

# FCC TEST REPORT

## FCC ID:2AD XK-1671

Report No..... : ZHT-250304127W02

Product..... : Baby Sleep Clip

Trademark..... : /

Model(s)..... : BS1

Model Difference..... : /

Applicant..... : Shenzhen Viatom Technology Co., Ltd.

Address..... : 901, Building West, Lepu Tower, No.66 Xingke Road, Xili Community,  
Xili Street, Nanshan District, Shenzhen, 518055, Guangdong, P.R. China

Manufacturer..... : Shenzhen Viatom Technology Co., Ltd.

Address..... : 901, Building West, Lepu Tower, No.66 Xingke Road, Xili Community,  
Xili Street, Nanshan District, Shenzhen, 518055, Guangdong, P.R. China

Prepared by..... : Guangdong Zhonghan Testing Technology Co., Ltd.

Address..... : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai  
Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Date of Receipt..... : May 8, 2025

Date of Test(s)..... : May 8, 2025 to May 13, 2025

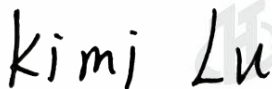
Date of Issue..... : May 13, 2025

Test Standard(s)..... : FCC CFR Title 47 Part 15 Subpart C Section 15.247

Test procedure..... KDB558074 D01 15.247 Meas Guidance v05r02  
ANSI C63.10:2013

In the configuration tested, the EUT complied with the standards specified above.

Tested by:



Kimi Lu/ Engineer

Reviewed by:



Baret Wu/ Director

Approved by:



Levi Lee/ Manager

**Note:** The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.

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1. VERSION

| Report No.       | Version | Description             | Approved     |
|------------------|---------|-------------------------|--------------|
| ZHT-250304127W02 | Rev.01  | Initial issue of report | May 13, 2025 |
|                  |         |                         |              |
|                  |         |                         |              |

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 (15.247) , Subpart C |                                  |          |        |
|---------------------------------|----------------------------------|----------|--------|
| Standard Section                | Test Item                        | Judgment | Remark |
| FCC part 15.203/15.247 (b)(4)   | Antenna requirement              | PASS     |        |
| FCC part 15.207                 | AC Power Line Conducted Emission | PASS     |        |
| FCC part 15.247 (b)(3)          | Conducted Peak Output Power      | PASS     |        |
| FCC part 15.247 (a)(2)          | Channel Bandwidth& 99% OCB       | PASS     |        |
| FCC part 15.247 (e)             | Power Spectral Density           | PASS     |        |
| FCC part 15.247(d)              | Band Edge                        | PASS     |        |
| FCC part 15.205/15.209          | Spurious Emission                | PASS     |        |

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                                                                                                                                                                                                 |                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Product Name:                                                                                                                                                                                   | Baby Sleep Clip                                    |
| Test Model No.:                                                                                                                                                                                 | BS1                                                |
| Hardware Version:                                                                                                                                                                               | V1.0                                               |
| Software Version:                                                                                                                                                                               | V1.0                                               |
| Sample(s) Status:                                                                                                                                                                               | Engineer sample                                    |
| Operation Frequency:                                                                                                                                                                            | 2402MHz~2480MHz                                    |
| Channel Numbers:                                                                                                                                                                                | 40                                                 |
| Channel Separation:                                                                                                                                                                             | 2MHz                                               |
| Modulation Type:                                                                                                                                                                                | GFSK                                               |
| Antenna Type:                                                                                                                                                                                   | Chip antenna                                       |
| Antenna gain:                                                                                                                                                                                   | 4.97dBi                                            |
| Power supply:                                                                                                                                                                                   | Input: 5 V --- 100 mA or DC 3.8 V power by battery |
| Sample Number:                                                                                                                                                                                  | 250304127YP-001                                    |
| Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Guangdong Zhonghan Testing Technology Co., Ltd. does not assume any responsibility. |                                                    |

| Operation Frequency each of channel |           |         |           |         |           |         |           |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                             | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1                                   | 2402 MHz  | 11      | 2422 MHz  | 21      | 2442 MHz  | 31      | 2462 MHz  |
| 2                                   | 2404 MHz  | 12      | 2424 MHz  | 22      | 2444 MHz  | 32      | 2464 MHz  |
| 3                                   | 2406 MHz  | 13      | 2426 MHz  | 23      | 2446 MHz  | 33      | 2466 MHz  |
| 4                                   | 2408 MHz  | 14      | 2428 MHz  | 24      | 2448 MHz  | 34      | 2468 MHz  |
| 5                                   | 2410 MHz  | 15      | 2430 MHz  | 25      | 2450 MHz  | 35      | 2470 MHz  |
| 6                                   | 2412 MHz  | 16      | 2432 MHz  | 26      | 2452 MHz  | 36      | 2472 MHz  |
| 7                                   | 2414 MHz  | 17      | 2434 MHz  | 27      | 2454 MHz  | 37      | 2474 MHz  |
| 8                                   | 2416 MHz  | 18      | 2436 MHz  | 28      | 2456 MHz  | 38      | 2476 MHz  |
| 9                                   | 2418 MHz  | 19      | 2438 MHz  | 29      | 2458 MHz  | 39      | 2478 MHz  |
| 10                                  | 2420 MHz  | 20      | 2440 MHz  | 30      | 2460 MHz  | 40      | 2480 MHz  |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2402MHz   |
| The middle channel  | 2440MHz   |
| The Highest channel | 2480MHz   |

### 3.2 DESCRIPTION OF TEST MODES

|                                                                                                                                                                                                                                                           |                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Transmitting mode                                                                                                                                                                                                                                         | Keep the EUT in continuously transmitting mode |
| Remark: EUT use new battery during the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data. |                                                |

### 3.3 TEST SETUP CONFIGURATION

Conducted Emission

Adapter

EUT

Radiated Emission

EUT

### 3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|-----------|-----------|----------------|------------|------|
| E-1  | Adapter   | N/A       | HW-059200CHQ   | N/A        | AE   |
|      |           |           |                |            |      |
|      |           |           |                |            |      |
|      |           |           |                |            |      |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
|      |               |              |        |      |
|      |               |              |        |      |
|      |               |              |        |      |

**Note:**

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

#### 4. TEST FACILITY AND TEST INSTRUMENT USED

##### 4.1 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd.  
Add. : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

FCC Registration Number:255941  
Designation Number: CN0325  
IC Registered No.: 29832  
CAB identifier: CN0143

##### 4.2 EQUIPMENTS LIST FOR ALL TEST ITEMS

###### Radiation Test equipment

| Item | Equipment                          | Manufacturer | Model               | Serial No. | Last Cal.     | Next Cal.     |
|------|------------------------------------|--------------|---------------------|------------|---------------|---------------|
| 1    | Receiver                           | R&S          | ESCI                | 100874     | May 6, 2025   | May 5, 2026   |
| 2    | Loop Antenna                       | TESEQ        | HLA6121             | 58357      | Oct. 11, 2024 | Oct. 10, 2025 |
| 3    | Amplifier                          | Schwarzbeck  | BBV 9743 B          | 00378      | May 6, 2025   | May 5, 2026   |
| 4    | Amplifier                          | Schwarzbeck  | BBV 9718 B          | 00040      | May 7, 2025   | May 6, 2026   |
| 5    | Bilog Antenna                      | Schwarzbeck  | VULB9162            | 00498      | May 28, 2024  | May 27, 2025  |
| 6    | Horn Antenna                       | Schwarzbeck  | BBHA9120D           | 02623      | May 16, 2024  | May 15, 2025  |
| 7    | Horn Antenna                       | A.H.SYSTEMS  | SAS574              | 588        | Oct. 21, 2024 | Oct. 20, 2025 |
| 8    | Amplifier                          | AEROFLEX     | 100KHz-40GHz        | 097        | Oct. 21, 2024 | Oct. 20, 2025 |
| 9    | Spectrum Analyzer                  | R&S          | FSV40               | 101413     | Oct. 21, 2024 | Oct. 20, 2025 |
| 10   | Spectrum Analyzer                  | KEYSIGHT     | N9020A              | MY53420208 | May 7, 2025   | May 6, 2026   |
| 11   | WIDBAND RADIO COMMUNICATION TESTER | R&S          | CMW500              | 109863     | May 7, 2025   | May 6, 2026   |
| 12   | Single Generator                   | Agilent      | N5182A              | MY48180575 | May 7, 2025   | May 6, 2026   |
| 13   | Power Sensor                       | MWRFTest     | MW100-RFCB          | /          | May 7, 2025   | May 6, 2026   |
| 14   | Power Amplifier Shielding Room     | EMToni       | 2m3m3m              | /          | Nov. 25, 2021 | Nov. 24, 2026 |
| 15   | CABLE                              | EMToni       | DA800-NM-NM-11000MM | /          | May 6, 2025   | May 5, 2026   |

#### Conduction Test equipment

| Equipment                 | Manufacturer | Model               | Serial No.  | Last Cal.   | Next Cal.   |
|---------------------------|--------------|---------------------|-------------|-------------|-------------|
| Receiver                  | R&S          | ESCI                | 100874      | May 6, 2025 | May 5, 2026 |
| LISN                      | R&S          | ENV216              | 102794      | May 6, 2025 | May 5, 2026 |
| ISN CAT 6                 | Schwarzbeck  | NTFM 8158           | 00318       | May 7, 2025 | May 6, 2026 |
| ISN CAT 5                 | Schwarzbeck  | CAT5 8158           | 00343       | May 7, 2025 | May 6, 2026 |
| Capacitive Voltage Probe  | Schwarzbeck  | CVP 9222 C          | 00101       | May 8, 2025 | May 7, 2026 |
| Current Transformer Clamp | Schwarzbeck  | SW 9605             | SW9605 #209 | May 8, 2025 | May 7, 2026 |
| CABLE                     | EMToni       | G223-NM-BNCM-2000MM | /           | May 7, 2025 | May 6, 2026 |

#### Conducted Test equipment

| Item | Equipment         | Manufacturer | Model      | Serial No. | Last Cal.     | Next Cal.     |
|------|-------------------|--------------|------------|------------|---------------|---------------|
| 1    | Spectrum Analyzer | R&S          | FSV40      | 101413     | Oct. 21, 2024 | Oct. 20, 2025 |
| 2    | Spectrum Analyzer | KEYSIGHT     | N9020A     | MY53420208 | May 7, 2025   | May 6, 2026   |
| 3    | Power Sensor      | MWRFTest     | MW100-RFCB | /          | May 7, 2025   | May 6, 2026   |

#### 4.3 TESTING SOFTWARE

| Project            | Software name | Edition        |
|--------------------|---------------|----------------|
| RF Conducted       | MTS 8310      | 2.0.0.0        |
| Conducted Emission | EZ-EMC        | EMC-CON 3A1.1+ |
| Radiated Emission  | EZ-EMC        | FA-03A2 RE+    |

#### 4.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

| No. | Item                              | Uncertainty               |
|-----|-----------------------------------|---------------------------|
| 1   | Conducted Emission Test           | $\pm 1.38\text{dB}$       |
| 2   | RF conducted power                | $\pm 0.16\text{dB}$       |
| 3   | Conducted spurious emissions      | $\pm 0.21\text{dB}$       |
| 4   | All radiated emissions (9k-30MHz) | $\pm 4.68\text{dB}$       |
| 5   | All radiated emissions (<1G)      | $\pm 4.68\text{dB}$       |
| 6   | All radiated emissions (>1G)      | $\pm 4.89\text{dB}$       |
| 7   | Temperature                       | $\pm 0.5^{\circ}\text{C}$ |
| 8   | Humidity                          | $\pm 2\%$                 |
| 9   | Occupied Bandwidth                | $\pm 4.96\%$              |

#### Decision Rule

☒ Uncertainty is not included

☐ Uncertainty is included

## 5. EMC EMISSION TEST

### 5.1 CONDUCTED EMISSION MEASUREMENT

|                       |                                      |
|-----------------------|--------------------------------------|
| Test Requirement:     | FCC Part15 C Section 15.207          |
| Test Method:          | ANSI C63.10:2013                     |
| Test Frequency Range: | 150KHz to 30MHz                      |
| Receiver setup:       | RBW=9KHz, VBW=30KHz, Sweep time=auto |

#### 5.1.1 POWER LINE CONDUCTED EMISSION Limits

| FREQUENCY (MHz) | Limit (dBuV) |           | Standard |
|-----------------|--------------|-----------|----------|
|                 | QP           | AVG       |          |
| 0.15 -0.5       | 66 - 56 *    | 56 - 46 * | FCC      |
| 0.50 -5.0       | 56.00        | 46.00     | FCC      |
| 5.0 -30.0       | 60.00        | 50.00     | FCC      |

Note:

(1) \*Decreases with the logarithm of the frequency.

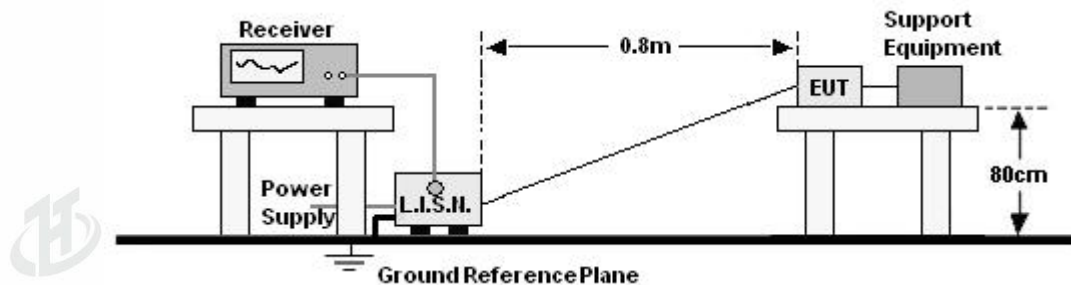
#### 5.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 5.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 5.1.4 TEST SETUP



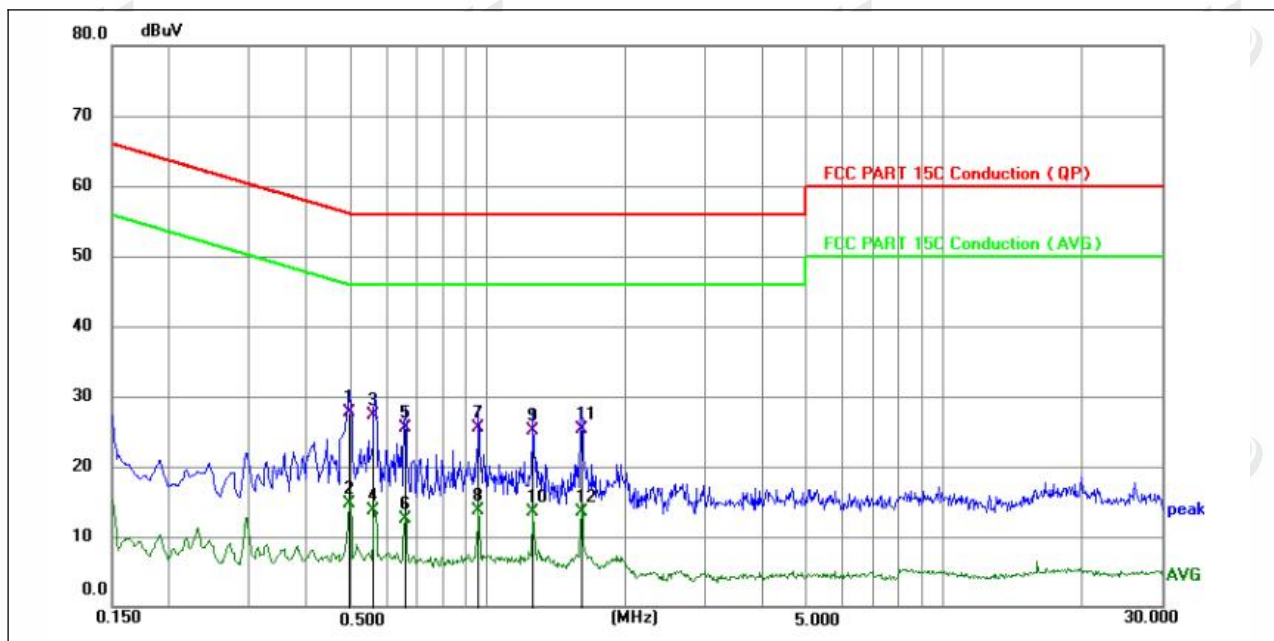
#### 5.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



## 5.1.6 TEST RESULTS

|               |              |                     |       |
|---------------|--------------|---------------------|-------|
| Temperature:  | 24.3℃        | Relative Humidity : | 53.2% |
| Pressure:     | 1010kPa      | Phase :             | L     |
| Test Voltage: | AC 120V/60Hz |                     |       |



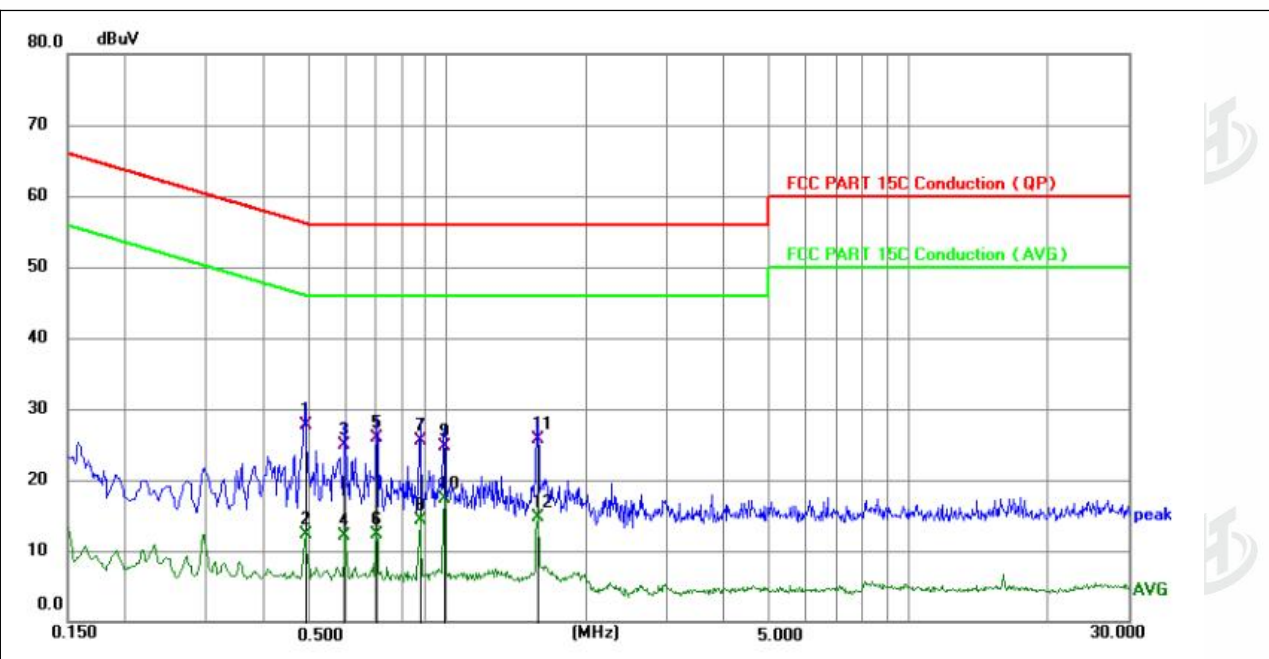
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1 * | 0.4964          | 17.68          | 10.02       | 27.70        | 56.06        | -28.36      | QP       | P   |        |
| 2   | 0.4964          | 4.63           | 10.02       | 14.65        | 46.06        | -31.41      | AVG      | P   |        |
| 3   | 0.5639          | 17.19          | 10.03       | 27.22        | 56.00        | -28.78      | QP       | P   |        |
| 4   | 0.5639          | 3.66           | 10.03       | 13.69        | 46.00        | -32.31      | AVG      | P   |        |
| 5   | 0.6584          | 15.47          | 10.03       | 25.50        | 56.00        | -30.50      | QP       | P   |        |
| 6   | 0.6584          | 2.54           | 10.03       | 12.57        | 46.00        | -33.43      | AVG      | P   |        |
| 7   | 0.9555          | 15.38          | 10.06       | 25.44        | 56.00        | -30.56      | QP       | P   |        |
| 8   | 0.9555          | 3.71           | 10.06       | 13.77        | 46.00        | -32.23      | AVG      | P   |        |
| 9   | 1.2615          | 14.96          | 10.06       | 25.02        | 56.00        | -30.98      | QP       | P   |        |
| 10  | 1.2615          | 3.53           | 10.06       | 13.59        | 46.00        | -32.41      | AVG      | P   |        |
| 11  | 1.6034          | 15.15          | 10.06       | 25.21        | 56.00        | -30.79      | QP       | P   |        |
| 12  | 1.6034          | 3.39           | 10.06       | 13.45        | 46.00        | -32.55      | AVG      | P   |        |

## Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor
4. The test data shows only the worst case GFSK-2M mode (Low Channel: 2402MHz).



|               |              |                     |       |
|---------------|--------------|---------------------|-------|
| Temperature:  | 24.3℃        | Relative Humidity : | 53.2% |
| Pressure:     | 1010kPa      | Phase :             | N     |
| Test Voltage: | AC 120V/60Hz |                     |       |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1 * | 0.4920          | 17.78          | 10.02       | 27.80        | 56.13        | -28.33      | QP       | P   |        |
| 2   | 0.4920          | 2.37           | 10.02       | 12.39        | 46.13        | -33.74      | AVG      | P   |        |
| 3   | 0.5980          | 14.82          | 10.03       | 24.85        | 56.00        | -31.15      | QP       | P   |        |
| 4   | 0.5980          | 2.13           | 10.03       | 12.16        | 46.00        | -33.84      | AVG      | P   |        |
| 5   | 0.7035          | 15.89          | 10.04       | 25.93        | 56.00        | -30.07      | QP       | P   |        |
| 6   | 0.7035          | 2.19           | 10.04       | 12.23        | 46.00        | -33.77      | AVG      | P   |        |
| 7   | 0.8745          | 15.40          | 10.05       | 25.45        | 56.00        | -30.55      | QP       | P   |        |
| 8   | 0.8745          | 4.31           | 10.05       | 14.36        | 46.00        | -31.64      | AVG      | P   |        |
| 9   | 0.9870          | 14.65          | 10.06       | 24.71        | 56.00        | -31.29      | QP       | P   |        |
| 10  | 0.9870          | 7.21           | 10.06       | 17.27        | 46.00        | -28.73      | AVG      | P   |        |
| 11  | 1.5765          | 15.60          | 10.06       | 25.66        | 56.00        | -30.34      | QP       | P   |        |
| 12  | 1.5765          | 4.60           | 10.06       | 14.66        | 46.00        | -31.34      | AVG      | P   |        |

## Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor
4. The test data shows only the worst case GFSK-2M mode (Low Channel: 2402MHz).

## 5.2 RADIATED EMISSION MEASUREMENT

|                       |                             |            |        |        |            |
|-----------------------|-----------------------------|------------|--------|--------|------------|
| Test Requirement:     | FCC Part15 C Section 15.209 |            |        |        |            |
| Test Method:          | ANSI C63.10:2013            |            |        |        |            |
| Test Frequency Range: | 9kHz to 25GHz               |            |        |        |            |
| Test site:            | Measurement Distance: 3m    |            |        |        |            |
| Receiver setup:       | Frequency                   | Detector   | RBW    | VBW    | Value      |
|                       | 9KHz-150KHz                 | Quasi-peak | 200Hz  | 600Hz  | Quasi-peak |
|                       | 150KHz-30MHz                | Quasi-peak | 9KHz   | 30KHz  | Quasi-peak |
|                       | 30MHz-1GHz                  | Quasi-peak | 100KHz | 300KHz | Quasi-peak |
|                       | Above 1GHz                  | Peak       | 1MHz   | 3MHz   | Peak       |
|                       |                             | Peak       | 1MHz   | 10Hz   | Average    |

### 5.2.1 RADIATED EMISSION LIMITS

| Frequencies<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009~0.490          | 2400/F(KHz)                          | 300                              |
| 0.490~1.705          | 24000/F(KHz)                         | 30                               |
| 1.705~30.0           | 30                                   | 30                               |
| 30~88                | 100                                  | 3                                |
| 88~216               | 150                                  | 3                                |
| 216~960              | 200                                  | 3                                |
| Above 960            | 500                                  | 3                                |

### LIMITS OF RADIATED EMISSION MEASUREMENT

| FREQUENCY (MHz) | Limit (dBuV/m) (at 3M) |         |
|-----------------|------------------------|---------|
|                 | PEAK                   | AVERAGE |
| Above 1000      | 74                     | 54      |

**Notes:**

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### 5.2.2 TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.
- For the radiated emission test above 1GHz:  
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.  
The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note:

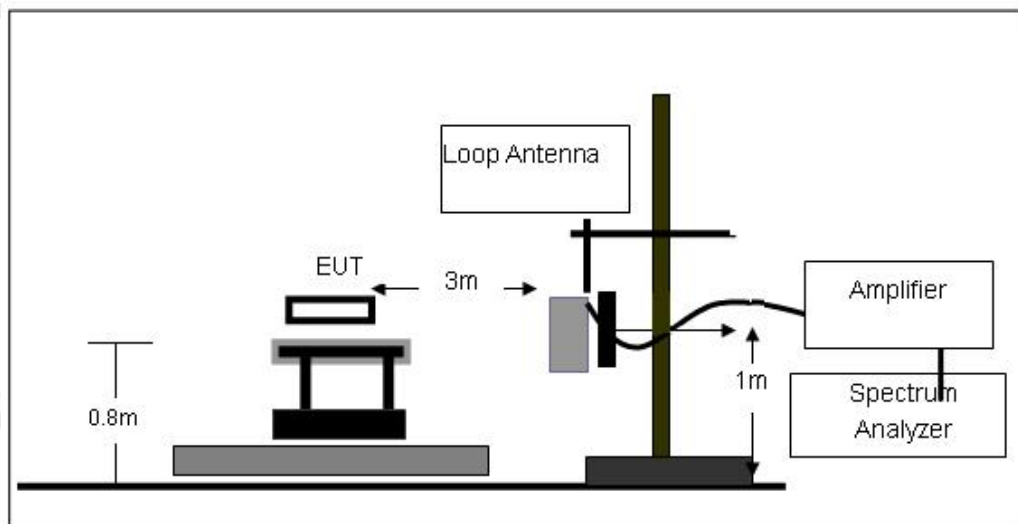
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

### 5.2.3 DEVIATION FROM TEST STANDARD

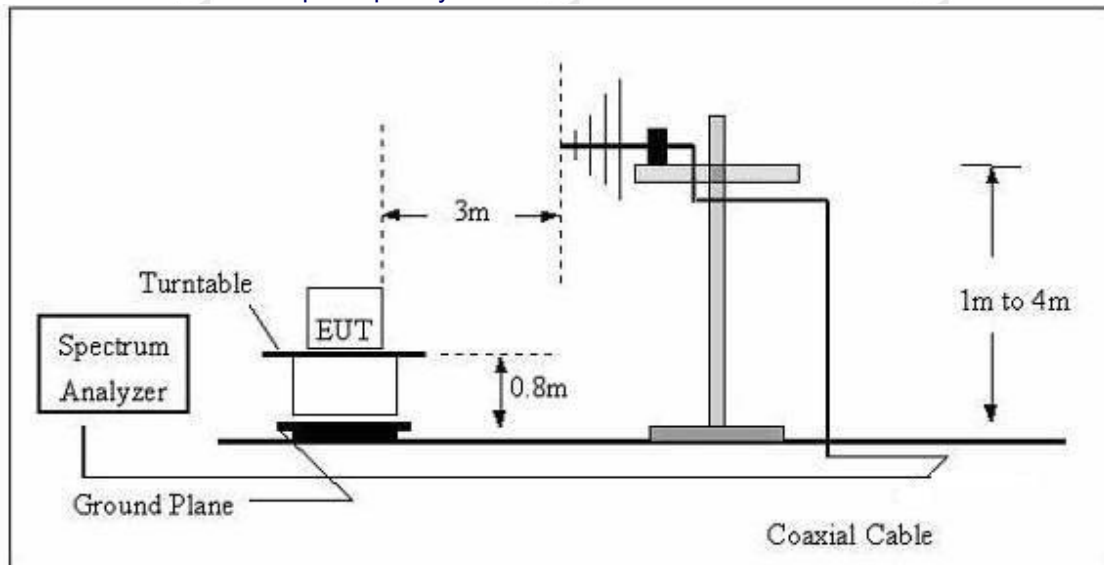
No deviation

### 5.2.4 TEST SETUP

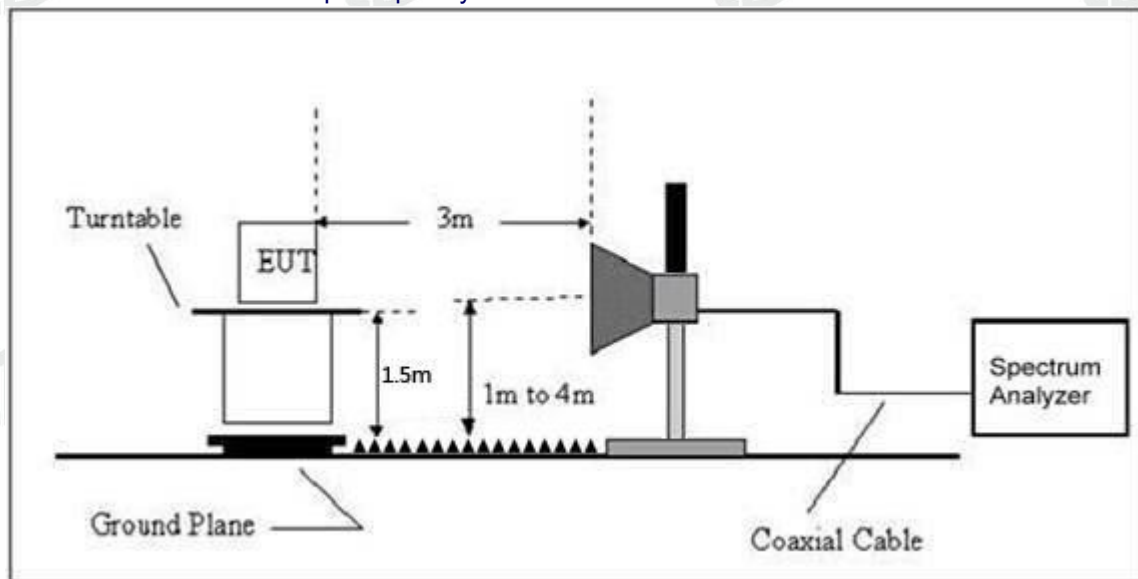
#### (A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



### 5.2.5 EUT OPERATING CONDITIONS

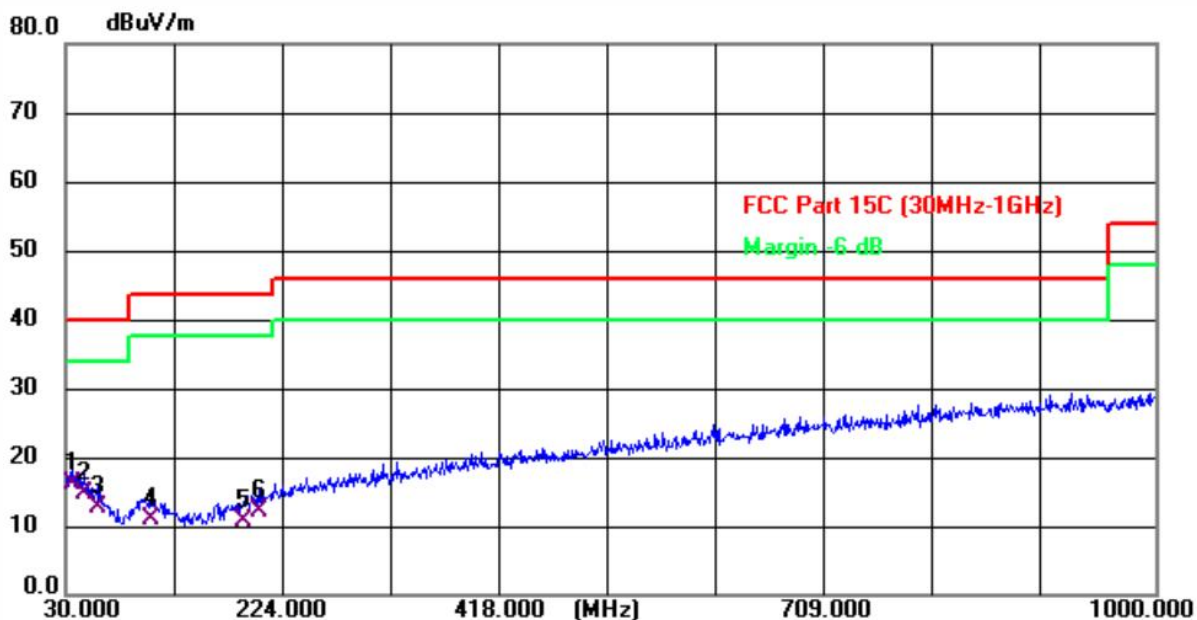
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

### 5.2.6 TEST RESULTS (Between 9KHz – 30 MHz)

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

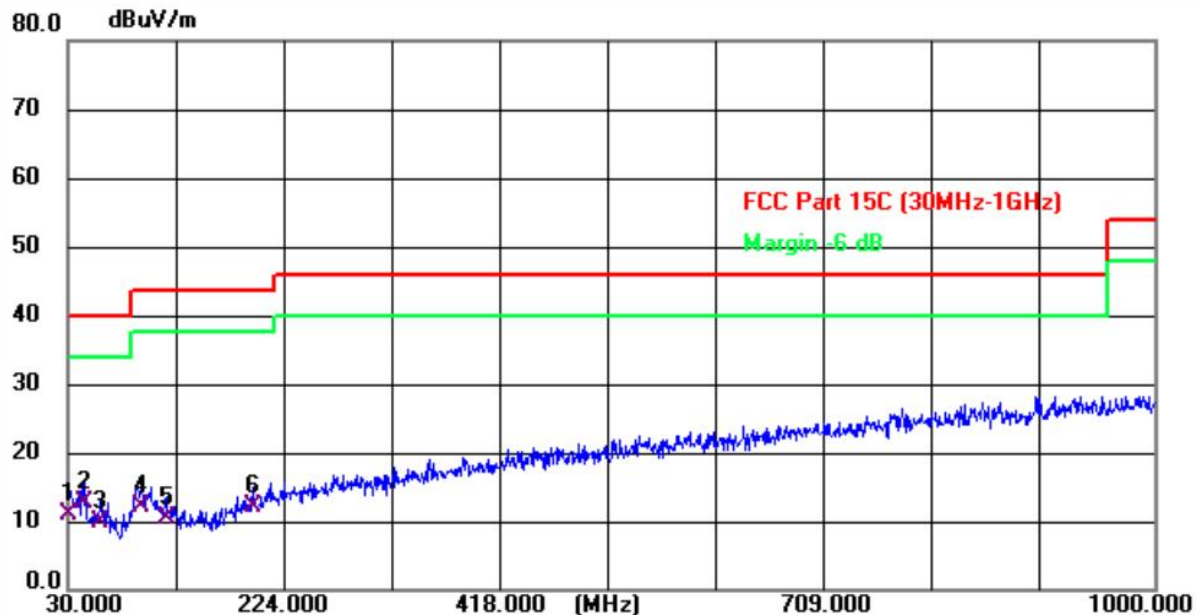
Between 30MHz – 1GHz

|               |          |                    |            |
|---------------|----------|--------------------|------------|
| Temperature:  | 25.2°C   | Relative Humidity: | 50%        |
| Pressure:     | 1010kPa  | Polarization:      | Horizontal |
| Test Voltage: | DC 3.8 V |                    |            |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|
| 1 * | 35.820          | 24.60          | -8.42         | 16.18          | 40.00          | -23.82      | QP       | -           | -              | P   |
| 2   | 47.460          | 23.74          | -9.15         | 14.59          | 40.00          | -25.41      | QP       | -           | -              | P   |
| 3   | 58.130          | 23.16          | -10.44        | 12.72          | 40.00          | -27.28      | QP       | -           | -              | P   |
| 4   | 105.660         | 22.66          | -11.72        | 10.94          | 43.50          | -32.56      | QP       | -           | -              | P   |
| 5   | 189.080         | 22.51          | -11.88        | 10.63          | 43.50          | -32.87      | QP       | -           | -              | P   |
| 6   | 201.690         | 23.37          | -11.09        | 12.28          | 43.50          | -31.22      | QP       | -           | -              | P   |

|               |          |                    |          |
|---------------|----------|--------------------|----------|
| Temperature:  | 25.2°C   | Relative Humidity: | 50%      |
| Pressure:     | 1010kPa  | Polarization:      | Vertical |
| Test Voltage: | DC 3.8 V |                    |          |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|
| 1   | 30.000          | 19.11          | -8.24         | 10.87          | 40.00          | -29.13      | QP       | -           | -              | P   |
| 2 * | 44.550          | 21.56          | -8.91         | 12.65          | 40.00          | -27.35      | QP       | -           | -              | P   |
| 3   | 59.100          | 20.45          | -10.57        | 9.88           | 40.00          | -30.12      | QP       | -           | -              | P   |
| 4   | 95.960          | 24.09          | -11.88        | 12.21          | 43.50          | -31.29      | QP       | -           | -              | P   |
| 5   | 118.270         | 23.28          | -12.76        | 10.52          | 43.50          | -32.98      | QP       | -           | -              | P   |
| 6   | 194.900         | 23.51          | -11.49        | 12.02          | 43.50          | -31.48      | QP       | -           | -              | P   |

**Remarks:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The test data shows only the worst case GFSK-2M mode (Low Channel: 2402MHz).
4. '-' Means the test Degree and Height are not recorded by the test software and only show the worstcase in the test report.

1GHz~25GHz

| Polar<br>(H/V)      | Frequency | Meter<br>Reading | Pre-ampli<br>fier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|---------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                     | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| GFSK-1M             |           |                  |                   |               |                   |                   |          |        |                  |
| Low Channel:2402MHz |           |                  |                   |               |                   |                   |          |        |                  |
| V                   | 4804.00   | 56               | 30.55             | 5.77          | 24.66             | 55.88             | 74       | -18.12 | Pk               |
| V                   | 4804.00   | 43.69            | 30.55             | 5.77          | 24.66             | 43.57             | 54       | -10.43 | AV               |
| V                   | 7206.00   | 59.13            | 30.33             | 6.32          | 24.55             | 59.67             | 74       | -14.33 | Pk               |
| V                   | 7206.00   | 42.74            | 30.33             | 6.32          | 24.55             | 43.28             | 54       | -10.72 | AV               |
| V                   | 9608.00   | 58.03            | 30.55             | 5.77          | 24.66             | 57.91             | 74       | -16.09 | Pk               |
| V                   | 9608.00   | 42.38            | 30.55             | 5.77          | 24.66             | 42.26             | 54       | -11.74 | AV               |
| V                   | 12010.00  | 55.63            | 30.33             | 6.32          | 24.55             | 56.17             | 74       | -17.83 | Pk               |
| V                   | 12010.00  | 43.68            | 30.33             | 6.32          | 24.55             | 44.22             | 54       | -9.78  | AV               |
| H                   | 4804.00   | 59.36            | 30.55             | 5.77          | 24.66             | 59.24             | 74       | -14.76 | Pk               |
| H                   | 4804.00   | 41.63            | 30.55             | 5.77          | 24.66             | 41.51             | 54       | -12.49 | AV               |
| H                   | 7206.00   | 58.13            | 30.33             | 6.32          | 24.55             | 58.67             | 74       | -15.33 | Pk               |
| H                   | 7206.00   | 42.84            | 30.33             | 6.32          | 24.55             | 43.38             | 54       | -10.62 | AV               |
| H                   | 9608.00   | 55.86            | 30.55             | 5.77          | 24.66             | 55.74             | 74       | -18.26 | Pk               |
| H                   | 9608.00   | 41.61            | 30.55             | 5.77          | 24.66             | 41.49             | 54       | -12.51 | AV               |
| H                   | 12010.00  | 58.66            | 30.33             | 6.32          | 24.55             | 59.2              | 74       | -14.8  | Pk               |
| H                   | 12010.00  | 41.54            | 30.33             | 6.32          | 24.55             | 42.08             | 54       | -11.92 | AV               |

| Polar<br>(H/V)         | Frequency | Meter<br>Reading | Pre-ampli<br>fier | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector<br>Type |
|------------------------|-----------|------------------|-------------------|---------------|-------------------|-------------------|----------|--------|------------------|
|                        | (MHz)     | (dBuV)           | (dB)              | (dB)          | (dB/m)            | (dBuV/m)          | (dBuV/m) | (dB)   |                  |
| GFSK-1M                |           |                  |                   |               |                   |                   |          |        |                  |
| Middle Channel:2440MHz |           |                  |                   |               |                   |                   |          |        |                  |
| V                      | 4880.00   | 58.66            | 30.55             | 5.77          | 24.66             | 58.54             | 74       | -15.46 | Pk               |
| V                      | 4880.00   | 41.15            | 30.55             | 5.77          | 24.66             | 41.03             | 54       | -12.97 | AV               |
| V                      | 7320.00   | 56.84            | 30.33             | 6.32          | 24.55             | 57.38             | 74       | -16.62 | Pk               |
| V                      | 7320.00   | 44.04            | 30.33             | 6.32          | 24.55             | 44.58             | 54       | -9.42  | AV               |
| V                      | 9760.00   | 56.55            | 30.55             | 5.77          | 24.66             | 56.43             | 74       | -17.57 | Pk               |
| V                      | 9760.00   | 41.81            | 30.55             | 5.77          | 24.66             | 41.69             | 54       | -12.31 | AV               |
| V                      | 12200.00  | 59.36            | 30.33             | 6.32          | 24.55             | 59.9              | 74       | -14.1  | Pk               |
| V                      | 12200.00  | 44.28            | 30.33             | 6.32          | 24.55             | 44.82             | 54       | -9.18  | AV               |
| H                      | 4880.00   | 57.38            | 30.55             | 5.77          | 24.66             | 57.26             | 74       | -16.74 | Pk               |
| H                      | 4880.00   | 44.73            | 30.55             | 5.77          | 24.66             | 44.61             | 54       | -9.39  | AV               |
| H                      | 7320.00   | 55.04            | 30.33             | 6.32          | 24.55             | 55.58             | 74       | -18.42 | Pk               |
| H                      | 7320.00   | 44.36            | 30.33             | 6.32          | 24.55             | 44.9              | 54       | -9.1   | AV               |
| H                      | 9760.00   | 56.1             | 30.55             | 5.77          | 24.66             | 55.98             | 74       | -18.02 | Pk               |
| H                      | 976000    | 41.32            | 30.55             | 5.77          | 24.66             | 41.2              | 54       | -12.8  | AV               |
| H                      | 12200.00  | 58.82            | 30.33             | 6.32          | 24.55             | 59.36             | 74       | -14.64 | Pk               |
| H                      | 12200.00  | 44.59            | 30.33             | 6.32          | 24.55             | 45.13             | 54       | -8.87  | AV               |

| Polar (H/V)          | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB/m) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|----------------------|-----------------|----------------------|--------------------|-----------------|-----------------------|-------------------------|-----------------|-------------|---------------|
| GFSK-1M              |                 |                      |                    |                 |                       |                         |                 |             |               |
| High Channel:2480MHz |                 |                      |                    |                 |                       |                         |                 |             |               |
| V                    | 4960.00         | 57.3                 | 30.55              | 5.77            | 24.66                 | 57.18                   | 74              | -16.82      | Pk            |
| V                    | 4960.00         | 41.13                | 30.55              | 5.77            | 24.66                 | 41.01                   | 54              | -12.99      | AV            |
| V                    | 7440.00         | 59.46                | 30.33              | 6.32            | 24.55                 | 60                      | 74              | -14         | Pk            |
| V                    | 7440.00         | 44.84                | 30.33              | 6.32            | 24.55                 | 45.38                   | 54              | -8.62       | AV            |
| V                    | 9920.00         | 55.35                | 30.55              | 5.77            | 24.66                 | 55.23                   | 74              | -18.77      | Pk            |
| V                    | 9920.00         | 41.36                | 30.55              | 5.77            | 24.66                 | 41.24                   | 54              | -12.76      | AV            |
| V                    | 12400.00        | 57.11                | 30.33              | 6.32            | 24.55                 | 57.65                   | 74              | -16.35      | Pk            |
| V                    | 12400.00        | 41.43                | 30.33              | 6.32            | 24.55                 | 41.97                   | 54              | -12.03      | AV            |
| H                    | 4960.00         | 56.5                 | 30.55              | 5.77            | 24.66                 | 56.38                   | 74              | -17.62      | Pk            |
| H                    | 4960.00         | 41.25                | 30.55              | 5.77            | 24.66                 | 41.13                   | 54              | -12.87      | AV            |
| H                    | 7440.00         | 57.05                | 30.33              | 6.32            | 24.55                 | 57.59                   | 74              | -16.41      | Pk            |
| H                    | 7440.00         | 43.44                | 30.33              | 6.32            | 24.55                 | 43.98                   | 54              | -10.02      | AV            |
| H                    | 9920.00         | 58.25                | 30.55              | 5.77            | 24.66                 | 58.13                   | 74              | -15.87      | Pk            |
| H                    | 9920.00         | 44.14                | 30.55              | 5.77            | 24.66                 | 44.02                   | 54              | -9.98       | AV            |
| H                    | 12400.00        | 59.03                | 30.33              | 6.32            | 24.55                 | 59.57                   | 74              | -14.43      | Pk            |
| H                    | 12400.00        | 41.36                | 30.33              | 6.32            | 24.55                 | 41.9                    | 54              | -12.1       | AV            |

| Polar (H/V)         | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB/m) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---------------------|-----------------|----------------------|--------------------|-----------------|-----------------------|-------------------------|-----------------|-------------|---------------|
| GFSK-2M             |                 |                      |                    |                 |                       |                         |                 |             |               |
| Low Channel:2402MHz |                 |                      |                    |                 |                       |                         |                 |             |               |
| V                   | 4804.00         | 55.67                | 30.55              | 5.77            | 24.66                 | 55.55                   | 74              | -18.45      | Pk            |
| V                   | 4804.00         | 41.75                | 30.55              | 5.77            | 24.66                 | 41.63                   | 54              | -12.37      | AV            |
| V                   | 7206.00         | 57.94                | 30.33              | 6.32            | 24.55                 | 58.48                   | 74              | -15.52      | Pk            |
| V                   | 7206.00         | 44.52                | 30.33              | 6.32            | 24.55                 | 45.06                   | 54              | -8.94       | AV            |
| V                   | 9608.00         | 55.94                | 30.55              | 5.77            | 24.66                 | 55.82                   | 74              | -18.18      | Pk            |
| V                   | 9608.00         | 41.08                | 30.55              | 5.77            | 24.66                 | 40.96                   | 54              | -13.04      | AV            |
| V                   | 12010.00        | 58.49                | 30.33              | 6.32            | 24.55                 | 59.03                   | 74              | -14.97      | Pk            |
| V                   | 12010.00        | 43.31                | 30.33              | 6.32            | 24.55                 | 43.85                   | 54              | -10.15      | AV            |
| H                   | 4804.00         | 59.61                | 30.55              | 5.77            | 24.66                 | 59.49                   | 74              | -14.51      | Pk            |
| H                   | 4804.00         | 41.28                | 30.55              | 5.77            | 24.66                 | 41.16                   | 54              | -12.84      | AV            |
| H                   | 7206.00         | 55.5                 | 30.33              | 6.32            | 24.55                 | 56.04                   | 74              | -17.96      | Pk            |
| H                   | 7206.00         | 43.85                | 30.33              | 6.32            | 24.55                 | 44.39                   | 54              | -9.61       | AV            |
| H                   | 9608.00         | 57.81                | 30.55              | 5.77            | 24.66                 | 57.69                   | 74              | -16.31      | Pk            |
| H                   | 9608.00         | 41.34                | 30.55              | 5.77            | 24.66                 | 41.22                   | 54              | -12.78      | AV            |
| H                   | 12010.00        | 58.86                | 30.33              | 6.32            | 24.55                 | 59.4                    | 74              | -14.6       | Pk            |
| H                   | 12010.00        | 41.22                | 30.33              | 6.32            | 24.55                 | 41.76                   | 54              | -12.24      | AV            |



| Polar (H/V)            | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB/m) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|------------------------|-----------------|----------------------|--------------------|-----------------|-----------------------|-------------------------|-----------------|-------------|---------------|
| GFSK-2M                |                 |                      |                    |                 |                       |                         |                 |             |               |
| Middle Channel:2440MHz |                 |                      |                    |                 |                       |                         |                 |             |               |
| V                      | 4880.00         | 59.73                | 30.55              | 5.77            | 24.66                 | 59.61                   | 74              | -14.39      | Pk            |
| V                      | 4880.00         | 41.48                | 30.55              | 5.77            | 24.66                 | 41.36                   | 54              | -12.64      | AV            |
| V                      | 7320.00         | 55.73                | 30.33              | 6.32            | 24.55                 | 56.27                   | 74              | -17.73      | Pk            |
| V                      | 7320.00         | 43.08                | 30.33              | 6.32            | 24.55                 | 43.62                   | 54              | -10.38      | AV            |
| V                      | 9760.00         | 58.08                | 30.55              | 5.77            | 24.66                 | 57.96                   | 74              | -16.04      | Pk            |
| V                      | 9760.00         | 42.79                | 30.55              | 5.77            | 24.66                 | 42.67                   | 54              | -11.33      | AV            |
| V                      | 12200.00        | 59.59                | 30.33              | 6.32            | 24.55                 | 60.13                   | 74              | -13.87      | Pk            |
| V                      | 12200.00        | 43.38                | 30.33              | 6.32            | 24.55                 | 43.92                   | 54              | -10.08      | AV            |
| H                      | 4880.00         | 58.46                | 30.55              | 5.77            | 24.66                 | 58.34                   | 74              | -15.66      | Pk            |
| H                      | 4880.00         | 44.93                | 30.55              | 5.77            | 24.66                 | 44.81                   | 54              | -9.19       | AV            |
| H                      | 7320.00         | 59.52                | 30.33              | 6.32            | 24.55                 | 60.06                   | 74              | -13.94      | Pk            |
| H                      | 7320.00         | 41.46                | 30.33              | 6.32            | 24.55                 | 42                      | 54              | -12         | AV            |
| H                      | 9760.00         | 59.87                | 30.55              | 5.77            | 24.66                 | 59.75                   | 74              | -14.25      | Pk            |
| H                      | 9760.00         | 42.26                | 30.55              | 5.77            | 24.66                 | 42.14                   | 54              | -11.86      | AV            |
| H                      | 12200.00        | 59.87                | 30.33              | 6.32            | 24.55                 | 60.41                   | 74              | -13.59      | Pk            |
| H                      | 12200.00        | 44.97                | 30.33              | 6.32            | 24.55                 | 45.51                   | 54              | -8.49       | AV            |

| Polar (H/V)          | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB/m) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|----------------------|-----------------|----------------------|--------------------|-----------------|-----------------------|-------------------------|-----------------|-------------|---------------|
| GFSK-2M              |                 |                      |                    |                 |                       |                         |                 |             |               |
| High Channel:2480MHz |                 |                      |                    |                 |                       |                         |                 |             |               |
| V                    | 4960.00         | 58.23                | 30.55              | 5.77            | 24.66                 | 58.11                   | 74              | -15.89      | Pk            |
| V                    | 4960.00         | 41.63                | 30.55              | 5.77            | 24.66                 | 41.51                   | 54              | -12.49      | AV            |
| V                    | 7440.00         | 59.43                | 30.33              | 6.32            | 24.55                 | 59.97                   | 74              | -14.03      | Pk            |
| V                    | 7440.00         | 42.03                | 30.33              | 6.32            | 24.55                 | 42.57                   | 54              | -11.43      | AV            |
| V                    | 9920.00         | 56.36                | 30.55              | 5.77            | 24.66                 | 56.24                   | 74              | -17.76      | Pk            |
| V                    | 9920.00         | 41.4                 | 30.55              | 5.77            | 24.66                 | 41.28                   | 54              | -12.72      | AV            |
| V                    | 12400.00        | 57.35                | 30.33              | 6.32            | 24.55                 | 57.89                   | 74              | -16.11      | Pk            |
| V                    | 12400.00        | 41.9                 | 30.33              | 6.32            | 24.55                 | 42.44                   | 54              | -11.56      | AV            |
| H                    | 4960.00         | 59.02                | 30.55              | 5.77            | 24.66                 | 58.9                    | 74              | -15.1       | Pk            |
| H                    | 4960.00         | 41.69                | 30.55              | 5.77            | 24.66                 | 41.57                   | 54              | -12.43      | AV            |
| H                    | 7440.00         | 59.19                | 30.33              | 6.32            | 24.55                 | 59.73                   | 74              | -14.27      | Pk            |
| H                    | 7440.00         | 43.36                | 30.33              | 6.32            | 24.55                 | 43.9                    | 54              | -10.1       | AV            |
| H                    | 9920.00         | 57.36                | 30.55              | 5.77            | 24.66                 | 57.24                   | 74              | -16.76      | Pk            |
| H                    | 9920.00         | 42.38                | 30.55              | 5.77            | 24.66                 | 42.26                   | 54              | -11.74      | AV            |
| H                    | 12400.00        | 55.84                | 30.33              | 6.32            | 24.55                 | 56.38                   | 74              | -17.62      | Pk            |
| H                    | 12400.00        | 43.9                 | 30.33              | 6.32            | 24.55                 | 44.44                   | 54              | -9.56       | AV            |

## Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

## 6. RADIATED BAND EMISSION MEASUREMENT

### 6.1 TEST REQUIREMENT:

|                       |                                                                                                    |          |      |      |         |
|-----------------------|----------------------------------------------------------------------------------------------------|----------|------|------|---------|
| Test Requirement:     | FCC Part15 C Section 15.209 and 15.205                                                             |          |      |      |         |
| Test Method:          | ANSI C63.10: 2013                                                                                  |          |      |      |         |
| Test Frequency Range: | All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed. |          |      |      |         |
| Test site:            | Measurement Distance: 3m                                                                           |          |      |      |         |
| Receiver setup:       | Frequency                                                                                          | Detector | RBW  | VBW  | Value   |
|                       | Above                                                                                              | Peak     | 1MHz | 3MHz | Peak    |
|                       | 1GHz                                                                                               | Average  | 1MHz | 3MHz | Average |

### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Limit (dBuV/m) (at 3M) |         |
|-----------------|------------------------|---------|
|                 | PEAK                   | AVERAGE |
| Above 1000      | 74                     | 54      |

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### 6.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel

#### Note:

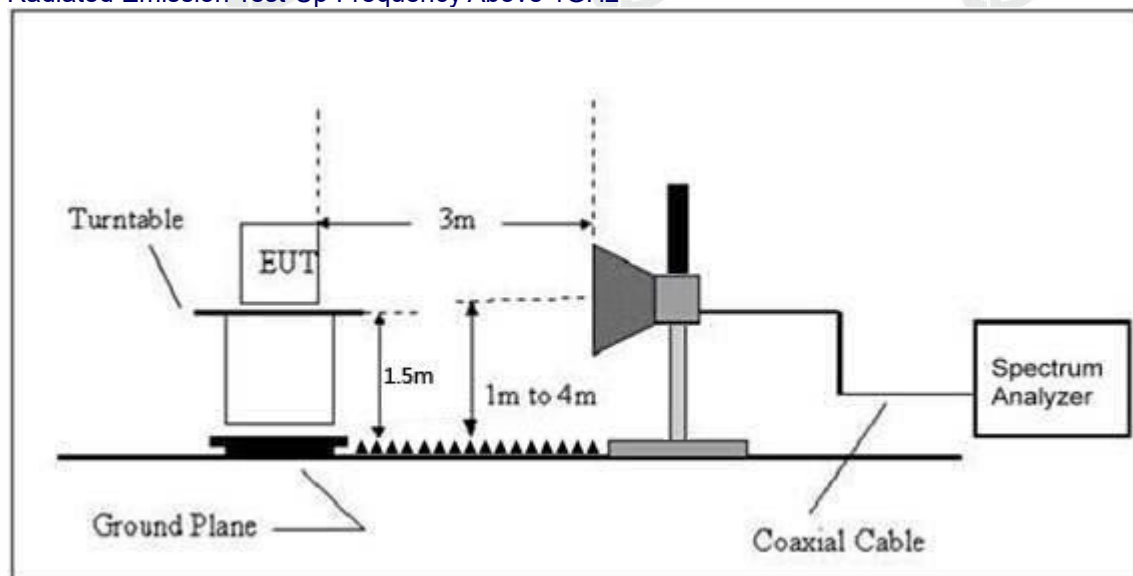
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

### 6.3 DEVIATION FROM TEST STANDARD

No deviation

#### 6.4 TEST SETUP

##### Radiated Emission Test-Up Frequency Above 1GHz



#### 6.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

### 6.6 TEST RESULT

|                                                                                                                                   | Polar<br>(H/V)        | Frequenc<br>y<br>(MHz) | Meter<br>Reading<br>(dBuV) | Pre-<br>amplifier<br>(dB) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Emission<br>level<br>(dBuV/m) | Limit<br>(dBuV<br>/m) | Margi<br>n<br>(dB) | Detec<br>tor<br>Type | Result |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|----------------------------|---------------------------|-----------------------|-----------------------------|-------------------------------|-----------------------|--------------------|----------------------|--------|
| GFSK-1M                                                                                                                           | Low Channel: 2402MHz  |                        |                            |                           |                       |                             |                               |                       |                    |                      |        |
|                                                                                                                                   | H                     | 2390.00                | 60.42                      | 30.22                     | 4.85                  | 23.98                       | 59.03                         | 74.00                 | -14.97             | PK                   | PASS   |
|                                                                                                                                   | H                     | 2390.00                | 48.77                      | 30.22                     | 4.85                  | 23.98                       | 47.38                         | 54.00                 | -6.62              | AV                   | PASS   |
|                                                                                                                                   | H                     | 2400.00                | 60.71                      | 30.22                     | 4.85                  | 23.98                       | 59.32                         | 74.00                 | -14.68             | PK                   | PASS   |
|                                                                                                                                   | H                     | 2400.00                | 48.11                      | 30.22                     | 4.85                  | 23.98                       | 46.72                         | 54.00                 | -7.28              | AV                   | PASS   |
|                                                                                                                                   | V                     | 2390.00                | 61.60                      | 30.22                     | 4.85                  | 23.98                       | 60.21                         | 74.00                 | -13.79             | PK                   | PASS   |
|                                                                                                                                   | V                     | 2390.00                | 46.07                      | 30.22                     | 4.85                  | 23.98                       | 44.68                         | 54.00                 | -9.32              | AV                   | PASS   |
|                                                                                                                                   | V                     | 2400.00                | 60.39                      | 30.22                     | 4.85                  | 23.98                       | 59.00                         | 74.00                 | -15.00             | PK                   | PASS   |
|                                                                                                                                   | V                     | 2400.00                | 46.98                      | 30.22                     | 4.85                  | 23.98                       | 45.59                         | 54.00                 | -8.41              | AV                   | PASS   |
|                                                                                                                                   | High Channel: 2480MHz |                        |                            |                           |                       |                             |                               |                       |                    |                      |        |
|                                                                                                                                   | H                     | 2483.50                | 62.08                      | 30.22                     | 4.85                  | 23.98                       | 60.69                         | 74.00                 | -13.31             | PK                   | PASS   |
|                                                                                                                                   | H                     | 2483.50                | 46.89                      | 30.22                     | 4.85                  | 23.98                       | 45.50                         | 54.00                 | -8.50              | AV                   | PASS   |
|                                                                                                                                   | H                     | 2500.00                | 62.79                      | 30.22                     | 4.85                  | 23.98                       | 61.40                         | 74.00                 | -12.60             | PK                   | PASS   |
|                                                                                                                                   | H                     | 2500.00                | 48.50                      | 30.22                     | 4.85                  | 23.98                       | 47.11                         | 54.00                 | -6.89              | AV                   | PASS   |
|                                                                                                                                   | V                     | 2483.50                | 59.39                      | 30.22                     | 4.85                  | 23.98                       | 58.00                         | 74.00                 | -16.00             | PK                   | PASS   |
|                                                                                                                                   | V                     | 2483.50                | 48.27                      | 30.22                     | 4.85                  | 23.98                       | 46.88                         | 54.00                 | -7.12              | AV                   | PASS   |
|                                                                                                                                   | V                     | 2500.00                | 61.59                      | 30.22                     | 4.85                  | 23.98                       | 60.20                         | 74.00                 | -13.80             | PK                   | PASS   |
|                                                                                                                                   | V                     | 2500.00                | 48.34                      | 30.22                     | 4.85                  | 23.98                       | 46.95                         | 54.00                 | -7.05              | AV                   | PASS   |
| GFSK-2M                                                                                                                           | Low Channel: 2402MHz  |                        |                            |                           |                       |                             |                               |                       |                    |                      |        |
|                                                                                                                                   | H                     | 2390.00                | 61.46                      | 30.22                     | 4.85                  | 23.98                       | 60.07                         | 74.00                 | -13.93             | PK                   | PASS   |
|                                                                                                                                   | H                     | 2390.00                | 48.47                      | 30.22                     | 4.85                  | 23.98                       | 47.08                         | 54.00                 | -6.92              | AV                   | PASS   |
|                                                                                                                                   | H                     | 2400.00                | 59.22                      | 30.22                     | 4.85                  | 23.98                       | 57.83                         | 74.00                 | -16.17             | PK                   | PASS   |
|                                                                                                                                   | H                     | 2400.00                | 46.35                      | 30.22                     | 4.85                  | 23.98                       | 44.96                         | 54.00                 | -9.04              | AV                   | PASS   |
|                                                                                                                                   | V                     | 2390.00                | 60.92                      | 30.22                     | 4.85                  | 23.98                       | 59.53                         | 74.00                 | -14.47             | PK                   | PASS   |
|                                                                                                                                   | V                     | 2390.00                | 46.04                      | 30.22                     | 4.85                  | 23.98                       | 44.65                         | 54.00                 | -9.35              | AV                   | PASS   |
|                                                                                                                                   | V                     | 2400.00                | 61.96                      | 30.22                     | 4.85                  | 23.98                       | 60.57                         | 74.00                 | -13.43             | PK                   | PASS   |
|                                                                                                                                   | V                     | 2400.00                | 47.75                      | 30.22                     | 4.85                  | 23.98                       | 46.36                         | 54.00                 | -7.64              | AV                   | PASS   |
|                                                                                                                                   | High Channel: 2480MHz |                        |                            |                           |                       |                             |                               |                       |                    |                      |        |
|                                                                                                                                   | H                     | 2483.50                | 60.75                      | 30.22                     | 4.85                  | 23.98                       | 59.36                         | 74.00                 | -14.64             | PK                   | PASS   |
|                                                                                                                                   | H                     | 2483.50                | 48.93                      | 30.22                     | 4.85                  | 23.98                       | 47.54                         | 54.00                 | -6.46              | AV                   | PASS   |
|                                                                                                                                   | H                     | 2500.00                | 61.82                      | 30.22                     | 4.85                  | 23.98                       | 60.43                         | 74.00                 | -13.57             | PK                   | PASS   |
|                                                                                                                                   | H                     | 2500.00                | 47.57                      | 30.22                     | 4.85                  | 23.98                       | 46.18                         | 54.00                 | -7.82              | AV                   | PASS   |
|                                                                                                                                   | V                     | 2483.50                | 60.38                      | 30.22                     | 4.85                  | 23.98                       | 58.99                         | 74.00                 | -15.01             | PK                   | PASS   |
|                                                                                                                                   | V                     | 2483.50                | 46.80                      | 30.22                     | 4.85                  | 23.98                       | 45.41                         | 54.00                 | -8.59              | AV                   | PASS   |
|                                                                                                                                   | V                     | 2500.00                | 59.36                      | 30.22                     | 4.85                  | 23.98                       | 57.97                         | 74.00                 | -16.03             | PK                   | PASS   |
|                                                                                                                                   | V                     | 2500.00                | 47.49                      | 30.22                     | 4.85                  | 23.98                       | 46.10                         | 54.00                 | -7.90              | AV                   | PASS   |
| <b>Remark:</b><br>1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit |                       |                        |                            |                           |                       |                             |                               |                       |                    |                      |        |

## 7. POWER SPECTRAL DENSITY TEST

|                   |                                          |
|-------------------|------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (e)          |
| Test Method:      | KDB558074 D0115.247 Meas Guidance v05r02 |

### 7.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |                        |           |                       |        |
|---------------------------------|------------------------|-----------|-----------------------|--------|
| Section                         | Test Item              | Limit     | Frequency Range (MHz) | Result |
| 15.247                          | Power Spectral Density | 8dBm/3kHz | 2400-2483.5           | PASS   |

### 7.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
4. Set the VBW  $\geq 3 \times \text{RBW}$ .
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



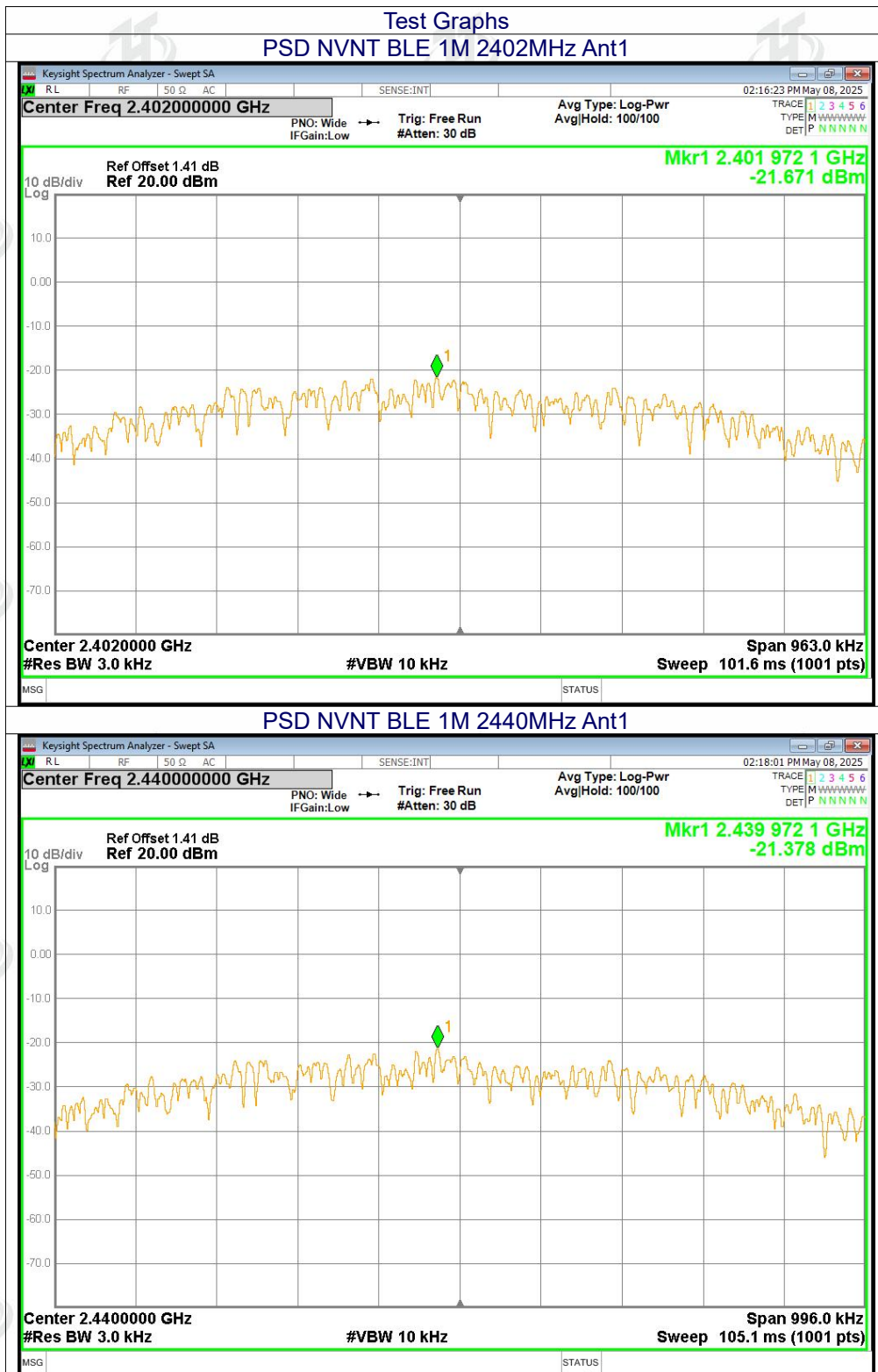
### 7.5 EUT OPERATION CONDITIONS

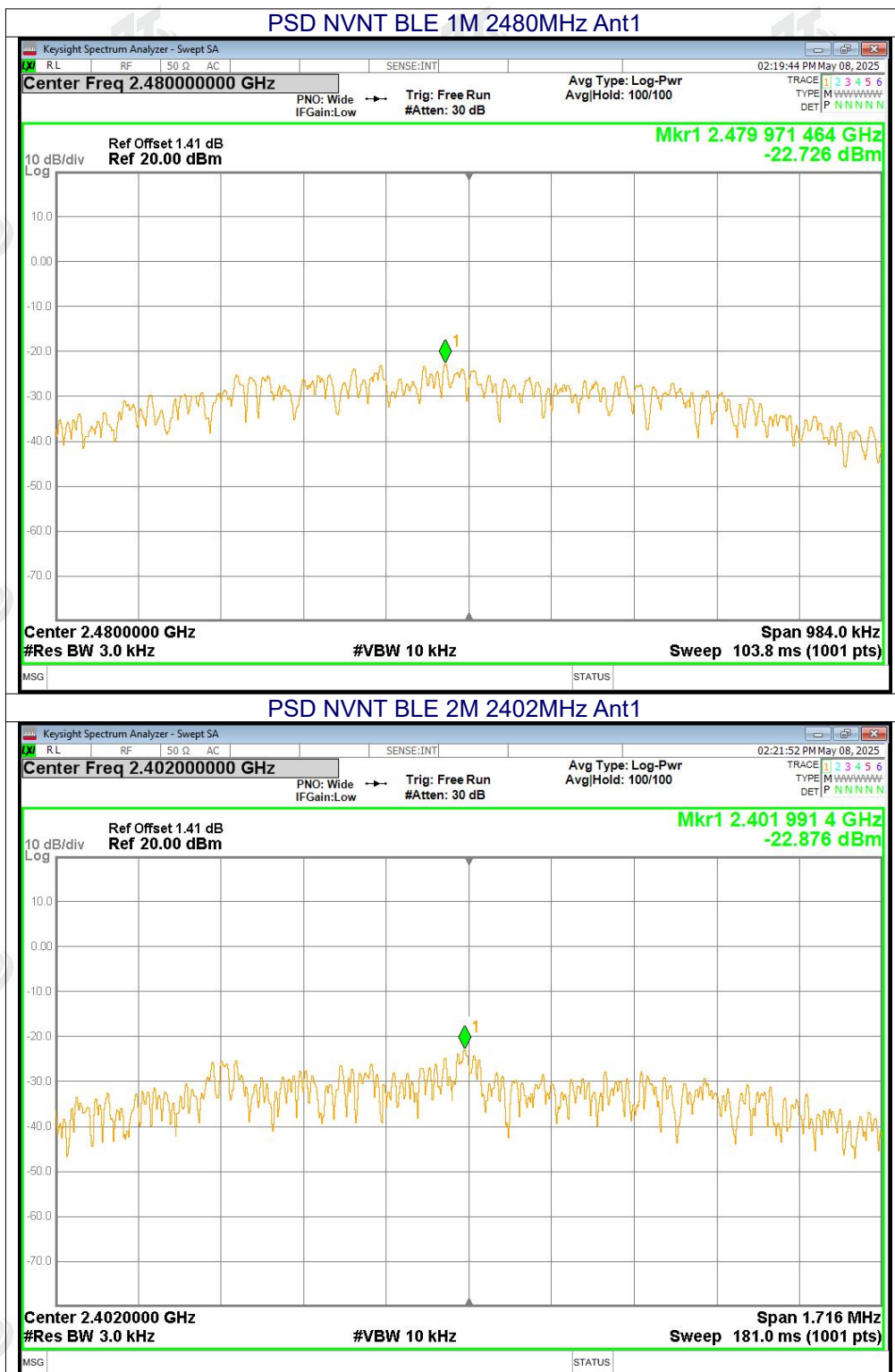
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

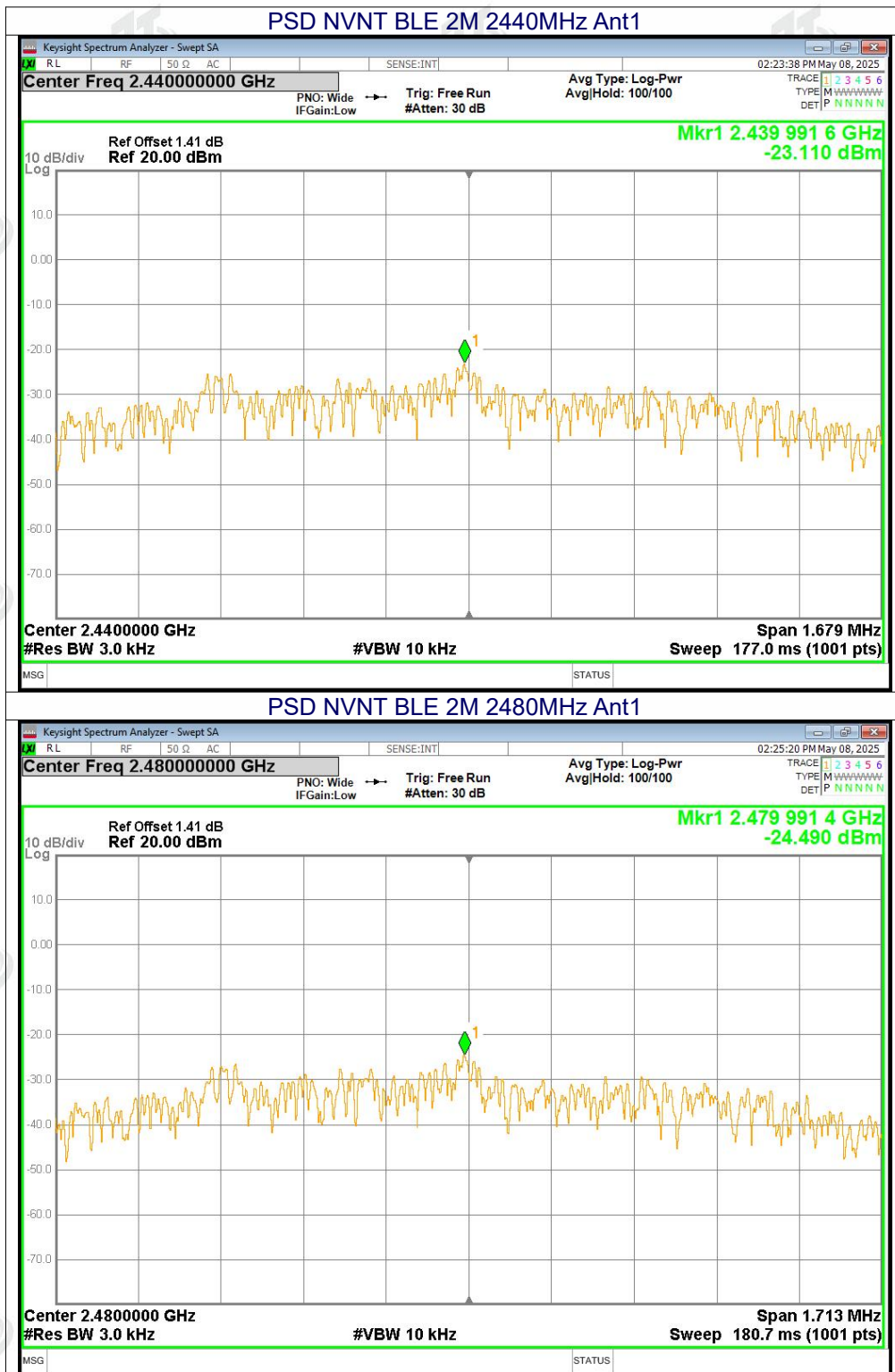
## 7.6 TEST RESULTS

|               |       |                     |          |
|---------------|-------|---------------------|----------|
| Temperature : | 25.6℃ | Relative Humidity : | 51%      |
| Test Mode :   | GFSK  | Test Voltage :      | DC 3.8 V |

| Modulation | Frequency | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|------------|-----------|-----------------------------------|------------------|--------|
| GFSK-1M    | 2402 MHz  | -21.67                            | 8                | PASS   |
|            | 2440 MHz  | -21.38                            | 8                | PASS   |
|            | 2480 MHz  | -22.73                            | 8                | PASS   |
| GFSK-2M    | 2402 MHz  | -22.88                            | 8                | PASS   |
|            | 2440 MHz  | -23.11                            | 8                | PASS   |
|            | 2480 MHz  | -24.49                            | 8                | PASS   |







## 7. Channel Bandwidth

|                   |                                          |
|-------------------|------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(2)       |
| Test Method:      | KDB558074 D0115.247 Meas Guidance v05r02 |

### 7.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |           |                                         |                       |        |
|---------------------------------|-----------|-----------------------------------------|-----------------------|--------|
| Section                         | Test Item | Limit                                   | Frequency Range (MHz) | Result |
| 15.247(a)(2)                    | Bandwidth | $\geq 500\text{KHz}$<br>(6dB bandwidth) | 2400-2483.5           | PASS   |

### 7.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

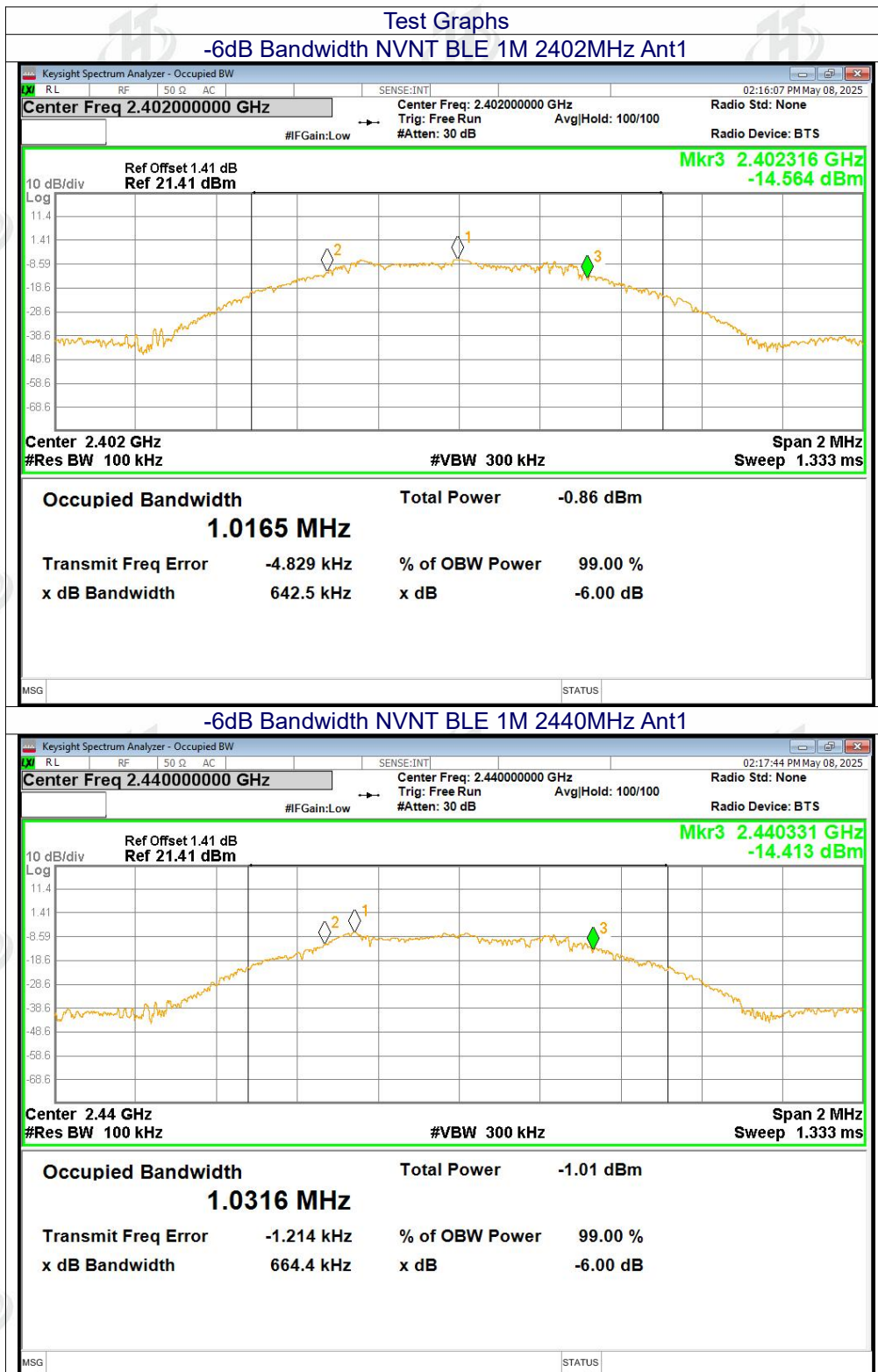
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

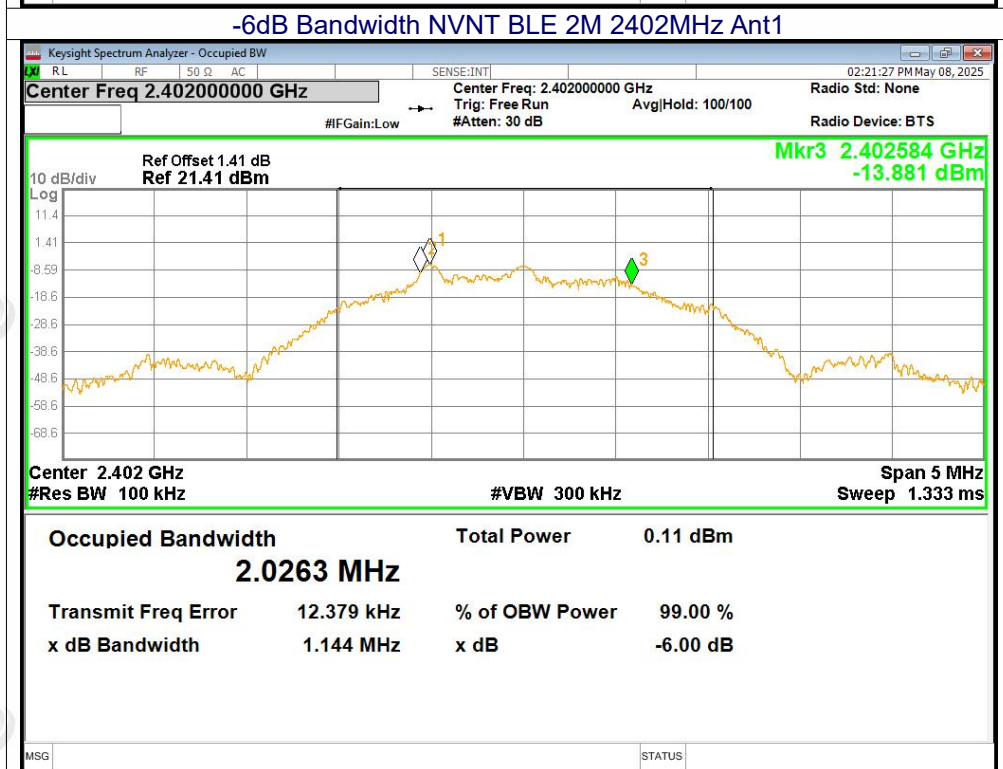
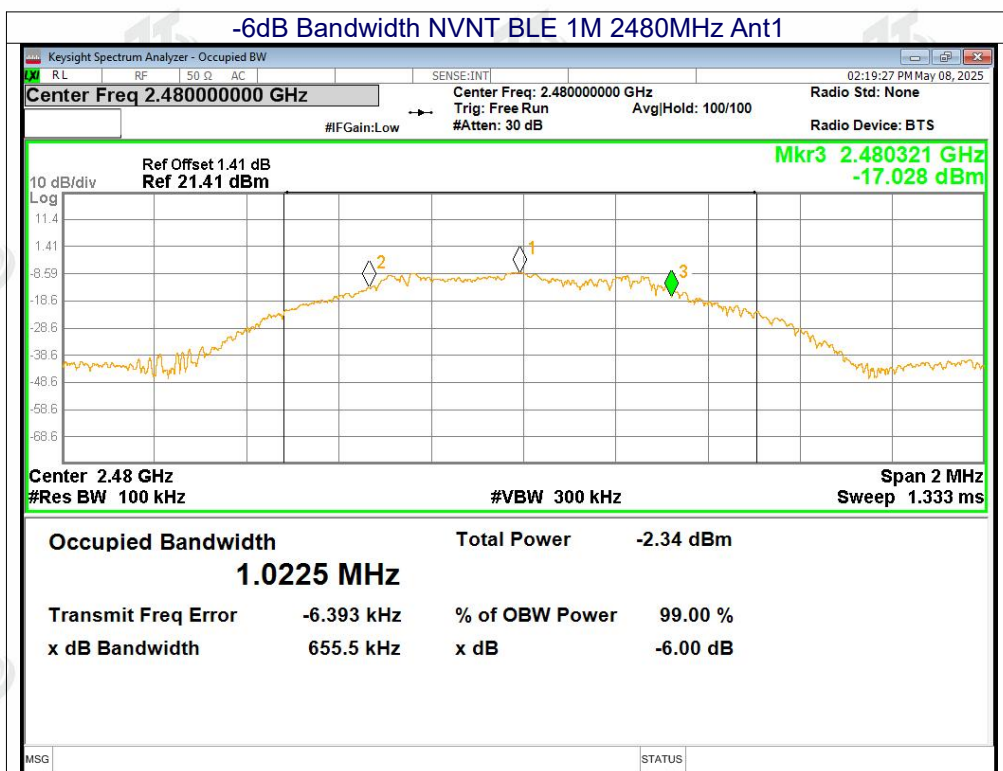
### 7.6 TEST RESULTS

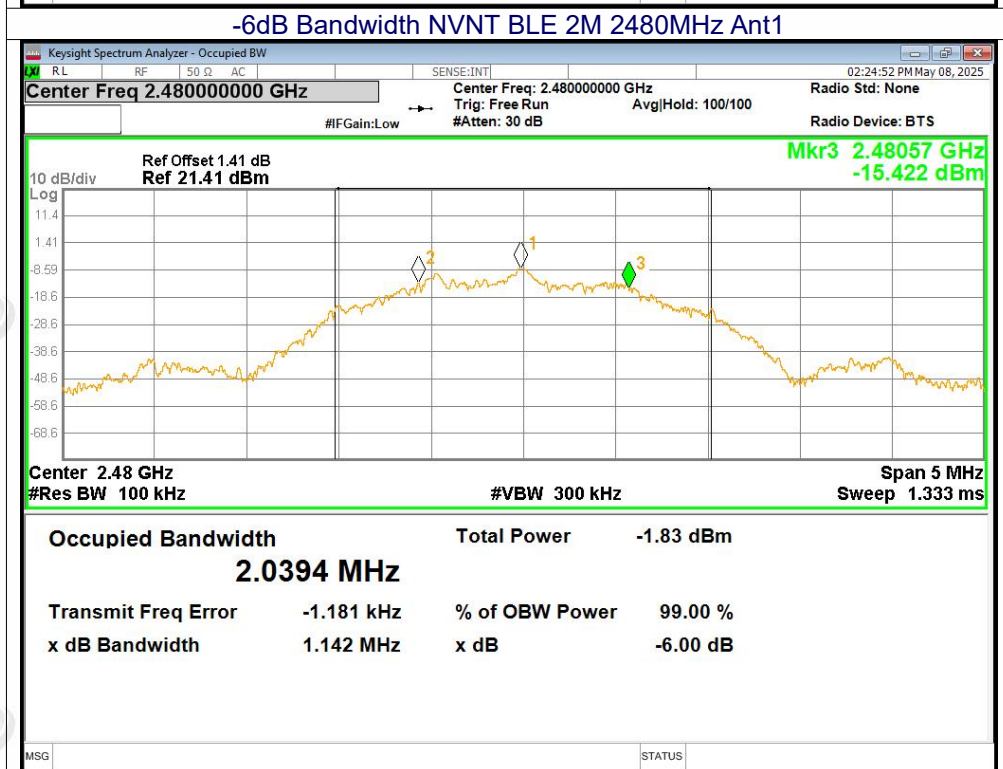
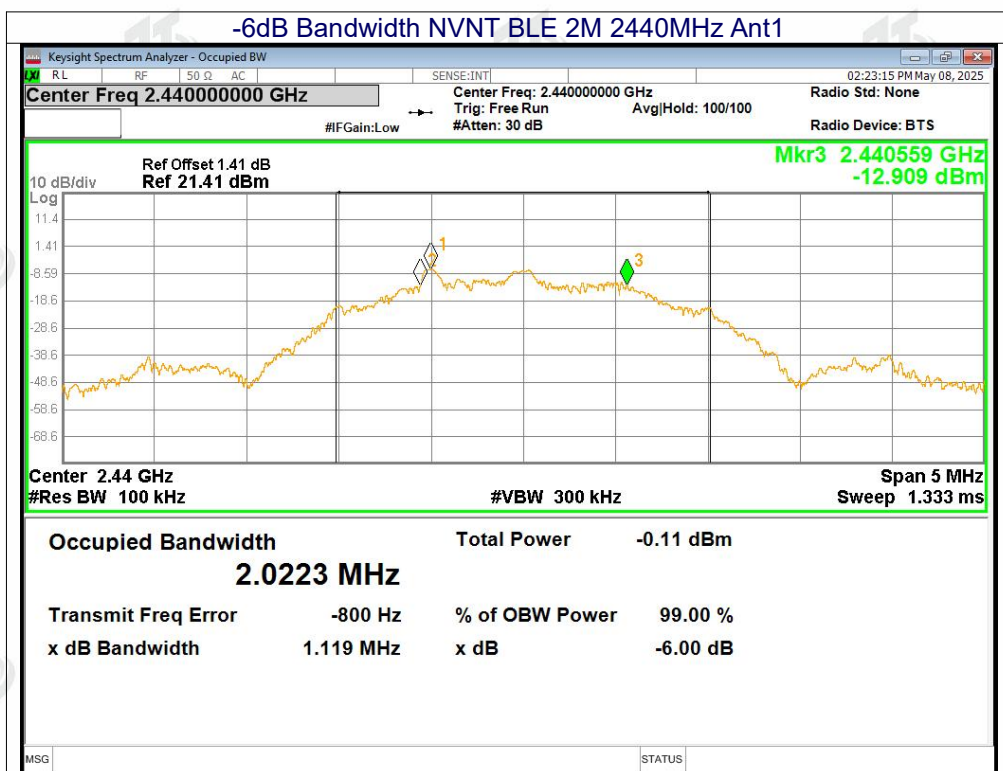


|               |       |                     |          |
|---------------|-------|---------------------|----------|
| Temperature : | 25.6℃ | Relative Humidity : | 51%      |
| Test Mode :   | GFSK  | Test Voltage :      | DC 3.8 V |

| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.642                 | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.664                 | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.656                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1.144                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 1.119                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 1.142                 | 0.5                         | Pass    |







## 8. PEAK OUTPUT POWER TEST

|                   |                                          |
|-------------------|------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3)       |
| Test Method:      | KDB558074 D0115.247 Meas Guidance v05r02 |

### 8.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |                   |                 |                       |        |
|---------------------------------|-------------------|-----------------|-----------------------|--------|
| Section                         | Test Item         | Limit           | Frequency Range (MHz) | Result |
| 15.247(b)(3)                    | Peak Output Power | 1 watt or 30dBm | 2400-2483.5           | PASS   |

### 8.2 TEST PROCEDURE

- a. 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



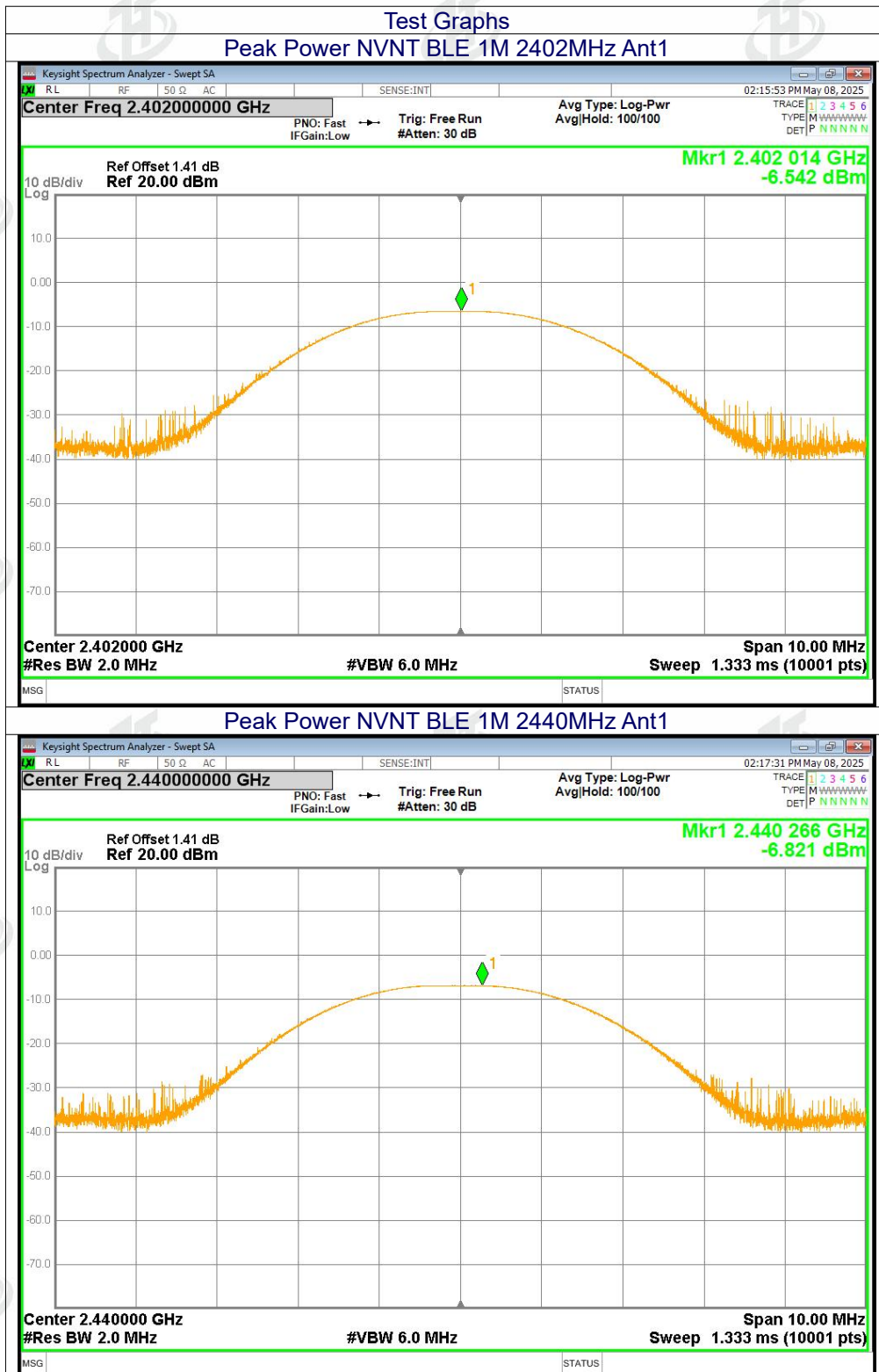
### 8.5 EUT OPERATION CONDITIONS

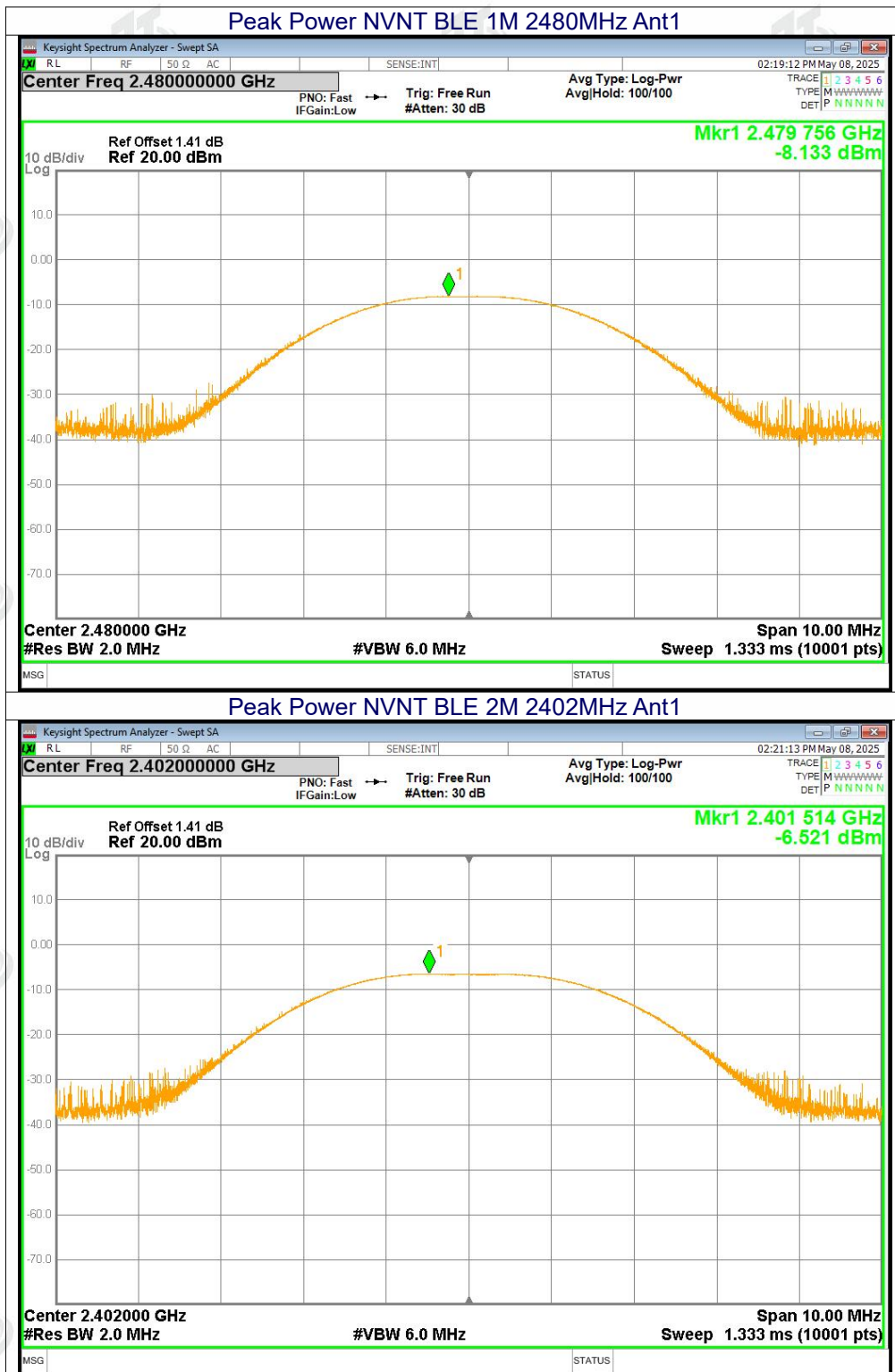
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

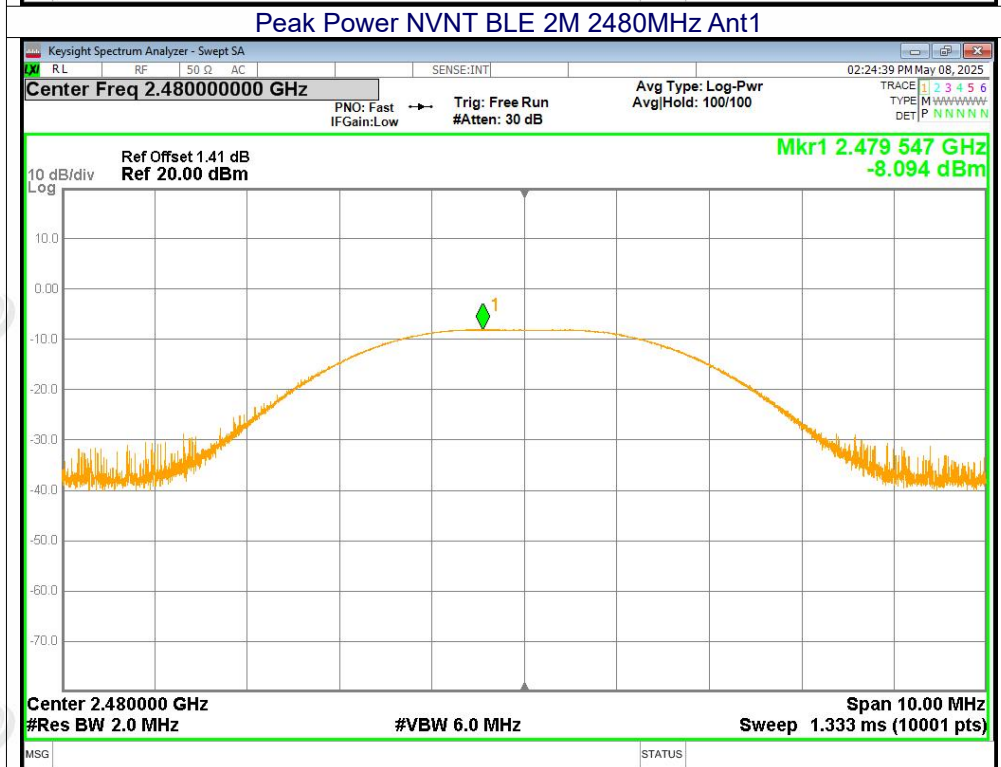
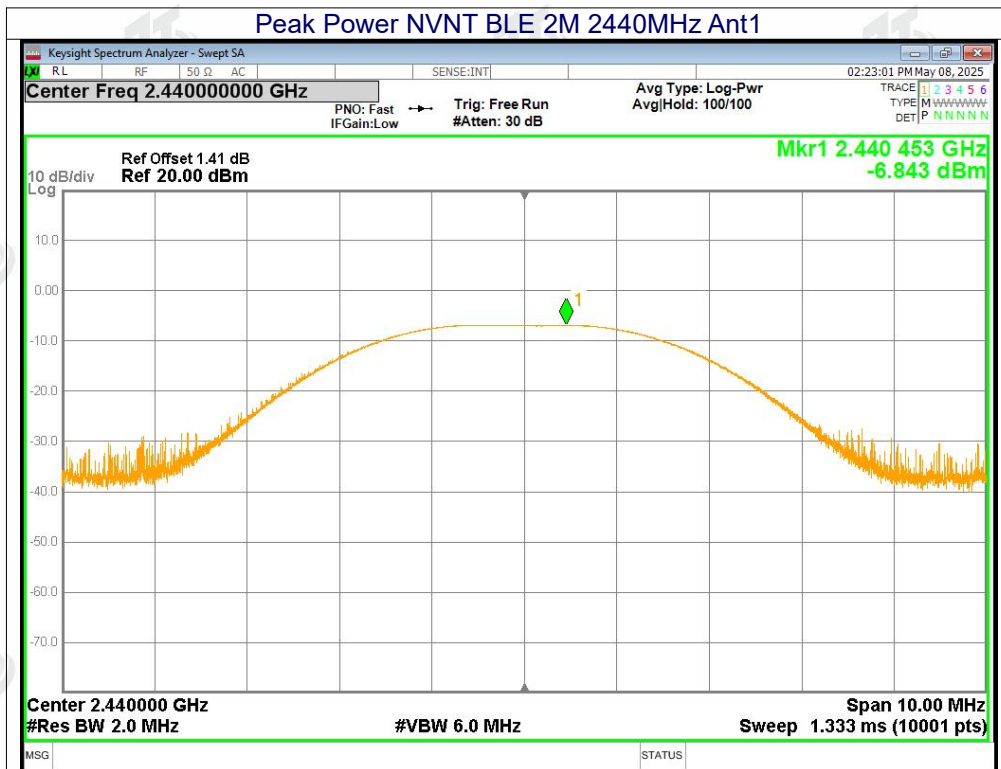
## 8.6 TEST RESULTS

|               |       |                     |          |
|---------------|-------|---------------------|----------|
| Temperature : | 25.6℃ | Relative Humidity : | 51%      |
| Test Mode :   | GFSK  | Test Voltage :      | DC 3.8 V |

| Modulation | Test channel | Peak Output Power (dBm) | Limit(dBm) | Result |
|------------|--------------|-------------------------|------------|--------|
| GFSK-1M    | Lowest       | -6.54                   | 30.00      | Pass   |
|            | Middle       | -6.82                   |            |        |
|            | Highest      | -8.13                   |            |        |
| GFSK-2M    | Lowest       | -6.52                   | 30.00      | Pass   |
|            | Middle       | -6.84                   |            |        |
|            | Highest      | -8.09                   |            |        |







## 9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

|                   |                                          |
|-------------------|------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (d)          |
| Test Method:      | KDB558074 D0115.247 Meas Guidance v05r02 |

### 9.1 APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

### 9.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

- A) Set the RBW = 100KHz.
- B) Set the VBW = 300KHz.
- C) Sweep time = auto couple.
- D) Detector function = peak.
- E) Trace mode = max hold.
- F) Allow trace to fully stabilize.

### 9.3 DEVIATION FROM STANDARD

No deviation.

### 9.4 TEST SETUP



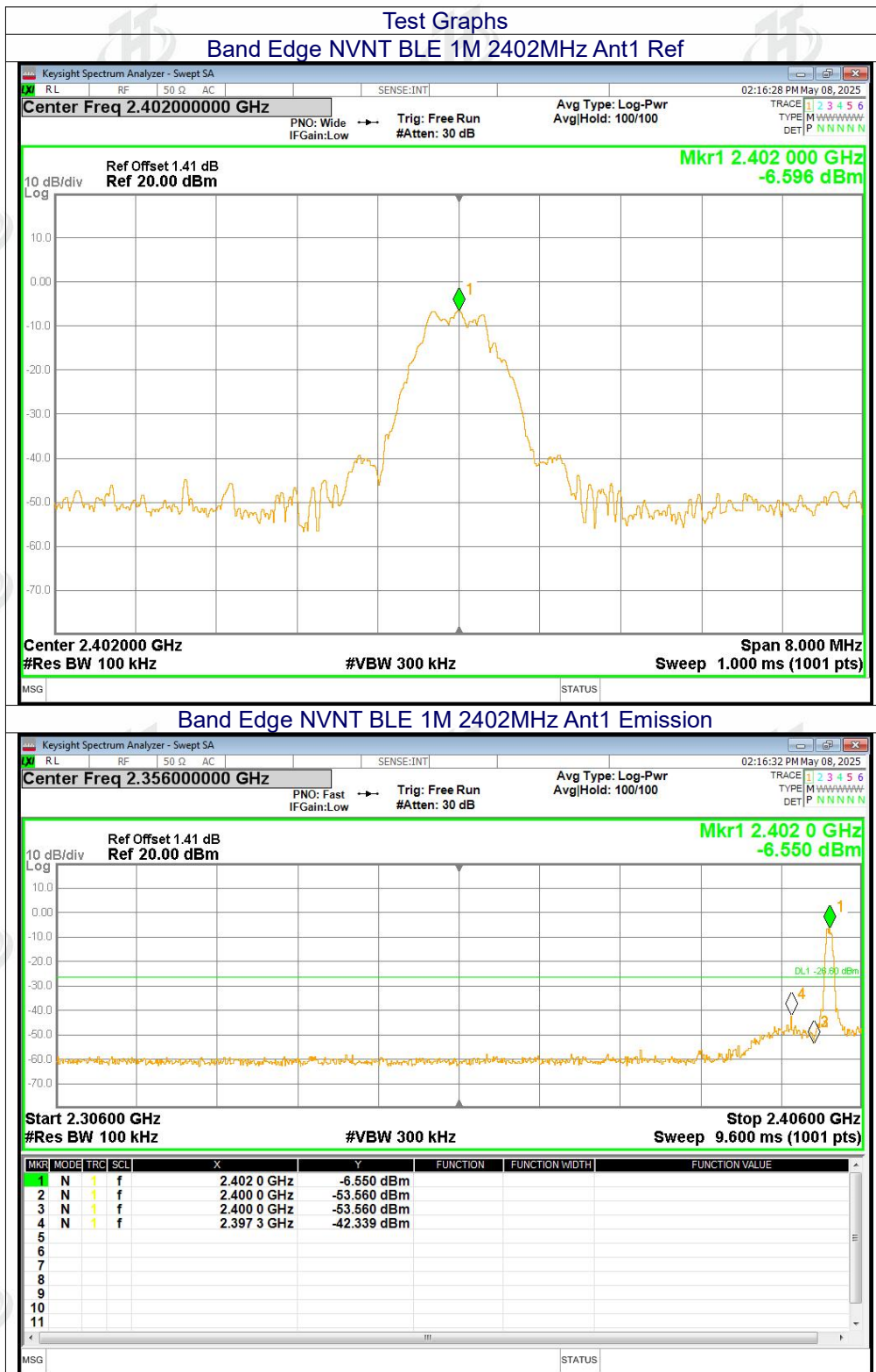
### 9.5 EUT OPERATION CONDITIONS

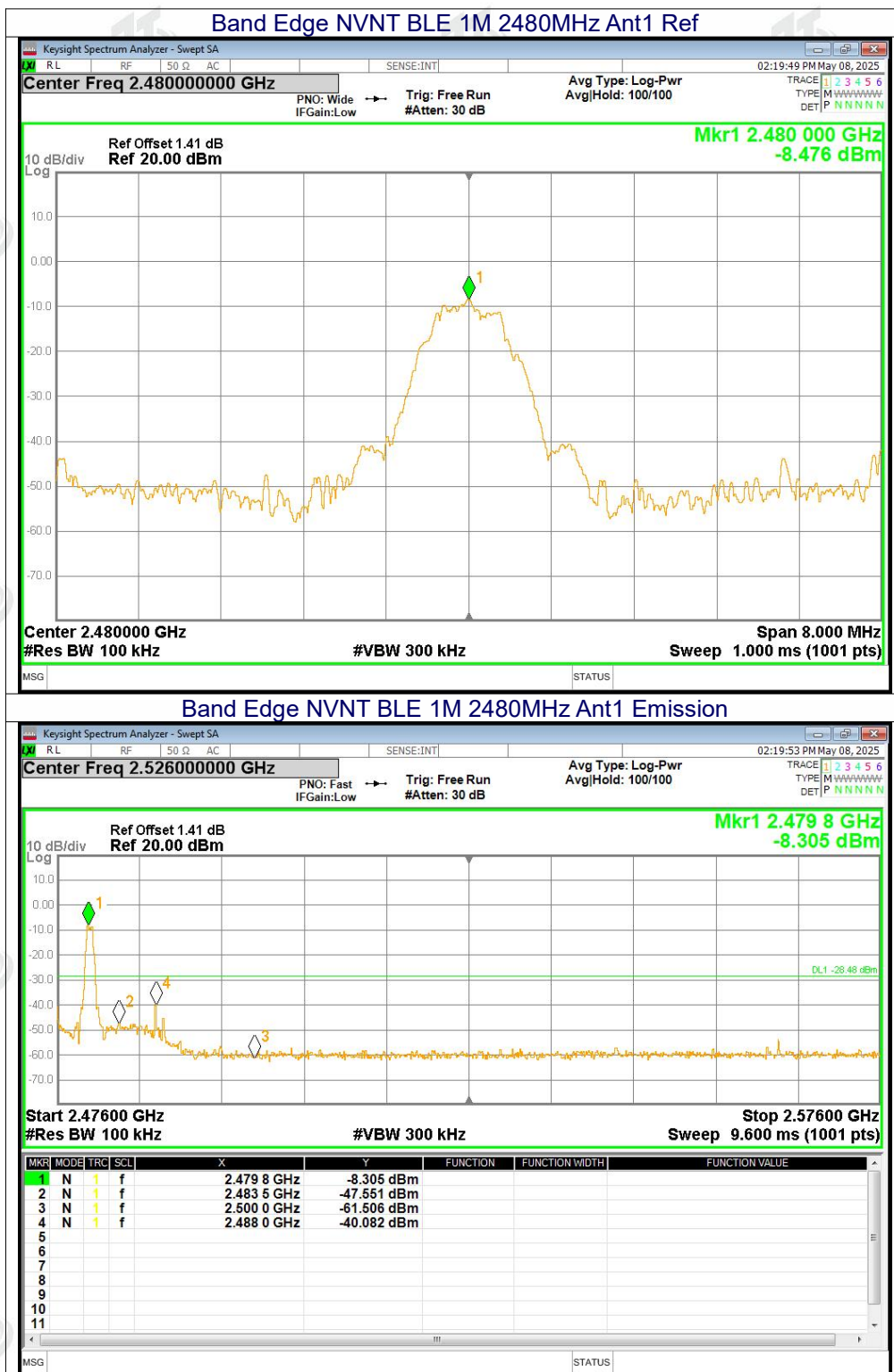
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

## 9.6 TEST RESULTS

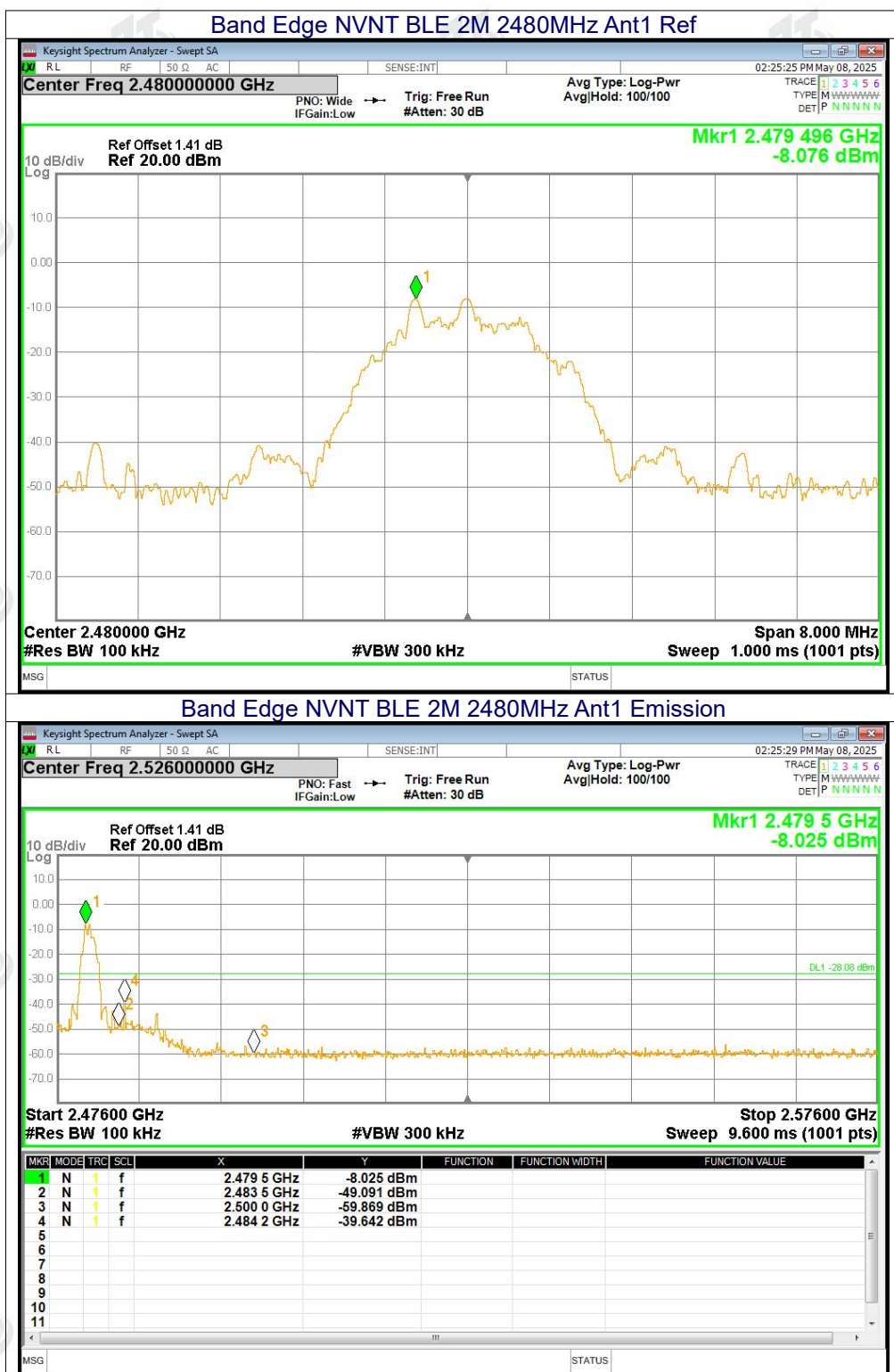
### Band Edge

| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -35.73          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -31.60          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -32.26          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -31.56          | -20         | Pass    |



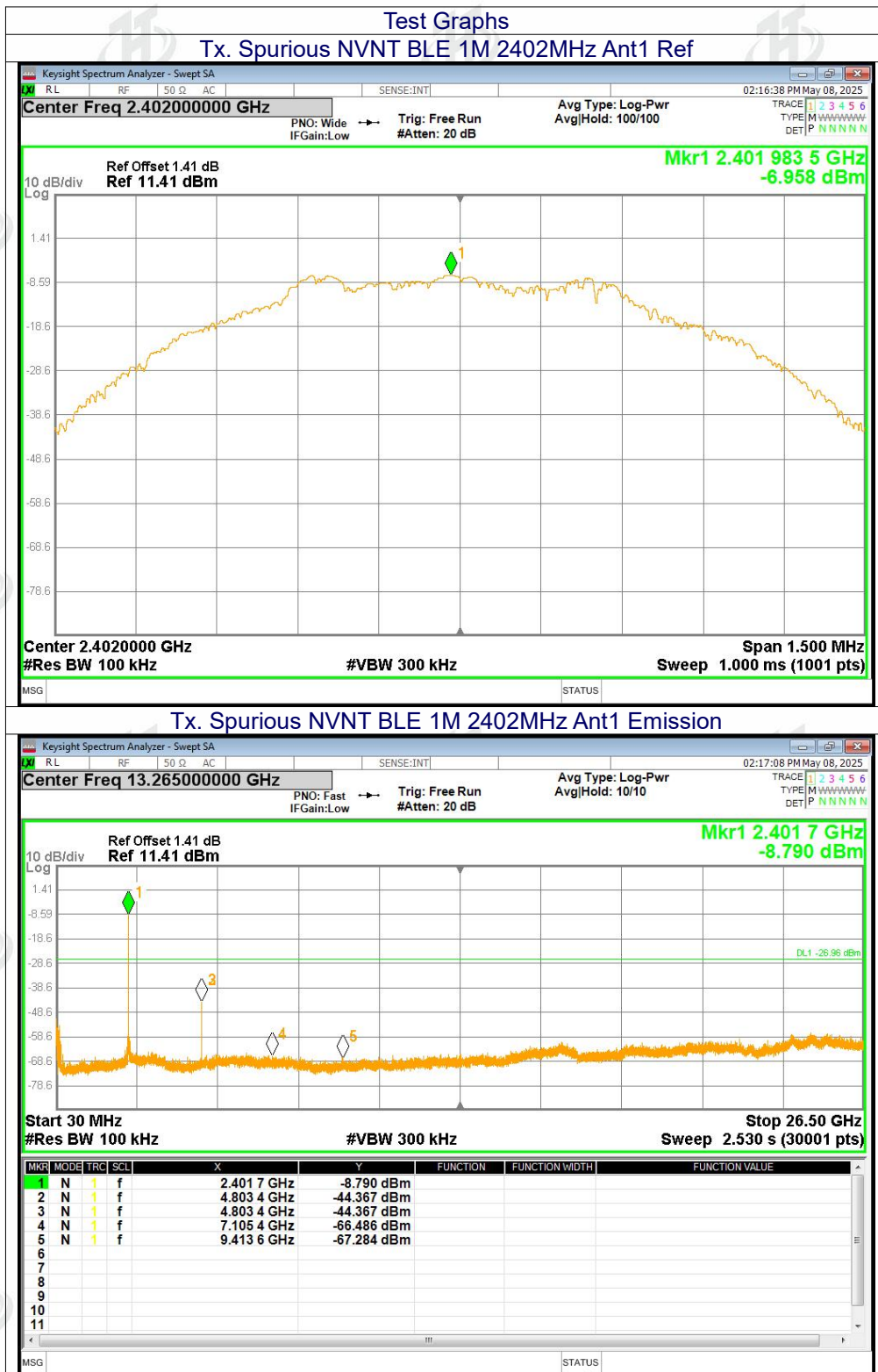


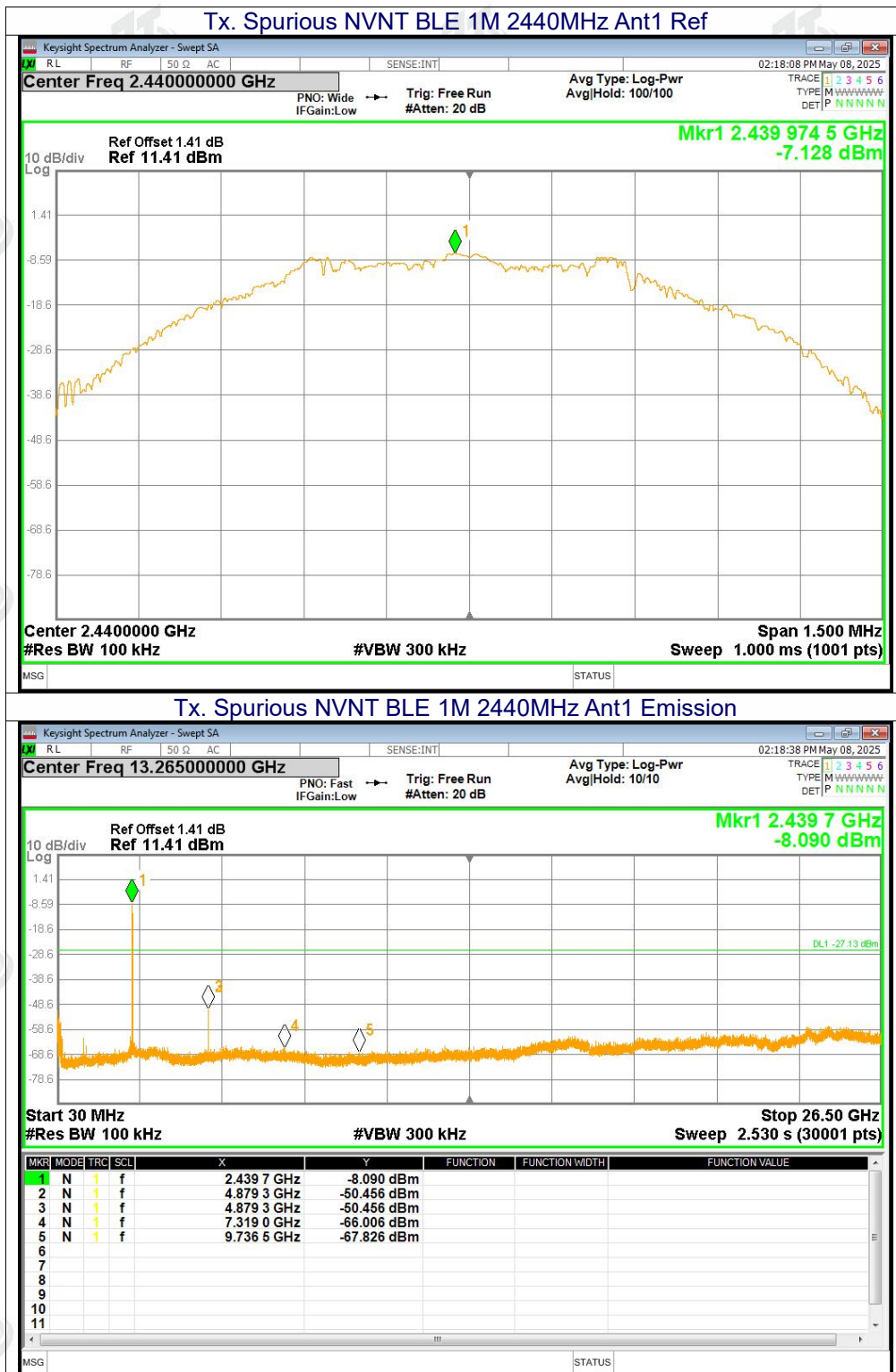


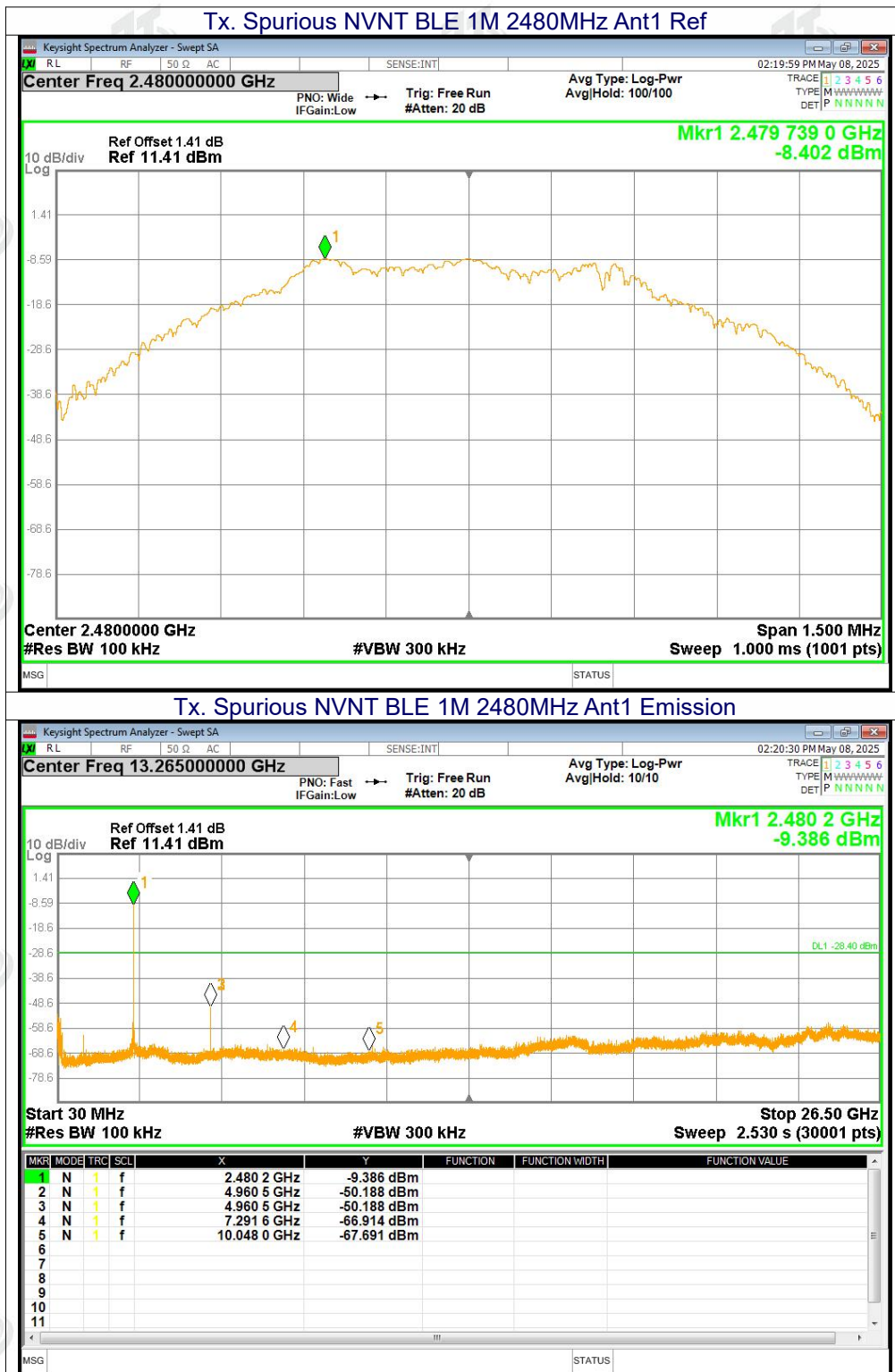


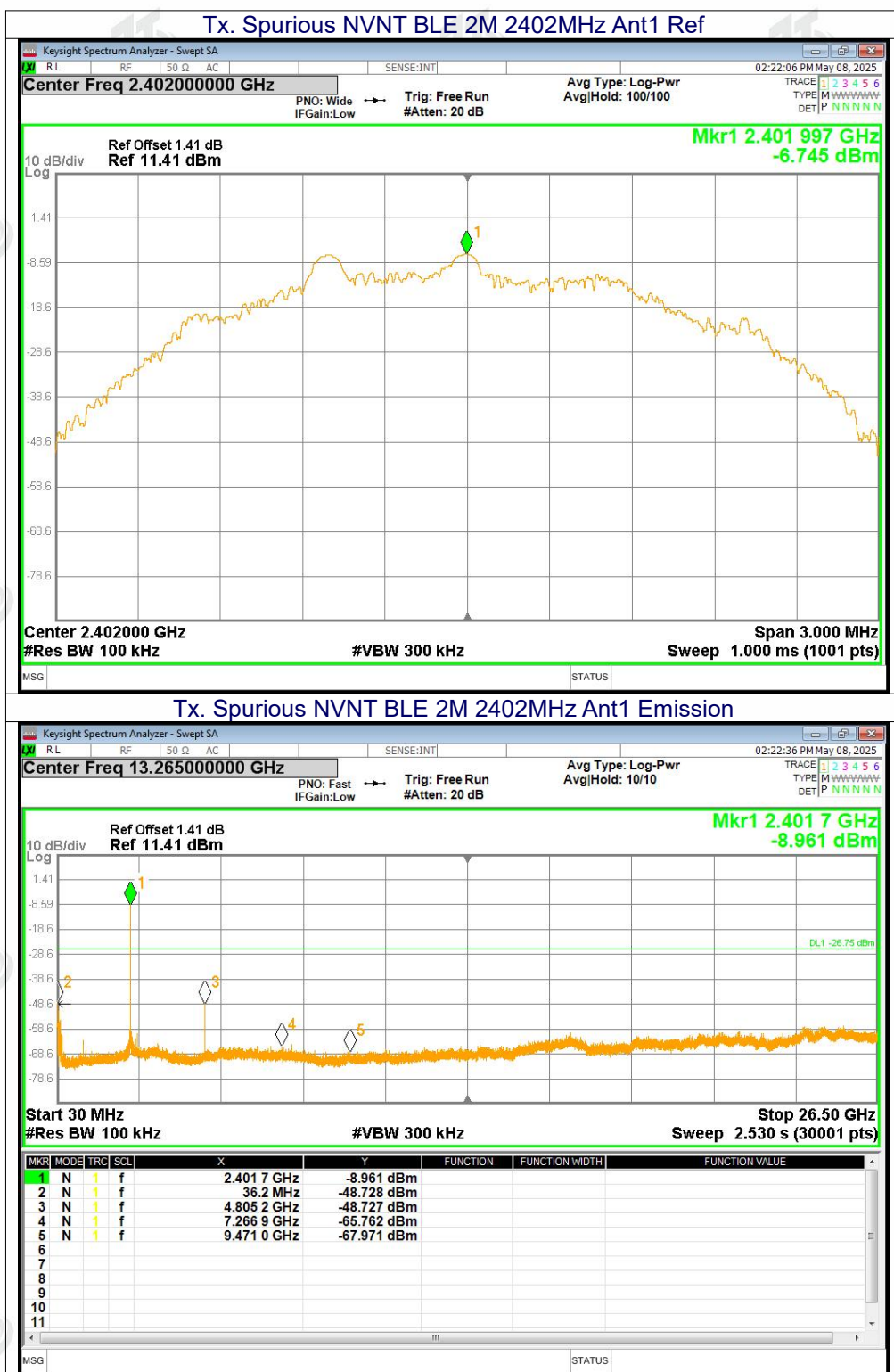
**Conducted RF Spurious Emission**

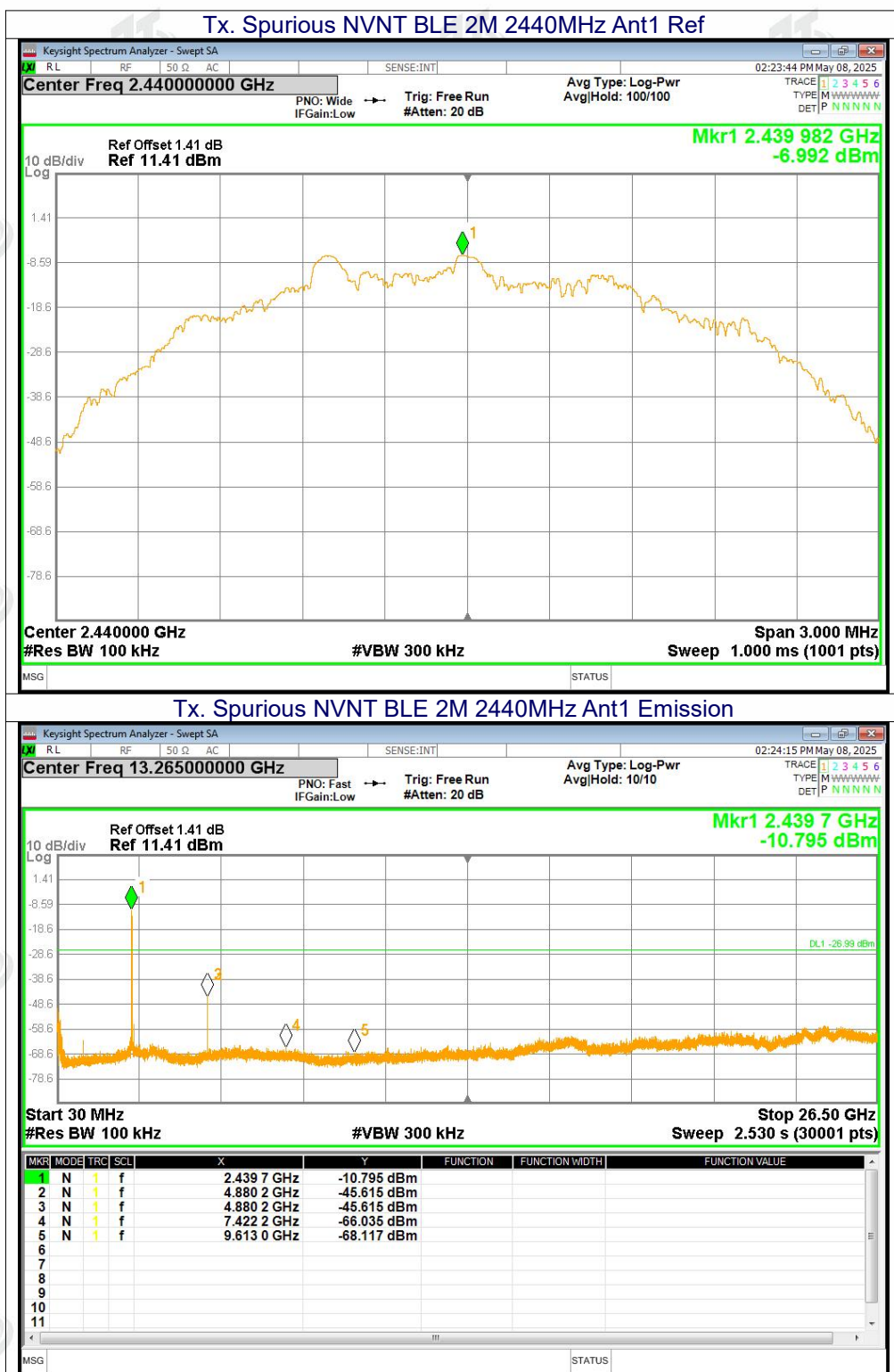
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -37.40          | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -43.32          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -41.78          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -41.98          | -20         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -38.62          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -39.87          | -20         | Pass    |

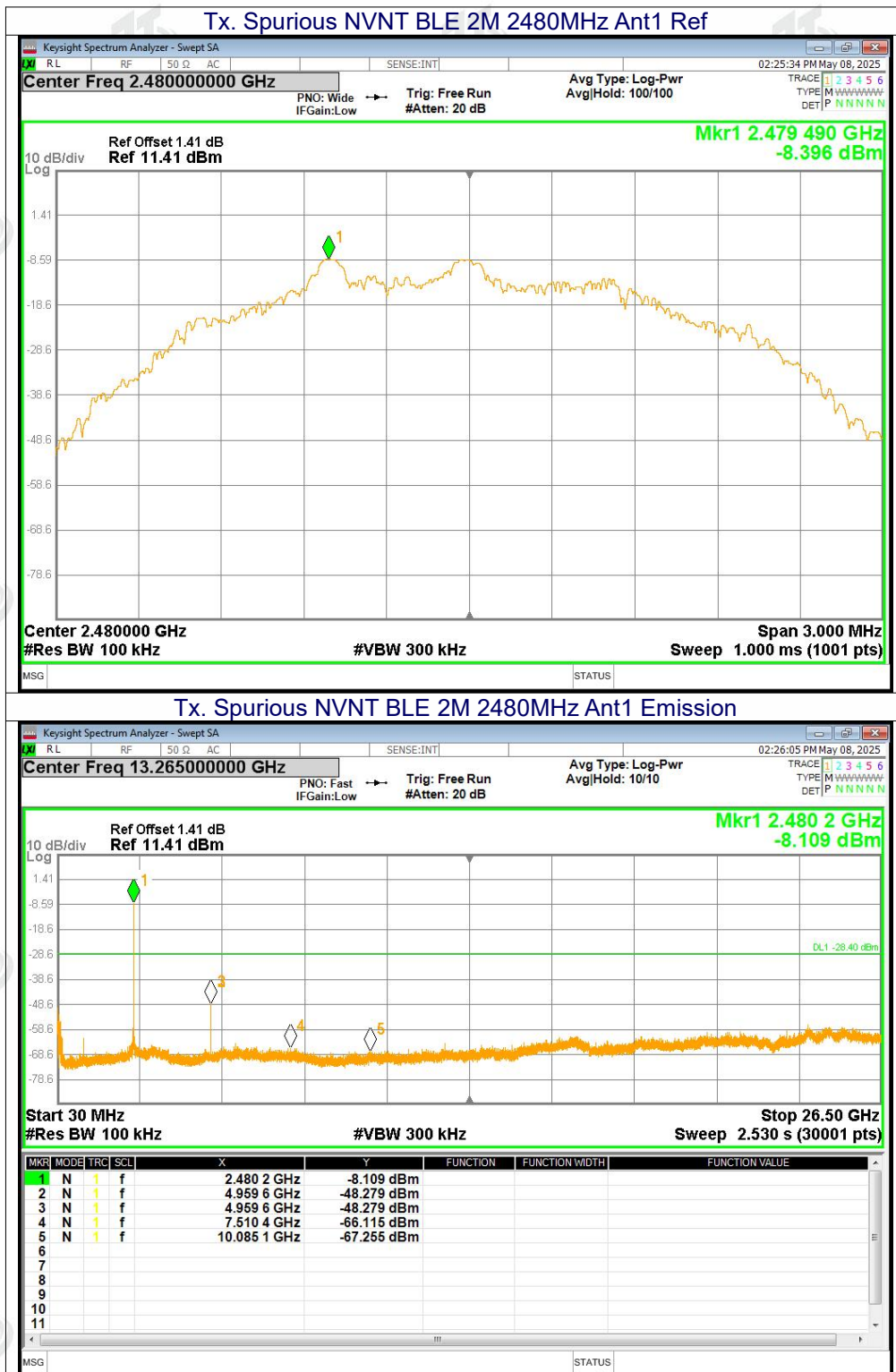












## 10.ANTENNA REQUIREMENT

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Standard requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FCC Part15 C Section 15.203 /247(b)(4) |
| <p>15.203 requirement:<br/>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement:<br/>(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> |                                        |
| EUT Antenna:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |
| The antenna is Chip antenna, the best case gain of the antennas is 4.97dBi, reference to the appendix II for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |

## 11. TEST SETUP PHOTO

Reference to the appendix I for details.

## 12. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

\*\*\*\*\* END OF REPORT \*\*\*\*\*