



# FCC ID:2BK7M-PARTYMONSTER

## RF Test Report

### For

|                      |                                         |
|----------------------|-----------------------------------------|
| Project No.:         | ZKT-240918L11741E-1                     |
| Client:              | Rockcell Technology (ShenZhen) CO., LTD |
| Manufacturer:        | Rockcell Technology (ShenZhen) CO., LTD |
| Product Description: | Wireless Transmitter                    |
| Model No.            | Party Monster                           |
| Test Engineer:       | Franco chen                             |
| Test Date:           | 2024-09-16                              |

### 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   |
| Frequency Error                                      | Pass   |
| Form731                                              | Pass   |



## 1. Duty Cycle

### 1.1 Test Result

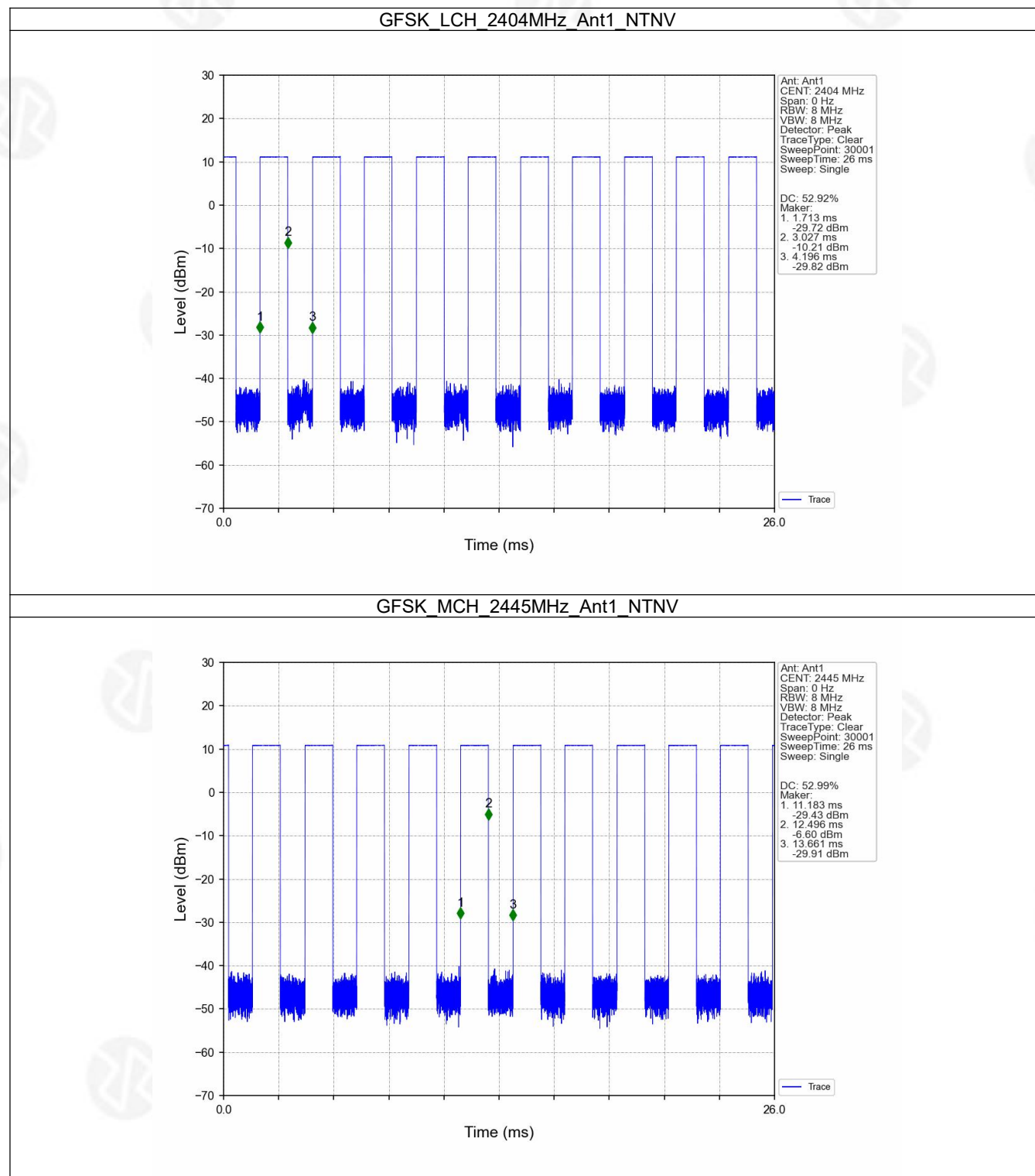
#### 1.1.1 Ant1

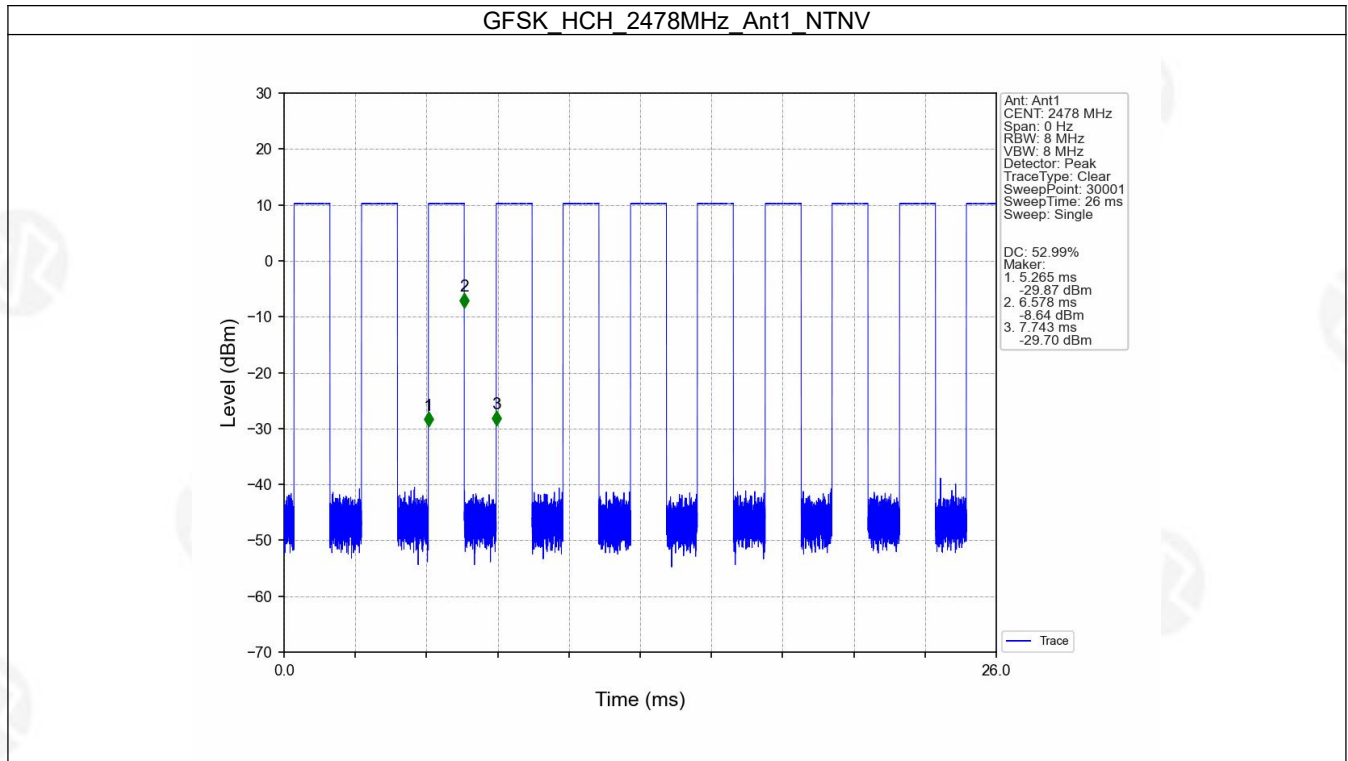
| Ant1 |         |                 |           |             |                |                                   |                       |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| GFSK | SISO    | 2404            | 1.314     | 2.483       | 52.92          | 2.76                              | 0.94                  |
|      |         | 2445            | 1.313     | 2.478       | 52.99          | 2.76                              | 0.86                  |
|      |         | 2478            | 1.313     | 2.478       | 52.99          | 2.76                              | 0.86                  |



## 1.2 Test Graph

### 1.2.1 Ant1







## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------|---------|-----------------|-----|------------------------------|-------|---------|
|      |         |                 |     | Result                       | Limit |         |
| GFSK | SISO    | 2404            | 1   | 1.150                        | /     | Pass    |
|      |         | 2445            | 1   | 1.150                        | /     | Pass    |
|      |         | 2478            | 1   | 1.150                        | /     | Pass    |

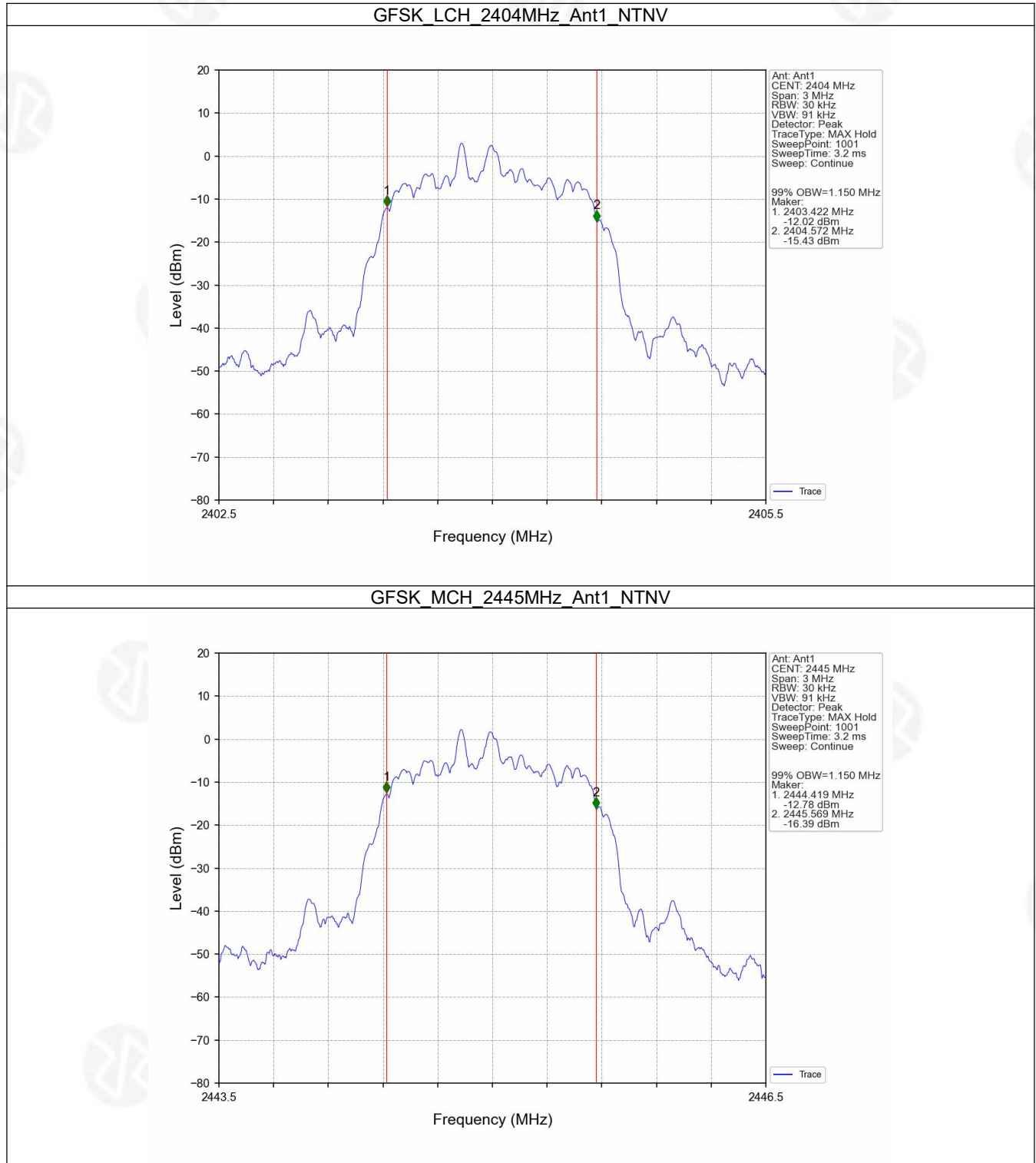
#### 2.1.2 6dB BW

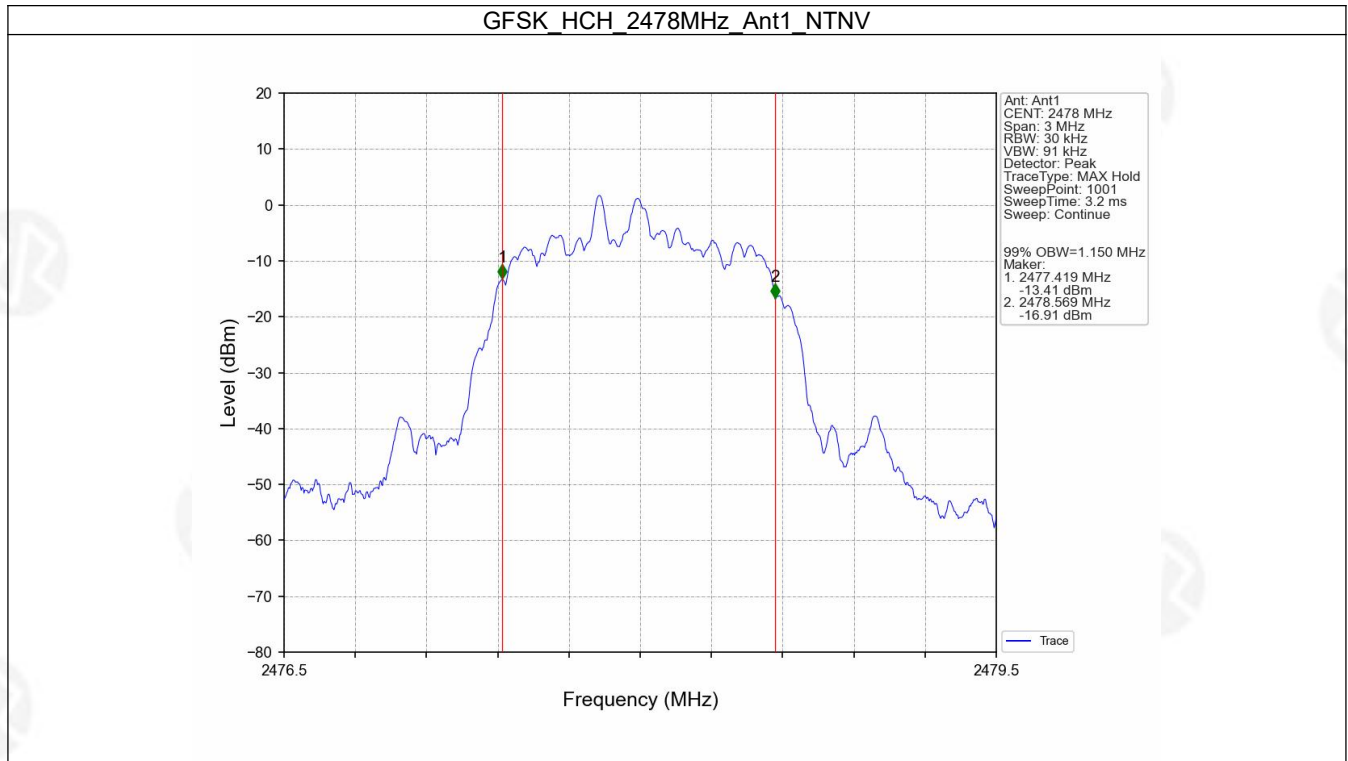
| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| GFSK | SISO    | 2404            | 1   | 0.806               | $\geq 0.5$ | Pass    |
|      |         | 2445            | 1   | 0.804               | $\geq 0.5$ | Pass    |
|      |         | 2478            | 1   | 0.784               | $\geq 0.5$ | Pass    |



## 2.2 Test Graph

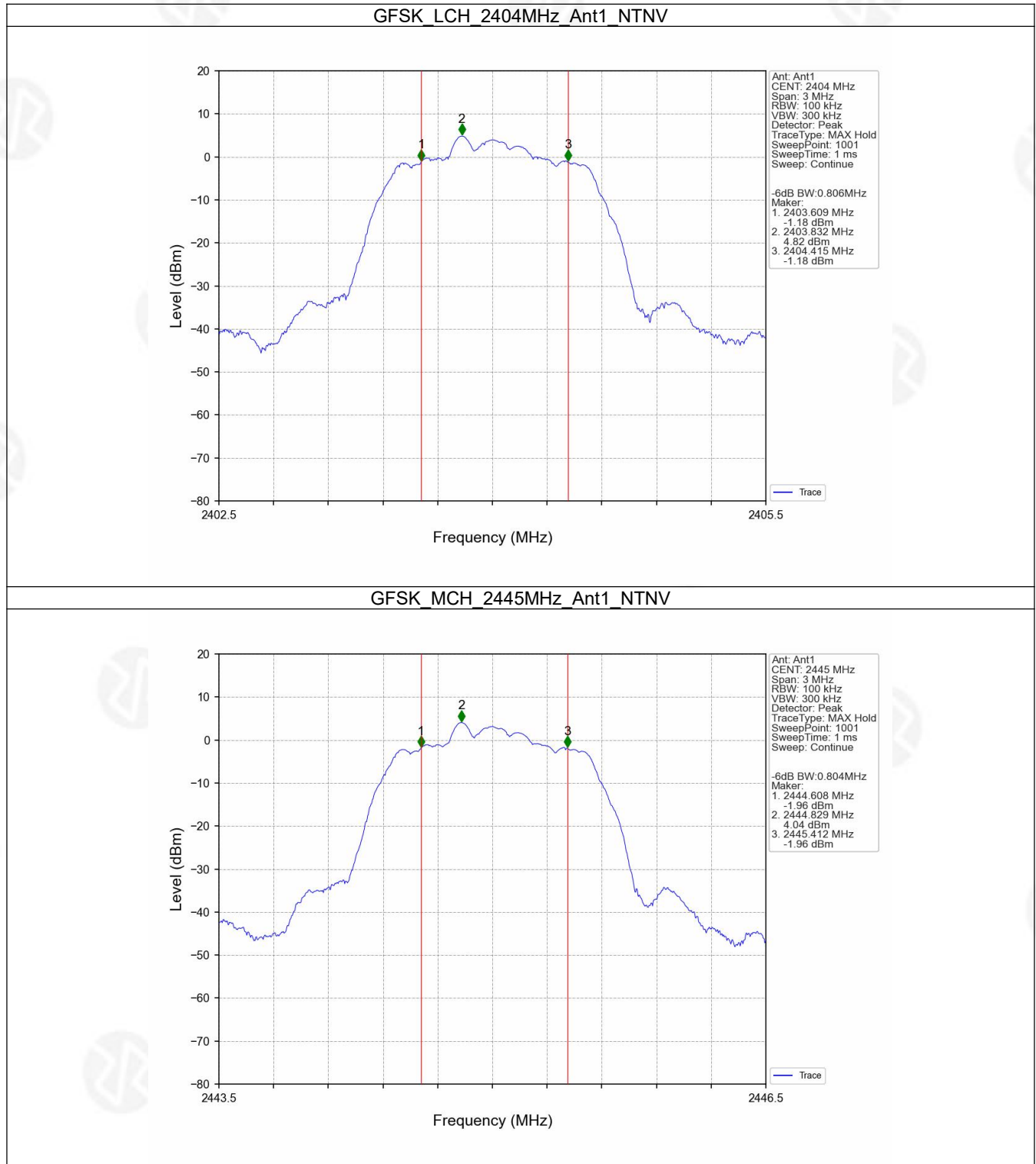
### 2.2.1 OBW

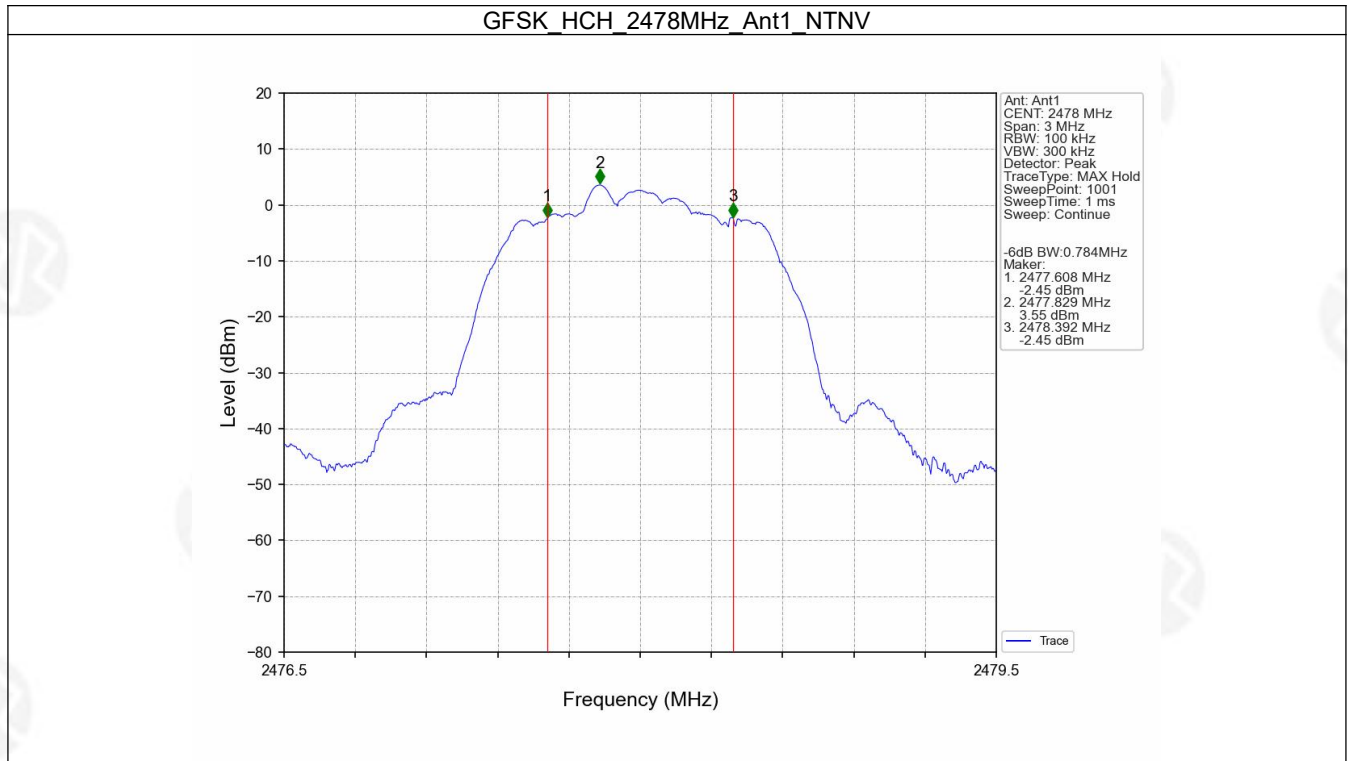






### 2.2.2 6dB BW







### 3. Maximum Conducted Output Power

#### 3.1 Test Result

##### 3.1.1 Power

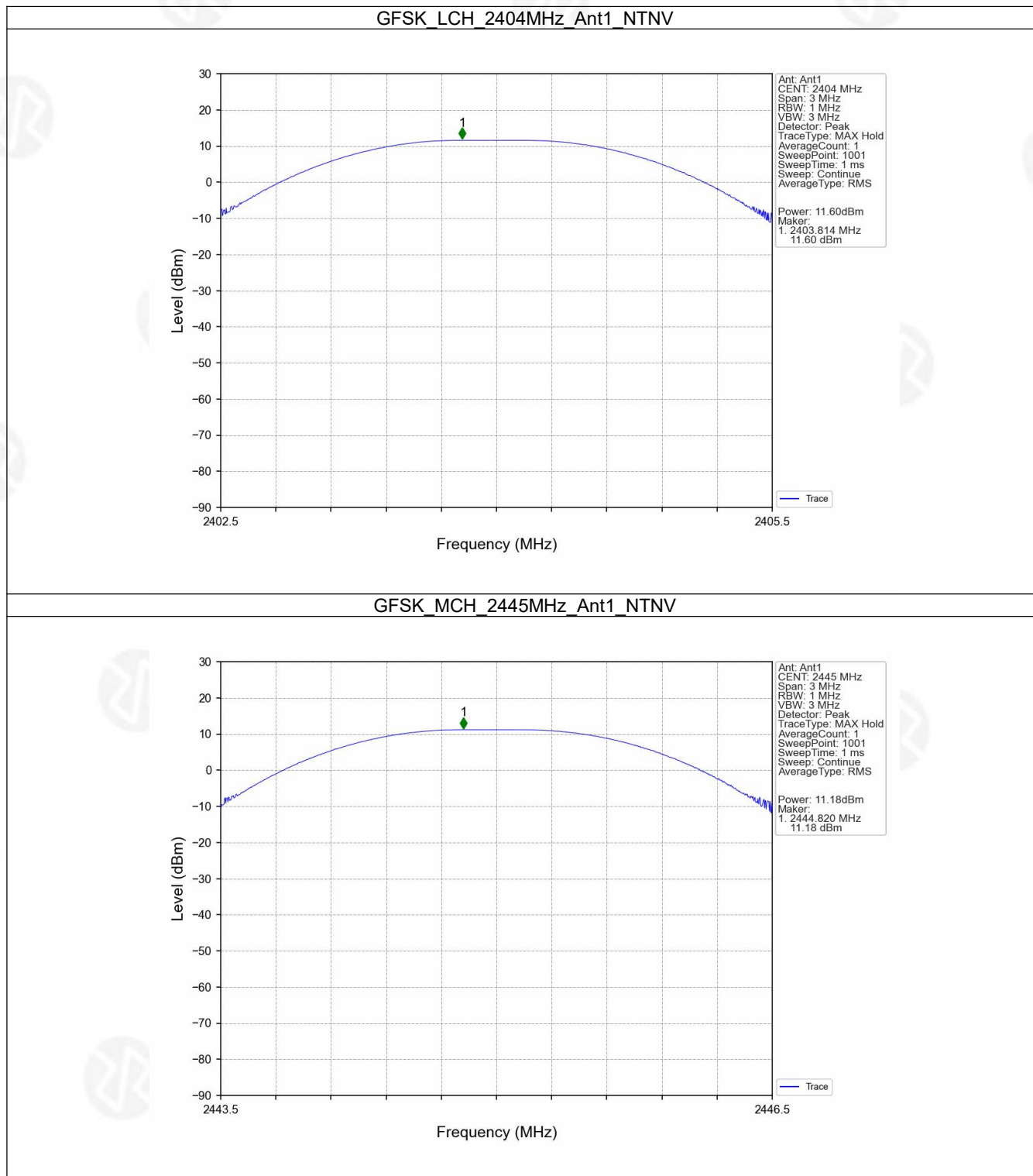
| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|------|---------|-----------------|-------------------------------------------|-------|---------|
|      |         |                 | ANT1                                      | Limit |         |
| GFSK | SISO    | 2404            | 11.60                                     | <=27  | Pass    |
|      |         | 2445            | 11.18                                     | <=27  | Pass    |
|      |         | 2478            | 10.47                                     | <=27  | Pass    |

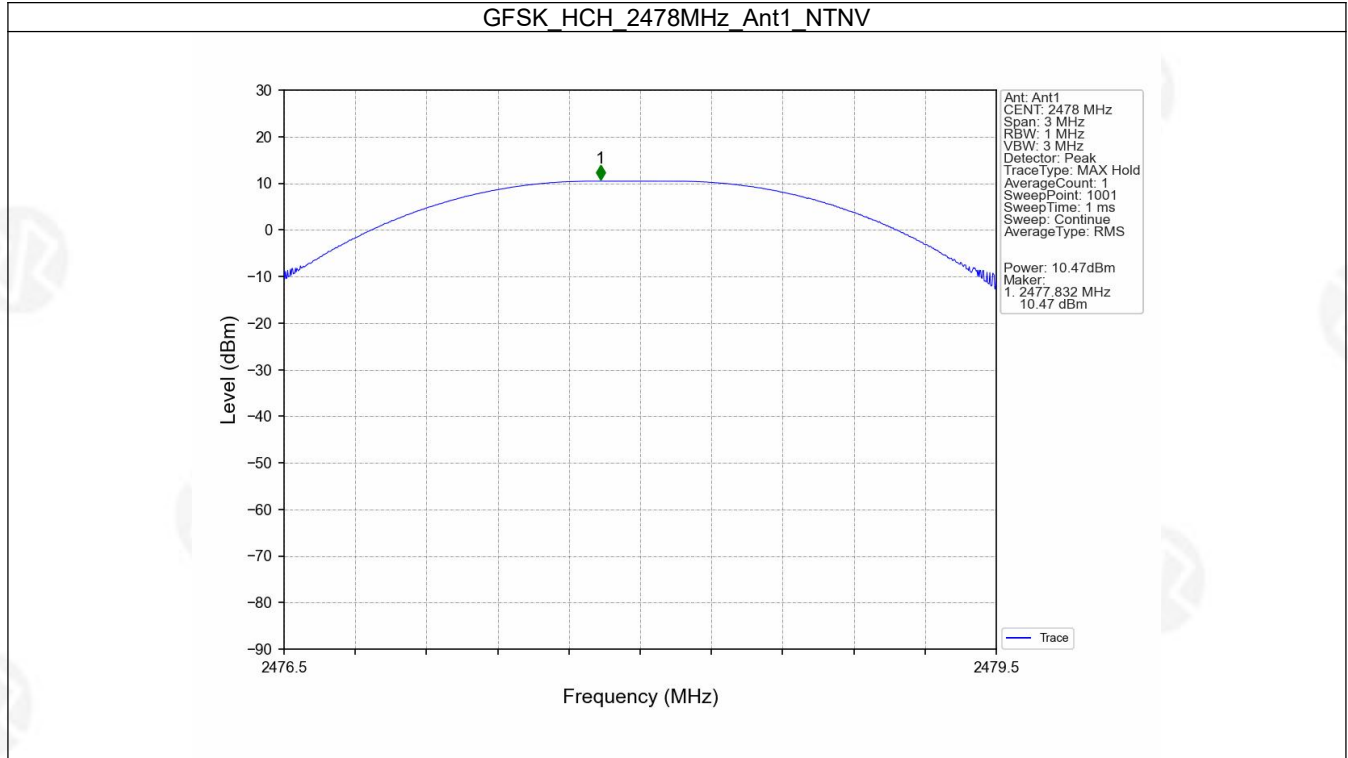
Note1: Antenna Gain: Ant1: 9.30dBi;



## 3.2 Test Graph

### 3.2.1 Power







## 4. Maximum Power Spectral Density

### 4.1 Test Result

#### 4.1.1 PSD

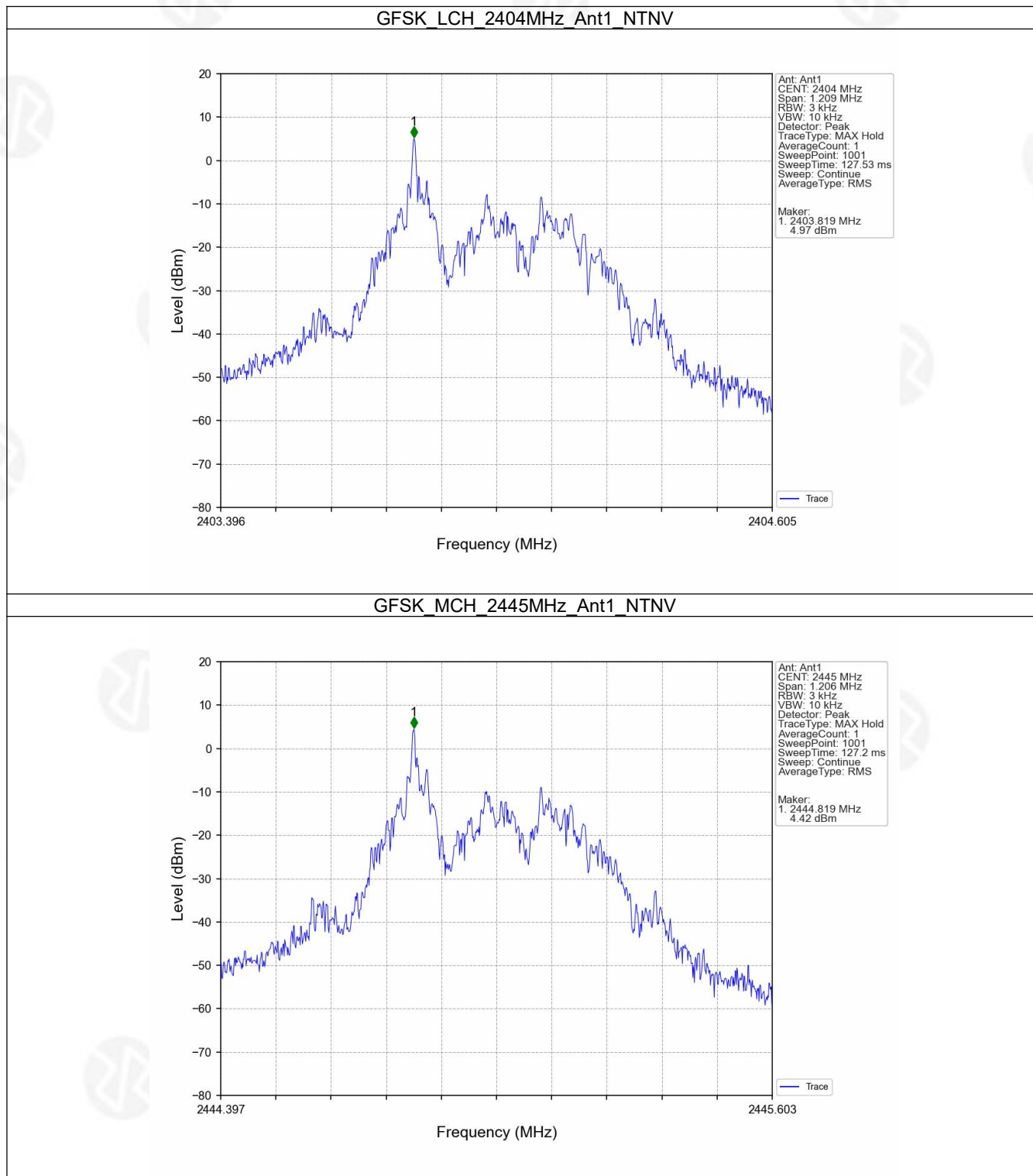
| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|------|---------|-----------------|------------------------|-------|---------|
|      |         |                 | ANT1                   | Limit |         |
| GFSK | SISO    | 2404            | 4.97                   | <=8   | Pass    |
|      |         | 2445            | 4.42                   | <=8   | Pass    |
|      |         | 2478            | 4.10                   | <=8   | Pass    |

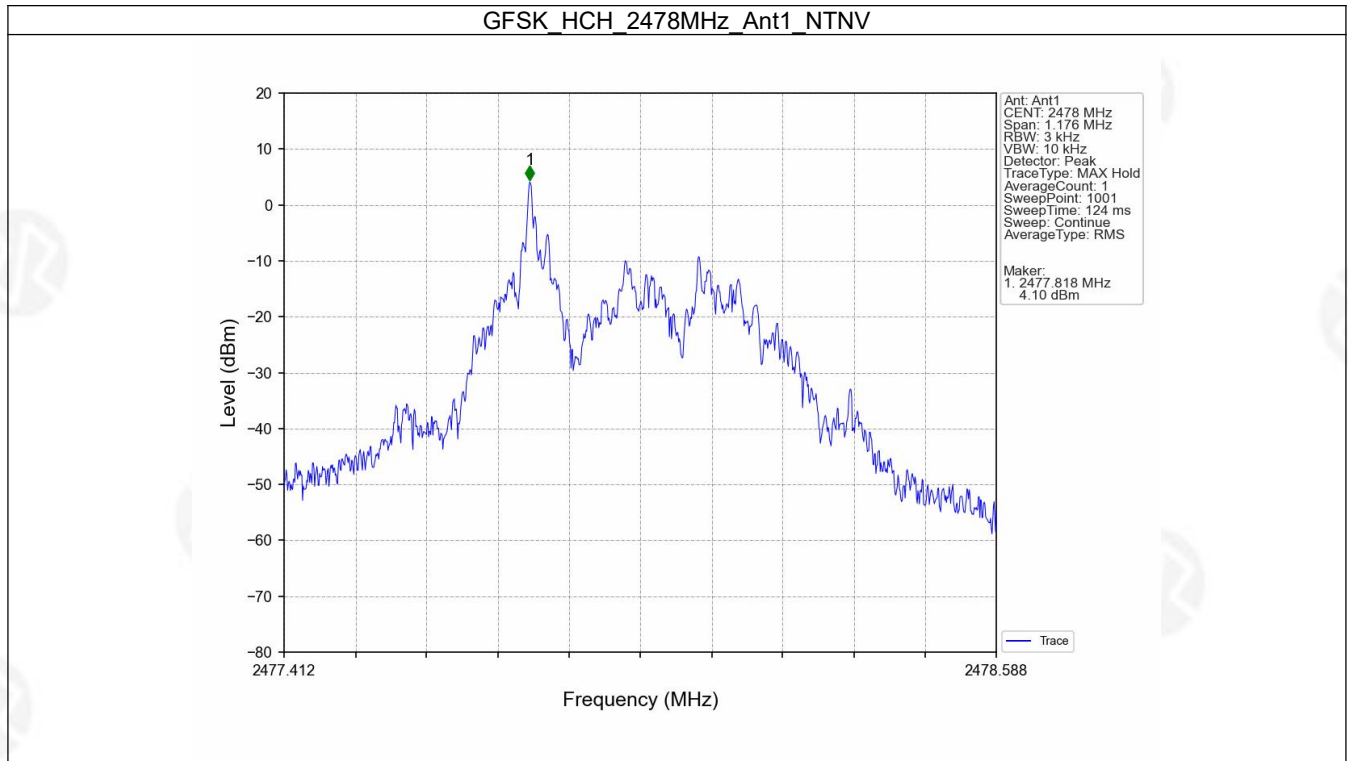
Note1: Antenna Gain: Ant1: 9.30dBi;



## 4.2 Test Graph

### 4.2.1 PSD







## 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) |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|
| GFSK                                                                                                                                            | SISO    | 2404            | 1   | 11.55                    |
|                                                                                                                                                 |         | 2445            | 1   | 11.15                    |
|                                                                                                                                                 |         | 2478            | 1   | 10.47                    |
| 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. |         |                 |     |                          |

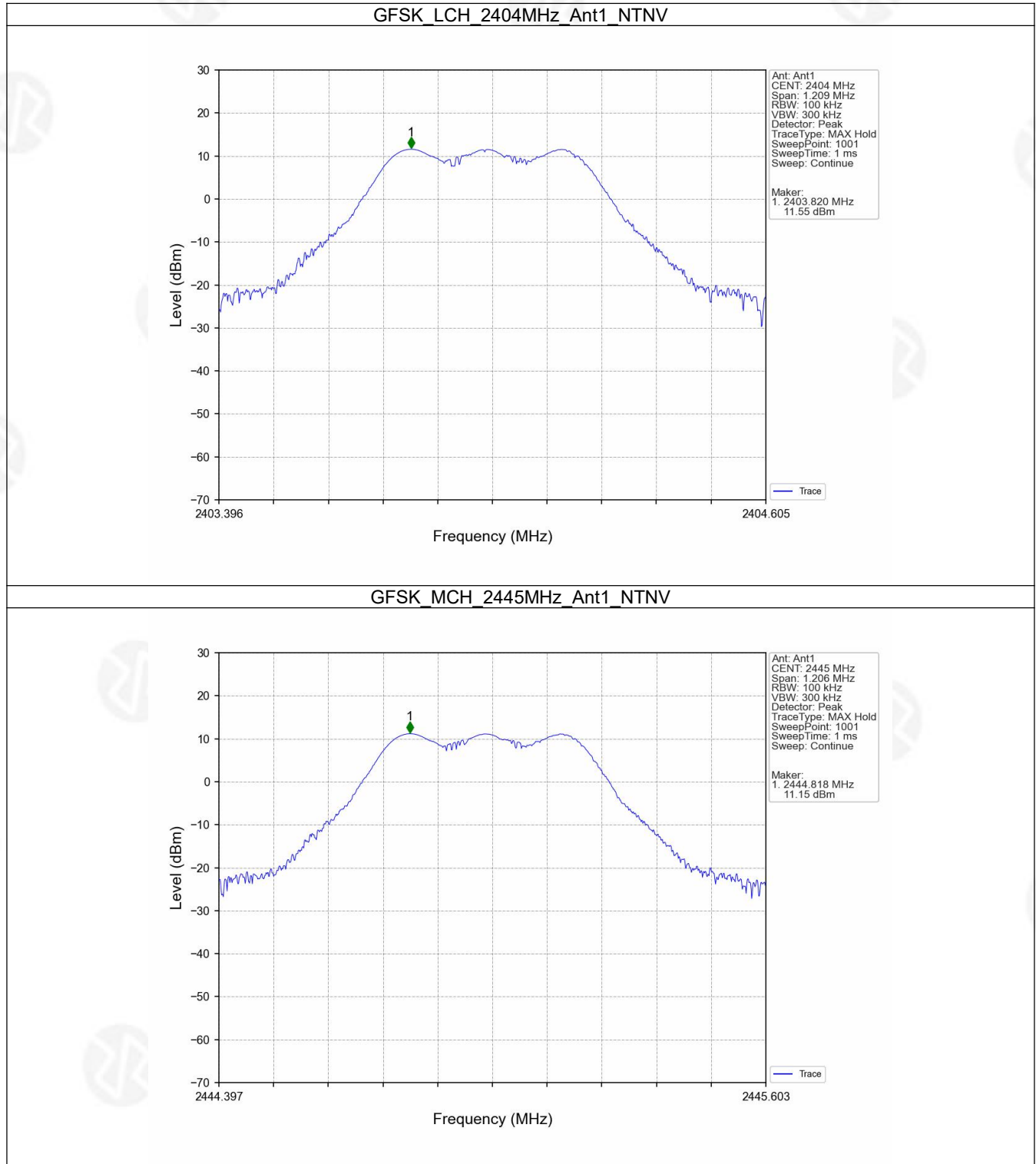
#### 5.1.2 CSE

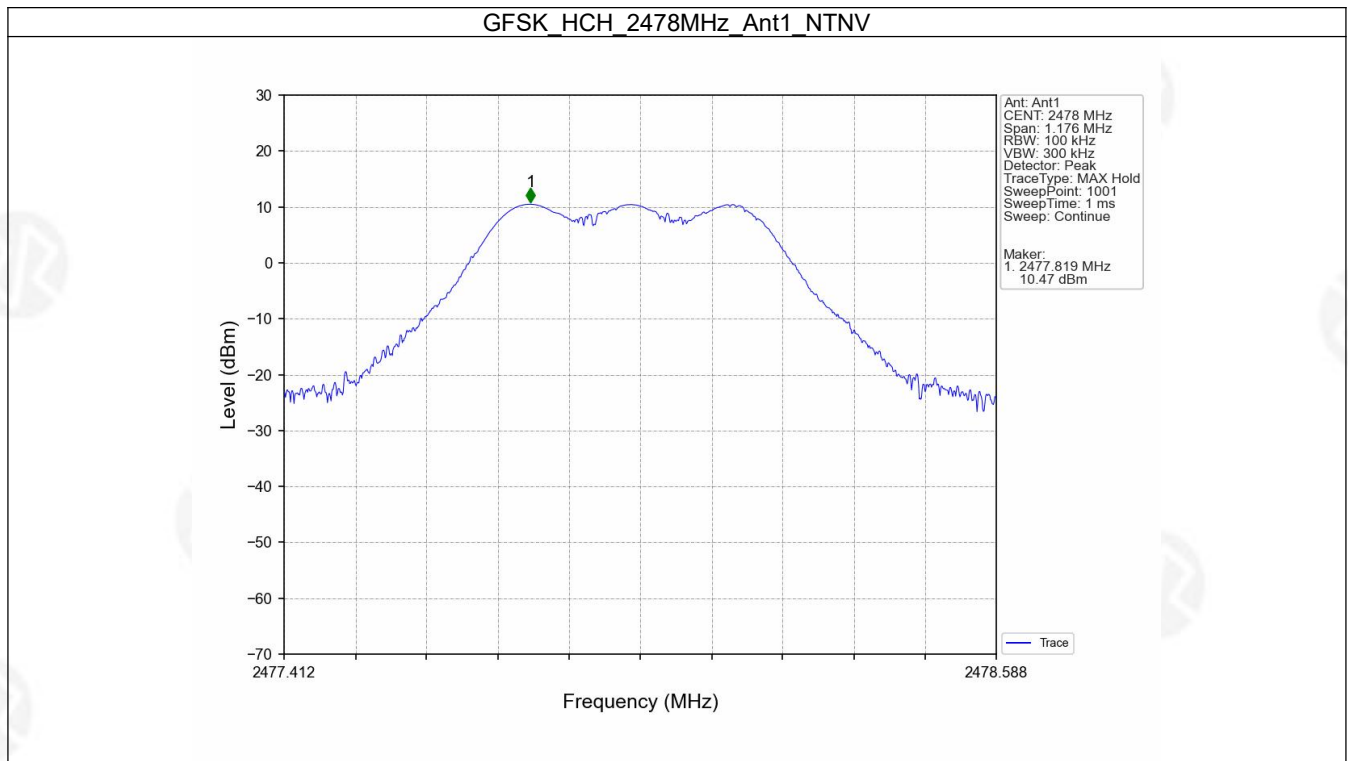
| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|-------------|---------|
| GFSK                                                                                                                                            | SISO    | 2404            | 1   | 11.55                    | -8.45       | Pass    |
|                                                                                                                                                 |         | 2445            | 1   | 11.15                    | -8.85       | Pass    |
|                                                                                                                                                 |         | 2478            | 1   | 10.47                    | -9.53       | 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

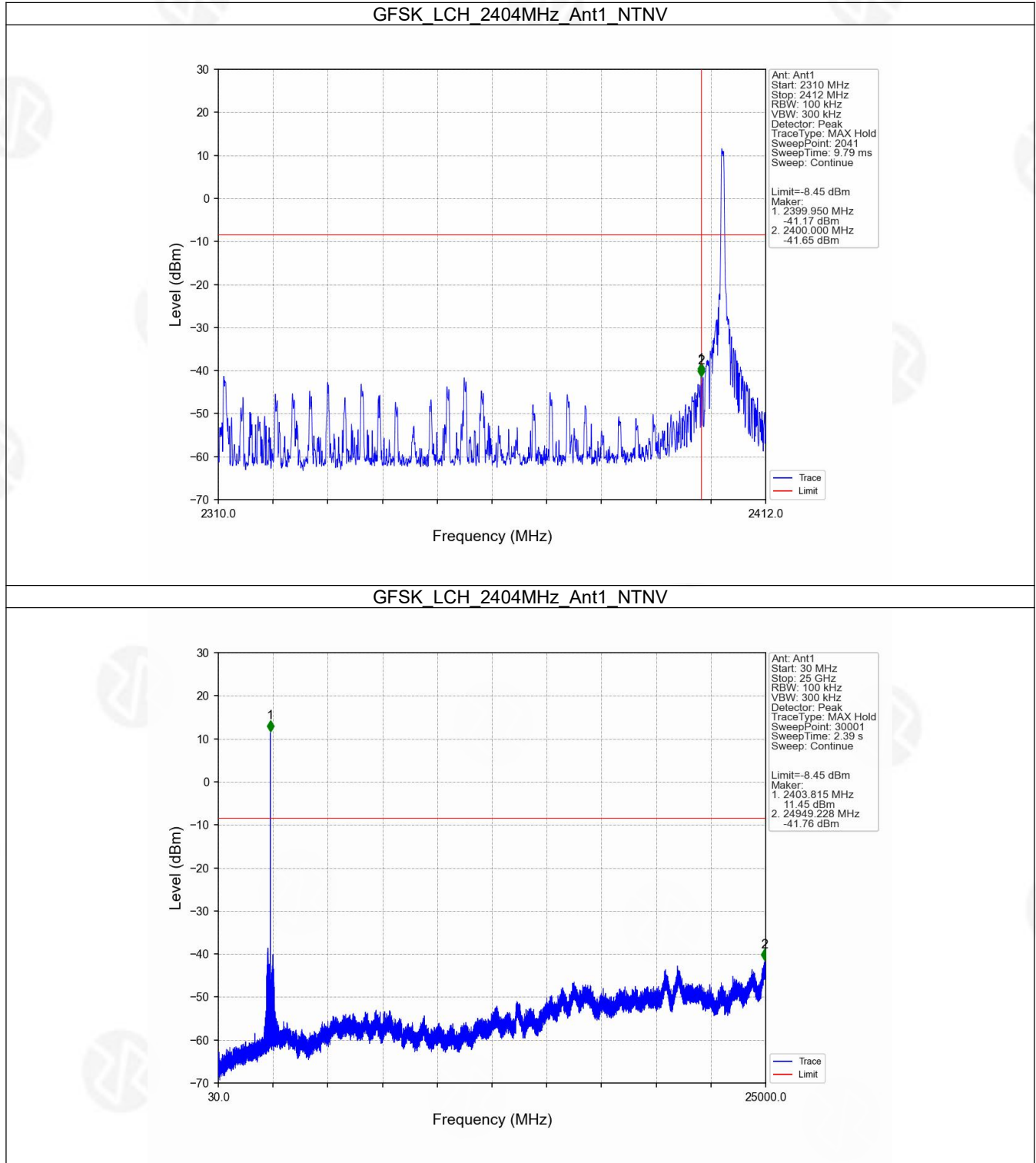
### 5.2.1 Ref





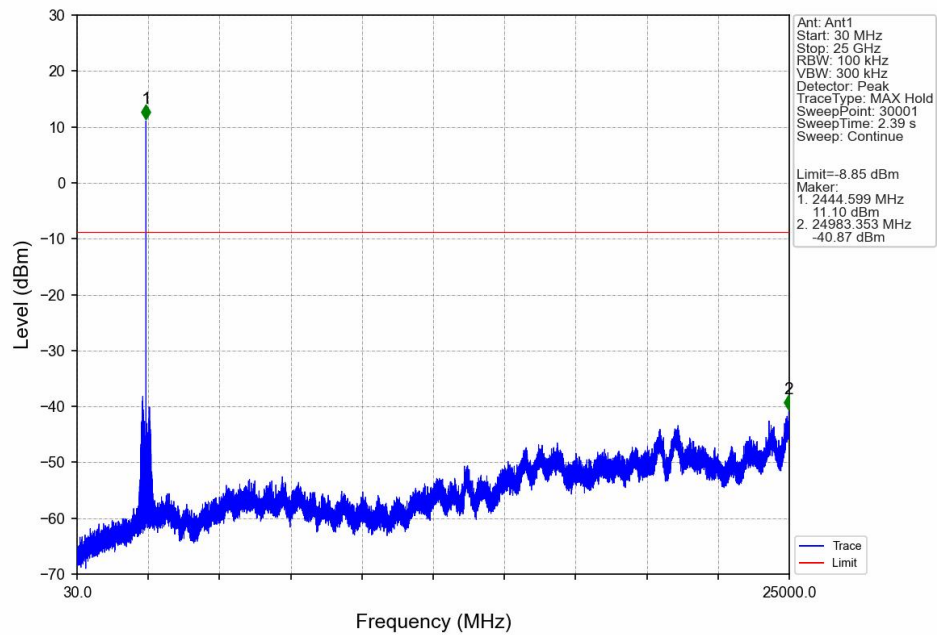


### 5.2.2 CSE

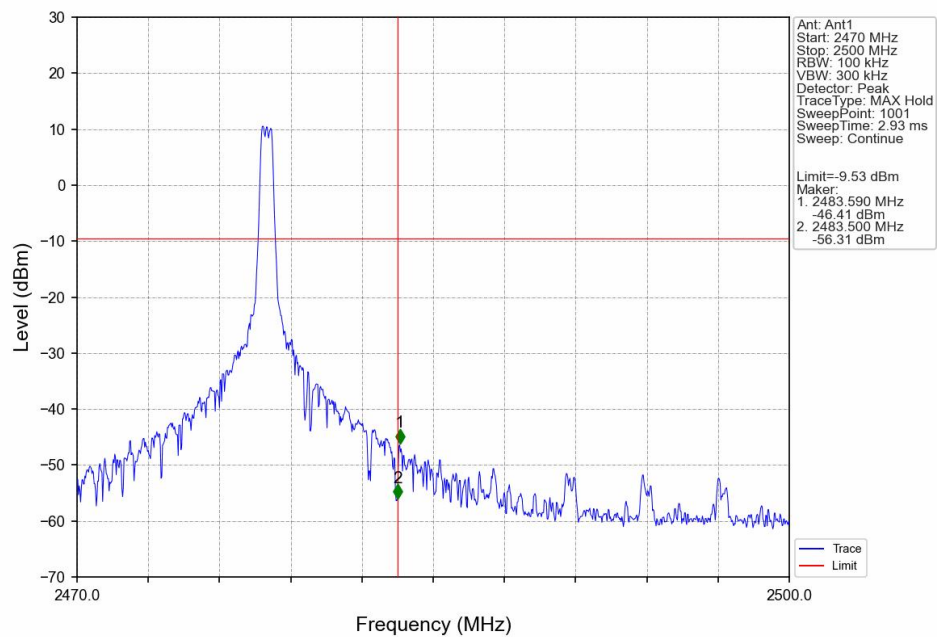


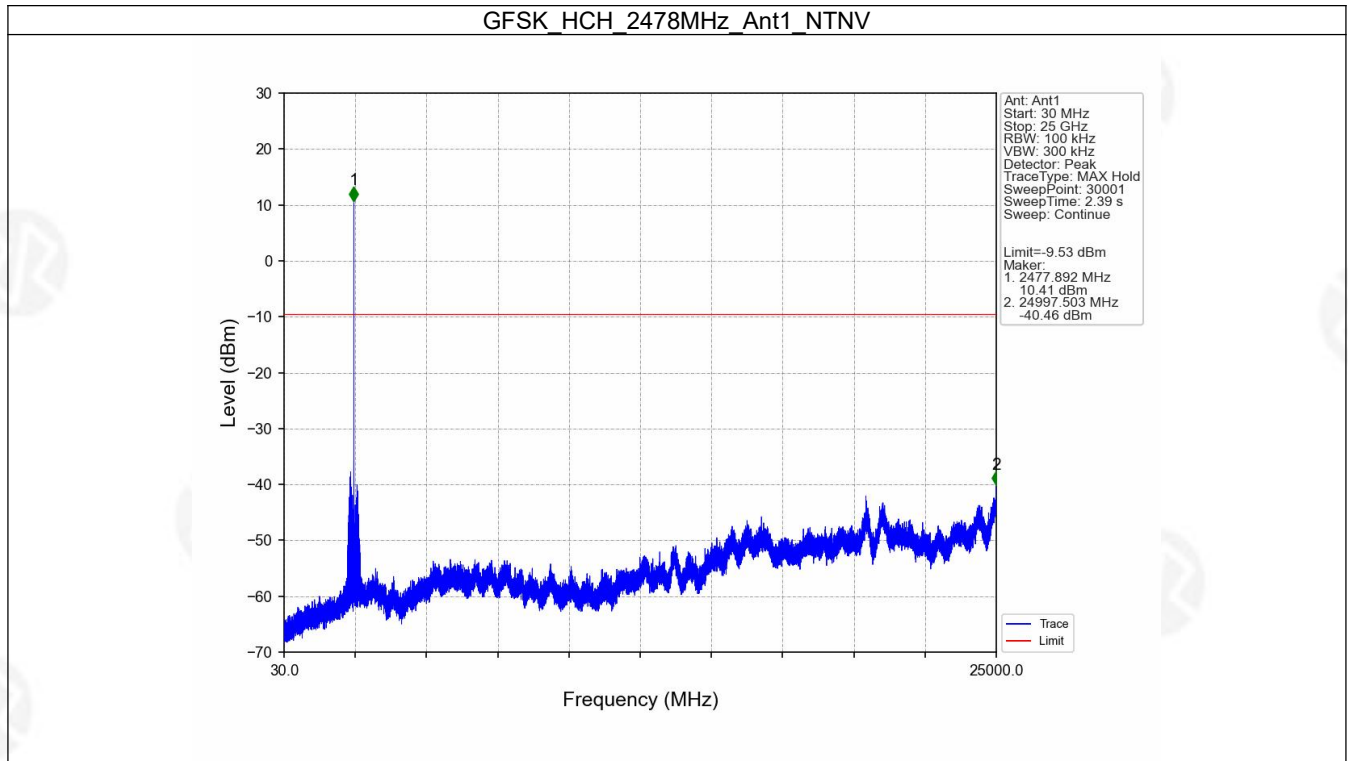


GFSK\_MCH\_2445MHz\_Ant1\_NTNV



GFSK\_HCH\_2478MHz\_Ant1\_NTNV







## 6. Form731

### 6.1 Test Result

#### 6.1.1 Form731

| Lower Freq (MHz) | High Freq (MHz) | MAX Power (W) | MAX Power (dBm) |
|------------------|-----------------|---------------|-----------------|
| 2404             | 2478            | 0.0145        | 11.60           |