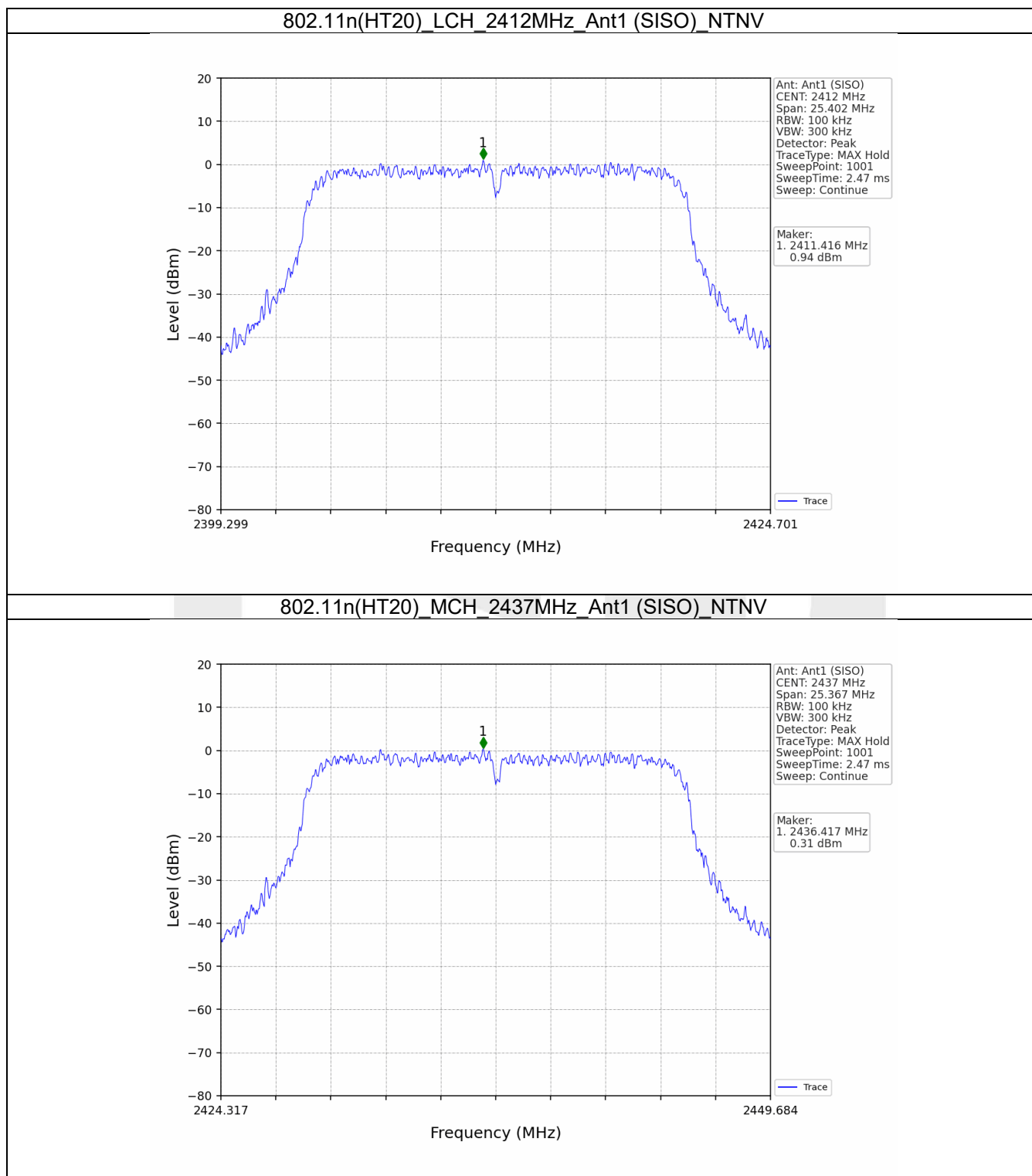
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

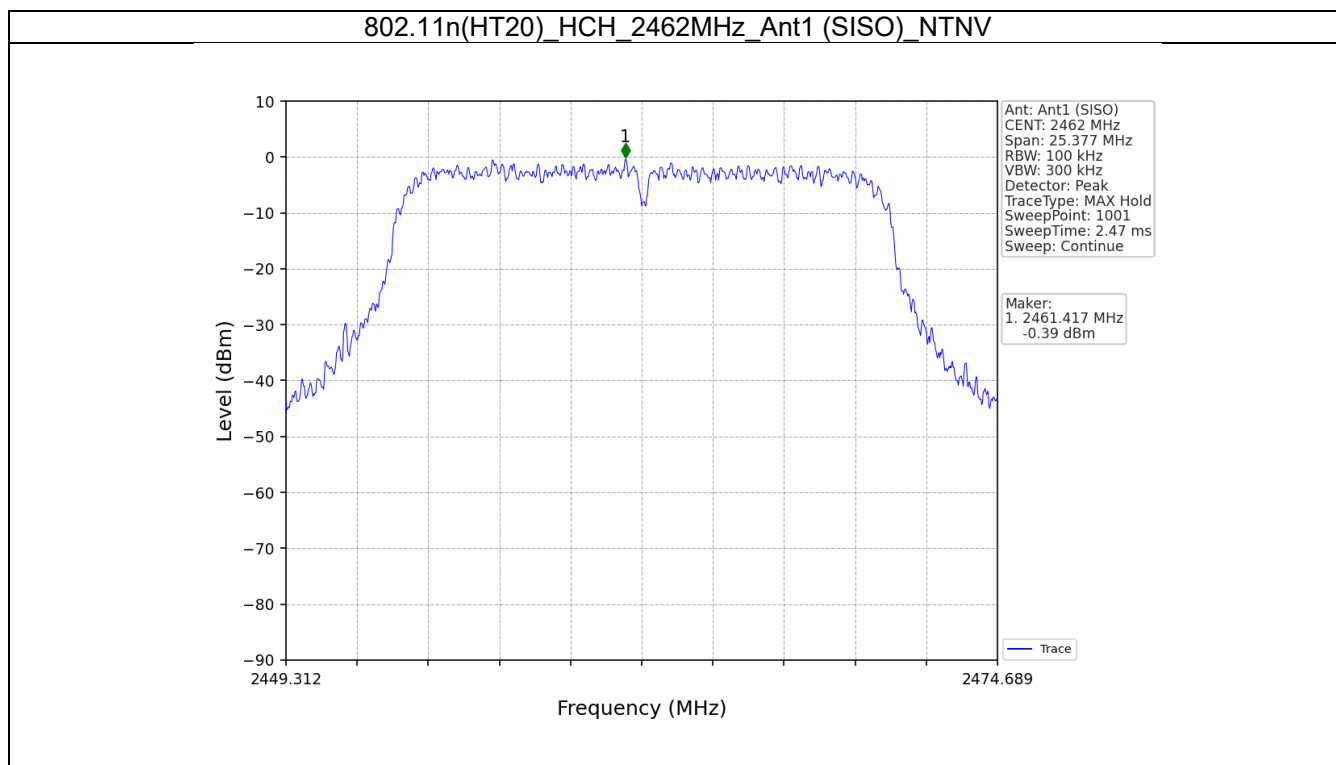
### 5.1.2 Test Graph









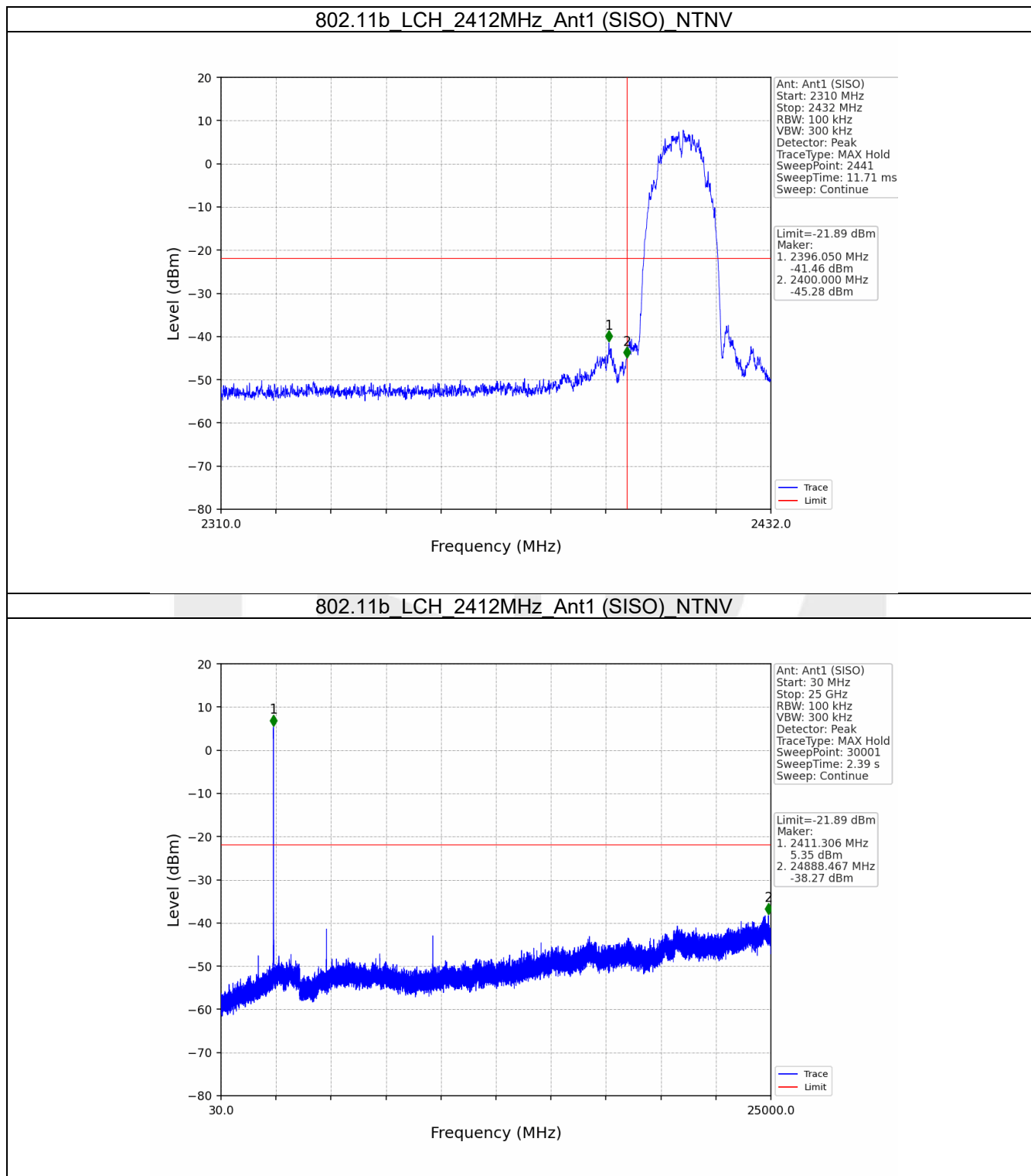


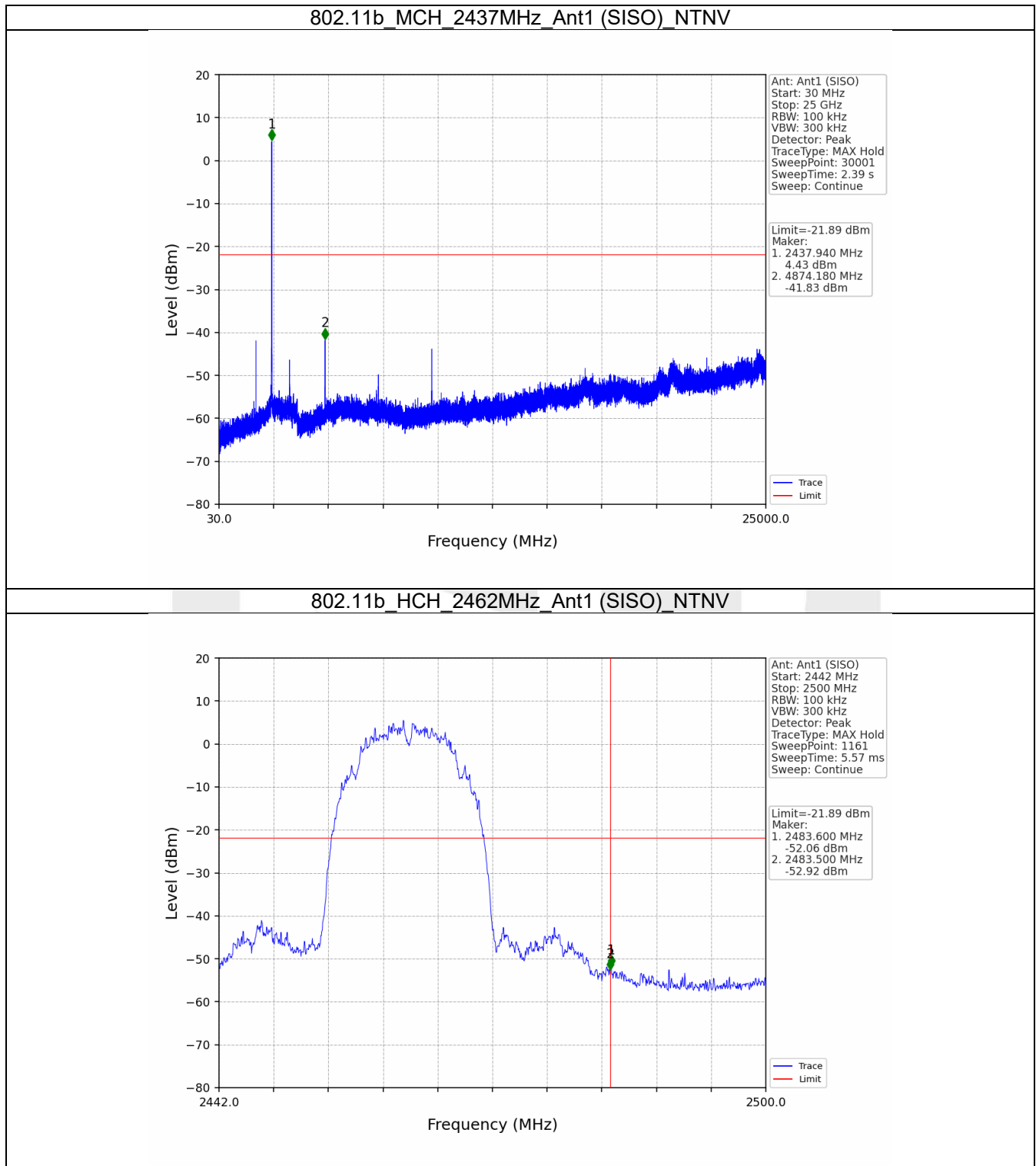
## 5.2 CSE

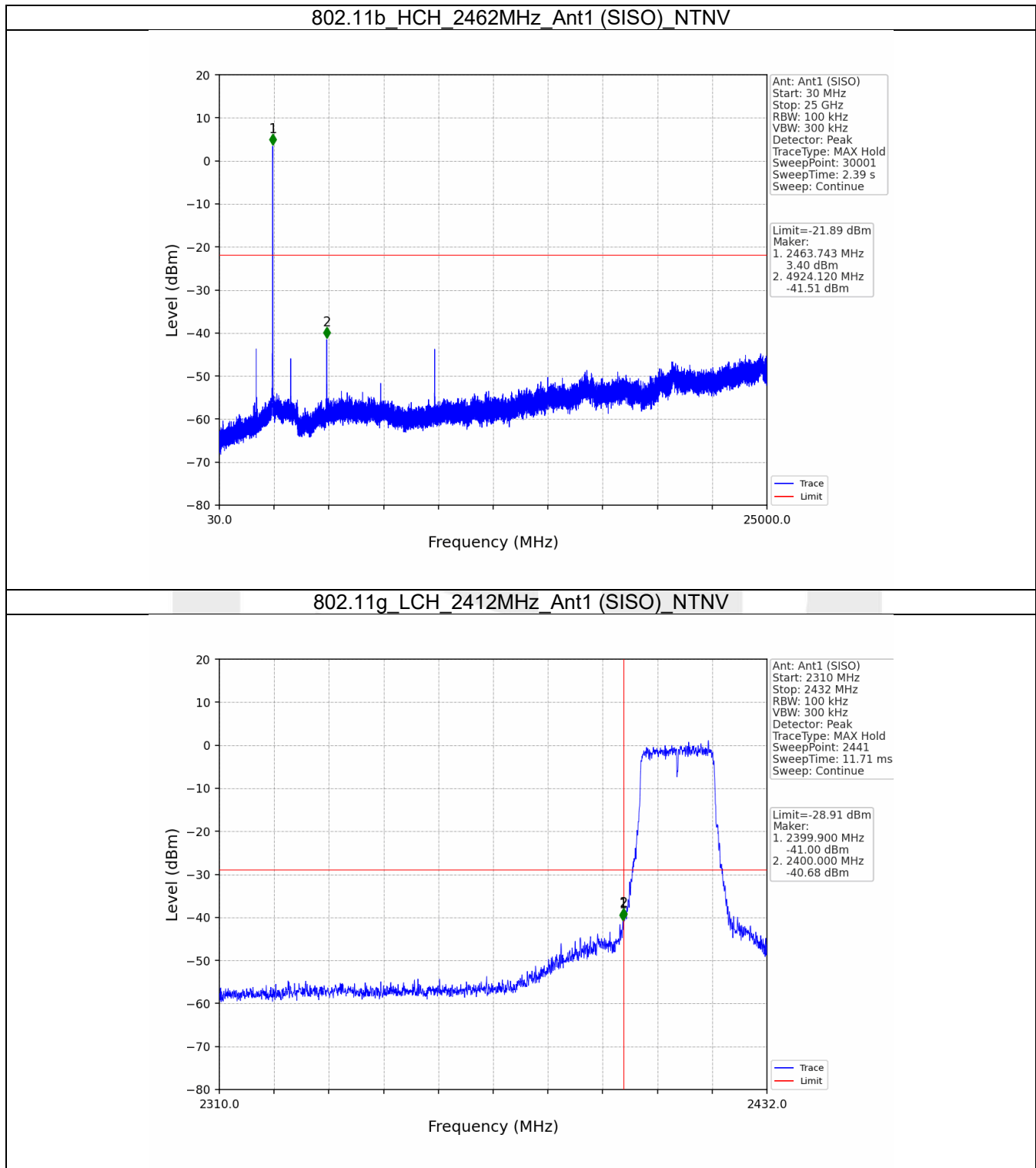
### 5.2.1 Test Result

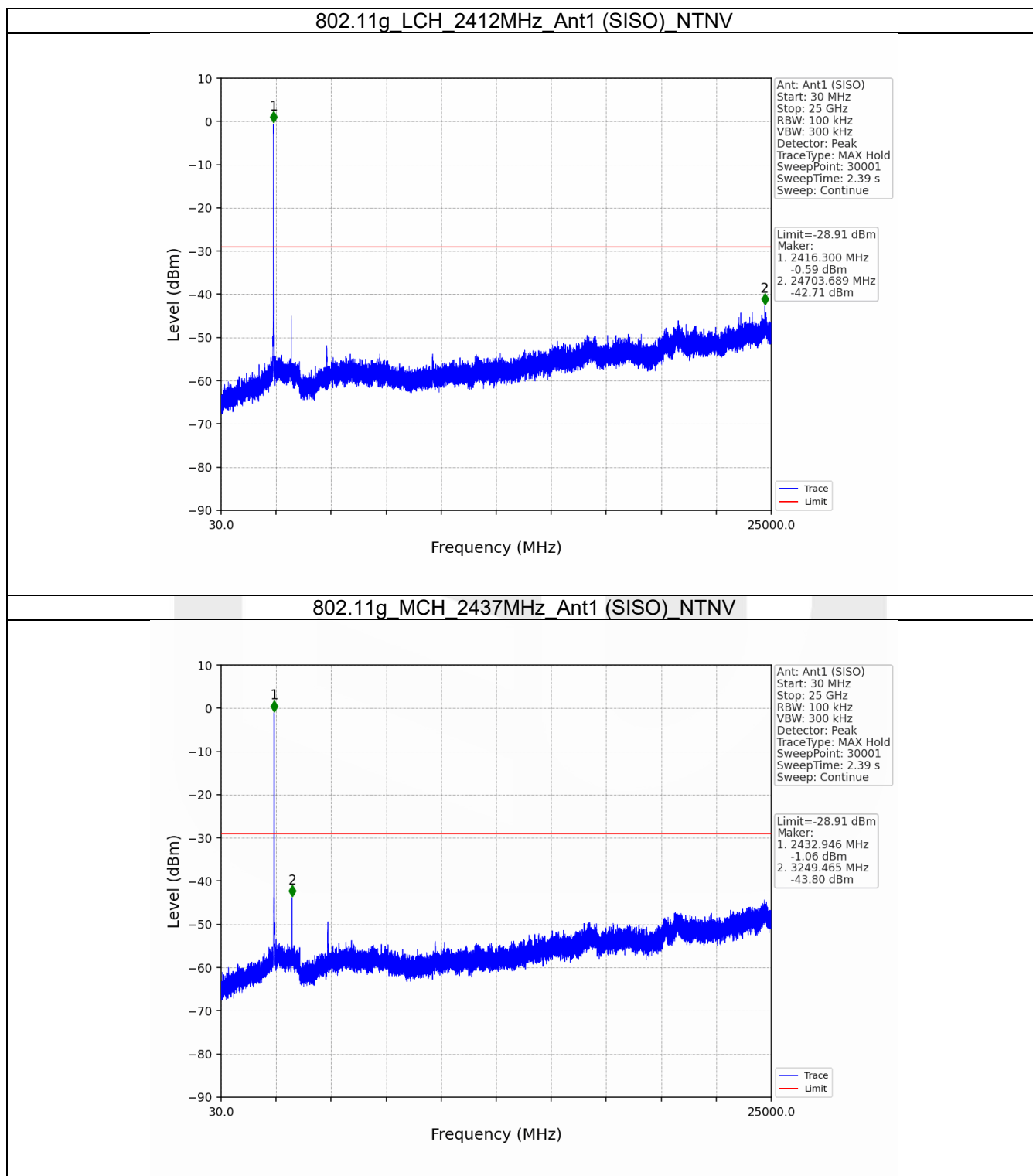
| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b                                                                                                                                         | SISO    | 2412            | 1   | 8.11                     | -21.89      | Pass    |
|                                                                                                                                                 |         | 2437            | 1   | 8.11                     | -21.89      | Pass    |
|                                                                                                                                                 |         | 2462            | 1   | 8.11                     | -21.89      | Pass    |
| 802.11g                                                                                                                                         | SISO    | 2412            | 1   | 1.09                     | -28.91      | Pass    |
|                                                                                                                                                 |         | 2437            | 1   | 1.09                     | -28.91      | Pass    |
|                                                                                                                                                 |         | 2462            | 1   | 1.09                     | -28.91      | Pass    |
| 802.11n (HT20)                                                                                                                                  | SISO    | 2412            | 1   | 0.94                     | -29.06      | Pass    |
|                                                                                                                                                 |         | 2437            | 1   | 0.94                     | -29.06      | Pass    |
|                                                                                                                                                 |         | 2462            | 1   | 0.94                     | -29.06      | Pass    |
| Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level. |         |                 |     |                          |             |         |

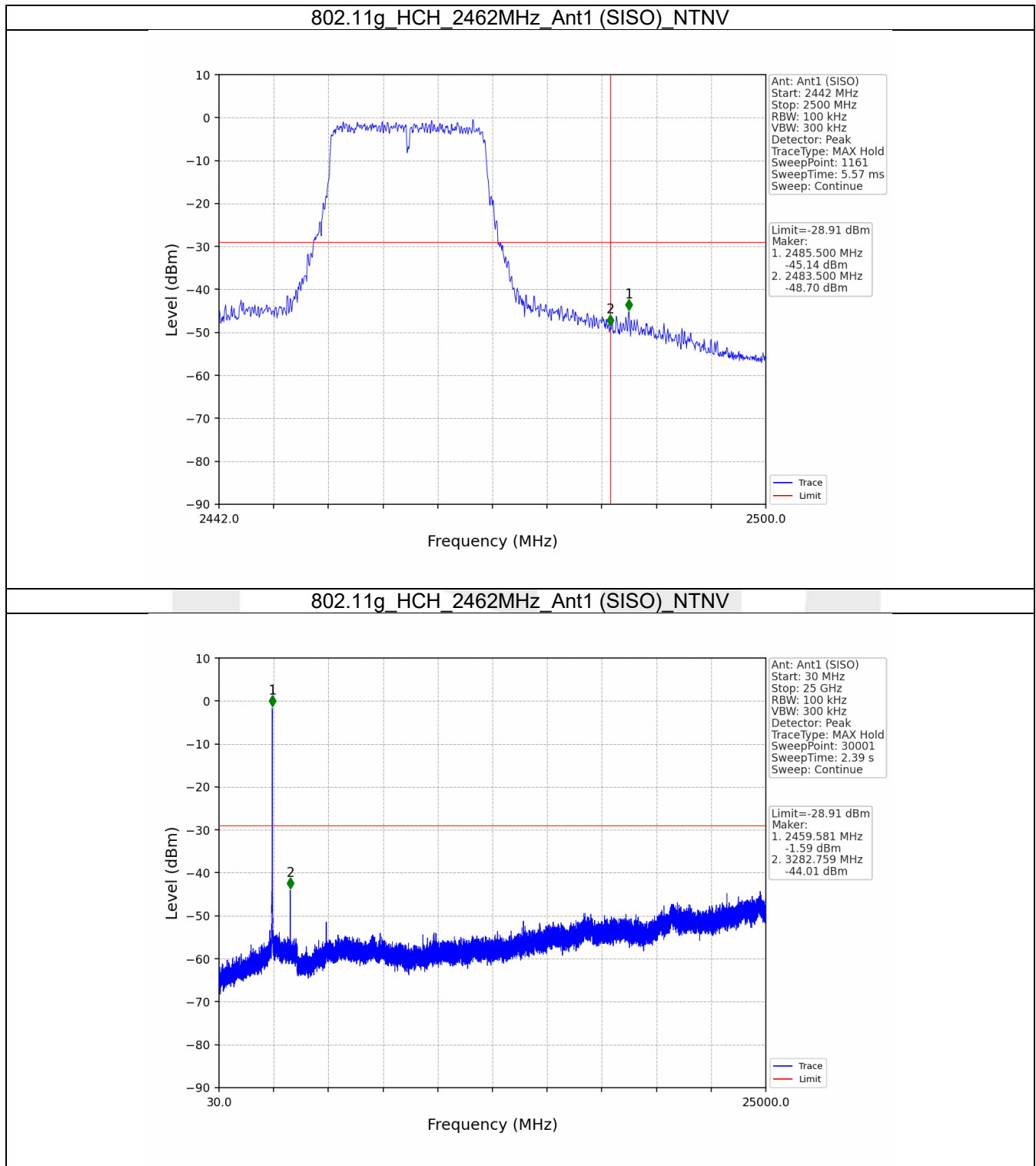
### 5.2.2 Test Graph

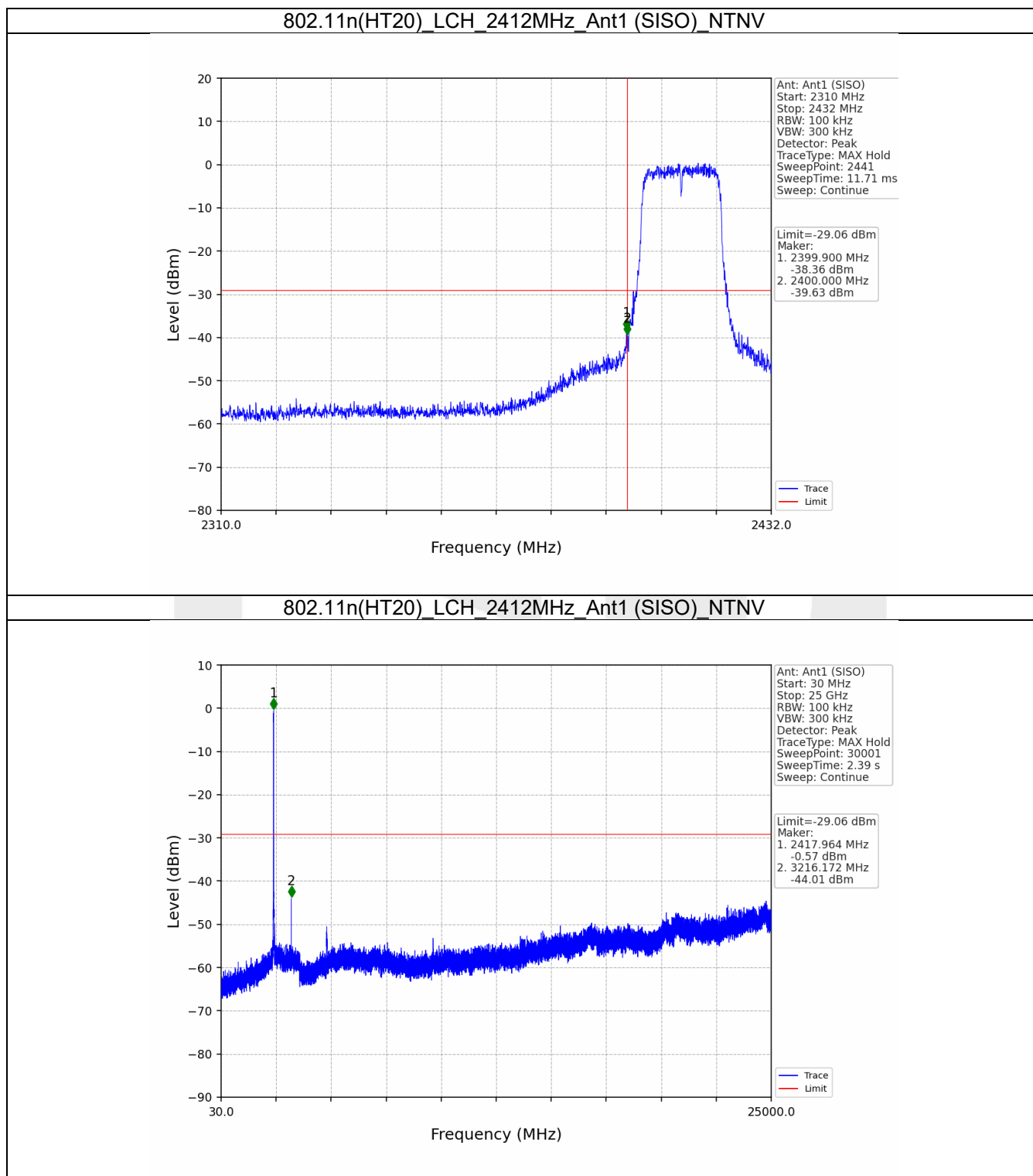


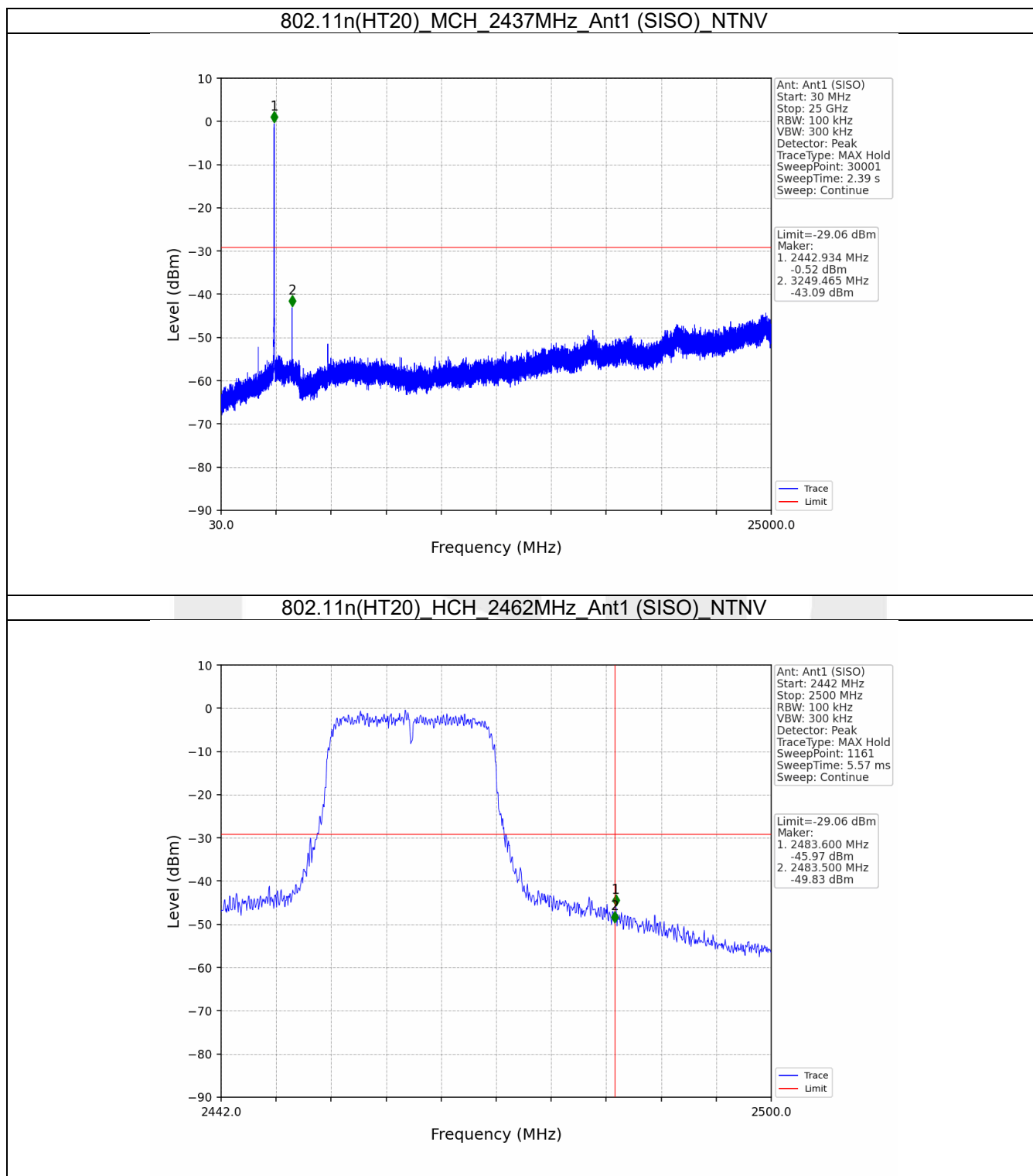


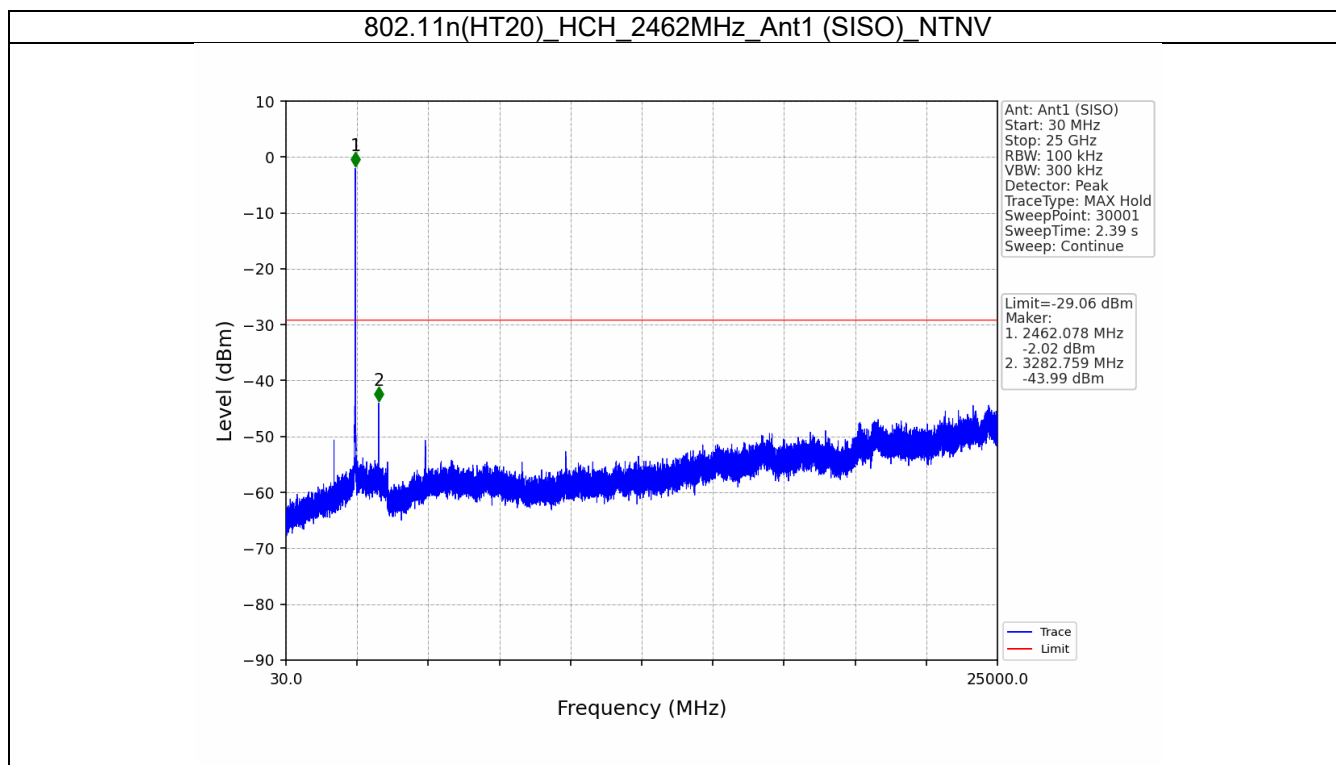












----- End of Report -----