

# FCC Radio Test Report

## FCC ID: 2APBP-CS30

### Original Grant

**Report No.** : TB-FCC179352  
**Applicant** : Ciontek Technology Corp.  
**Equipment Under Test (EUT)**  
**EUT Name** : Handheld Smart POS  
**Model No.** : CS30  
**Series Model No.** : CS30PRO, CS30LITE, CS30S, CS30V, CS30MINI, CS30A, CS30C, CS31, CS32  
**Brand Name** : Ciontek  
**Sample ID** : 20200916-08-01#& 20200916-08-02#  
**Receipt Date** : 2021-03-22  
**Test Date** : 2021-03-23 to 2021-05-25  
**Issue Date** : 2021-05-28  
**Standards** : FCC Part 15, Subpart C 15.247  
**Test Method** : ANSI C63.10: 2013  
KDB 558074 D01 15.247 Meas Guidance v05r02  
**Conclusions** : **PASS**

In the configuration tested, the EUT complied with the standards specified above,  
The EUT technically complies with the FCC requirements

**Test/Witness Engineer** : *Rebecca*

**Engineer Supervisor** : *IVAN SU*

**Engineer Manager** : *Ray Lai*



Rebecca

Ivan Su

Ray Lai

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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## Revision History

| Report No.   | Version | Description             | Issued Date |
|--------------|---------|-------------------------|-------------|
| TB-FCC179352 | Rev.01  | Initial issue of report | 2021-05-28  |
|              |         |                         |             |
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|              |         |                         |             |

## 1. General Information about EUT

### 1.1 Client Information

|                     |   |                                                                                                                        |
|---------------------|---|------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant</b>    | : | Ciontek Technology Corp.                                                                                               |
| <b>Address</b>      | : | B501, Chanxueyan Building Wuhan University, No.6 Of Yuexing 2nd Road, Yuehai Street, Nanshan District, Shenzhen, China |
| <b>Manufacturer</b> | : | Ciontek Technology Corp.                                                                                               |
| <b>Address</b>      | : | B501, Chanxueyan Building Wuhan University, No.6 Of Yuexing 2nd Road, Yuehai Street, Nanshan District, Shenzhen, China |

### 1.2 General Description of EUT (Equipment Under Test)

|                               |   |                                                                                                                            |                                   |
|-------------------------------|---|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <b>EUT Name</b>               | : | Handheld Smart POS                                                                                                         |                                   |
| <b>Models No.</b>             | : | CS30, CS30PRO, CS30LITE, CS30S, CS30V, CS30MINI, CS30A, CS30C, CS31, CS32                                                  |                                   |
| <b>Model Difference</b>       | : | All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name.          |                                   |
| <b>Product Description</b>    | : | Operation Frequency:                                                                                                       | Bluetooth V4.2(BT): 2402~2480 MHz |
|                               |   | Number of Channel:                                                                                                         | Bluetooth: 79 Channels See Note 2 |
|                               |   | Antenna Gain:                                                                                                              | 0.8dBi PIFA Antenna               |
|                               |   | Modulation Type:                                                                                                           | GFSK<br>$\pi$ /4-DQPSK<br>8-DPSK  |
| <b>Power Rating</b>           | : | Adapter(XS12-050200U)<br>Input: 100-240V~, 50/60Hz, 0.5A<br>Output: DC5V2A                                                 |                                   |
| <b>Li-ion Polymer Battery</b> | : | 7.6V, 2600mAh, 19.76Wh                                                                                                     |                                   |
| <b>Software Version</b>       | : | a51_v0.01_20210316c                                                                                                        |                                   |
| <b>Hardware Version</b>       | : | CS30HWV2.0                                                                                                                 |                                   |
| <b>Remark</b>                 | : | The antenna gain and adapter provided by the applicant, the verified for the RF conduction test provided by TOBY test lab. |                                   |

**Note:**

- (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

(2) Channel List:

| Bluetooth Channel List |                 |         |                 |         |                 |
|------------------------|-----------------|---------|-----------------|---------|-----------------|
| Channel                | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 00                     | 2402            | 27      | 2429            | 54      | 2456            |
| 01                     | 2403            | 28      | 2430            | 55      | 2457            |
| 02                     | 2404            | 29      | 2431            | 56      | 2458            |
| 03                     | 2405            | 30      | 2432            | 57      | 2459            |
| 04                     | 2406            | 31      | 2433            | 58      | 2460            |
| 05                     | 2407            | 32      | 2434            | 59      | 2461            |
| 06                     | 2408            | 33      | 2435            | 60      | 2462            |
| 07                     | 2409            | 34      | 2436            | 61      | 2463            |
| 08                     | 2410            | 35      | 2437            | 62      | 2464            |
| 09                     | 2411            | 36      | 2438            | 63      | 2465            |
| 10                     | 2412            | 37      | 2439            | 64      | 2466            |
| 11                     | 2413            | 38      | 2440            | 65      | 2467            |
| 12                     | 2414            | 39      | 2441            | 66      | 2468            |
| 13                     | 2415            | 40      | 2442            | 67      | 2469            |
| 14                     | 2416            | 41      | 2443            | 68      | 2470            |
| 15                     | 2417            | 42      | 2444            | 69      | 2471            |
| 16                     | 2418            | 43      | 2445            | 70      | 2472            |
| 17                     | 2419            | 44      | 2446            | 71      | 2473            |
| 18                     | 2420            | 45      | 2447            | 72      | 2474            |
| 19                     | 2421            | 46      | 2448            | 73      | 2475            |
| 20                     | 2422            | 47      | 2449            | 74      | 2476            |
| 21                     | 2423            | 48      | 2450            | 75      | 2477            |
| 22                     | 2424            | 49      | 2451            | 76      | 2478            |
| 23                     | 2425            | 50      | 2452            | 77      | 2479            |
| 24                     | 2426            | 51      | 2453            | 78      | 2480            |
| 25                     | 2427            | 52      | 2454            |         |                 |
| 26                     | 2428            | 53      | 2455            |         |                 |

(3) The Antenna information about the equipment is provided by the applicant.

### 1.3 Block Diagram Showing the Configuration of System Tested

#### Charging + TX Mode



### 1.4 Description of Support Units

| Equipment Information |               |              |              |           |
|-----------------------|---------------|--------------|--------------|-----------|
| Name                  | Model         | FCC ID/VOC   | Manufacturer | Used “√”  |
| ---                   | ----          | ----         | ----         | ---       |
| Cable Information     |               |              |              |           |
| Number                | Shielded Type | Ferrite Core | Length       | Note      |
| Cable 1               | Yes           | NO           | 1.0M         | Accessory |

### 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

| For Conducted Test |                                           |
|--------------------|-------------------------------------------|
| Final Test Mode    | Description                               |
| Mode 1             | Charging+TX Mode                          |
| For Radiated Test  |                                           |
| Final Test Mode    | Description                               |
| Mode 2             | Charging+TX Mode                          |
| Mode 3             | TX Mode(GFSK) Channel 00/39/78            |
| Mode 4             | TX Mode( $\pi$ /4-DQPSK) Channel 00/39/78 |
| Mode 5             | TX Mode(8-DPSK) Channel 00/39/78          |
| Mode 6             | Hopping Mode(GFSK)                        |
| Mode 7             | Hopping Mode( $\pi$ /4-DQPSK)             |
| Mode 8             | Hopping Mode(8-DPSK)                      |

**Note:**

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate. We have pretested all the test modes above.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

TX Mode: GFSK (1 Mbps)

TX Mode:  $\pi/4$ -DQPSK (2 Mbps)

- (2) The EUT is considered a Mobile unit; it was pre-tested on the positioned of each 3 axis, X-plane, Y-plane and Z-plane. The worst case was found positioned on X-plane as the normal use. Therefore only the test data of this X-plane was used for radiated emission measurement test.

## 1.6 Description of Test Software Setting

During testing channel power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of Bluetooth mode.

| Test Software Version | QRCT     |         |          |
|-----------------------|----------|---------|----------|
| Frequency             | 2402 MHz | 2441MHz | 2480 MHz |
| GFSK                  | DEF      | DEF     | DEF      |
| $\pi/4$ -DQPSK        | DEF      | DEF     | DEF      |
| 8-DPSK                | DEF      | DEF     | DEF      |

## 1.7 Measurement Uncertainty

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

| Test Item          | Parameters                                        | Expanded Uncertainty ( $U_{Lab}$ ) |
|--------------------|---------------------------------------------------|------------------------------------|
| Conducted Emission | Level Accuracy:<br>9kHz~150kHz<br>150kHz to 30MHz | $\pm 3.50$ dB<br>$\pm 3.10$ dB     |
| Radiated Emission  | Level Accuracy:<br>9kHz to 30 MHz                 | $\pm 4.60$ dB                      |
| Radiated Emission  | Level Accuracy:<br>30MHz to 1000 MHz              | $\pm 4.50$ dB                      |
| Radiated Emission  | Level Accuracy:<br>Above 1000MHz                  | $\pm 4.20$ dB                      |

## 1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

### **A2LA Certificate No.: 4750.01**

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351.

Designation Number: CN1223.

### **IC Registration No.: (11950A)**

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056

## 2. Test Summary

| FCC Part 15 Subpart C(15.247)                           |                                         |                                    |          |        |
|---------------------------------------------------------|-----------------------------------------|------------------------------------|----------|--------|
| Standard Section                                        | Test Item                               | Test Sample(s)                     | Judgment | Remark |
| 15.203                                                  | Antenna Requirement                     | 20200916-08-01#                    | PASS     | N/A    |
| 15.207                                                  | Conducted Emission                      | 20200916-08-02#                    | PASS     | N/A    |
| 15.205                                                  | Restricted Bands                        | 20200916-08-01#                    | PASS     | N/A    |
| 15.247(a)(1)                                            | Hopping Channel Separation              | 20200916-08-01#                    | PASS     | N/A    |
| 15.247(a)(1)                                            | Dwell Time                              | 20200916-08-01#                    | PASS     | N/A    |
| 15.247(b)(1)                                            | Peak Output Power                       | 20200916-08-01#                    | PASS     | N/A    |
| 15.247(b)(1)                                            | Number of Hopping Frequency             | 20200916-08-01#                    | PASS     | N/A    |
| 15.247(d)                                               | Band Edge                               | 20200916-08-01#                    | PASS     | N/A    |
| 15.247(c)&15.209                                        | Radiated Spurious Emission              | 20200916-08-01#<br>20200916-08-02# | PASS     | N/A    |
| 15.247(a)                                               | 99% Occupied Bandwidth & 20dB Bandwidth | 20200916-08-01#                    | PASS     | N/A    |
| <b>Note:</b> N/A is an abbreviation for Not Applicable. |                                         |                                    |          |        |

## 3. Test Software

| Test Item                | Test Software | Manufacturer | Version No. |
|--------------------------|---------------|--------------|-------------|
| Conducted Emission       | EZ-EMC        | EZ           | CDI-03A2    |
| Radiation Emission       | EZ-EMC        | EZ           | FA-03A2RE   |
| RF Conducted Measurement | MTS-8310      | MWRfTest     | V2.0.0.0    |

## 4. Test Equipment

| Conducted Emission Test    |                                        |                   |               |               |               |
|----------------------------|----------------------------------------|-------------------|---------------|---------------|---------------|
| Equipment                  | Manufacturer                           | Model No.         | Serial No.    | Last Cal.     | Cal. Due Date |
| EMI Test Receiver          | Rohde & Schwarz                        | ESCI              | 100321        | Jul. 06, 2020 | Jul. 05, 2021 |
| RF Switching Unit          | Compliance<br>Direction Systems<br>Inc | RSU-A4            | 34403         | Jul. 06, 2020 | Jul. 05, 2021 |
| AMN                        | SCHWARZBECK                            | NNBL 8226-2       | 8226-2/164    | Jul. 06, 2020 | Jul. 05, 2021 |
| LISN                       | Rohde & Schwarz                        | ENV216            | 101131        | Jul. 06, 2020 | Jul. 05, 2021 |
| Radiation Emission Test    |                                        |                   |               |               |               |
| Equipment                  | Manufacturer                           | Model No.         | Serial No.    | Last Cal.     | Cal. Due Date |
| Spectrum Analyzer          | Agilent                                | E4407B            | MY45106456    | Jul. 06, 2020 | Jul. 05, 2021 |
| EMI Test Receiver          | Rohde & Schwarz                        | ESPI              | 100010/007    | Jul. 06, 2020 | Jul. 05, 2021 |
| Spectrum Analyzer          | Rohde & Schwarz                        | FSV40-N           | 102197        | Jul. 06, 2020 | Jul. 05, 2021 |
| Bilog Antenna              | ETS-LINDGREN                           | 3142E             | 00117537      | Mar.01, 2020  | Feb. 28, 2022 |
| Horn Antenna               | ETS-LINDGREN                           | 3117              | 00143207      | Mar.01, 2020  | Feb. 28, 2022 |
| Horn Antenna               | ETS-LINDGREN                           | BBHA 9170         | BBHA9170582   | Mar.01, 2020  | Feb. 28, 2022 |
| Loop Antenna               | SCHWARZBECK                            | FMZB 1519 B       | 1519B-059     | Jul. 07, 2020 | Jul. 06, 2021 |
| Pre-amplifier              | Sonoma                                 | 310N              | 185903        | Feb. 25, 2021 | Feb. 24, 2022 |
| Pre-amplifier              | HP                                     | 8449B             | 3008A00849    | Feb. 25, 2021 | Feb. 24, 2022 |
| Pre-amplifier              | SKET                                   | LNPA_1840G-50     | SK201904032   | Feb. 25, 2021 | Feb. 24, 2022 |
| Cable                      | HUBER+SUHNER                           | 100               | SUCOFLEX      | Feb. 25, 2021 | Feb. 24, 2022 |
| Positioning Controller     | ETS-LINDGREN                           | 2090              | N/A           | N/A           | N/A           |
| Antenna Conducted Emission |                                        |                   |               |               |               |
| Equipment                  | Manufacturer                           | Model No.         | Serial No.    | Last Cal.     | Cal. Due Date |
| Spectrum Analyzer          | Agilent                                | E4407B            | MY45106456    | Jul. 06, 2020 | Jul. 05, 2021 |
| Spectrum Analyzer          | Rohde & Schwarz                        | ESPI              | 100010/007    | Jul. 06, 2020 | Jul. 05, 2021 |
| MXA Signal Analyzer        | Agilent                                | N9020A            | MY49100060    | Sep. 11, 2020 | Sep. 10, 2021 |
| Vector Signal Generator    | Agilent                                | N5182A            | MY50141294    | Sep. 11, 2020 | Sep. 10, 2021 |
| Analog Signal Generator    | Agilent                                | N5181A            | MY50141953    | Sep. 11, 2020 | Sep. 10, 2021 |
| RF Power Sensor            | DARE!! Instruments                     | RadiPowerRPR3006W | 17I00015SNO26 | Sep. 11, 2020 | Sep. 10, 2021 |
|                            | DARE!! Instruments                     | RadiPowerRPR3006W | 17I00015SNO29 | Sep. 11, 2020 | Sep. 10, 2021 |
|                            | DARE!! Instruments                     | RadiPowerRPR3006W | 17I00015SNO31 | Sep. 11, 2020 | Sep. 10, 2021 |
|                            | DARE!! Instruments                     | RadiPowerRPR3006W | 17I00015SNO33 | Sep. 11, 2020 | Sep. 10, 2021 |

## 5. Conducted Emission Test

### 5.1 Test Standard and Limit

#### 5.1.1 Test Standard

FCC Part 15.207

#### 5.1.2 Test Limit

**Conducted Emission Test Limit**

| Frequency     | Maximum RF Line Voltage (dB $\mu$ V) |               |
|---------------|--------------------------------------|---------------|
|               | Quasi-peak Level                     | Average Level |
| 150kHz~500kHz | 66 ~ 56 *                            | 56 ~ 46 *     |
| 500kHz~5MHz   | 56                                   | 46            |
| 5MHz~30MHz    | 60                                   | 50            |

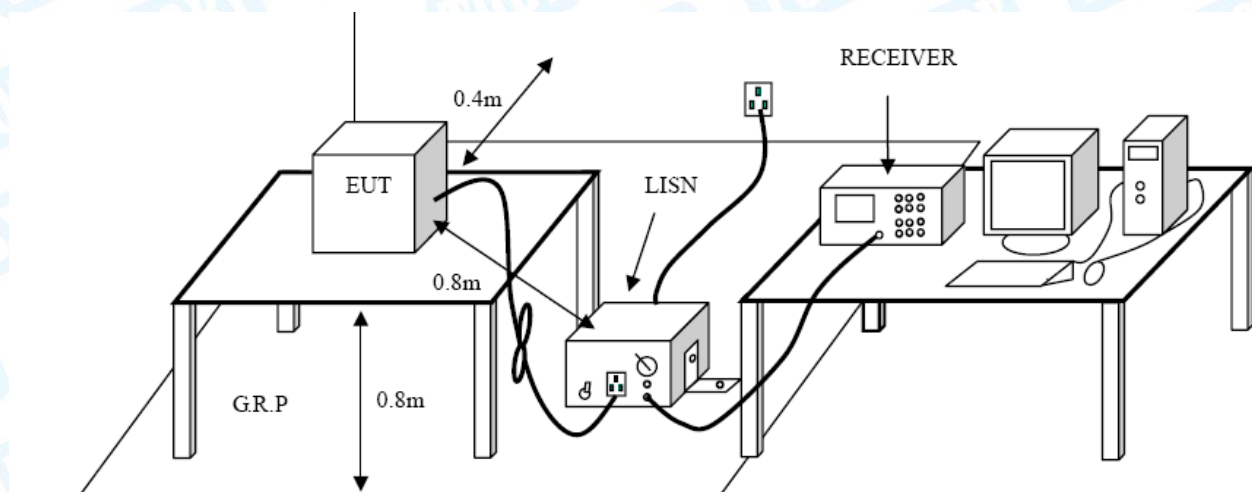
Notes:

(1) \*Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 5.2 Test Setup



### 5.3 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

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

#### 5.4 Deviation From Test Standard

No deviation

#### 5.5 EUT Operating Mode

Please refer to the description of test mode.

#### 5.6 Test Data

Please refer to the Attachment A.

## 6. Radiated and Conducted Unwanted Emissions

### 6.1 Test Standard and Limit

6.1.1 Test Standard  
FCC Part 15.209

6.1.2 Test Limit

**Radiated Emission Limits (9kHz~1000MHz)**

| Frequency (MHz) | Field Strength (microvolt/meter) | Measurement Distance (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                             |

**Radiated Emission Limit (Above 1000MHz)**

| Frequency (MHz) | Distance Meters(at 3m) |                  |
|-----------------|------------------------|------------------|
|                 | Peak (dBuV/m)          | Average (dBuV/m) |
| Above 1000      | 74                     | 54               |

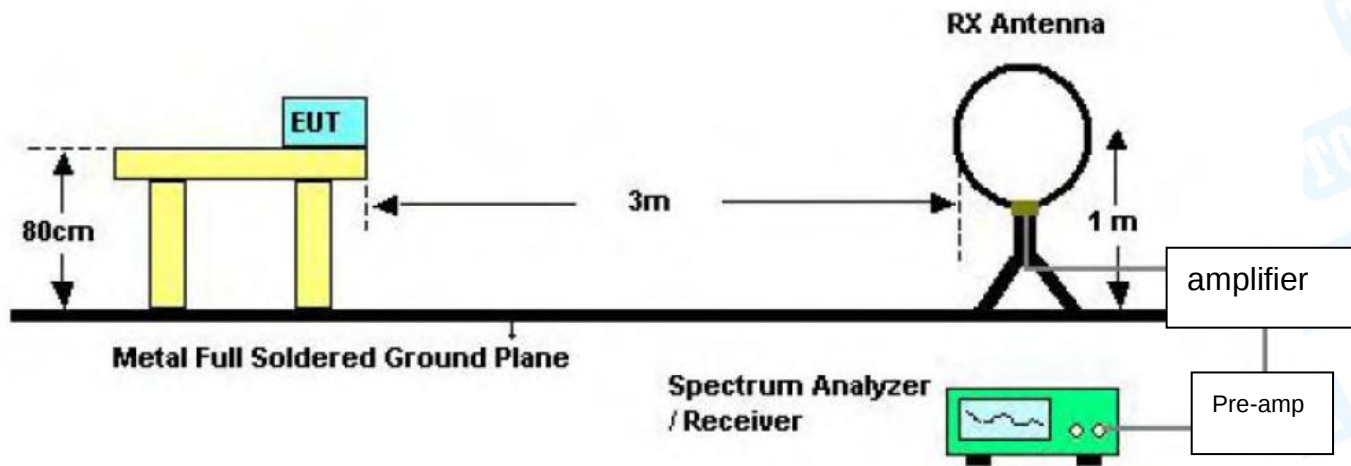
**Note:**

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m)

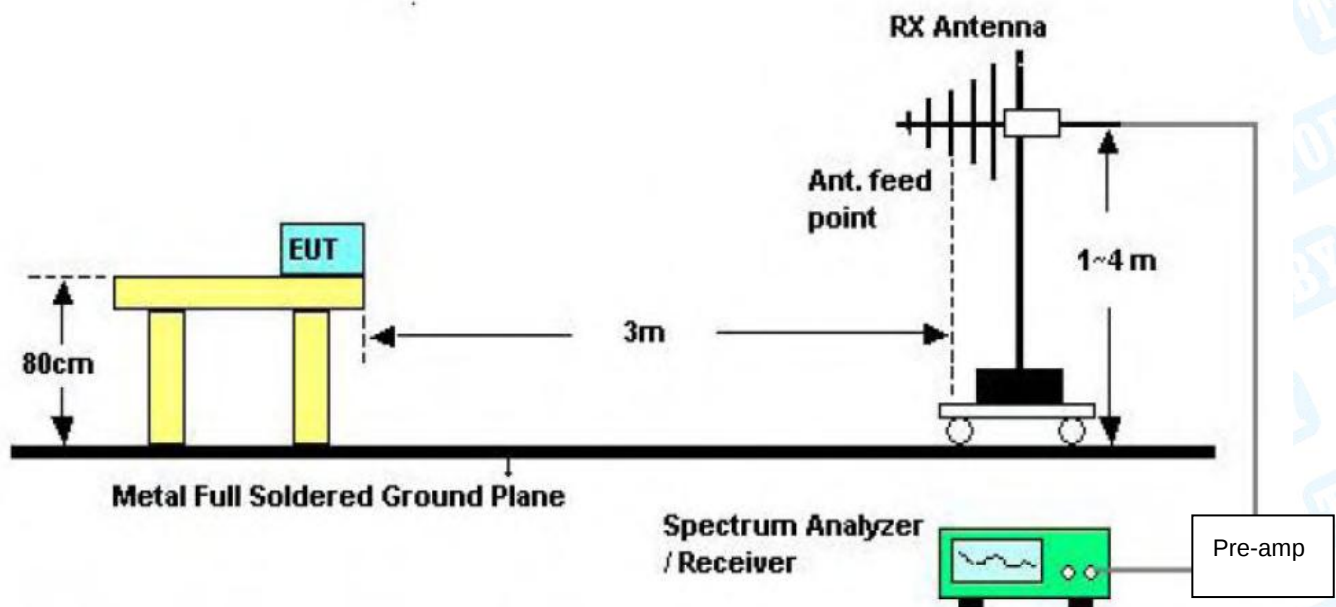
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB.

## 6.2 Test Setup

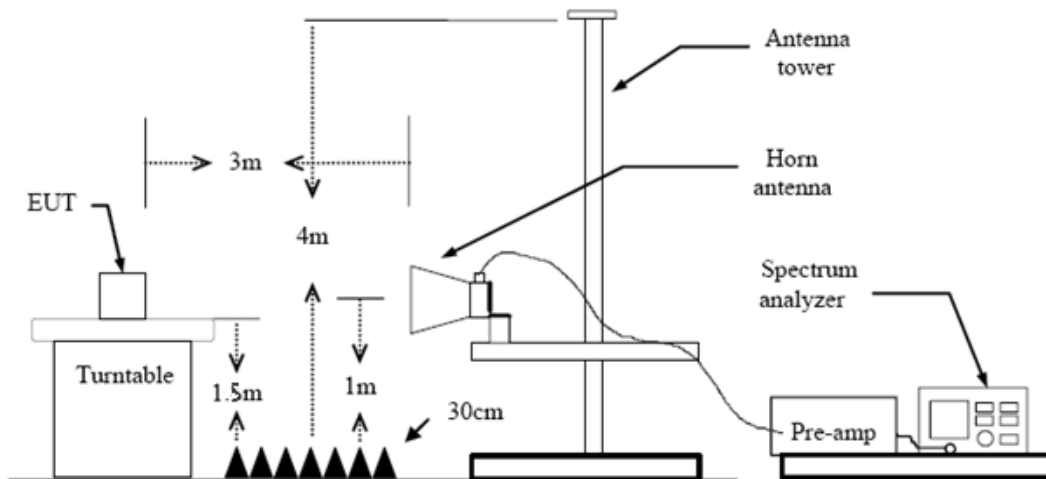
### Radiated measurement



### Below 30MHz Test Setup

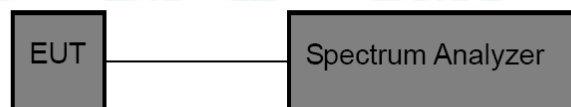


### Below 1000MHz Test Setup



Above 1GHz Test Setup

## Conducted measurement



## 6.3 Test Procedure

### Radiated measurement

- (1) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency Below 1GHz. The EUT was placed on a rotating 0.8m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode

Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.

- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

### **Conducted measurement**

Testing shall be done on a laboratory bench in a shielded room or in another suitable location. The active antenna port of the unlicensed wireless device shall be connected to the spectrum analyzer after applying appropriate precautions to protect the instrumentation. If a second antenna port is available, then it shall be tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port. (See also 7.8.8, 11.12.2, and 12.1.2.)

For the actual test configuration, please see the test setup photo.

#### **6.4 Deviation From Test Standard**

No deviation

#### **6.5 EUT Operating Condition**

The Equipment Under Test was set to Continual Transmitting in maximum power in TX mode.

#### **6.6 Test Data**

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Please refer to the Attachment B.

## 7. Restricted Bands Requirement

### 7.1 Test Standard and Limit

#### 7.1.1 Test Standard

FCC Part 15.209

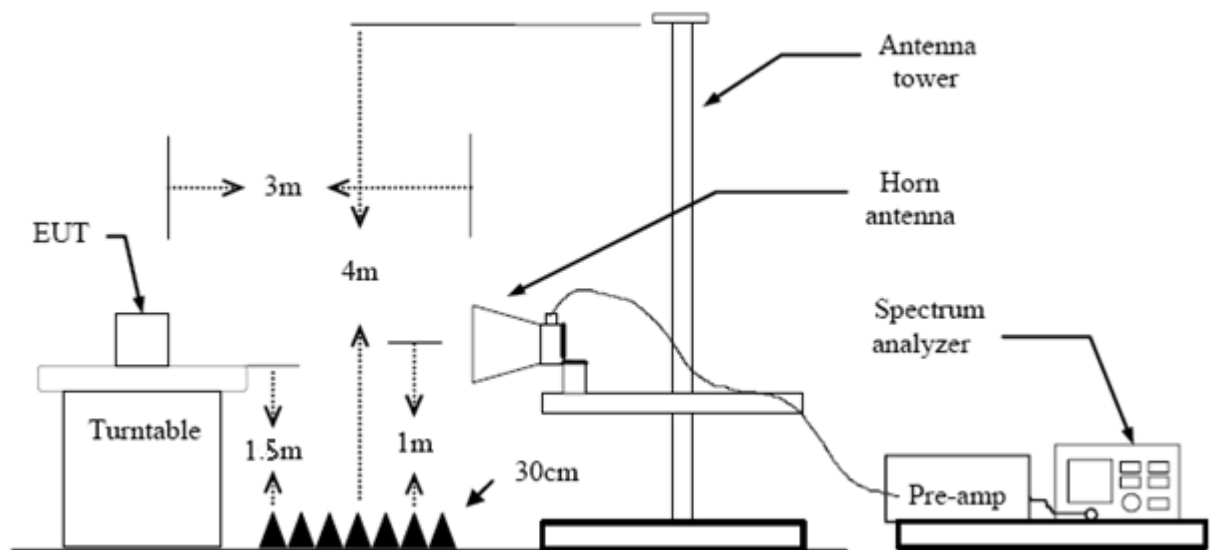
FCC Part 15.205

#### 7.1.2 Test Limit

| Restricted Frequency Band (MHz) | Distance of 3m (dBuV/m) |         |
|---------------------------------|-------------------------|---------|
|                                 | Peak                    | Average |
| 2310 ~2390                      | 74                      | 54      |
| 2483.5 ~2500                    | 74                      | 54      |

**Note: All restriction bands have been tested, only the worst case is reported.**

### 7.2 Test Setup



### 7.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with AVG Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

#### 7.4 Deviation From Test Standard

No deviation

#### 7.5 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

#### 7.6 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

All restriction bands have been tested, only the worst case is reported.

Please refer to the Attachment C.

## 8. Number of Hopping Channel

### 8.1 Test Standard and Limit

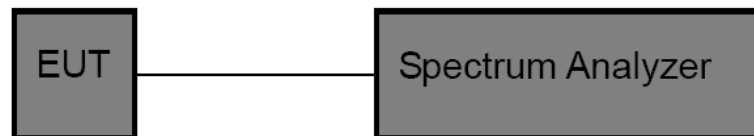
#### 8.1.1 Test Standard

FCC Part 15.247 (a)(1)

#### 8.1.2 Test Limit

| Section | Test Item                 | Limit |
|---------|---------------------------|-------|
| 15.247  | Number of Hopping Channel | >15   |

### 8.2 Test Setup



### 8.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=100 KHz, VBW=100 KHz, Sweep time= Auto.

### 8.4 Deviation From Test Standard

No deviation

### 8.5 EUT Operating Condition

The EUT was set to the Hopping Mode by the Customer.

### 8.6 Test Data

Please refer to the Attachment D.

## 9. Average Time of Occupancy

### 9.1 Test Standard and Limit

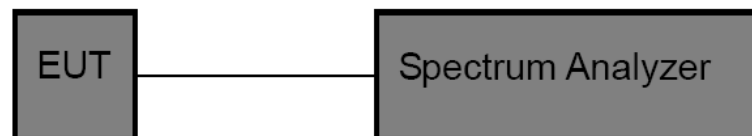
#### 9.1.1 Test Standard

FCC Part 15.247 (a)(1)

#### 9.1.2 Test Limit

| Section      | Test Item                 | Limit   |
|--------------|---------------------------|---------|
| 15.247(a)(1) | Average Time of Occupancy | 0.4 sec |

### 9.2 Test Setup



### 9.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=1MHz, VBW=1MHz.
- (3) Use video trigger with the trigger level set to enable triggering only on full pulses.
- (4) Sweep Time is more than once pulse time.
- (5) Set the centre frequency on any frequency would be measure and set the frequency span to zero.
- (6) Measure the maximum time duration of one single pulse.
- (7) Set the EUT for packet transmitting.
- (8) Measure the maximum time duration of one single pulse.

### 9.4 EUT Operating Condition

The average time of occupancy on any channel within the Period can be calculated with formulas:

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (1600 / X) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$

$$\{\text{Period}\} = 0.4s * \{\text{Number of Hopping Frequency}\}$$

Note: X=2 or 4 or 6 (1DH1=2, 1DH3=4, 1DH5=6. 2DH1=2, 2DH3=4, 2DH5=6. 3DH1=2, 3DH3=4, 3DH5=6)

The lowest, middle and highest channels are selected to perform testing to record the dwell time of each occupation measured in this channel, which is called Pulse Time here.

#### 9.4 Deviation From Test Standard

No deviation

#### 9.5 EUT Operating Condition

The EUT was set to the Hopping Mode by the Customer.

#### 9.6 Test Data

Please refer to the Attachment E.

## 10. Channel Separation and Bandwidth Test

### 10.1 Test Standard and Limit

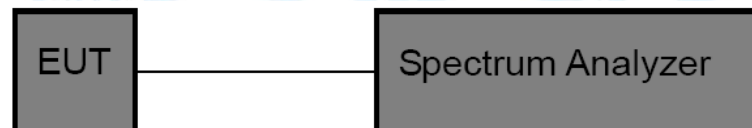
#### 10.1.1 Test Standard

FCC Part 15.247

#### 10.1.2 Test Limit

| Test Item          | Limit                                                                     | Frequency Range(MHz) |
|--------------------|---------------------------------------------------------------------------|----------------------|
| Bandwidth          | $\leq 1$ MHz<br>(20dB bandwidth)                                          | 2400~2483.5          |
| Channel Separation | $>25$ KHz or $>$ two-thirds of<br>the 20 dB bandwidth<br>Which is greater | 2400~2483.5          |

### 10.2 Test Setup



### 10.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:  
Channel Separation: RBW=100 kHz, VBW=100 kHz.  
Bandwidth: RBW=30 kHz, VBW=100 kHz.
- (3) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (4) Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:30 kHz, and Video Bandwidth:100 kHz. Sweep Time set auto.

#### 10.4 Deviation From Test Standard

No deviation

#### 10.5 EUT Operating Condition

The EUT was set to the Hopping Mode for Channel Separation Test and continuously transmitting for the Bandwidth Test.

#### 10.6 Test Data

Please refer to the Attachment F.

## 11. Peak Output Power Test

### 11.1 Test Standard and Limit

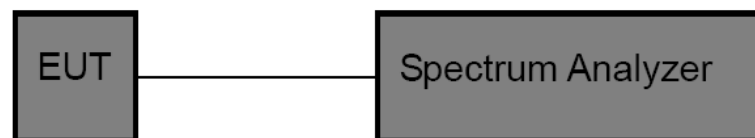
#### 11.1.1 Test Standard

FCC Part 15.247 (b) (1)

#### 11.1.2 Test Limit

| Test Item         | Limit                                                          | Frequency Range(MHz) |
|-------------------|----------------------------------------------------------------|----------------------|
| Peak Output Power | Hopping Channels>75<br>Power<1W(30dBm)<br>Other <125 mW(21dBm) | 2400~2483.5          |

### 11.2 Test Setup



### 11.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:  
Peak Detector: RBW=1 MHz, VBW=3 MHz for bandwidth less than 1MHz.  
RBW=3 MHz, VBW $\geq$  RBW for bandwidth more than 1MHz.

### 11.4 Deviation From Test Standard

No deviation

### 11.5 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

### 11.6 Test Data

Please refer to the Attachment G.

## 12. Antenna Requirement

### 12.1 Standard Requirement

#### 12.1.1 Standard

FCC Part 15.203

#### 12.1.2 Requirement

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 shall be considered sufficient to comply with the provisions of this Section. 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.

### 12.2 Deviation From Test Standard

No deviation

### 12.3 Antenna Connected Construction

The gains of the antenna used for transmitting is 0.8dBi, and the antenna connector is de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

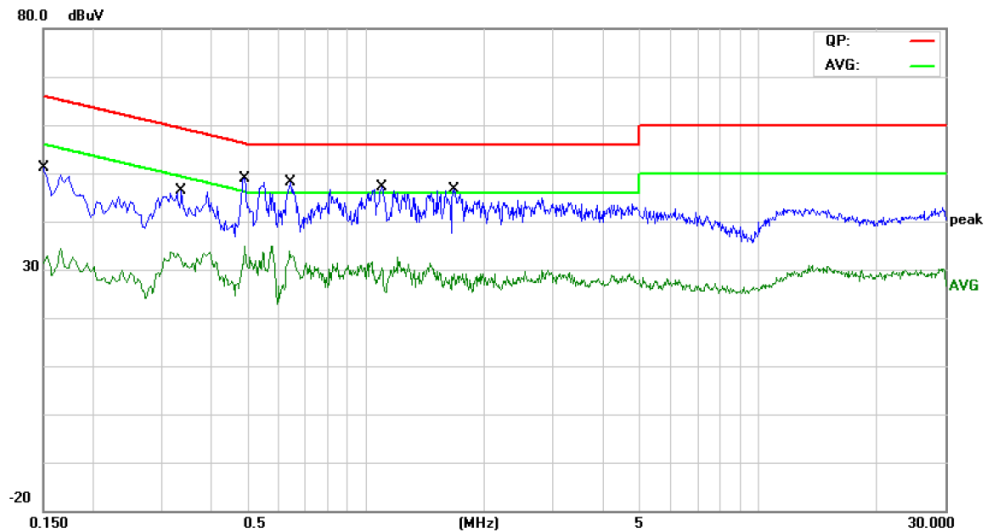
### 12.4 Result

The EUT antenna is a PIFA Antenna. It complies with the standard requirement.

| Antenna Type                                                 |
|--------------------------------------------------------------|
| <input type="checkbox"/> Permanent attached antenna          |
| <input checked="" type="checkbox"/> Unique connector antenna |
| <input type="checkbox"/> Professional installation antenna   |

## Attachment A-- Conducted Emission Test Data

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.5°C                      | Relative Humidity: | 48% |
| Test Voltage: | AC 120V/60 Hz               |                    |     |
| Terminal:     | Line                        |                    |     |
| Test Mode:    | Mode 1                      |                    |     |
| Remark:       | Only worse case is reported |                    |     |

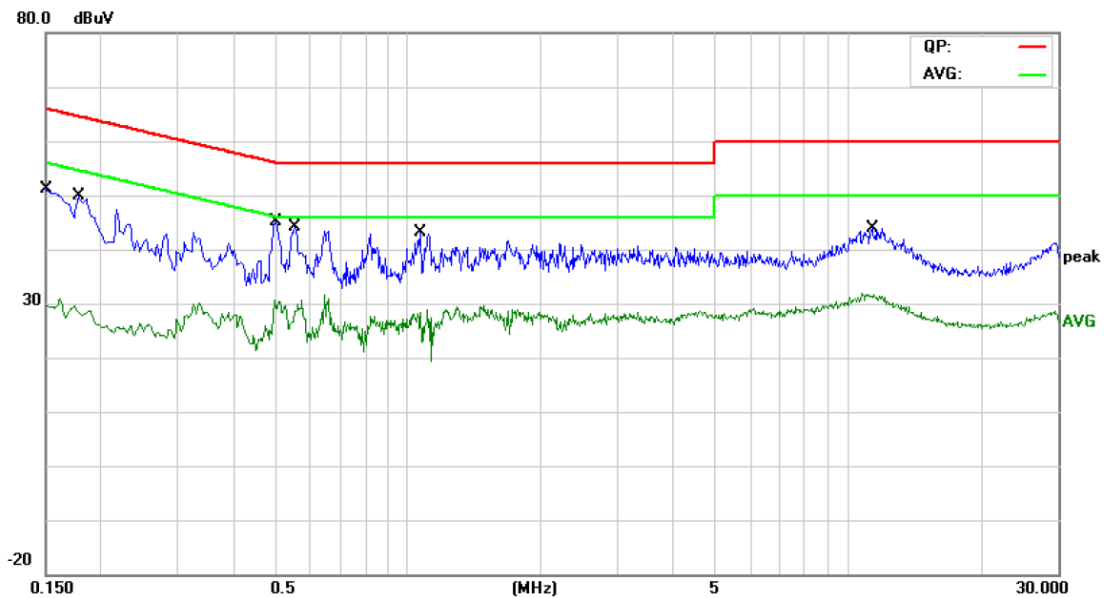


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBμV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBμV | Limit<br>dBμV | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1   |     | 0.1500       | 33.95                    | 9.70                    | 43.65                    | 65.99         | -22.34     | QP       |
| 2   |     | 0.1500       | 21.72                    | 9.70                    | 31.42                    | 55.99         | -24.57     | AVG      |
| 3   |     | 0.3379       | 31.74                    | 9.70                    | 41.44                    | 59.25         | -17.81     | QP       |
| 4   |     | 0.3379       | 23.50                    | 9.70                    | 33.20                    | 49.25         | -16.05     | AVG      |
| 5   |     | 0.4900       | 32.81                    | 9.70                    | 42.51                    | 56.17         | -13.66     | QP       |
| 6   |     | 0.4900       | 19.40                    | 9.70                    | 29.10                    | 46.17         | -17.07     | AVG      |
| 7   | *   | 0.6419       | 34.51                    | 9.70                    | 44.21                    | 56.00         | -11.79     | QP       |
| 8   |     | 0.6419       | 22.91                    | 9.70                    | 32.61                    | 46.00         | -13.39     | AVG      |
| 9   |     | 1.0980       | 33.86                    | 9.79                    | 43.65                    | 56.00         | -12.35     | QP       |
| 10  |     | 1.0980       | 17.56                    | 9.79                    | 27.35                    | 46.00         | -18.65     | AVG      |
| 11  |     | 1.6740       | 32.98                    | 9.73                    | 42.71                    | 56.00         | -13.29     | QP       |
| 12  |     | 1.6740       | 17.44                    | 9.73                    | 27.17                    | 46.00         | -18.83     | AVG      |

## Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.5°C                      | Relative Humidity: | 48% |
| Test Voltage: | AC 120V/60 Hz               |                    |     |
| Terminal:     | Neutral                     |                    |     |
| Test Mode:    | Mode 1                      |                    |     |
| Remark:       | Only worse case is reported |                    |     |



| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector |
| 1   |     | 0.1500  | 34.38         | 9.80           | 44.18       | 65.99 | -21.81 | QP       |
| 2   |     | 0.1500  | 19.27         | 9.80           | 29.07       | 55.99 | -26.92 | AVG      |
| 3   |     | 0.1780  | 32.93         | 9.80           | 42.73       | 64.57 | -21.84 | QP       |
| 4   |     | 0.1780  | 17.63         | 9.80           | 27.43       | 54.57 | -27.14 | AVG      |
| 5   | *   | 0.5020  | 32.93         | 9.80           | 42.73       | 56.00 | -13.27 | QP       |
| 6   |     | 0.5020  | 19.27         | 9.80           | 29.07       | 46.00 | -16.93 | AVG      |
| 7   |     | 0.5580  | 27.60         | 9.80           | 37.40       | 56.00 | -18.60 | QP       |
| 8   |     | 0.5580  | 17.99         | 9.80           | 27.79       | 46.00 | -18.21 | AVG      |
| 9   |     | 1.0660  | 27.72         | 9.80           | 37.52       | 56.00 | -18.48 | QP       |
| 10  |     | 1.0660  | 16.34         | 9.80           | 26.14       | 46.00 | -19.86 | AVG      |
| 11  |     | 11.3420 | 27.57         | 9.93           | 37.50       | 60.00 | -22.50 | QP       |
| 12  |     | 11.3420 | 20.13         | 9.93           | 30.06       | 50.00 | -19.94 | AVG      |

## Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

## Attachment B--Unwanted Emissions Data

### ---Radiated Unwanted Emissions

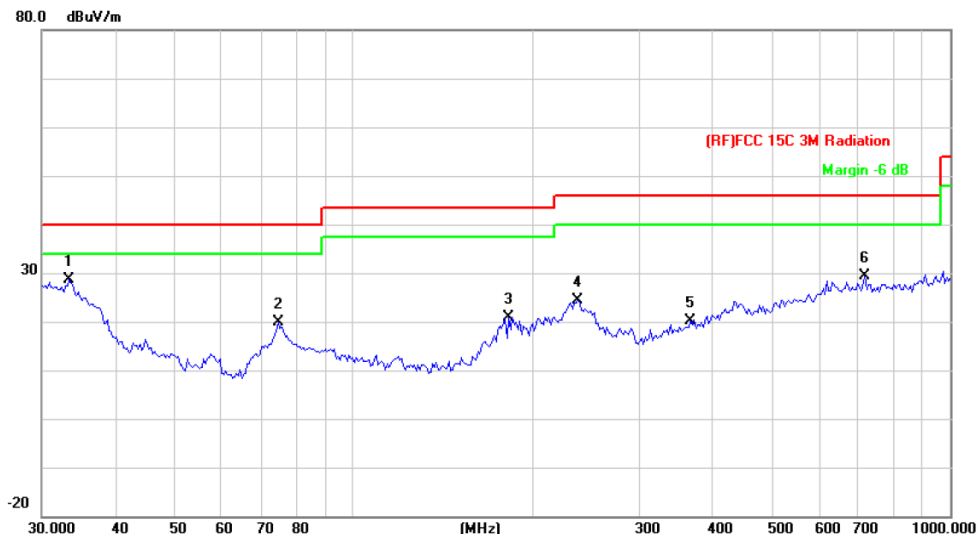
#### 9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

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

#### 30MHz~1GHz

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6℃                       | Relative Humidity: | 45% |
| Test Voltage: | AC 120V/60 Hz               |                    |     |
| Ant. Pol.     | Horizontal                  |                    |     |
| Test Mode:    | Mode 2                      |                    |     |
| Remark:       | Only worse case is reported |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------|------------|----------|
| 1   | *   | 33.3278      | 44.00                    | -15.42                    | 28.58                      | 40.00           | -11.42     | peak     |
| 2   |     | 74.6568      | 42.95                    | -22.96                    | 19.99                      | 40.00           | -20.01     | peak     |
| 3   |     | 181.9199     | 40.91                    | -20.06                    | 20.85                      | 43.50           | -22.65     | peak     |
| 4   |     | 237.4757     | 42.31                    | -17.91                    | 24.40                      | 46.00           | -21.60     | peak     |
| 5   |     | 366.8231     | 34.02                    | -13.85                    | 20.17                      | 46.00           | -25.83     | peak     |
| 6   |     | 719.1992     | 36.04                    | -6.69                     | 29.35                      | 46.00           | -16.65     | peak     |

\*:Maximum data    x:Over limit    !:over margin

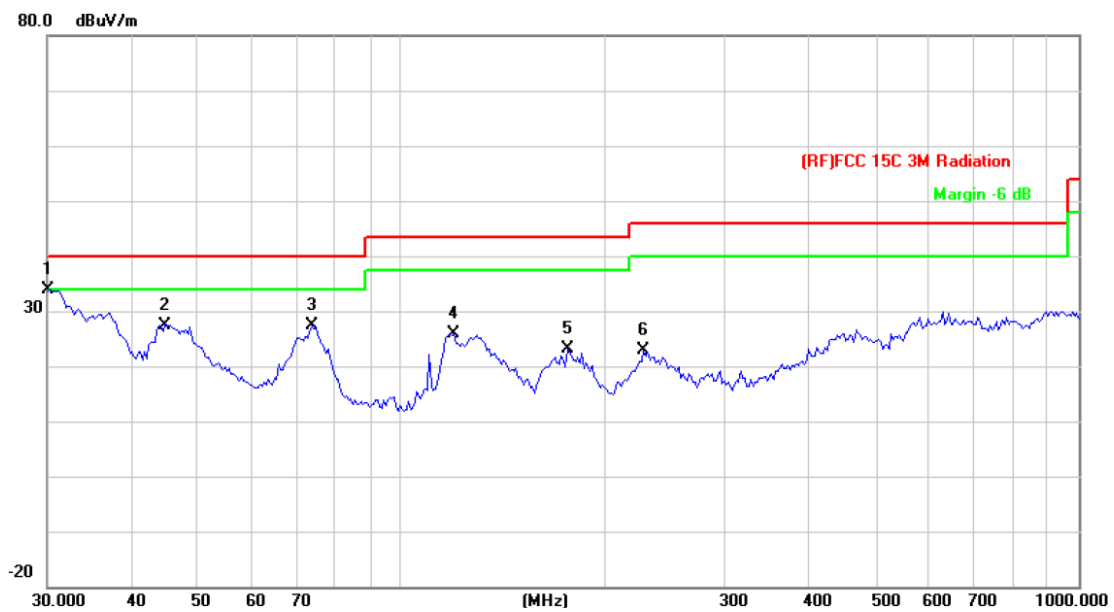
#### Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6℃                       | Relative Humidity: | 45% |
| Test Voltage: | AC 120V/60 Hz               |                    |     |
| Ant. Pol.     | Vertical                    |                    |     |
| Test Mode:    | Mode 2                      |                    |     |
| Remark:       | Only worse case is reported |                    |     |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   | *   | 30.2109  | 46.96         | -13.11         | 33.85       | 40.00  | -6.15  | peak     |
| 2   |     | 44.7433  | 48.80         | -21.30         | 27.50       | 40.00  | -12.50 | peak     |
| 3   |     | 73.6170  | 50.38         | -23.05         | 27.33       | 40.00  | -12.67 | peak     |
| 4   |     | 119.4360 | 47.97         | -22.17         | 25.80       | 43.50  | -17.70 | peak     |
| 5   |     | 175.6516 | 43.30         | -20.28         | 23.02       | 43.50  | -20.48 | peak     |
| 6   |     | 227.6904 | 41.24         | -18.44         | 22.80       | 46.00  | -23.20 | peak     |

\*:Maximum data x:Over limit !:over margin

**Remark:**

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

**Above 1GHz(Only worse case is reported)**

|               |                      |                    |     |
|---------------|----------------------|--------------------|-----|
| Temperature:  | 23.6℃                | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V              |                    |     |
| Ant. Pol.     | Horizontal           |                    |     |
| Test Mode:    | TX GFSK Mode 2402MHz |                    |     |

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4804.212 | 47.59         | 13.02          | 60.61       | 74.00  | -13.39 | peak     |
| 2   | *   | 4804.412 | 33.76         | 13.02          | 46.78       | 54.00  | -7.22  | AVG      |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

|               |                      |                    |     |
|---------------|----------------------|--------------------|-----|
| Temperature:  | 23.6℃                | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V              |                    |     |
| Ant. Pol.     | Vertical             |                    |     |
| Test Mode:    | TX GFSK Mode 2402MHz |                    |     |

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   | *   | 4803.804 | 34.29         | 13.01          | 47.30       | 54.00  | -6.70  | AVG      |
| 2   |     | 4804.372 | 48.08         | 13.02          | 61.10       | 74.00  | -12.90 | peak     |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

|               |                      |                    |     |
|---------------|----------------------|--------------------|-----|
| Temperature:  | 23.6°C               | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V              |                    |     |
| Ant. Pol.     | Horizontal           |                    |     |
| Test Mode:    | TX GFSK Mode 2441MHz |                    |     |
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|---------------|----------------------|--------------------|-----|
| Temperature:  | 23.6°C               | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V              |                    |     |
| Ant. Pol.     | Vertical             |                    |     |
| Test Mode:    | TX GFSK Mode 2441MHz |                    |     |

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over        |
|-----|-----|----------|---------------|----------------|-------------|--------|-------------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB Detector |
| 1   | *   | 4881.982 | 34.68         | 13.59          | 48.27       | 54.00  | -5.73 AVG   |
| 2   |     | 4882.066 | 48.40         | 13.59          | 61.99       | 74.00  | -12.01 peak |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

|               |                      |                    |     |
|---------------|----------------------|--------------------|-----|
| Temperature:  | 23.6°C               | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V              |                    |     |
| Ant. Pol.     | Horizontal           |                    |     |
| Test Mode:    | TX GFSK Mode 2480MHz |                    |     |

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over        |
|-----|-----|----------|---------------|----------------|--------------|--------|-------------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB Detector |
| 1   |     | 4959.810 | 48.47         | 14.15          | 62.62        | 74.00  | -11.38 peak |
| 2   | *   | 4960.058 | 34.63         | 14.15          | 48.78        | 54.00  | -5.22 AVG   |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

|               |                      |                    |     |
|---------------|----------------------|--------------------|-----|
| Temperature:  | 23.6°C               | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V              |                    |     |
| Ant. Pol.     | Vertical             |                    |     |
| Test Mode:    | TX GFSK Mode 2480MHz |                    |     |

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   | *   | 4960.220 | 34.59         | 14.15          | 48.74       | 54.00  | -5.26  | AVG      |
| 2   |     | 4960.350 | 48.51         | 14.16          | 62.67       | 74.00  | -11.33 | peak     |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

|               |                           |                    |     |
|---------------|---------------------------|--------------------|-----|
| Temperature:  | 23.6℃                     | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                   |                    |     |
| Ant. Pol.     | Horizontal                |                    |     |
| Test Mode:    | TXπ /4-DQPSK Mode 2402MHz |                    |     |
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|---------------|---------------------------|--------------------|-----|
| Temperature:  | 23.6℃                     | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                   |                    |     |
| Ant. Pol.     | Vertical                  |                    |     |
| Test Mode:    | TXπ /4-DQPSK Mode 2402MHz |                    |     |

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over        |
|-----|-----|----------|---------------|----------------|--------------|--------|-------------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB Detector |
| 1   |     | 4803.724 | 47.59         | 13.01          | 60.60        | 74.00  | -13.40 peak |
| 2   | *   | 4804.002 | 34.35         | 13.01          | 47.36        | 54.00  | -6.64 AVG   |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

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|---------------|---------------------------|--------------------|-----|
| Temperature:  | 23.6℃                     | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                   |                    |     |
| Ant. Pol.     | Horizontal                |                    |     |
| Test Mode:    | TXπ /4-DQPSK Mode 2441MHz |                    |     |
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|---------------|---------------------------|--------------------|-----|
| Temperature:  | 23.6℃                     | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                   |                    |     |
| Ant. Pol.     | Vertical                  |                    |     |
| Test Mode:    | TXπ /4-DQPSK Mode 2441MHz |                    |     |
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| Test Voltage: | DC 7.6V                   |                    |     |
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|---------------|---------------------------|--------------------|-----|
| Temperature:  | 23.6℃                     | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                   |                    |     |
| Ant. Pol.     | Vertical                  |                    |     |
| Test Mode:    | TXπ /4-DQPSK Mode 2480MHz |                    |     |
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|---------------|------------------------|--------------------|-----|
| Temperature:  | 23.6℃                  | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                |                    |     |
| Ant. Pol.     | Horizontal             |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2402MHz |                    |     |

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   | *   | 4803.666 | 34.28         | 13.01          | 47.29       | 54.00  | -6.71  | AVG      |
| 2   |     | 4804.084 | 47.09         | 13.02          | 60.11       | 74.00  | -13.89 | peak     |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

|               |                        |                    |     |
|---------------|------------------------|--------------------|-----|
| Temperature:  | 23.6℃                  | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                |                    |     |
| Ant. Pol.     | Vertical               |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2402MHz |                    |     |

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over        |
|-----|-----|----------|---------------|----------------|-------------|--------|-------------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB Detector |
| 1   |     | 4803.896 | 48.45         | 13.01          | 61.46       | 74.00  | -12.54 peak |
| 2   | *   | 4804.372 | 34.24         | 13.02          | 47.26       | 54.00  | -6.74 AVG   |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

|               |                        |                    |     |
|---------------|------------------------|--------------------|-----|
| Temperature:  | 23.6℃                  | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                |                    |     |
| Ant. Pol.     | Horizontal             |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2441MHz |                    |     |
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|---------------|--------------------------|--------------------|-----|
| Temperature:  | 23.6℃                    | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                  |                    |     |
| Ant. Pol.     | Vertical                 |                    |     |
| Test Mode:    | TX 8-DPSK K Mode 2441MHz |                    |     |

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   | *   | 4881.934 | 34.93         | 13.59          | 48.52       | 54.00  | -5.48  | AVG      |
| 2   |     | 4882.248 | 47.76         | 13.59          | 61.35       | 74.00  | -12.65 | peak     |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

|               |                        |                    |     |
|---------------|------------------------|--------------------|-----|
| Temperature:  | 23.6℃                  | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                |                    |     |
| Ant. Pol.     | Horizontal             |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2480MHz |                    |     |

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over        |
|-----|-----|----------|---------------|----------------|-------------|--------|-------------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB Detector |
| 1   |     | 4959.672 | 47.84         | 14.15          | 61.99       | 74.00  | -12.01 peak |
| 2   | *   | 4959.712 | 34.87         | 14.15          | 49.02       | 54.00  | -4.98 AVG   |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

|               |                        |                    |     |
|---------------|------------------------|--------------------|-----|
| Temperature:  | 23.6℃                  | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                |                    |     |
| Ant. Pol.     | Vertical               |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2480MHz |                    |     |

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over        |
|-----|-----|----------|---------------|----------------|-------------|--------|-------------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB Detector |
| 1   |     | 4960.174 | 48.25         | 14.15          | 62.40       | 74.00  | -11.60 peak |
| 2   | *   | 4960.240 | 34.68         | 14.15          | 48.83       | 54.00  | -5.17 AVG   |

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

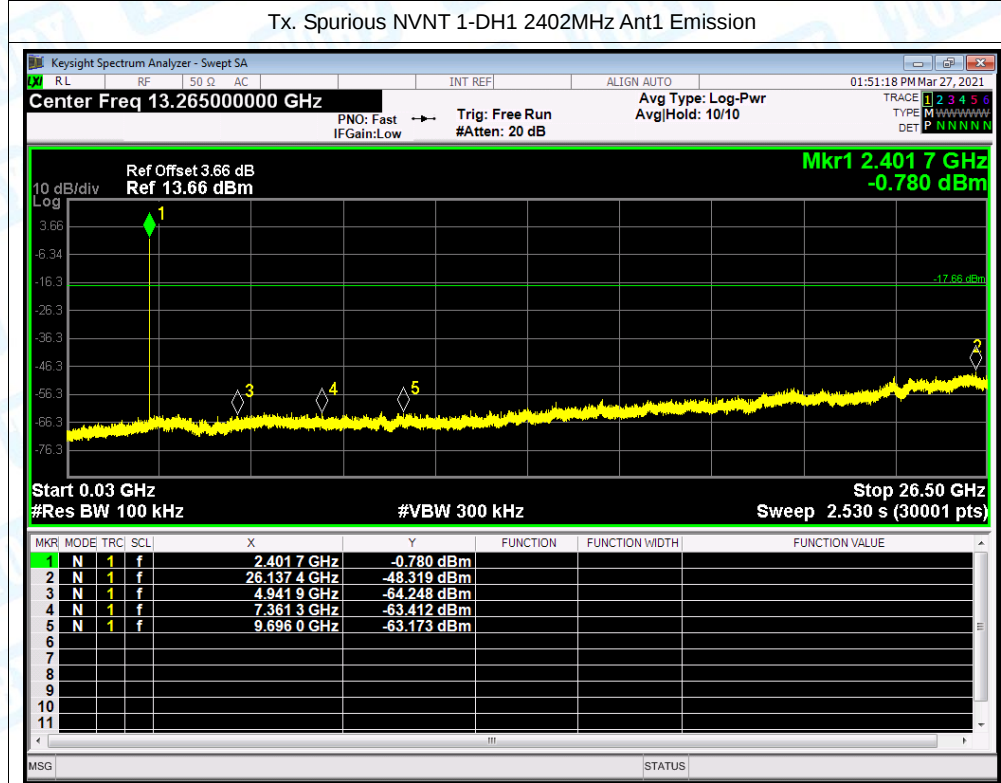
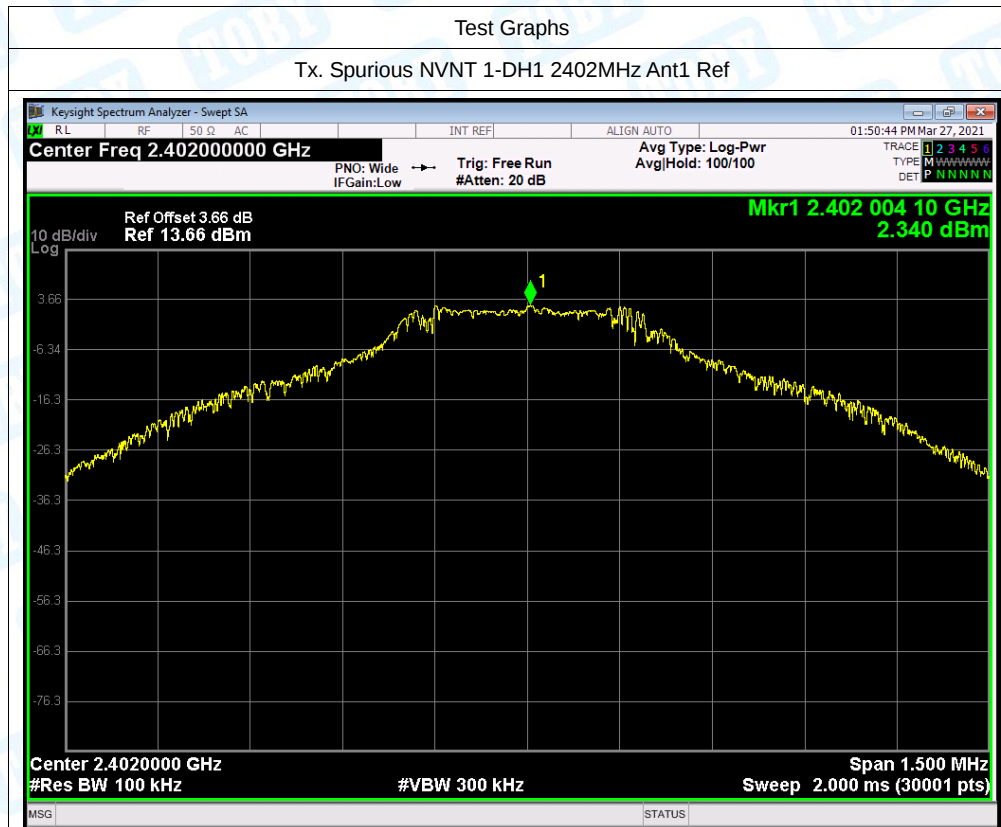
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

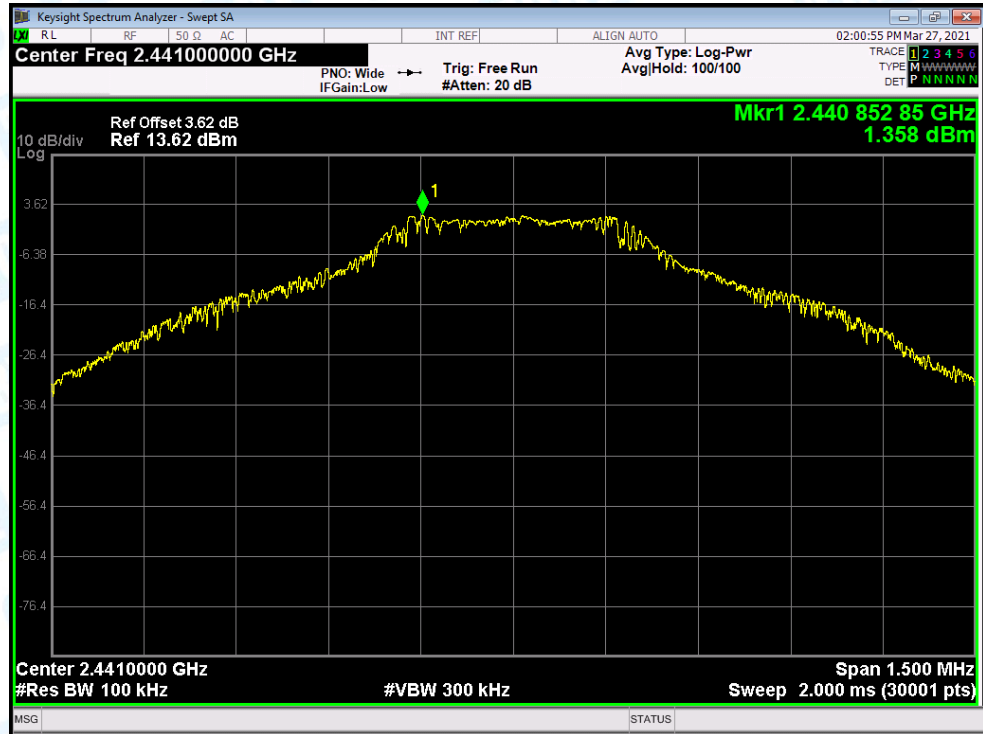
4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

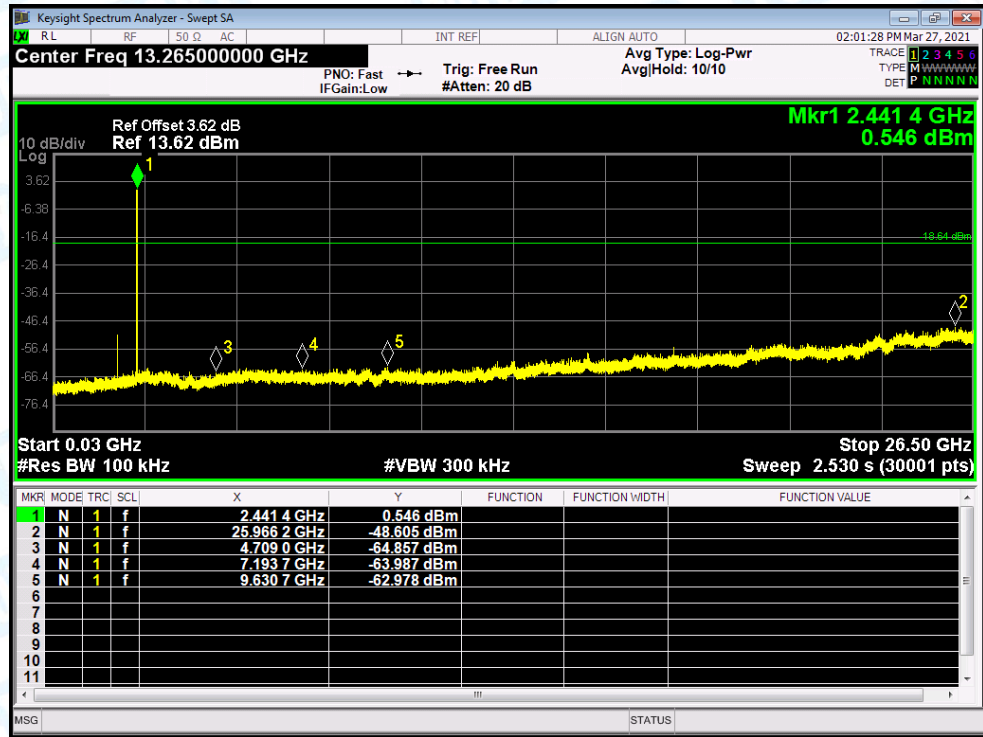
---Conducted Unwanted Emissions



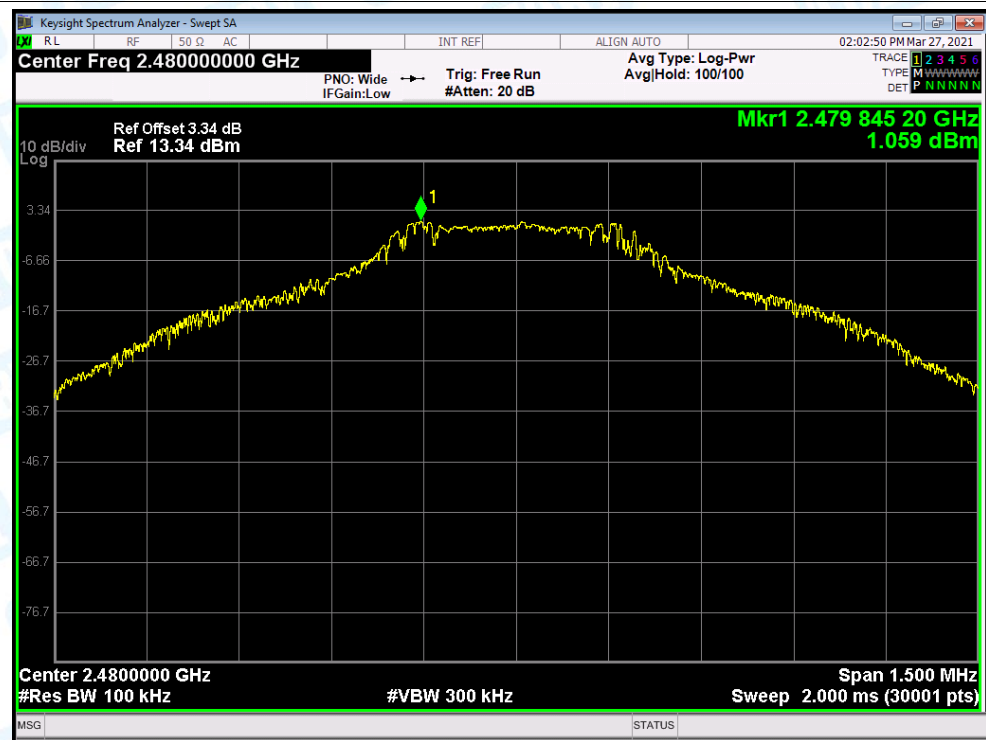
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



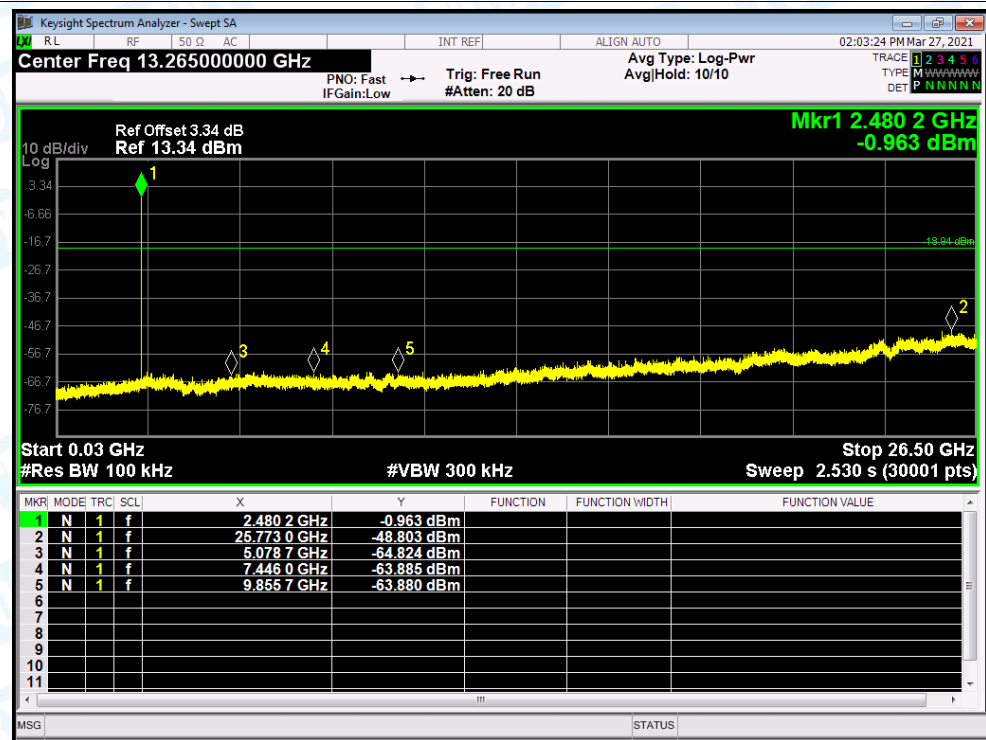
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



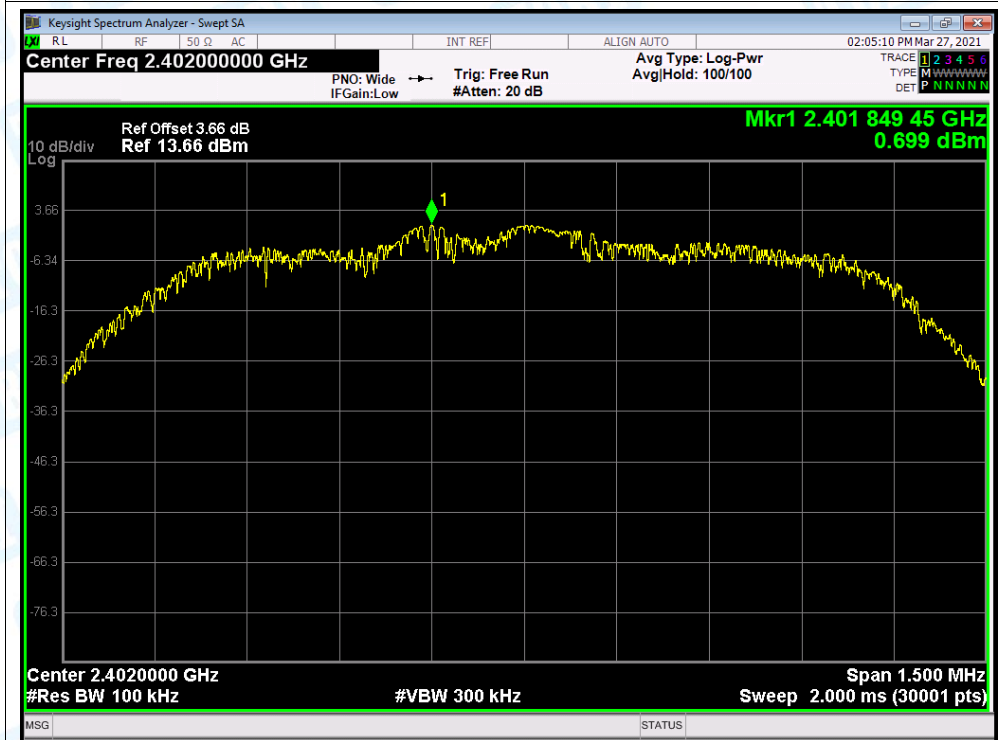
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



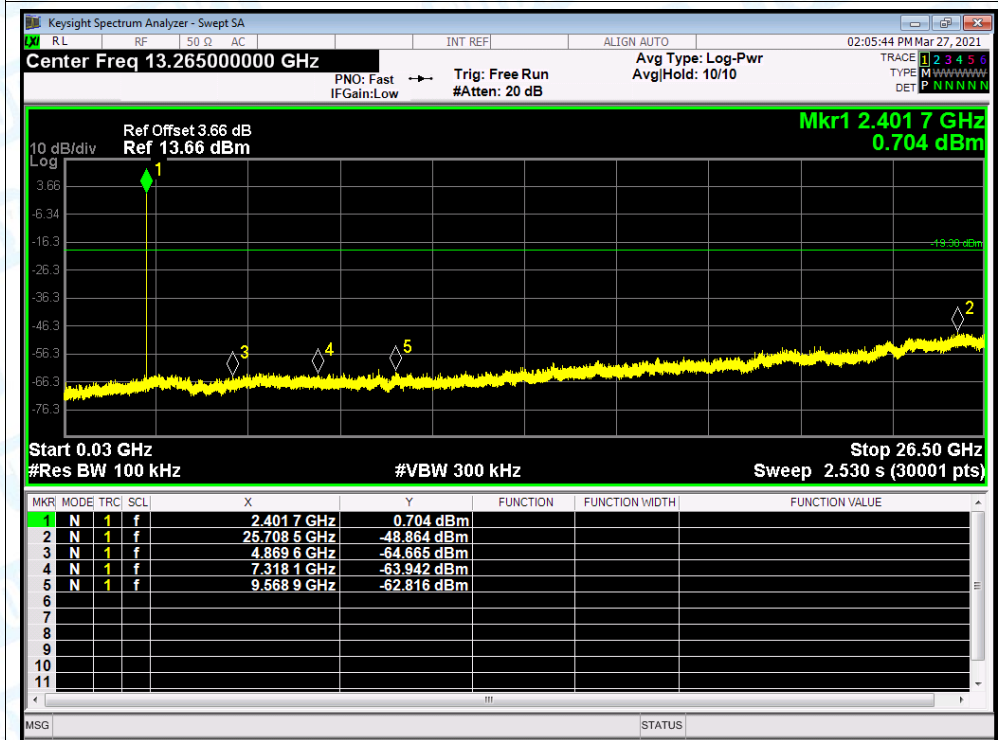
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



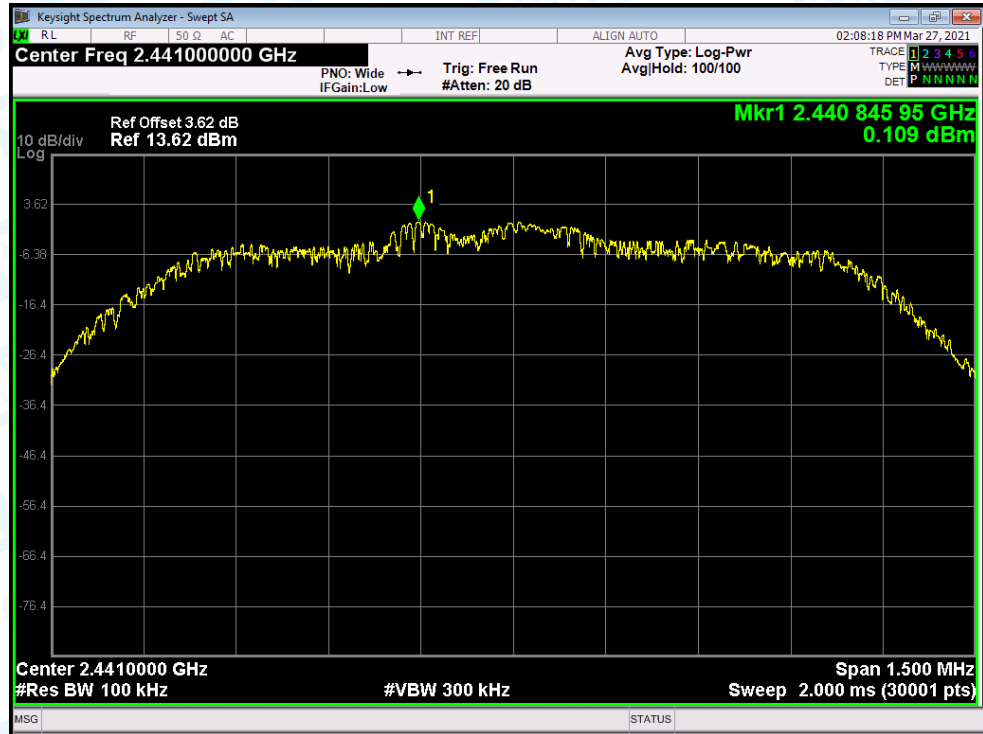
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



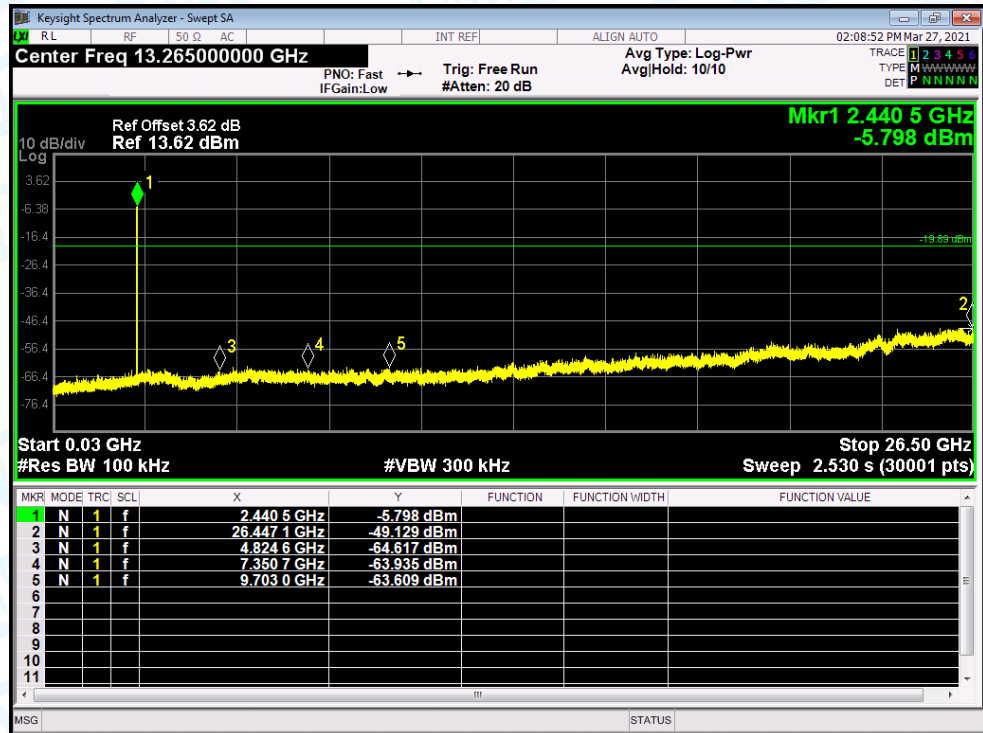
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



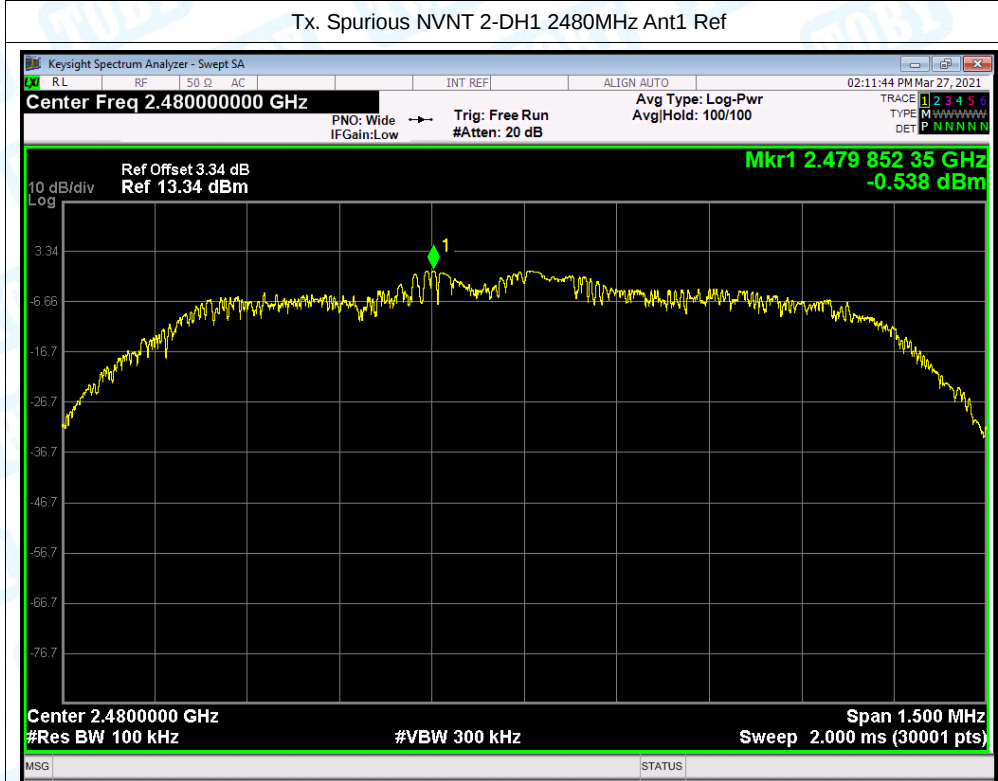
## Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



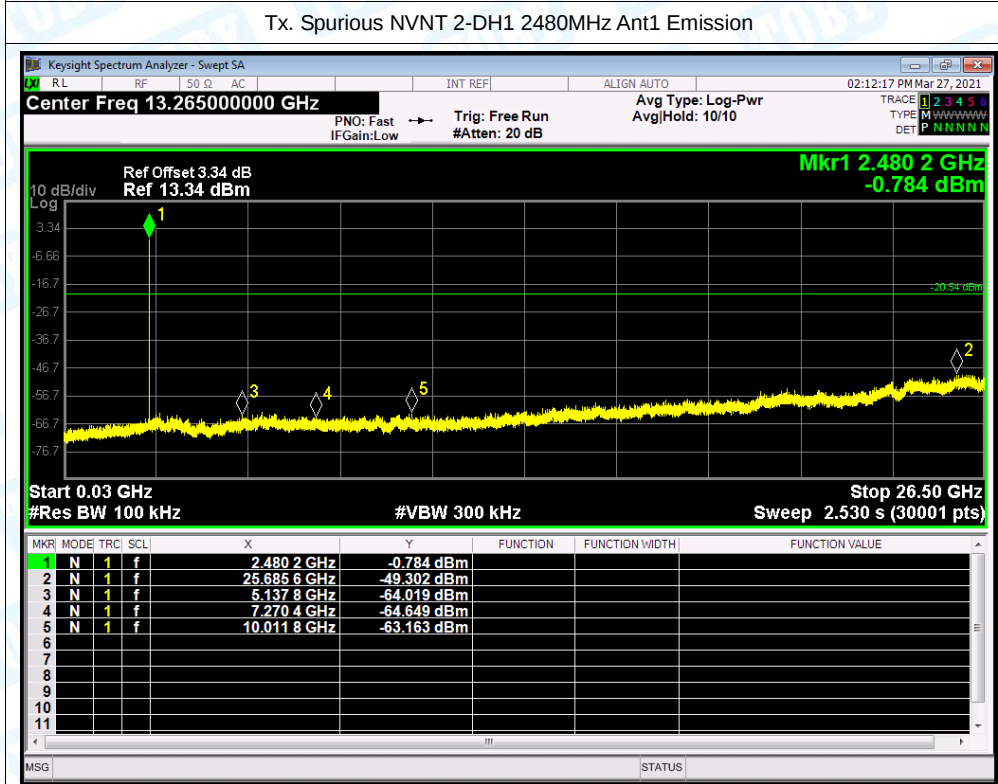
## Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



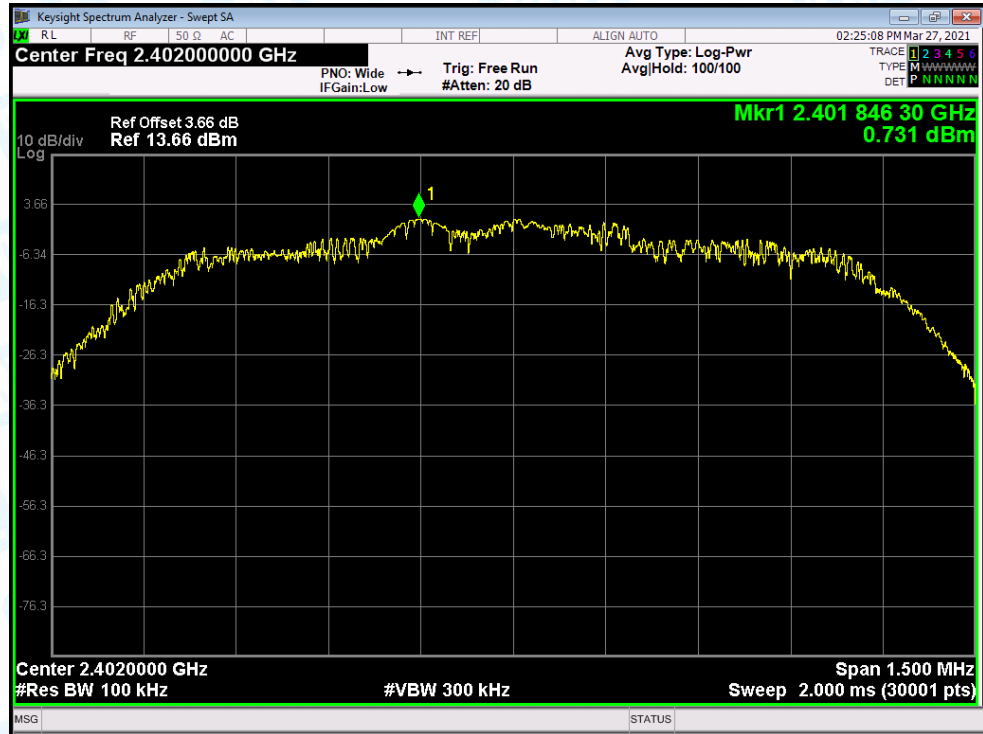
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



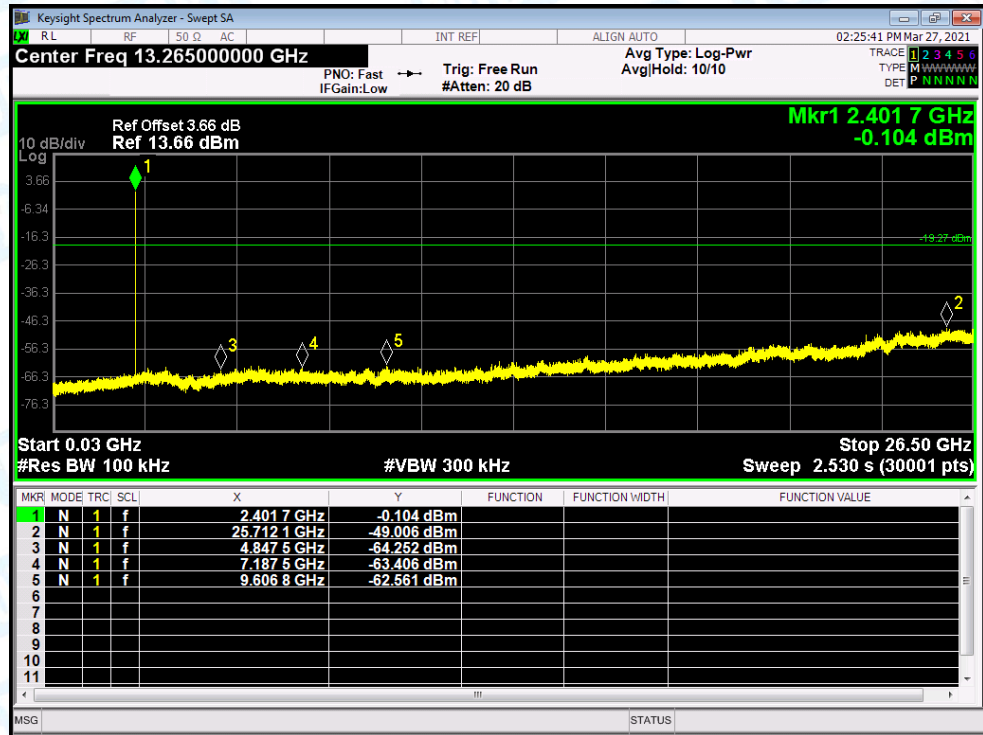
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



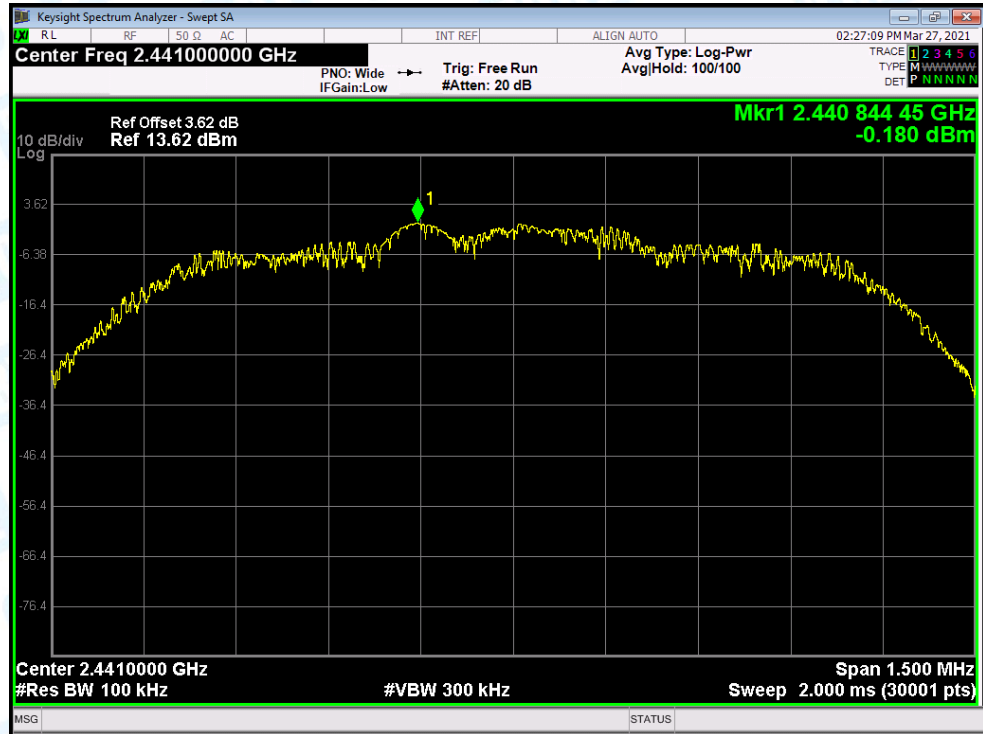
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



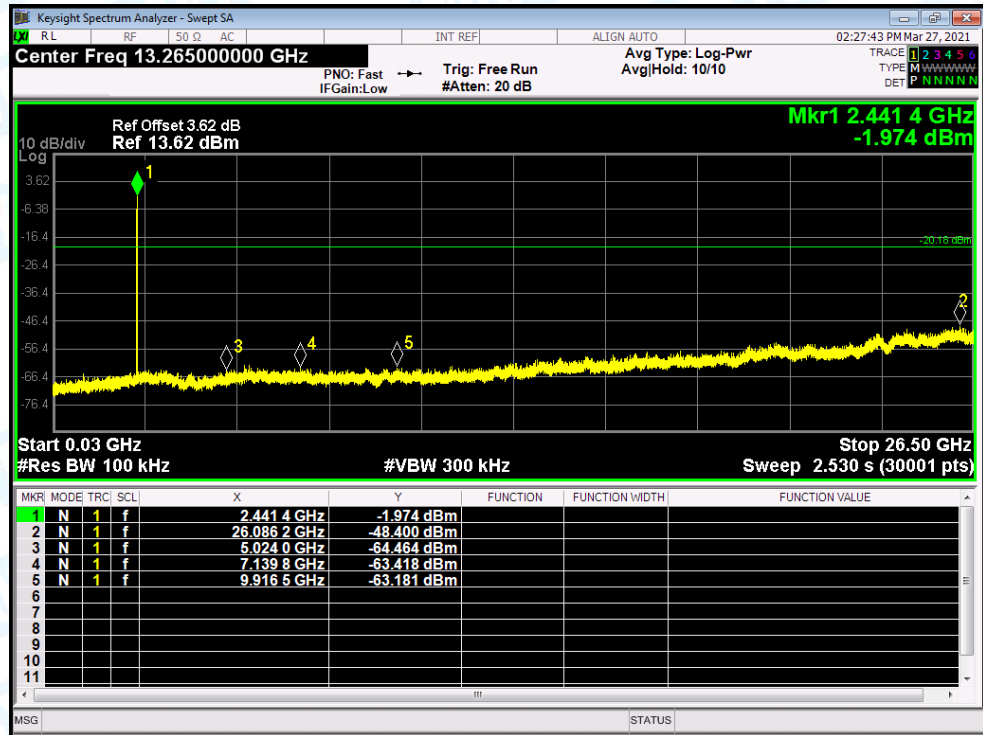
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



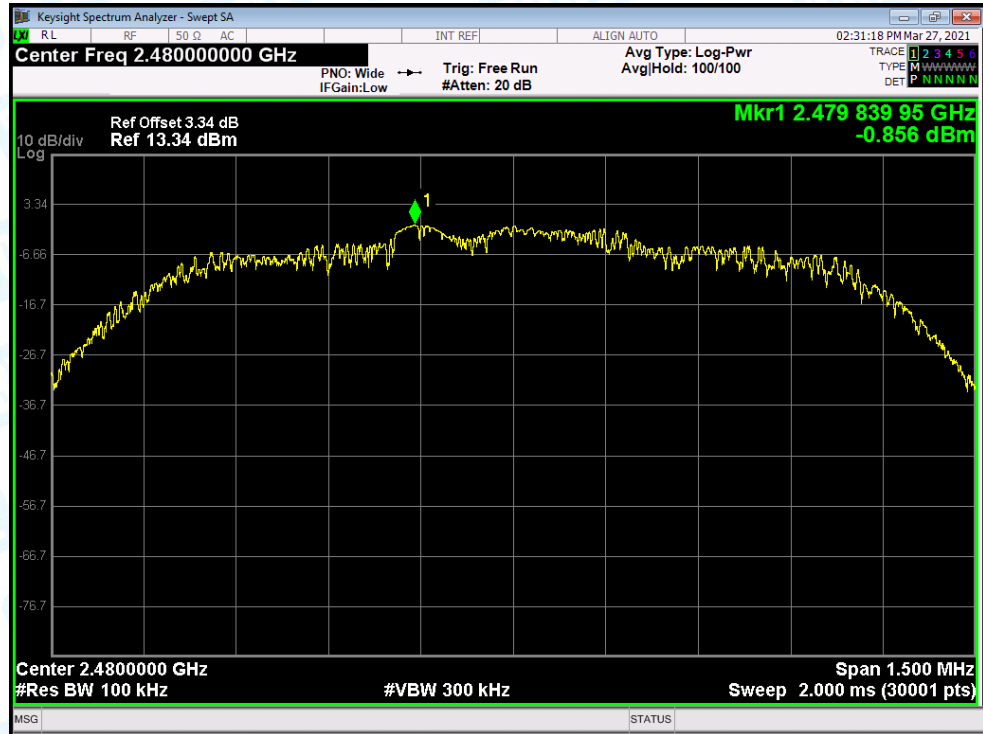
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



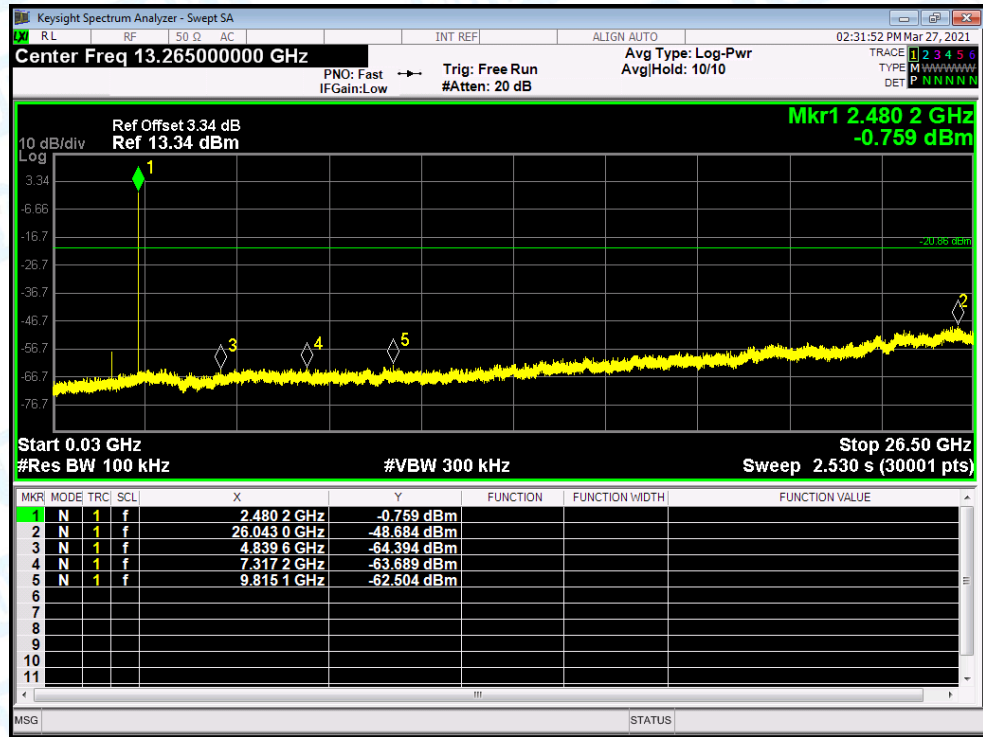
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



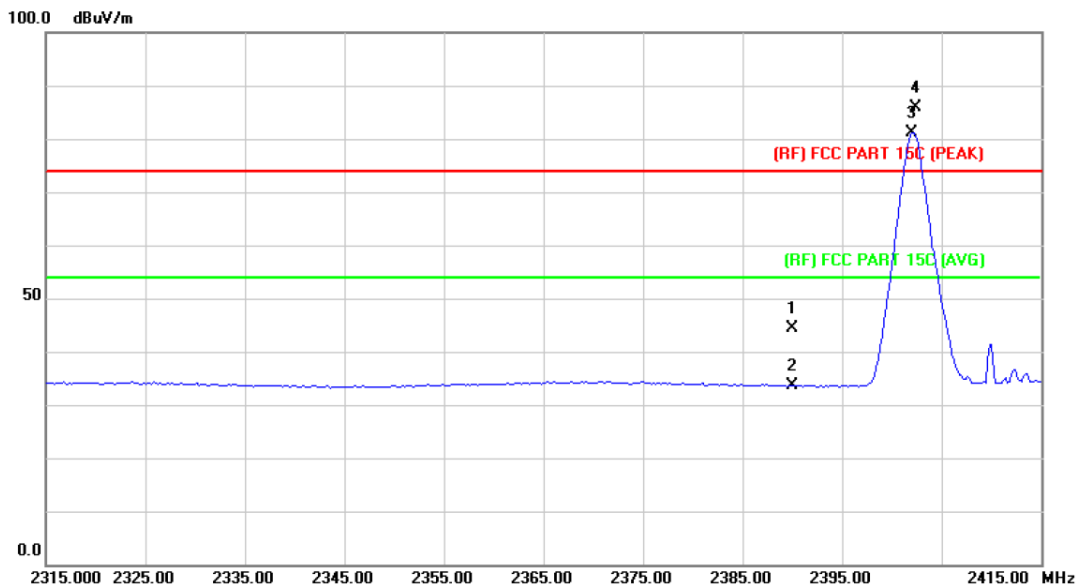
Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission



## Attachment C-- Restricted Bands Requirement and Band Edge Test Data

### (1) Radiation Test

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6°C                      | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Ant. Pol.     | Horizontal                  |                    |     |
| Test Mode:    | TX GFSK Mode 2402MHz        |                    |     |
| Remark:       | Only worse case is reported |                    |     |

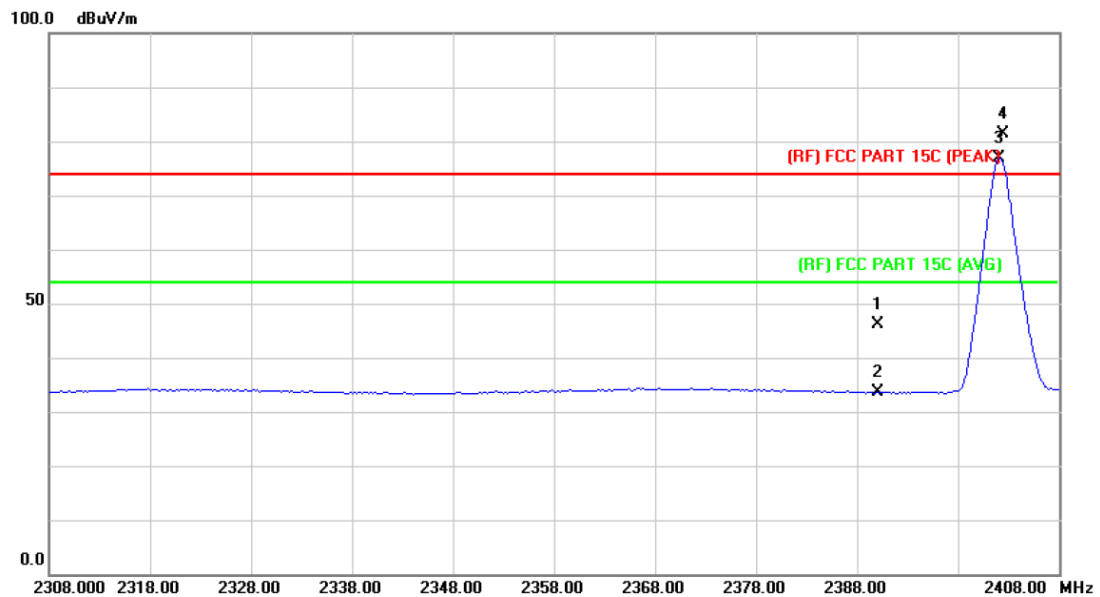


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   |     | 2390.000     | 43.07                    | 1.28                      | 44.35                      | 74.00                 | -29.65     | peak     |
| 2   |     | 2390.000     | 32.29                    | 1.28                      | 33.57                      | 54.00                 | -20.43     | AVG      |
| 3   | *   | 2402.000     | 79.86                    | 1.33                      | 81.19                      | Fundamental Frequency |            | AVG      |
| 4   | X   | 2402.400     | 84.56                    | 1.33                      | 85.89                      | Fundamental Frequency |            | peak     |

**Remark:**

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6°C                      | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Ant. Pol.     | Vertical                    |                    |     |
| Test Mode:    | TX GFSK Mode 2402MHz        |                    |     |
| Remark:       | Only worse case is reported |                    |     |

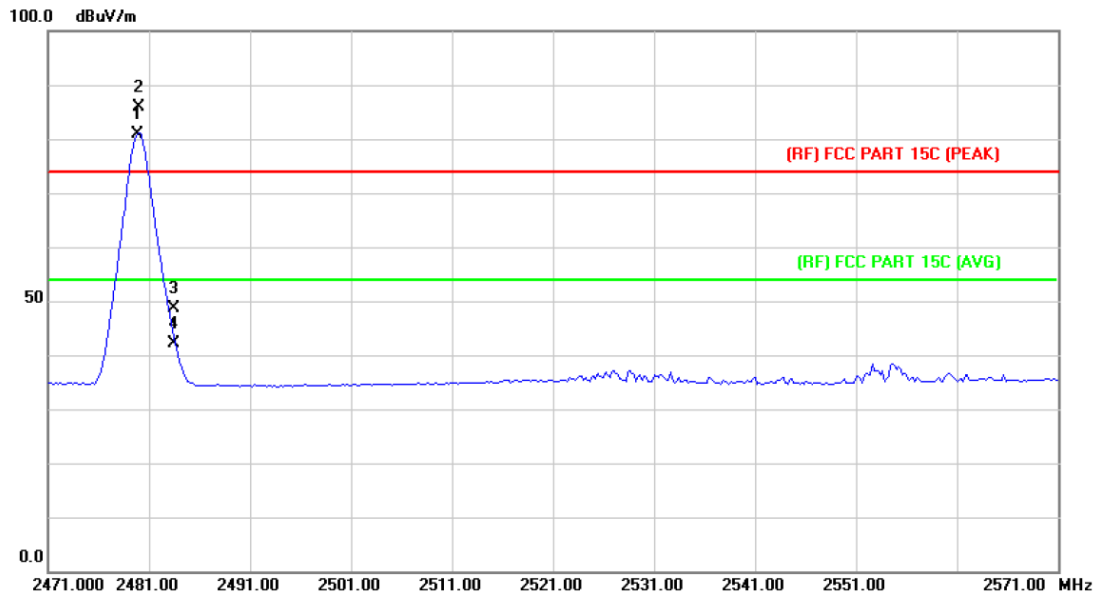


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   |     | 2390.000     | 44.78                    | 1.28                      | 46.06                      | 74.00                 | -27.94     | peak     |
| 2   |     | 2390.000     | 32.23                    | 1.28                      | 33.51                      | 54.00                 | -20.49     | AVG      |
| 3   | *   | 2402.000     | 75.63                    | 1.33                      | 76.96                      | Fundamental Frequency |            | AVG      |
| 4   | X   | 2402.400     | 80.06                    | 1.33                      | 81.39                      | Fundamental Frequency |            | peak     |

**Remark:**

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6°C                      | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Ant. Pol.     | Horizontal                  |                    |     |
| Test Mode:    | TX GFSK Mode 2480 MHz       |                    |     |
| Remark:       | Only worse case is reported |                    |     |

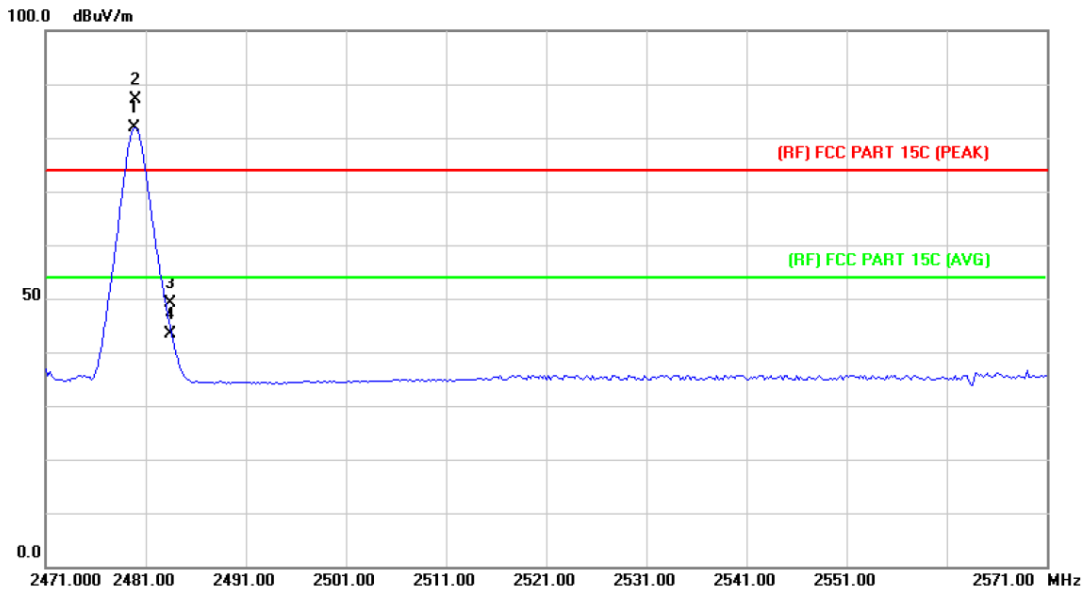


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   | *   | 2479.800     | 79.14                    | 1.85                      | 80.99                      | Fundamental Frequency |            | AVG      |
| 2   | X   | 2480.000     | 83.94                    | 1.85                      | 85.79                      | Fundamental Frequency |            | peak     |
| 3   |     | 2483.500     | 46.79                    | 1.88                      | 48.67                      | 74.00                 | -25.33     | peak     |
| 4   |     | 2483.500     | 40.30                    | 1.88                      | 42.18                      | 54.00                 | -11.82     | AVG      |

**Remark:**

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6°C                      | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Ant. Pol.     | Vertical                    |                    |     |
| Test Mode:    | TX GFSK Mode 2480 MHz       |                    |     |
| Remark:       | Only worse case is reported |                    |     |

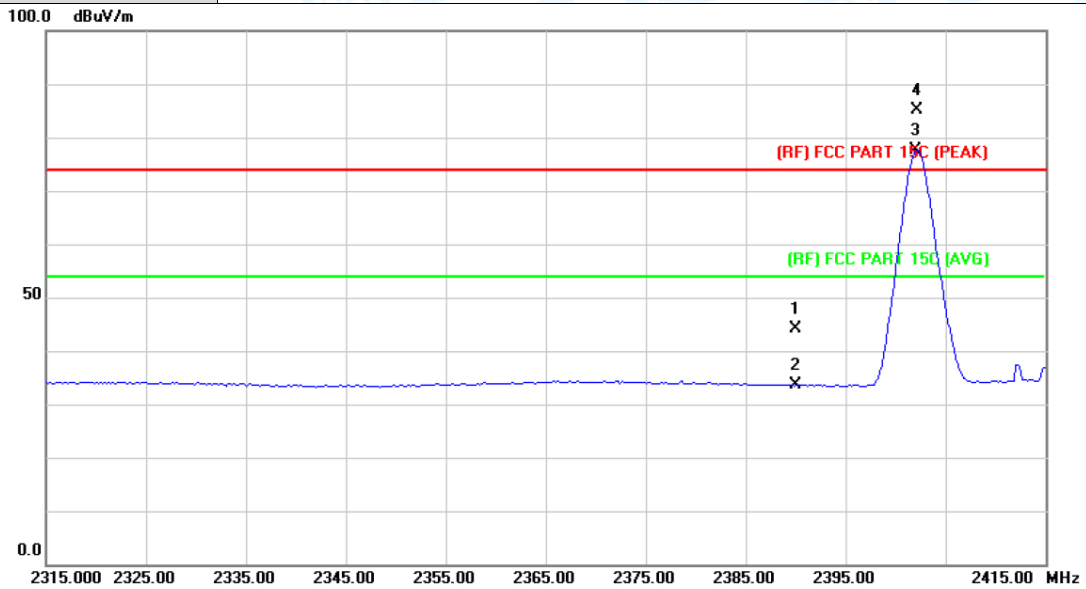


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   | *   | 2479.800     | 80.15                    | 1.85                      | 82.00                      | Fundamental Frequency |            | AVG      |
| 2   | X   | 2480.000     | 85.16                    | 1.85                      | 87.01                      | Fundamental Frequency |            | peak     |
| 3   |     | 2483.500     | 47.24                    | 1.88                      | 49.12                      | 74.00                 | -24.88     | peak     |
| 4   |     | 2483.500     | 41.47                    | 1.88                      | 43.35                      | 54.00                 | -10.65     | AVG      |

## Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6°C                      | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Ant. Pol.     | Horizontal                  |                    |     |
| Test Mode:    | TXπ /4-DQPSK Mode 2402MHz   |                    |     |
| Remark:       | Only worse case is reported |                    |     |

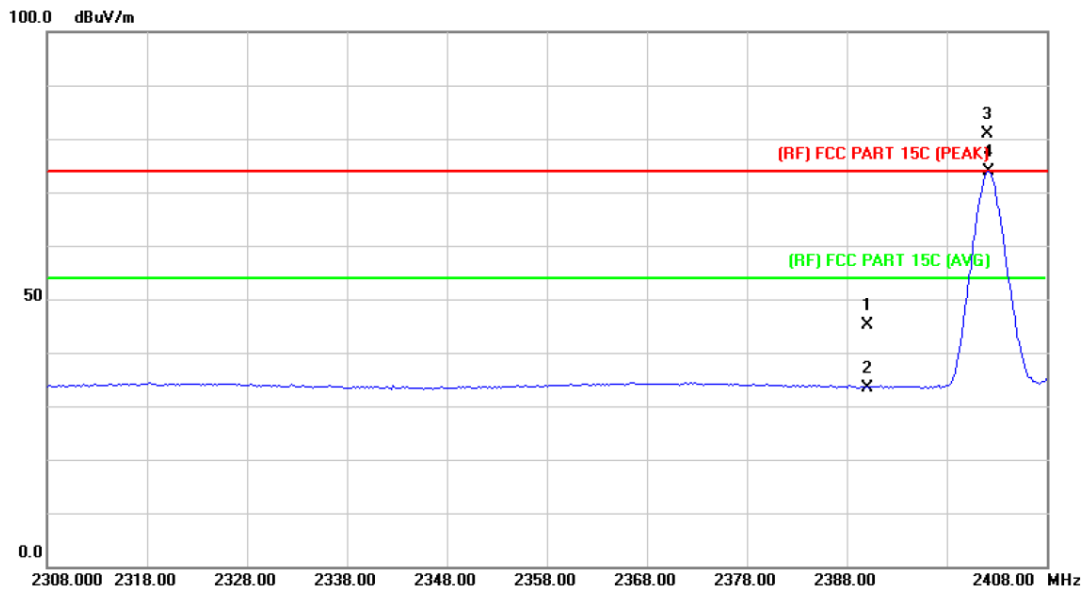


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   |     | 2390.000     | 42.94                    | 1.28                      | 44.22                      | 74.00                 | -29.78     | peak     |
| 2   |     | 2390.000     | 32.34                    | 1.28                      | 33.62                      | 54.00                 | -20.38     | AVG      |
| 3   | *   | 2402.000     | 76.41                    | 1.33                      | 77.74                      | Fundamental Frequency |            | AVG      |
| 4   | X   | 2402.200     | 83.89                    | 1.33                      | 85.22                      | Fundamental Frequency |            | peak     |

**Remark:**

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6°C                      | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Ant. Pol.     | Vertical                    |                    |     |
| Test Mode:    | TXπ /4-DQPSK Mode 2402MHz   |                    |     |
| Remark:       | Only worse case is reported |                    |     |

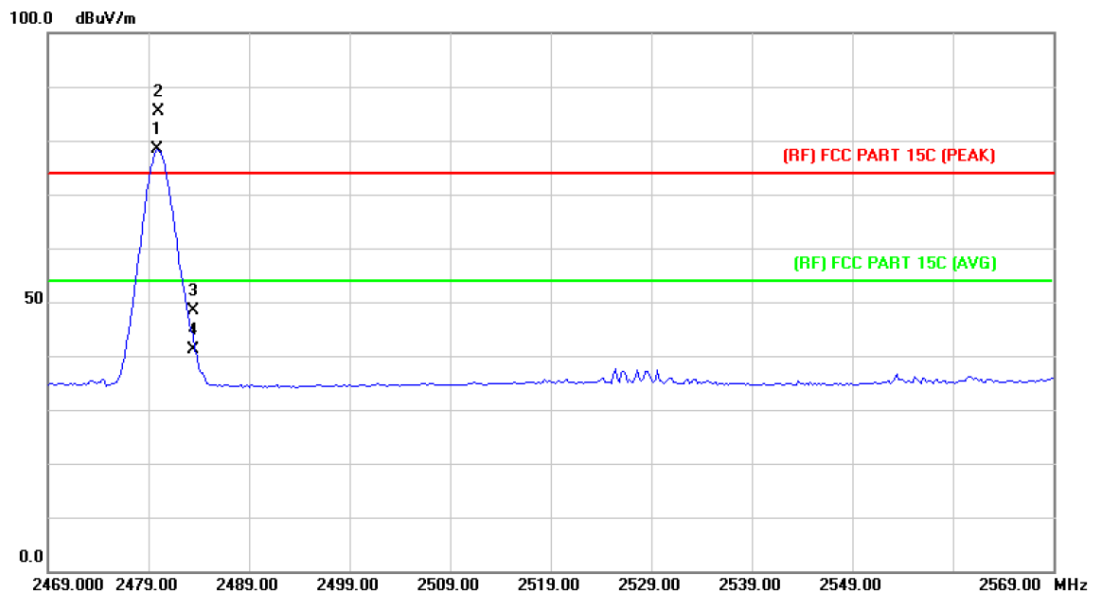


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   |     | 2390.000     | 43.84                    | 1.28                      | 45.12                      | 74.00                 | -28.88     | peak     |
| 2   |     | 2390.000     | 32.22                    | 1.28                      | 33.50                      | 54.00                 | -20.50     | AVG      |
| 3   | X   | 2402.000     | 79.47                    | 1.33                      | 80.80                      | Fundamental Frequency |            | peak     |
| 4   | *   | 2402.200     | 72.51                    | 1.33                      | 73.84                      | Fundamental Frequency |            | AVG      |

**Remark:**

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6°C                      | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Ant. Pol.     | Horizontal                  |                    |     |
| Test Mode:    | TXπ /4-DQPSK Mode 2480MHz   |                    |     |
| Remark:       | Only worse case is reported |                    |     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   | *   | 2479.800     | 76.42                    | 1.85                      | 78.27                      | Fundamental Frequency |            | AVG      |
| 2   | X   | 2480.000     | 83.58                    | 1.85                      | 85.43                      | Fundamental Frequency |            | peak     |
| 3   |     | 2483.500     | 46.40                    | 1.88                      | 48.28                      | 74.00                 | -25.72     | peak     |
| 4   |     | 2483.500     | 39.22                    | 1.88                      | 41.10                      | 54.00                 | -12.90     | AVG      |

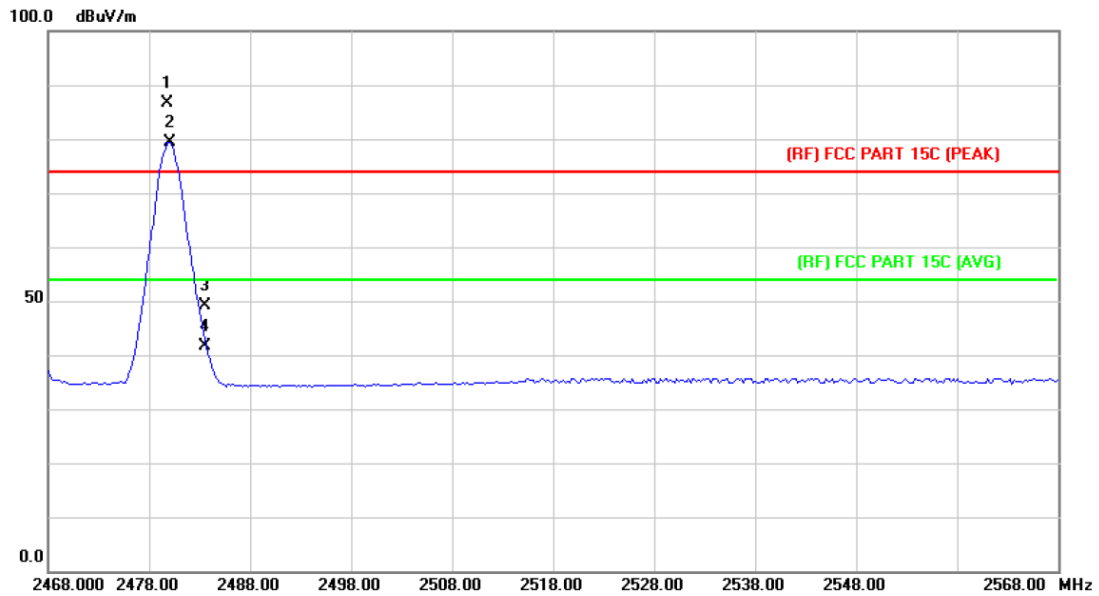
**Remark:**

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)

3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6°C                      | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Ant. Pol.     | Vertical                    |                    |     |
| Test Mode:    | TXπ /4-DQPSK Mode 2480MHz   |                    |     |
| Remark:       | Only worse case is reported |                    |     |

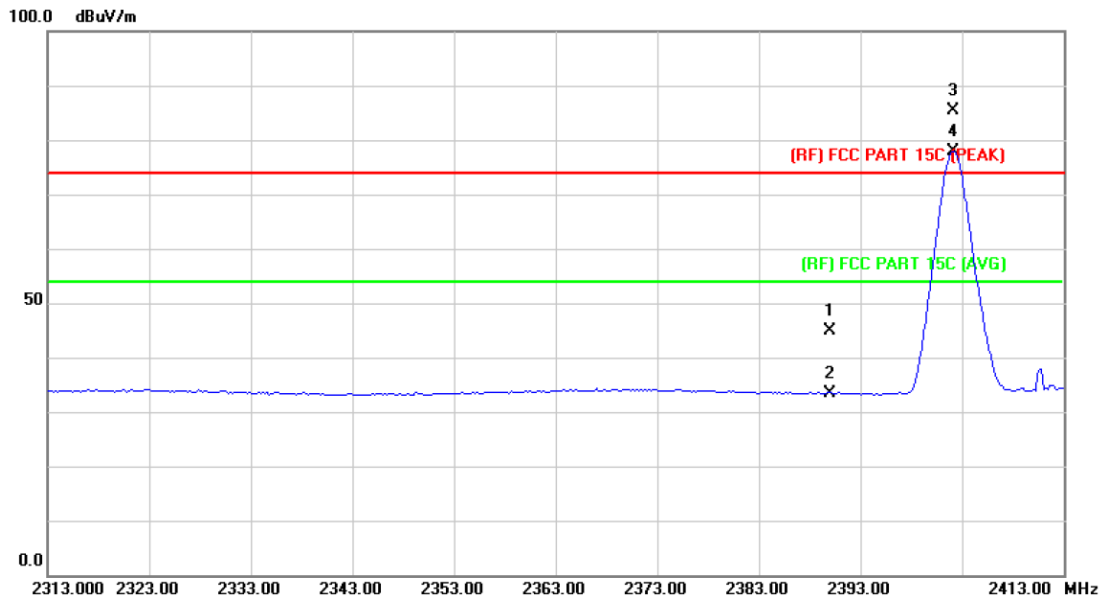


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit                 | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-----------------------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m                | dB     | Detector |
| 1   | X   | 2479.800 | 84.89         | 1.85           | 86.74       | Fundamental Frequency |        | peak     |
| 2   | *   | 2480.000 | 77.59         | 1.85           | 79.44       | Fundamental Frequency |        | AVG      |
| 3   |     | 2483.500 | 47.36         | 1.88           | 49.24       | 74.00                 | -24.76 | peak     |
| 4   |     | 2483.500 | 39.67         | 1.88           | 41.55       | 54.00                 | -12.45 | AVG      |

**Remark:**

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6°C                      | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Ant. Pol.     | Horizontal                  |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2402MHz      |                    |     |
| Remark:       | Only worse case is reported |                    |     |

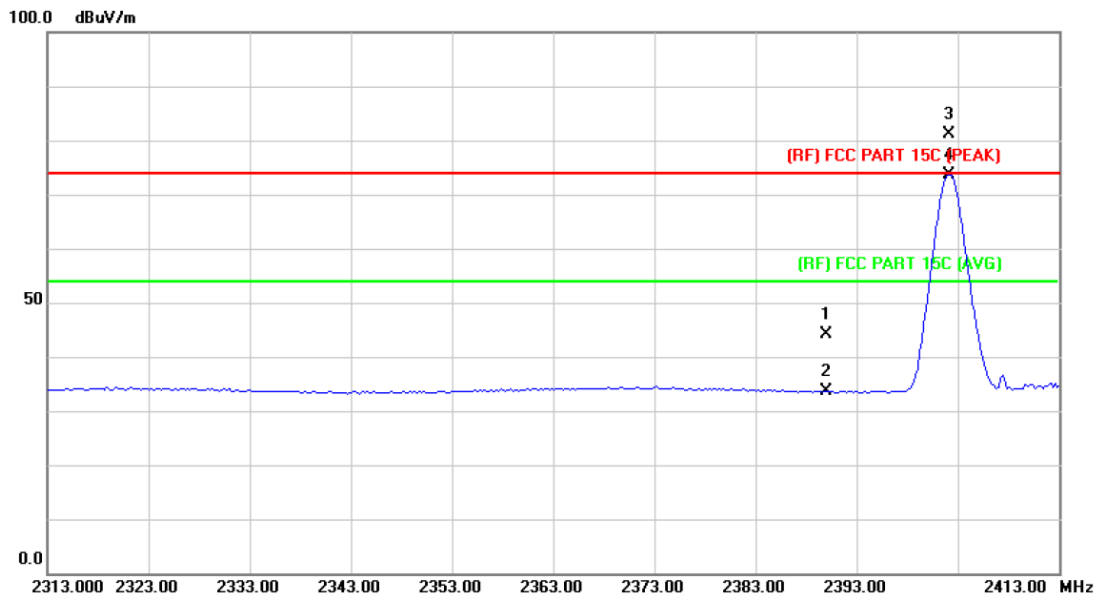


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   |     | 2390.000     | 43.50                    | 1.28                      | 44.78                      | 74.00                 | -29.22     | peak     |
| 2   |     | 2390.000     | 32.22                    | 1.28                      | 33.50                      | 54.00                 | -20.50     | AVG      |
| 3   | X   | 2402.200     | 84.01                    | 1.33                      | 85.34                      | Fundamental Frequency |            | peak     |
| 4   | *   | 2402.200     | 76.47                    | 1.33                      | 77.80                      | Fundamental Frequency |            | AVG      |

**Remark:**

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6°C                      | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Ant. Pol.     | Vertical                    |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2402MHz      |                    |     |
| Remark:       | Only worse case is reported |                    |     |

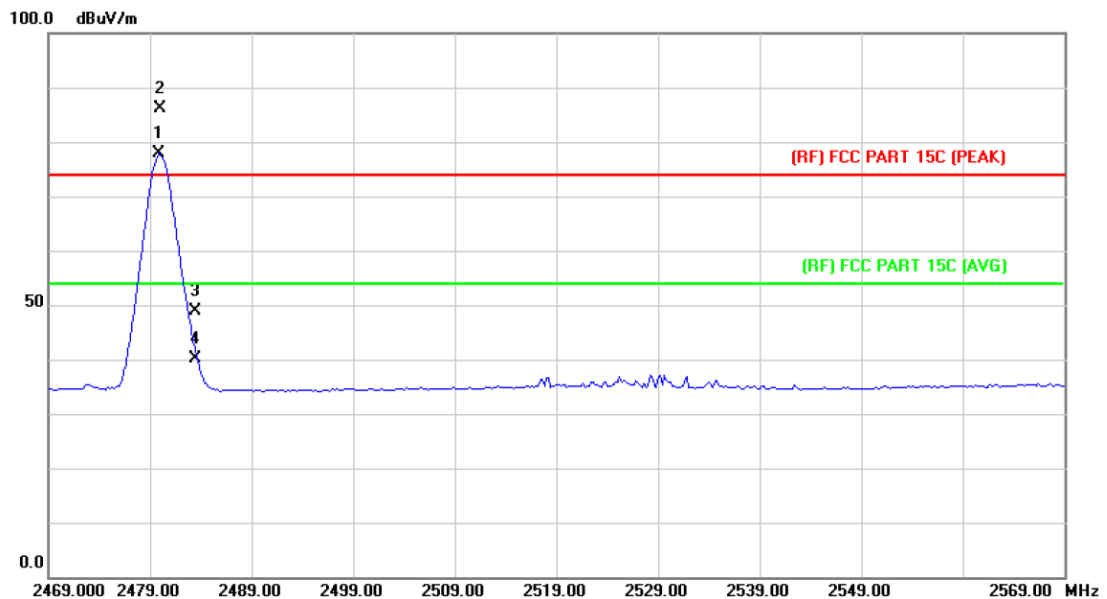


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   |     | 2390.000     | 42.97                    | 1.28                      | 44.25                      | 74.00                 | -29.75     | peak     |
| 2   |     | 2390.000     | 32.29                    | 1.28                      | 33.57                      | 54.00                 | -20.43     | AVG      |
| 3   | X   | 2402.200     | 79.84                    | 1.33                      | 81.17                      | Fundamental Frequency |            | peak     |
| 4   | *   | 2402.200     | 72.42                    | 1.33                      | 73.75                      | Fundamental Frequency |            | AVG      |

**Remark:**

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6°C                      | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Ant. Pol.     | Horizontal                  |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2480MHz      |                    |     |
| Remark:       | Only worse case is reported |                    |     |

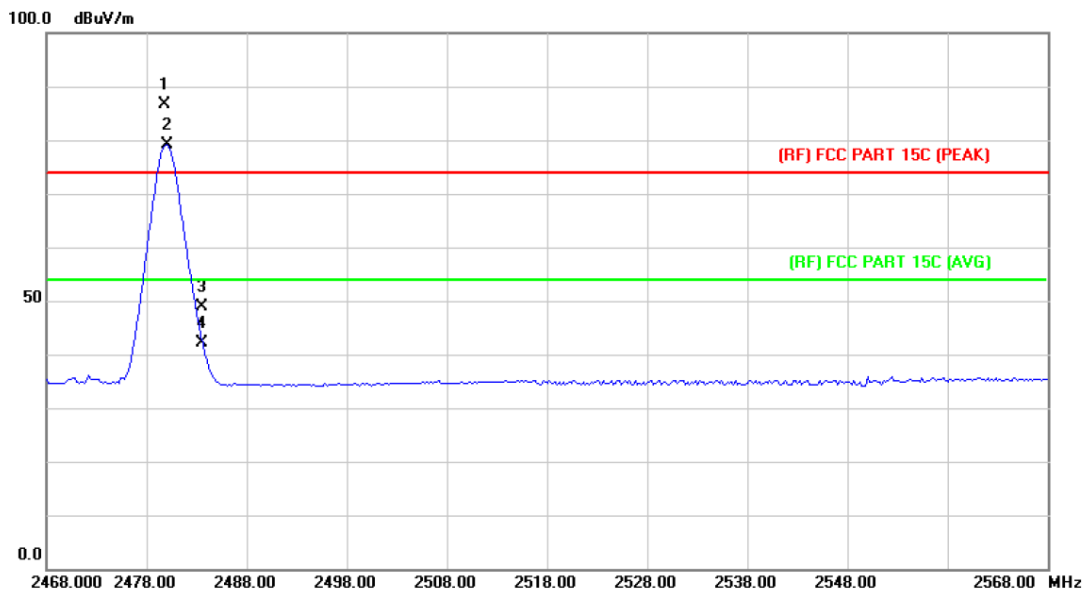


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   | *   | 2479.800     | 75.99                    | 1.85                      | 77.84                      | Fundamental Frequency |            | AVG      |
| 2   | X   | 2480.000     | 84.20                    | 1.85                      | 86.05                      | Fundamental Frequency |            | peak     |
| 3   |     | 2483.500     | 47.12                    | 1.88                      | 49.00                      | 74.00                 | -25.00     | peak     |
| 4   |     | 2483.500     | 38.37                    | 1.88                      | 40.25                      | 54.00                 | -13.75     | AVG      |

**Remark:**

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 23.6°C                      | Relative Humidity: | 46% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Ant. Pol.     | Vertical                    |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2480MHz      |                    |     |
| Remark:       | Only worse case is reported |                    |     |



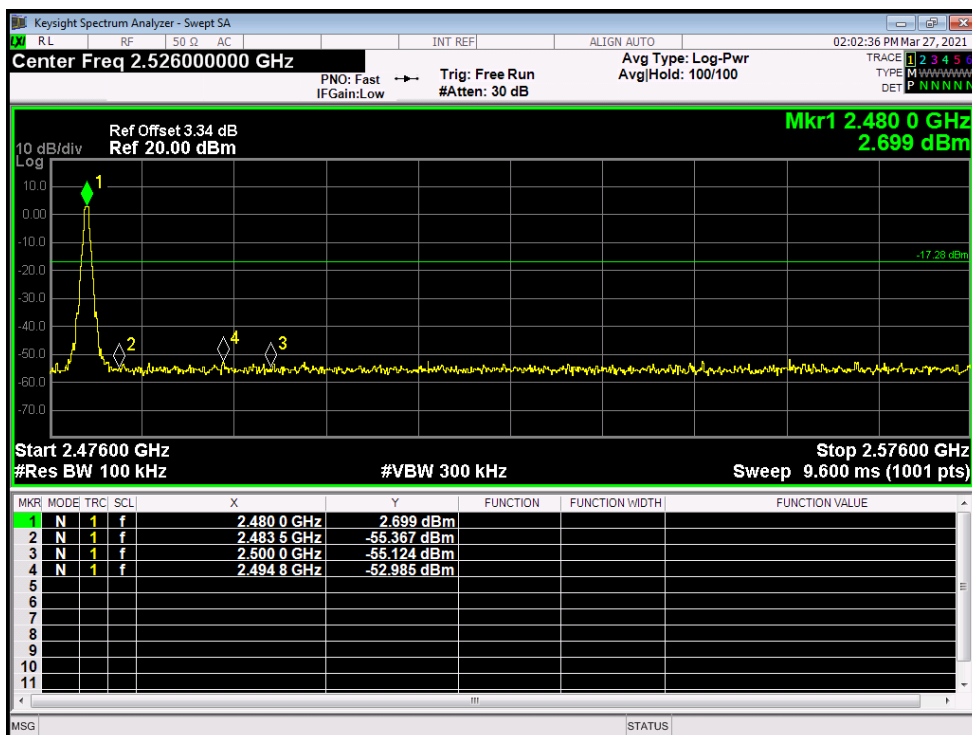
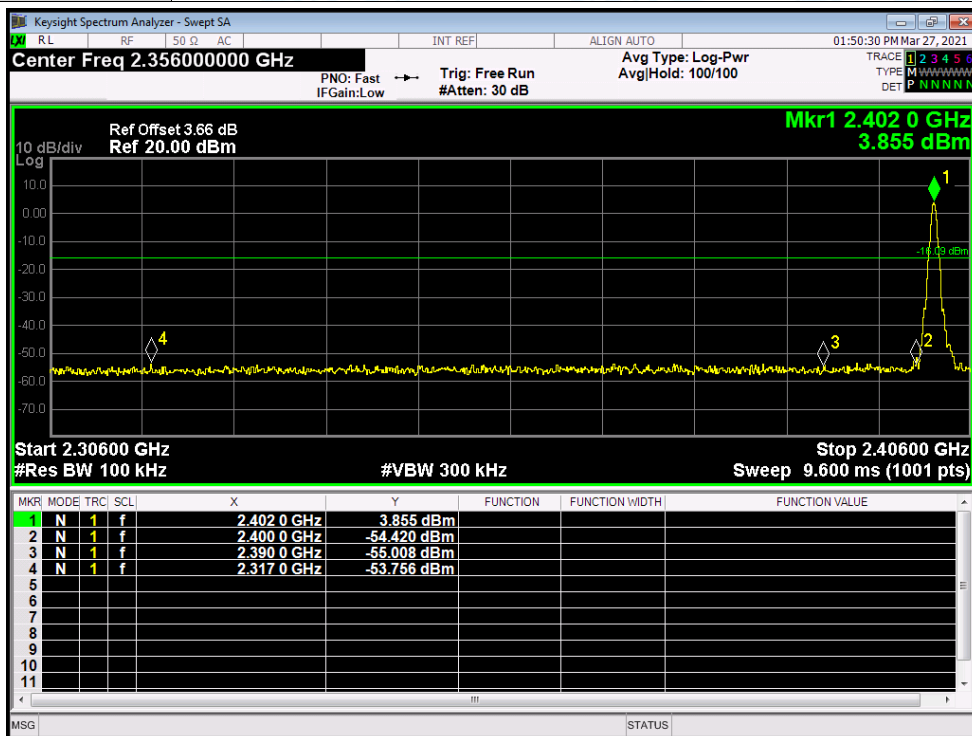
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   | X   | 2479.800     | 84.81                    | 1.85                      | 86.66                      | Fundamental Frequency |            | peak     |
| 2   | *   | 2480.000     | 77.38                    | 1.85                      | 79.23                      | Fundamental Frequency |            | AVG      |
| 3   |     | 2483.500     | 46.97                    | 1.88                      | 48.85                      | 74.00                 | -25.15     | peak     |
| 4   |     | 2483.500     | 40.17                    | 1.88                      | 42.05                      | 54.00                 | -11.95     | AVG      |

**Remark:**

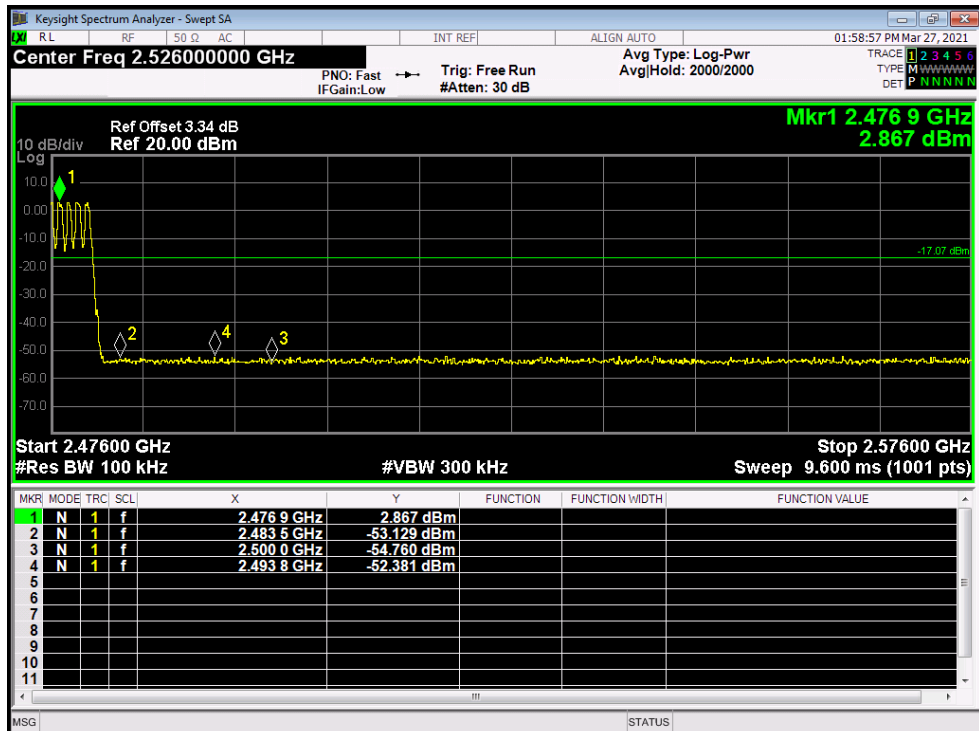
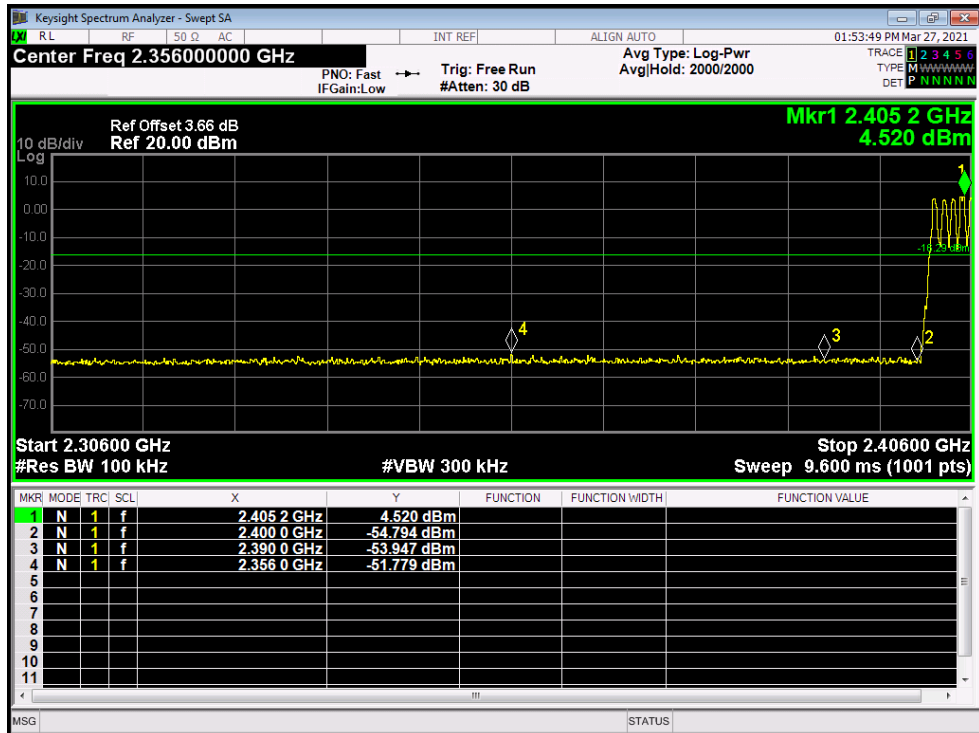
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

## (2) Conducted Test

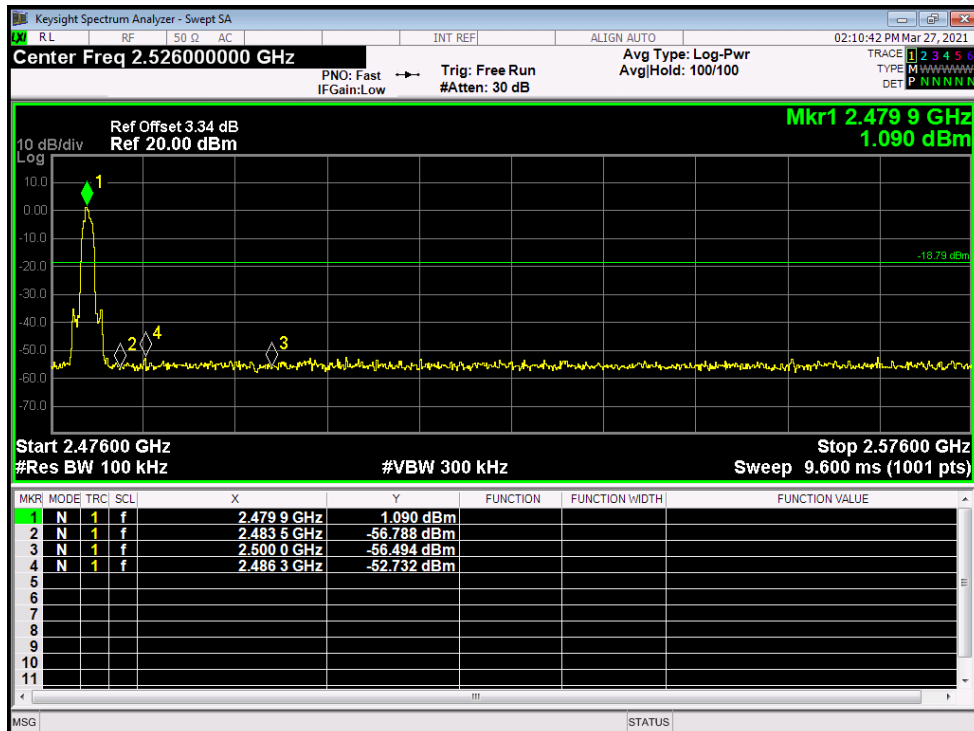
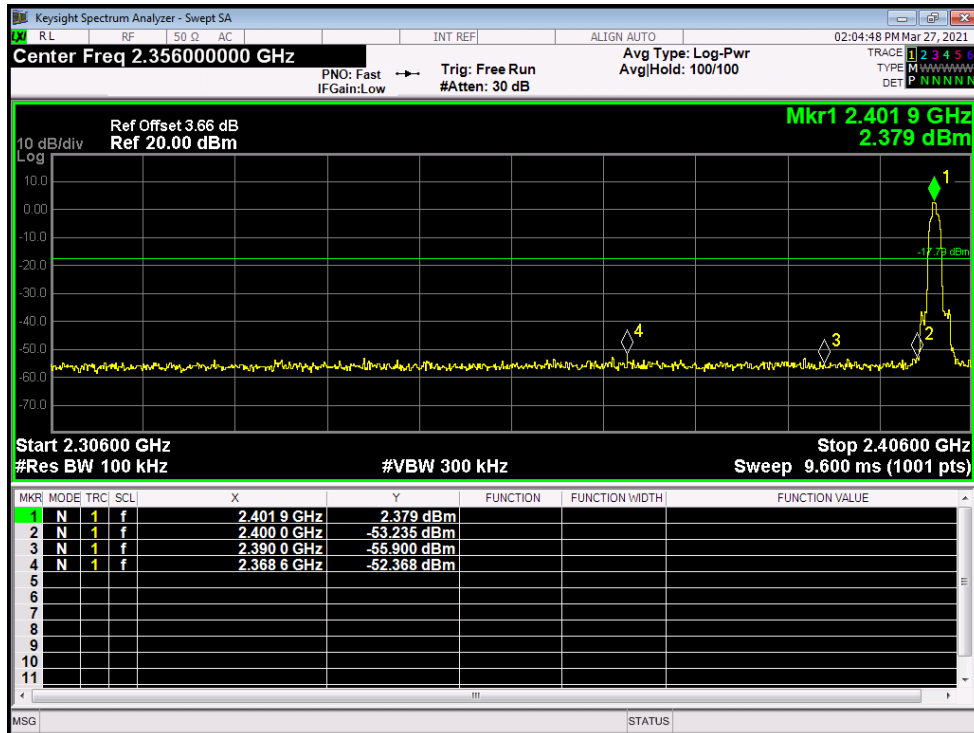
|               |                               |                    |     |
|---------------|-------------------------------|--------------------|-----|
| Temperature:  | 25°C                          | Relative Humidity: | 55% |
| Test Voltage: | DC 7.6V                       |                    |     |
| Test Mode:    | TX GFSK Mode 2402MHz/2480 MHz |                    |     |
| Remark:       | Only worse case is reported   |                    |     |



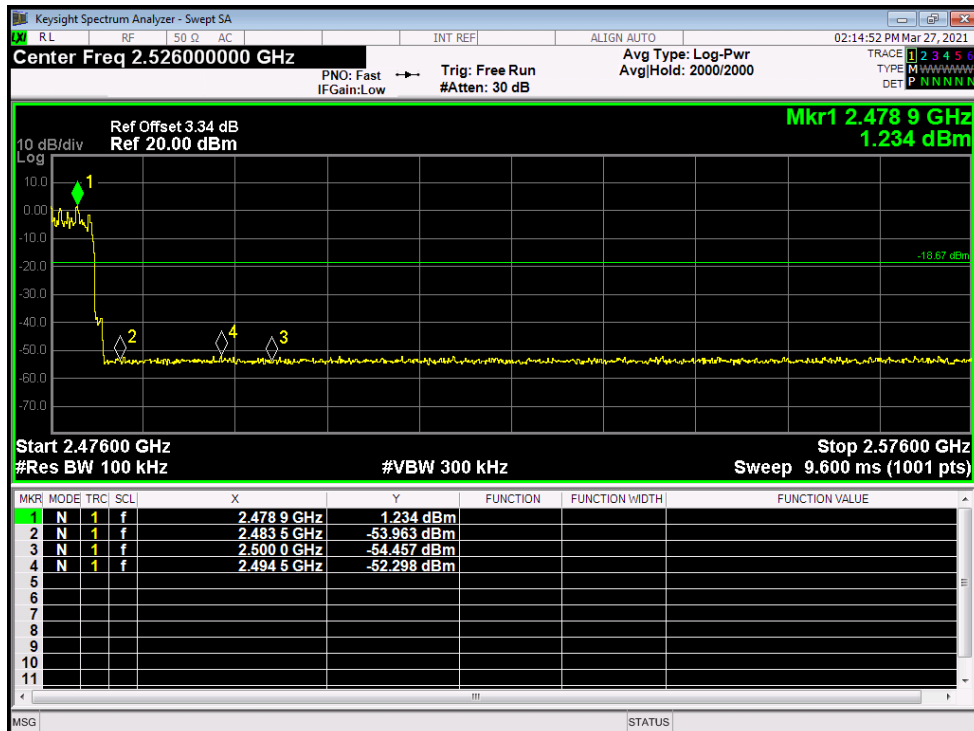
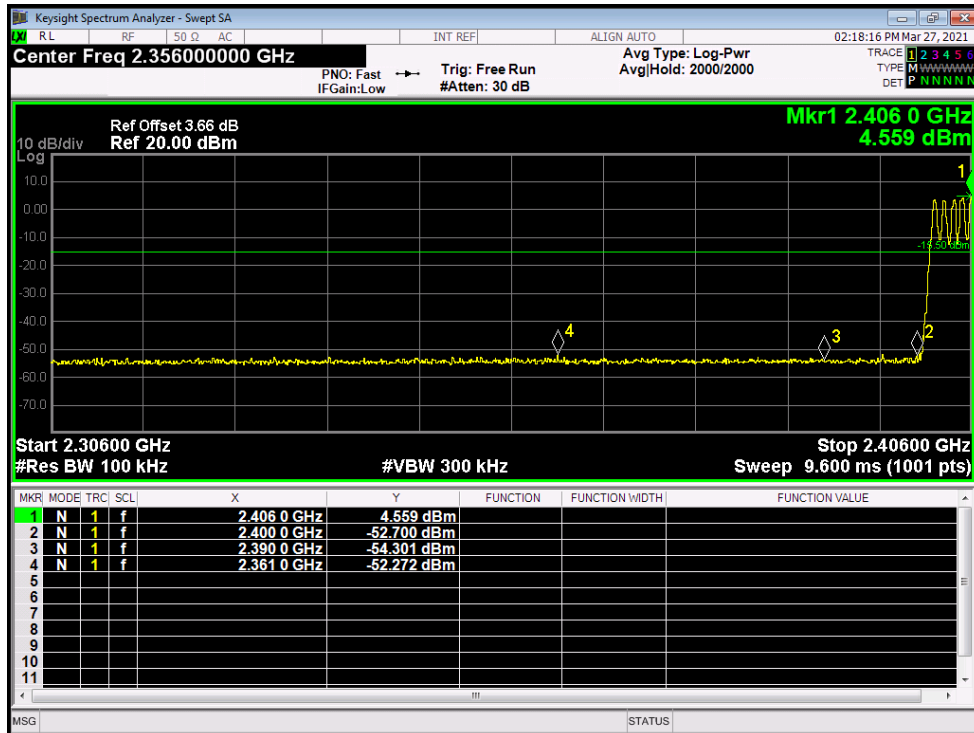
|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 25°C                        | Relative Humidity: | 55% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Test Mode:    | GFSK Hopping Mode           |                    |     |
| Remark:       | Only worse case is reported |                    |     |



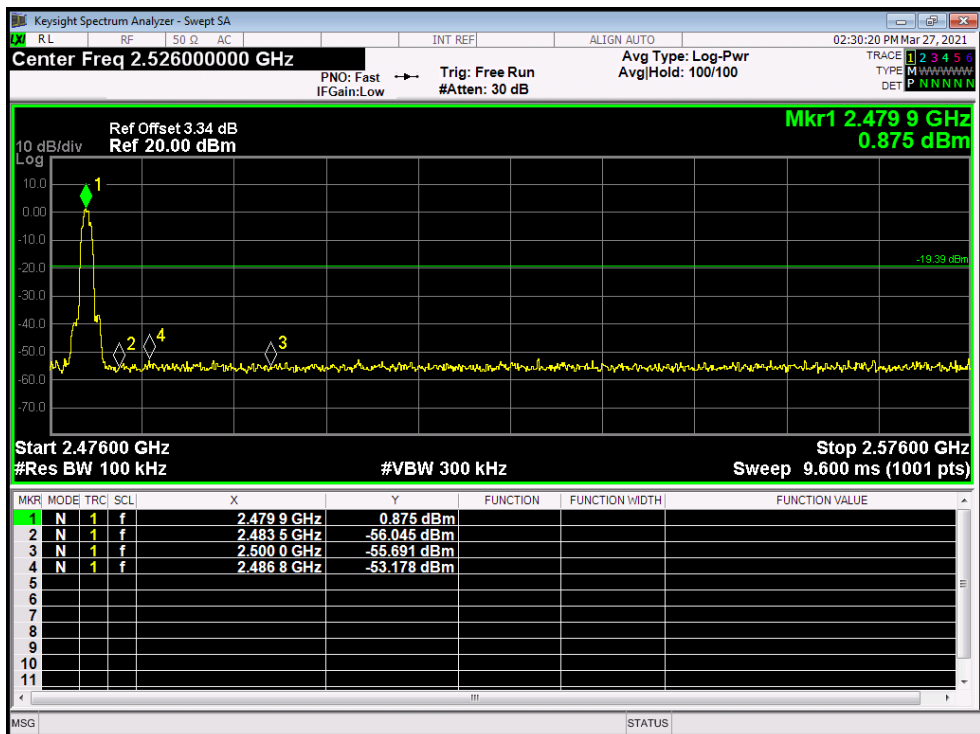
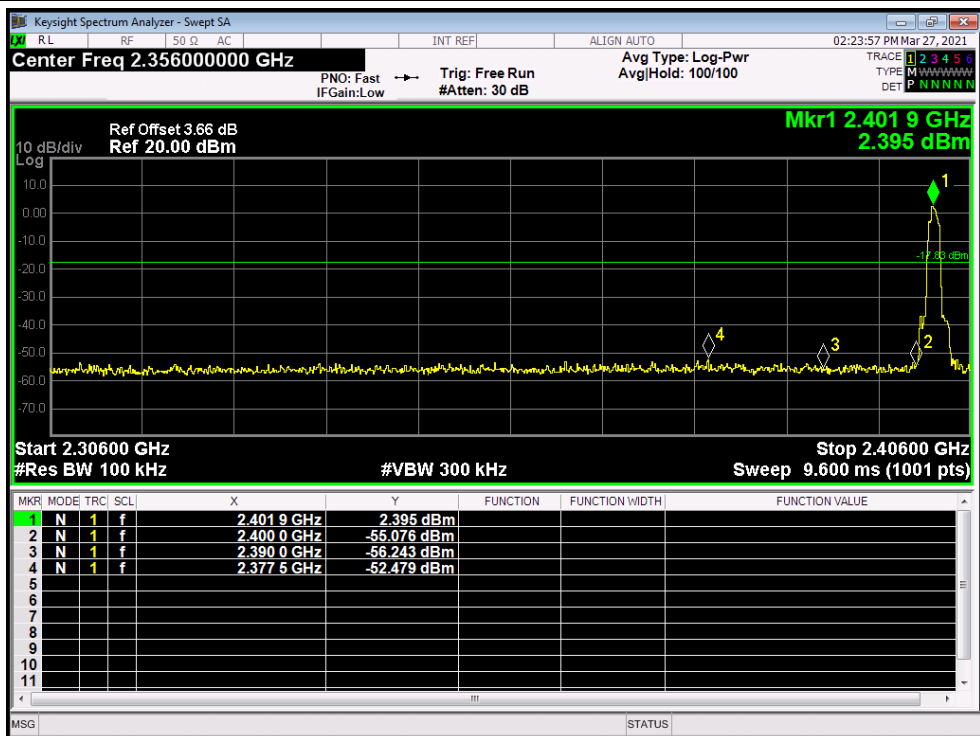
|               |                                    |                    |     |
|---------------|------------------------------------|--------------------|-----|
| Temperature:  | 25°C                               | Relative Humidity: | 55% |
| Test Voltage: | DC 7.6V                            |                    |     |
| Test Mode:    | TXπ /4-DQPSK Mode 2402MHz/2480 MHz |                    |     |
| Remark:       | Only worse case is reported        |                    |     |



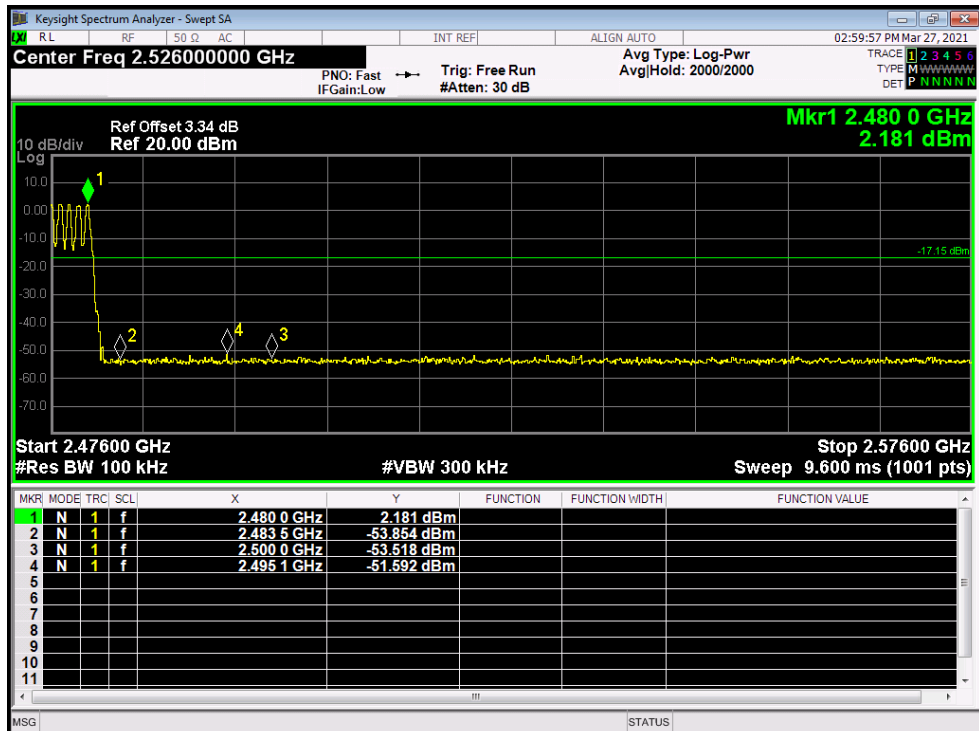
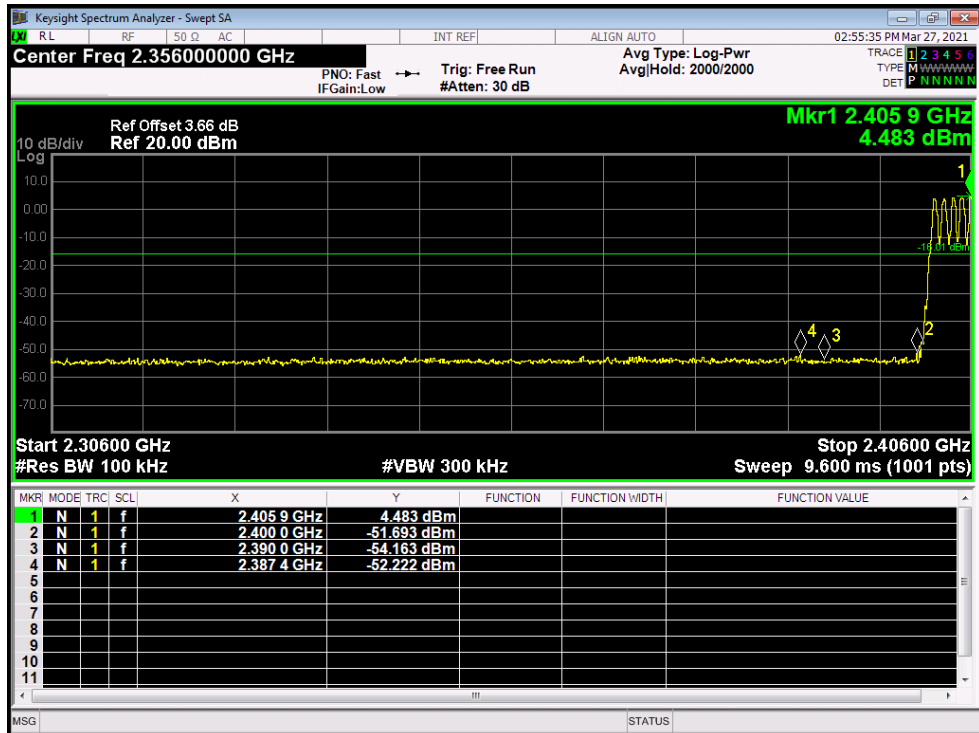
|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 25°C                        | Relative Humidity: | 55% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Test Mode:    | $\pi$ /4-DQPSK Hopping Mode |                    |     |
| Remark:       | Only worse case is reported |                    |     |



|               |                                 |                    |     |
|---------------|---------------------------------|--------------------|-----|
| Temperature:  | 25°C                            | Relative Humidity: | 55% |
| Test Voltage: | DC 7.6V                         |                    |     |
| Test Mode:    | TX 8-DPSK Mode 2402MHz/2480 MHz |                    |     |
| Remark:       | Only worse case is reported     |                    |     |



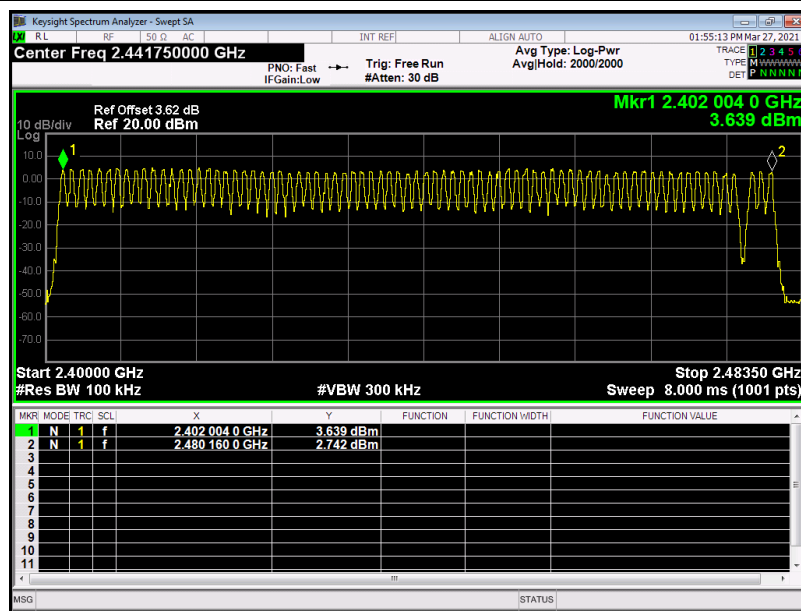
|               |                             |                    |     |
|---------------|-----------------------------|--------------------|-----|
| Temperature:  | 25°C                        | Relative Humidity: | 55% |
| Test Voltage: | DC 7.6V                     |                    |     |
| Test Mode:    | 8-DPSK Hopping Mode         |                    |     |
| Remark:       | Only worse case is reported |                    |     |



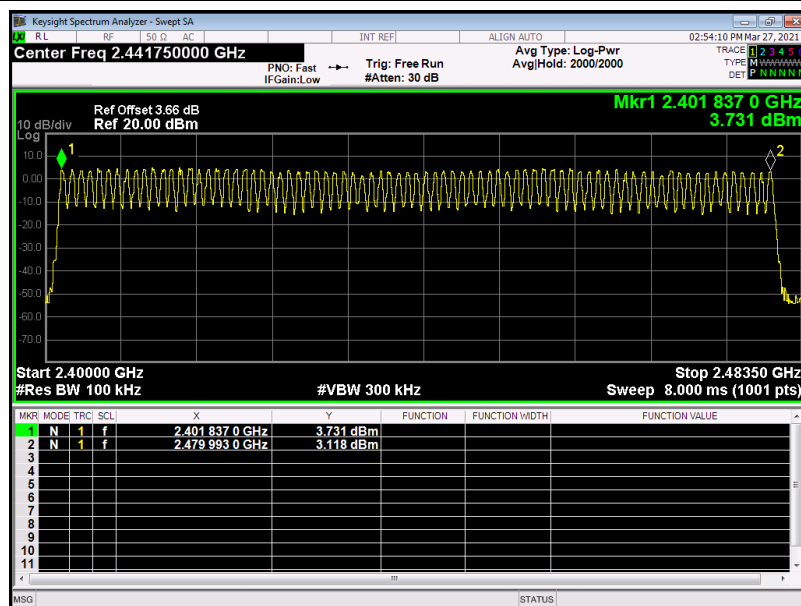
## Attachment D-- Number of Hopping Channel Test Data

| Temperature:    | 25°C           | Relative Humidity:          | 55%   |
|-----------------|----------------|-----------------------------|-------|
| Test Voltage:   | DC 7.6V        |                             |       |
| Test Mode:      | Hopping Mode   |                             |       |
| Frequency Range | Test Mode      | Quantity of Hopping Channel | Limit |
| 2402MHz~2480MHz | GFSK           | 79                          | >15   |
|                 | $\pi$ /4-DQPSK | 79                          |       |
|                 | 8-DPSK         | 79                          |       |

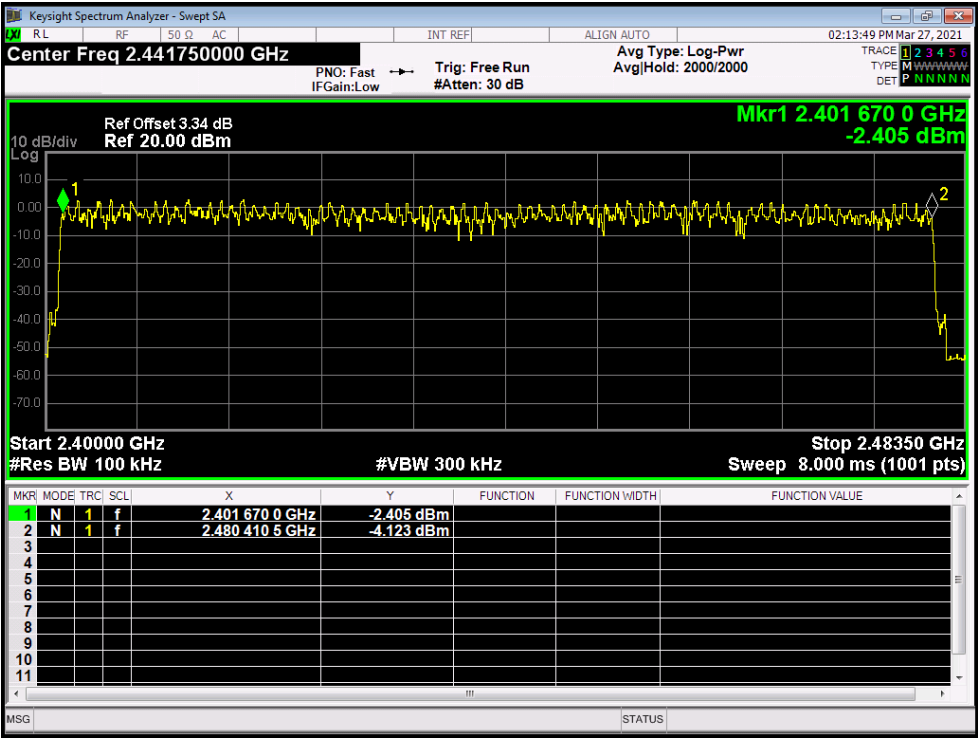
### GFSK Mode



### $\pi$ /4-DQPSK Mode



8-DPSK Mode

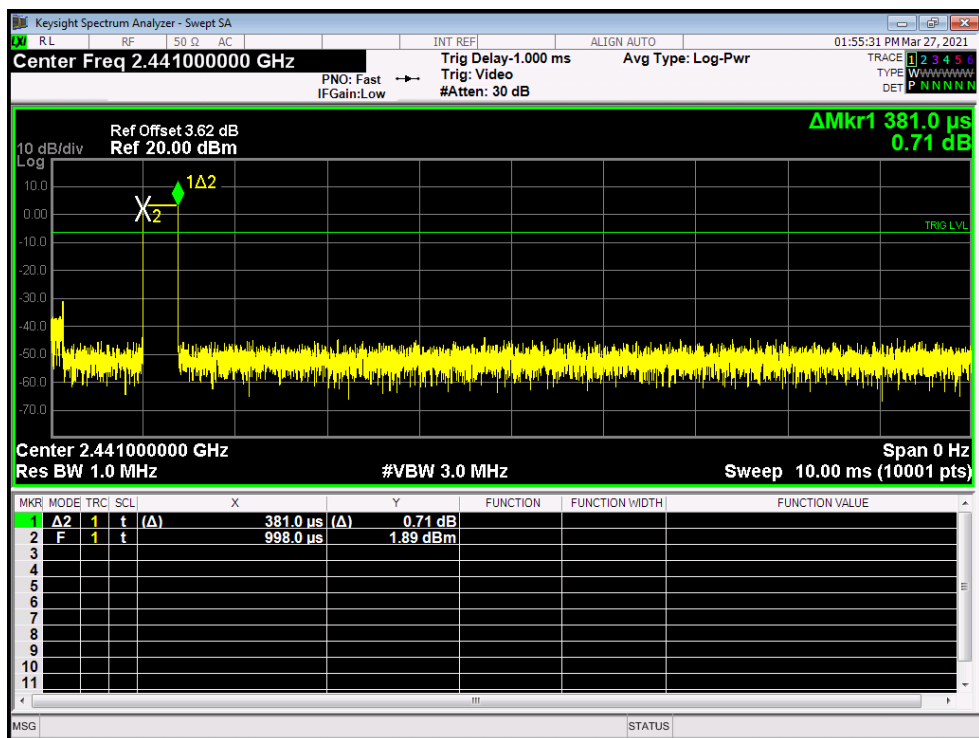


## Attachment E-- Average Time of Occupancy Test Data

| Temperature:                                     |               | 25℃                 |                     | Relative Humidity: |            | 55%    |
|--------------------------------------------------|---------------|---------------------|---------------------|--------------------|------------|--------|
| Test Voltage:                                    |               | DC 7.6V             |                     |                    |            |        |
| Test Mode:                                       |               | Hopping Mode (GFSK) |                     |                    |            |        |
| Test Mode                                        | Channel (MHz) | Pulse Time (ms)     | Total of Dwell (ms) | Period Time (s)    | Limit (ms) | Result |
| 1DH1                                             | 2441          | 0.381               | 121.92              | 31.60              | 400        | PASS   |
| 1DH3                                             | 2441          | 1.637               | 261.92              | 31.60              | 400        | PASS   |
| 1DH5                                             | 2441          | 2.885               | 307.733             | 31.60              | 400        | PASS   |
| 1DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79 |               |                     |                     |                    |            |        |
| 1DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79 |               |                     |                     |                    |            |        |
| 1DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79 |               |                     |                     |                    |            |        |

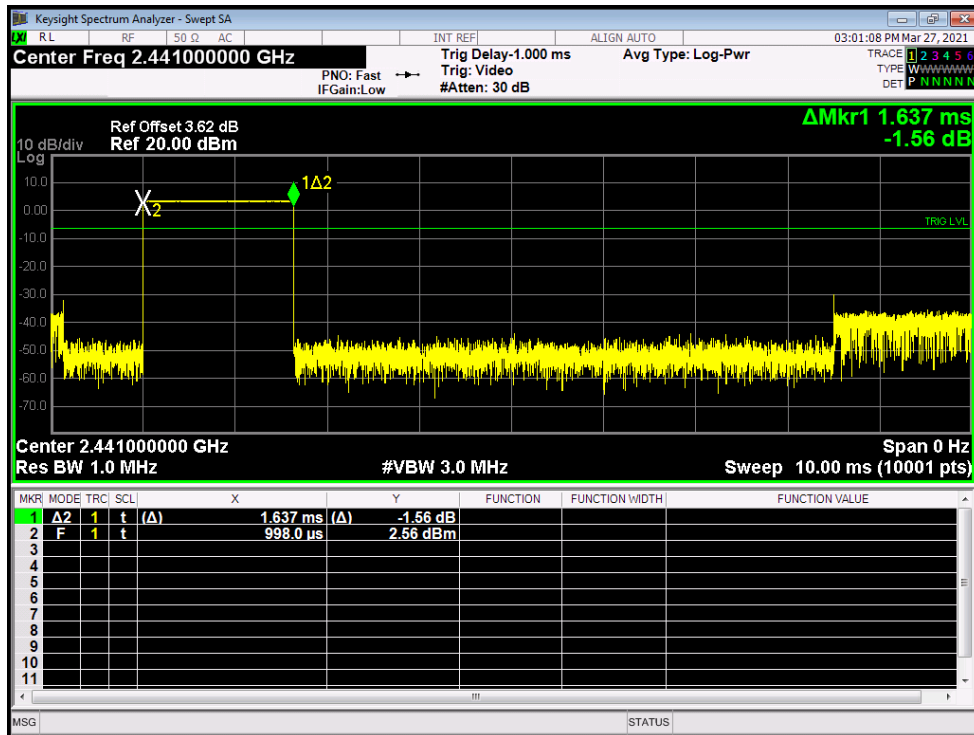
### GFSK Hopping Mode 1DH1

2441 MHz



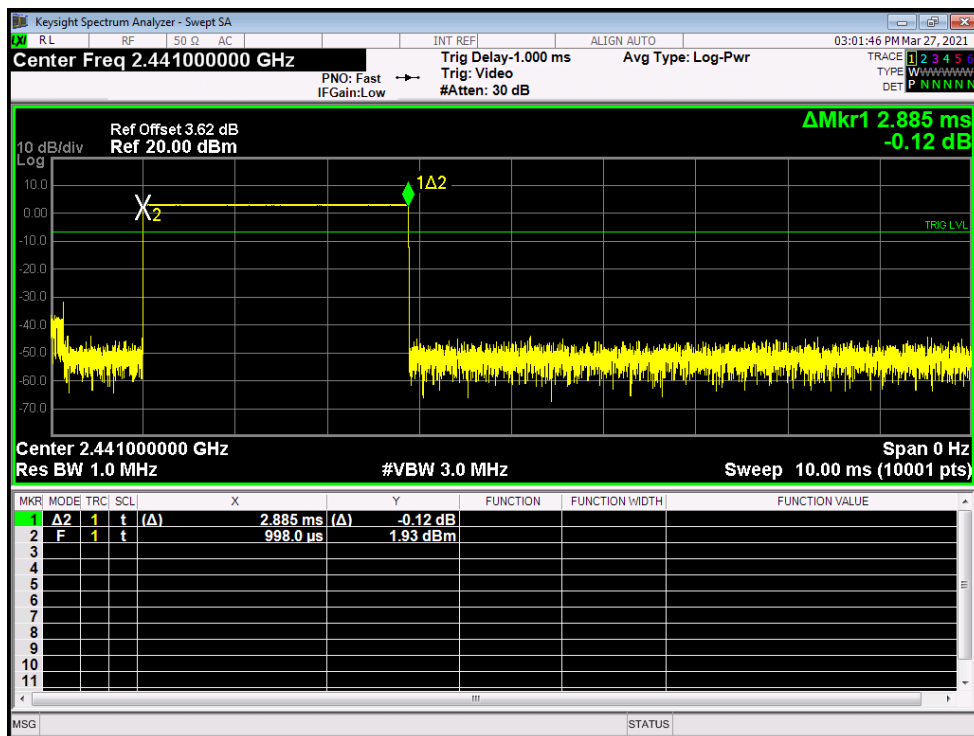
### GFSK Hopping Mode 1DH3

2441 MHz

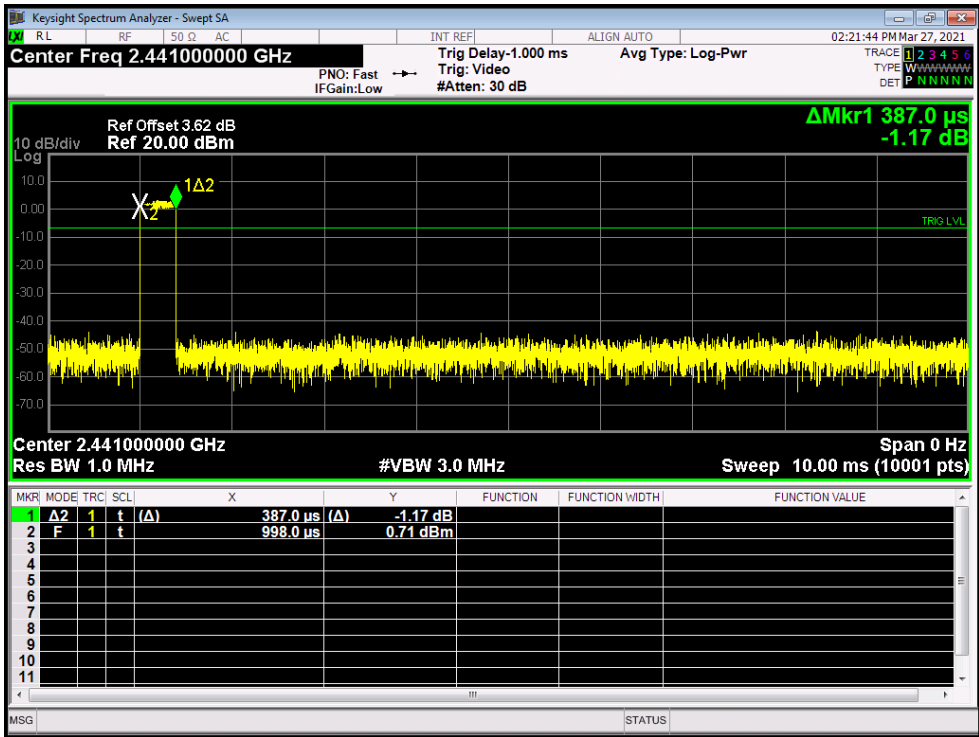


### GFSK Hopping Mode 1DH5

2441 MHz

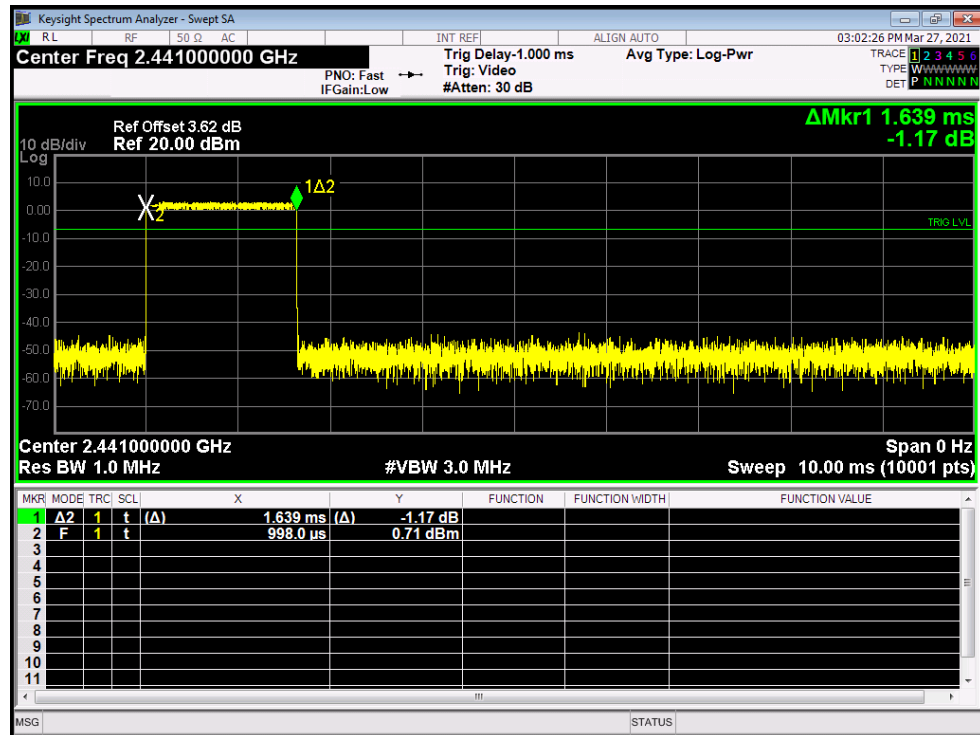


| Temperature:                                     |               | 25℃                       |                     | Relative Humidity: |            | 55%    |
|--------------------------------------------------|---------------|---------------------------|---------------------|--------------------|------------|--------|
| Test Voltage:                                    |               | DC 7.6V                   |                     |                    |            |        |
| Test Mode:                                       |               | Hopping Mode (π /4-DQPSK) |                     |                    |            |        |
| Test Mode                                        | Channel (MHz) | Pulse Time (ms)           | Total of Dwell (ms) | Period Time (s)    | Limit (ms) | Result |
| 2DH1                                             | 2441          | 0.387                     | 123.84              | 31.60              | 400        | PASS   |
| 2DH3                                             | 2441          | 1.639                     | 262.24              | 31.60              | 400        | PASS   |
| 2DH5                                             | 2441          | 2.887                     | 307.947             | 31.60              | 400        | PASS   |
| 2DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79 |               |                           |                     |                    |            |        |
| 2DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79 |               |                           |                     |                    |            |        |
| 2DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79 |               |                           |                     |                    |            |        |
| π /4-DQPSK Hopping Mode 2DH1                     |               |                           |                     |                    |            |        |
| 2441 MHz                                         |               |                           |                     |                    |            |        |



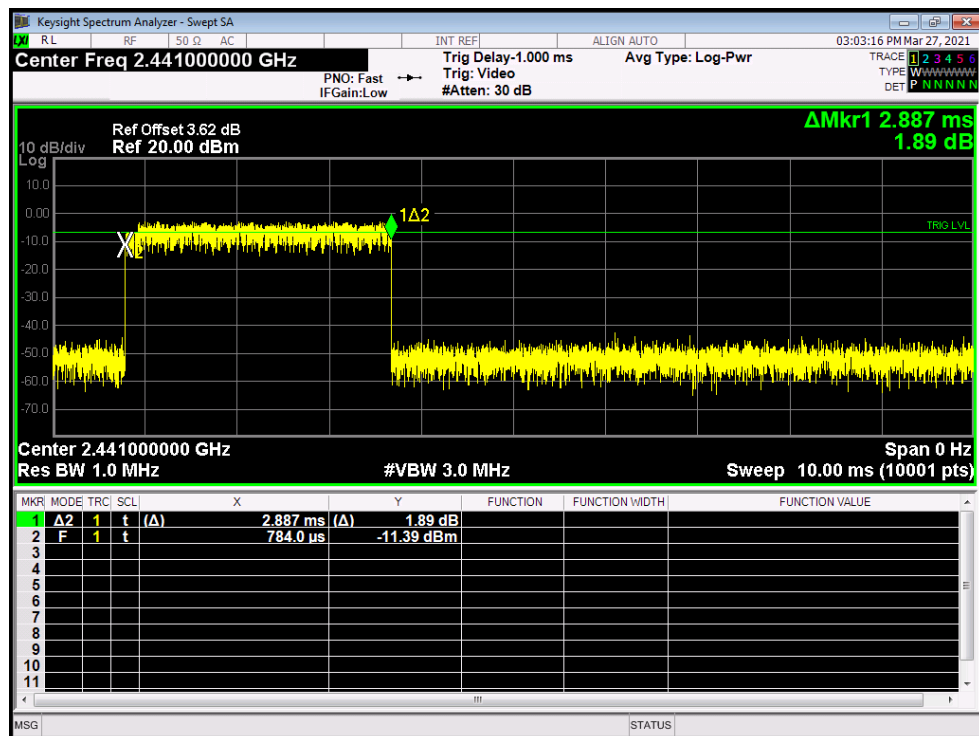
$\pi/4$ -DQPSK Hopping Mode 2DH3

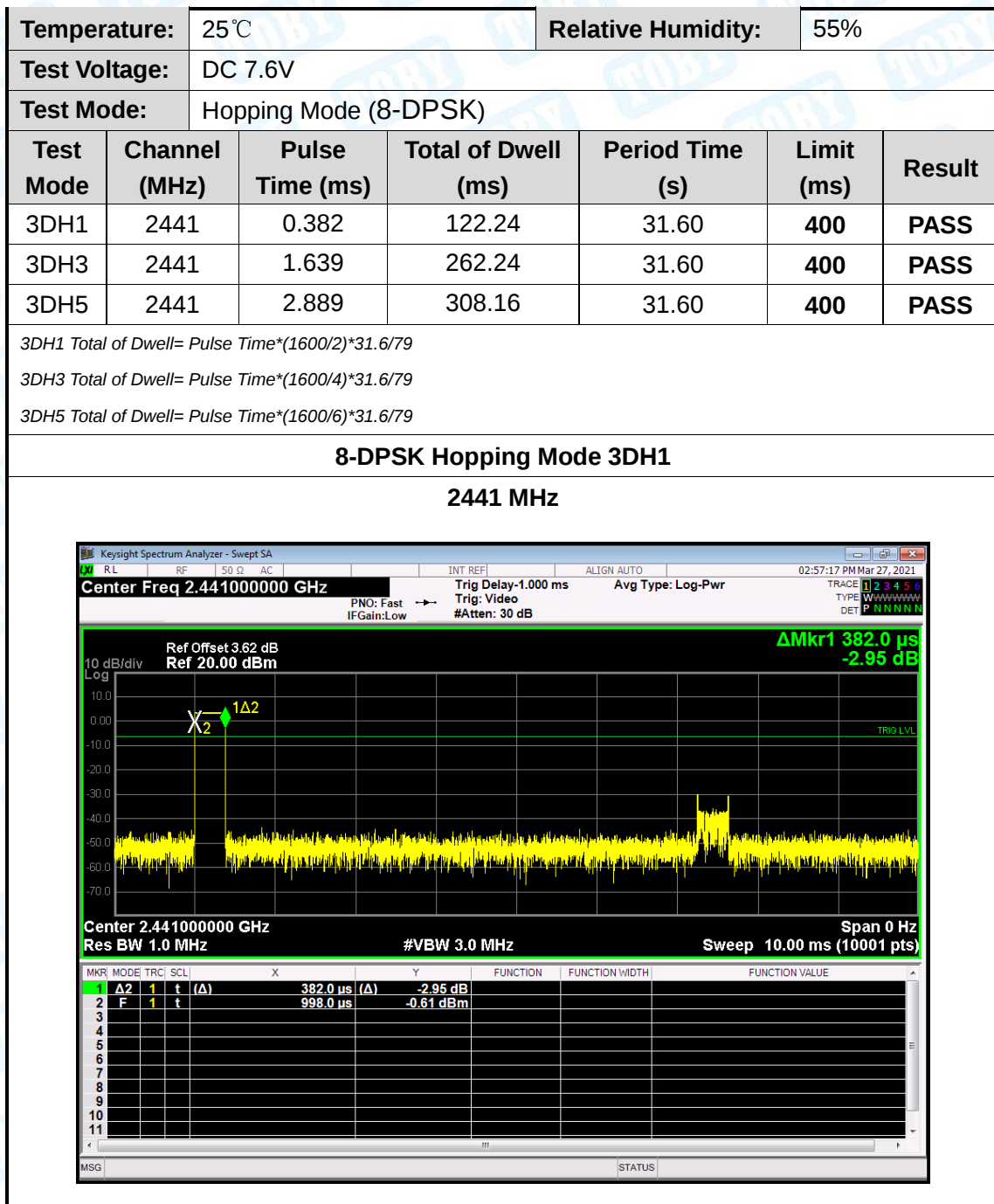
2441 MHz



$\pi/4$ -DQPSK Hopping Mode 2DH5

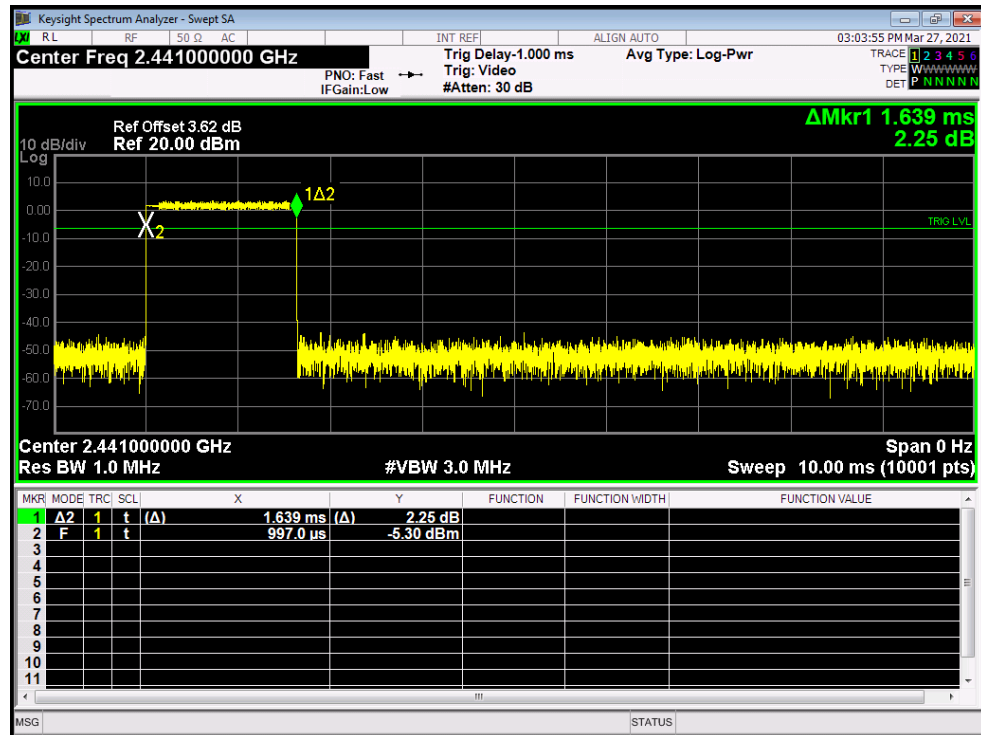
2441 MHz





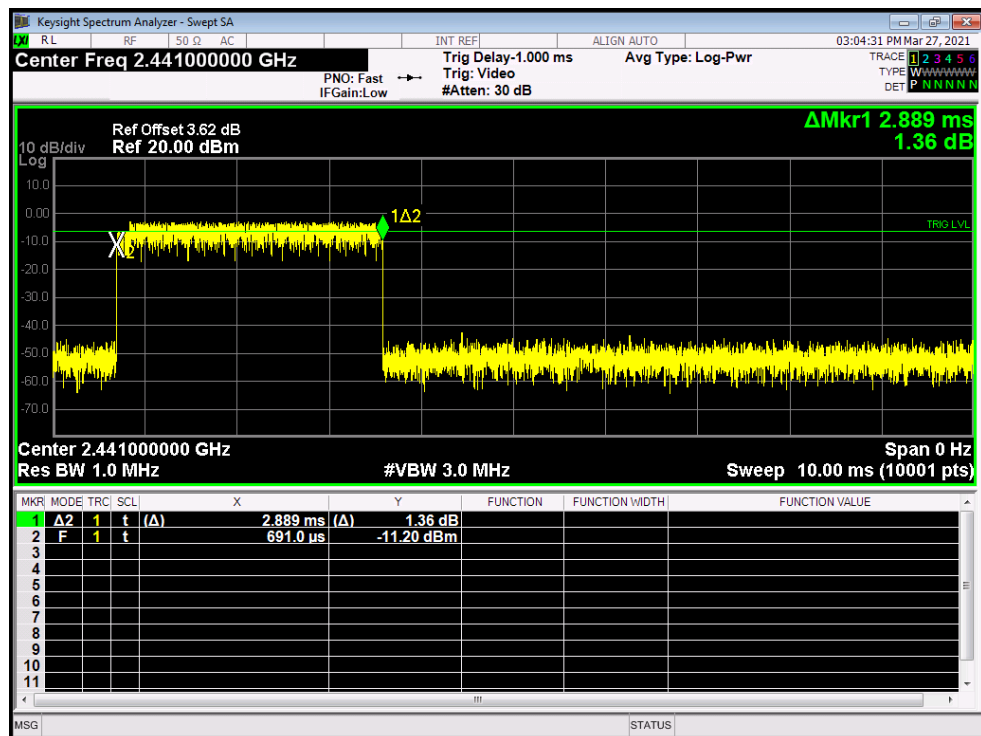
### 8-DPSK Hopping Mode 3DH3

2441 MHz



### 8-DPSK Hopping Mode 3DH5

2441 MHz

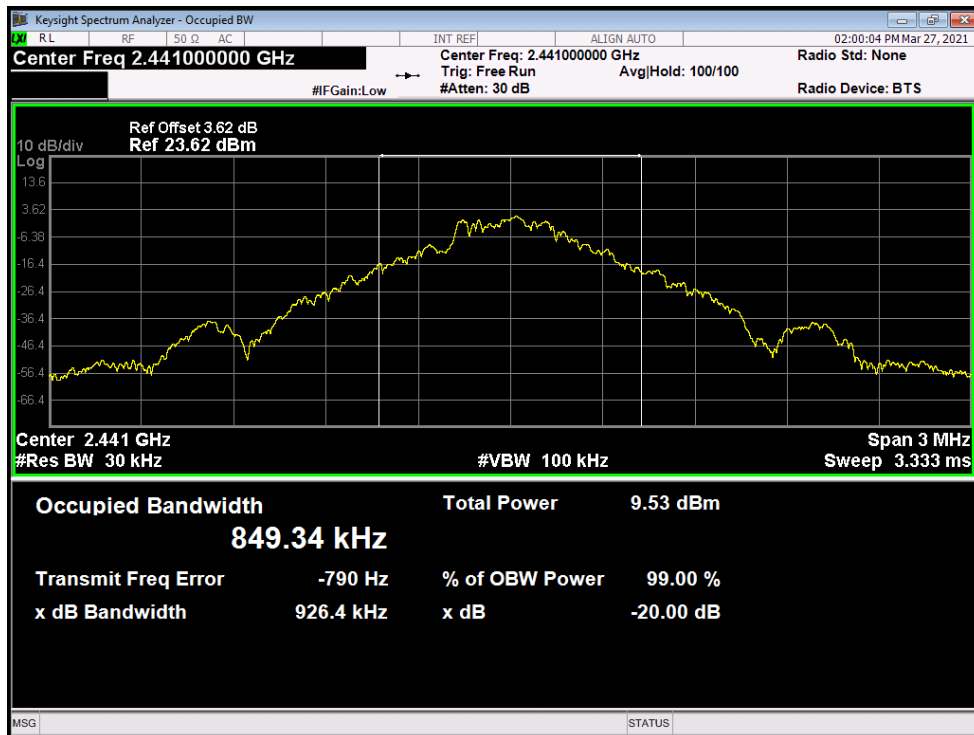


# Attachment F-- Channel Separation and Bandwidth Test Data

| Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 25°C           | Relative Humidity:   | 55%                       |                    |            |             |          |                     |           |                |         |                |           |      |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------|---------------------------|--------------------|------------|-------------|----------|---------------------|-----------|----------------|---------|----------------|-----------|------|-----------|
| Test Voltage:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DC 7.6V        |                      |                           |                    |            |             |          |                     |           |                |         |                |           |      |           |
| Test Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TX Mode (GFSK) |                      |                           |                    |            |             |          |                     |           |                |         |                |           |      |           |
| Channel frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 99% OBW (kHz)  | 20dB Bandwidth (kHz) | 20dB Bandwidth *2/3 (kHz) |                    |            |             |          |                     |           |                |         |                |           |      |           |
| 2402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 856.98         | 934.0                |                           |                    |            |             |          |                     |           |                |         |                |           |      |           |
| 2441                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 849.34         | 926.4                |                           |                    |            |             |          |                     |           |                |         |                |           |      |           |
| 2480                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 847.91         | 860.7                |                           |                    |            |             |          |                     |           |                |         |                |           |      |           |
| GFSK TX Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                      |                           |                    |            |             |          |                     |           |                |         |                |           |      |           |
| 2402 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                      |                           |                    |            |             |          |                     |           |                |         |                |           |      |           |
| <p>Keysight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.402000000 GHz</p> <p>Ref Offset 3.66 dB<br/>Ref 23.66 dBm</p> <p>Center 2.402 GHz<br/>#Res BW 30 kHz</p> <p>Span 3 MHz<br/>Sweep 3.333 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td><td>856.98 kHz</td><td>Total Power</td><td>10.4 dBm</td></tr> <tr> <td>Transmit Freq Error</td><td>3.182 kHz</td><td>% of OBW Power</td><td>99.00 %</td></tr> <tr> <td>x dB Bandwidth</td><td>934.0 kHz</td><td>x dB</td><td>-20.00 dB</td></tr> </table> |                |                      |                           | Occupied Bandwidth | 856.98 kHz | Total Power | 10.4 dBm | Transmit Freq Error | 3.182 kHz | % of OBW Power | 99.00 % | x dB Bandwidth | 934.0 kHz | x dB | -20.00 dB |
| Occupied Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 856.98 kHz     | Total Power          | 10.4 dBm                  |                    |            |             |          |                     |           |                |         |                |           |      |           |
| Transmit Freq Error                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.182 kHz      | % of OBW Power       | 99.00 %                   |                    |            |             |          |                     |           |                |         |                |           |      |           |
| x dB Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 934.0 kHz      | x dB                 | -20.00 dB                 |                    |            |             |          |                     |           |                |         |                |           |      |           |

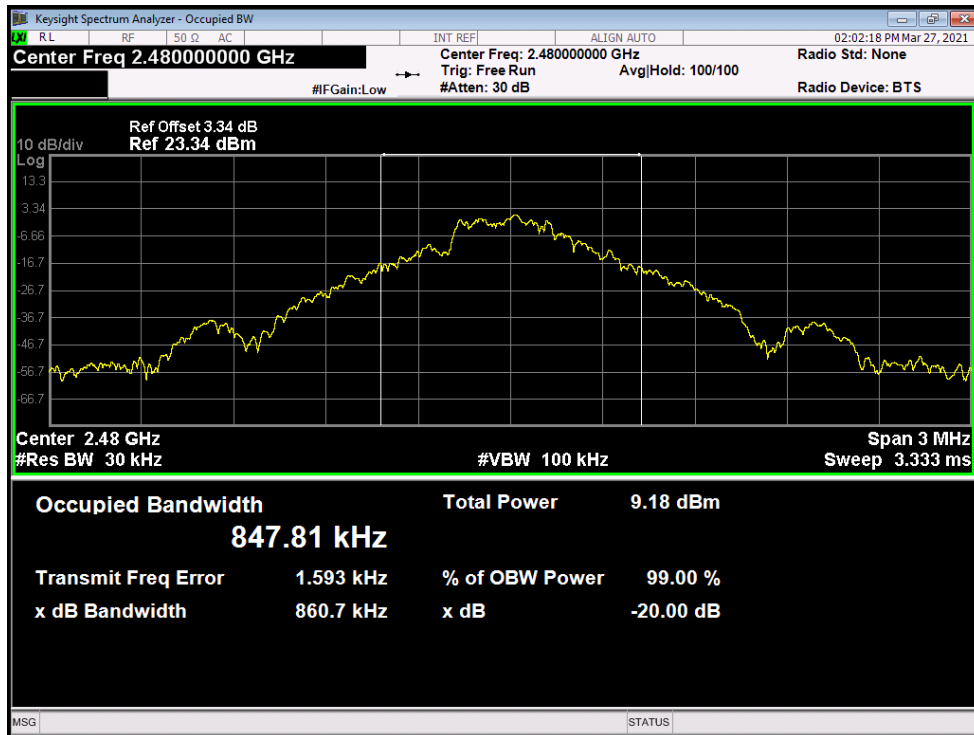
### GFSK TX Mode

2441 MHz



### GFSK TX Mode

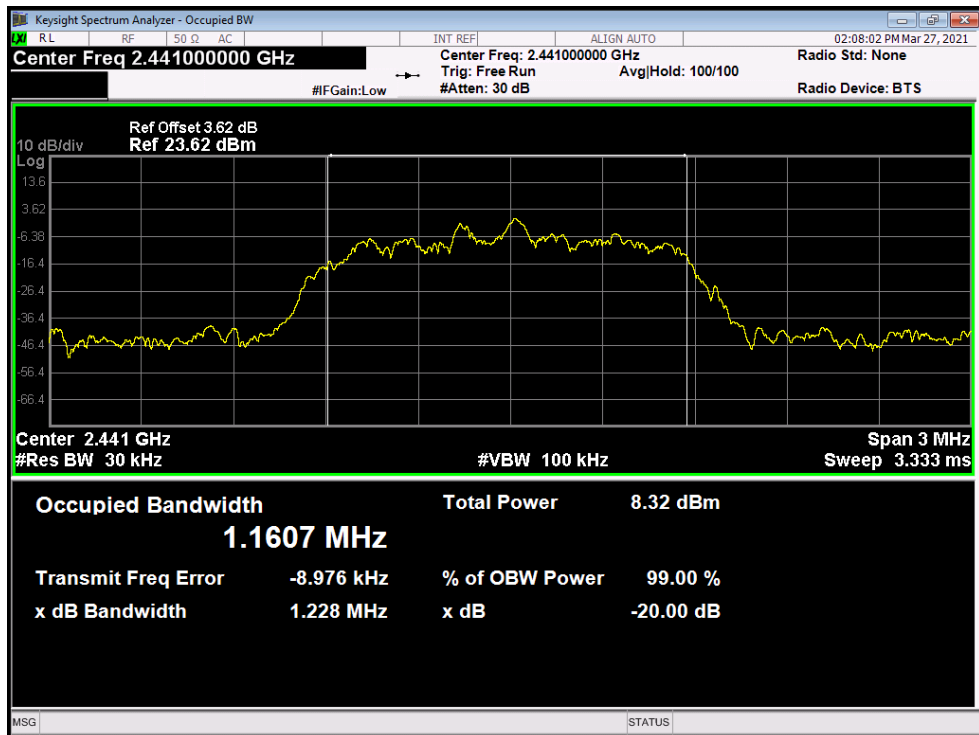
2480 MHz



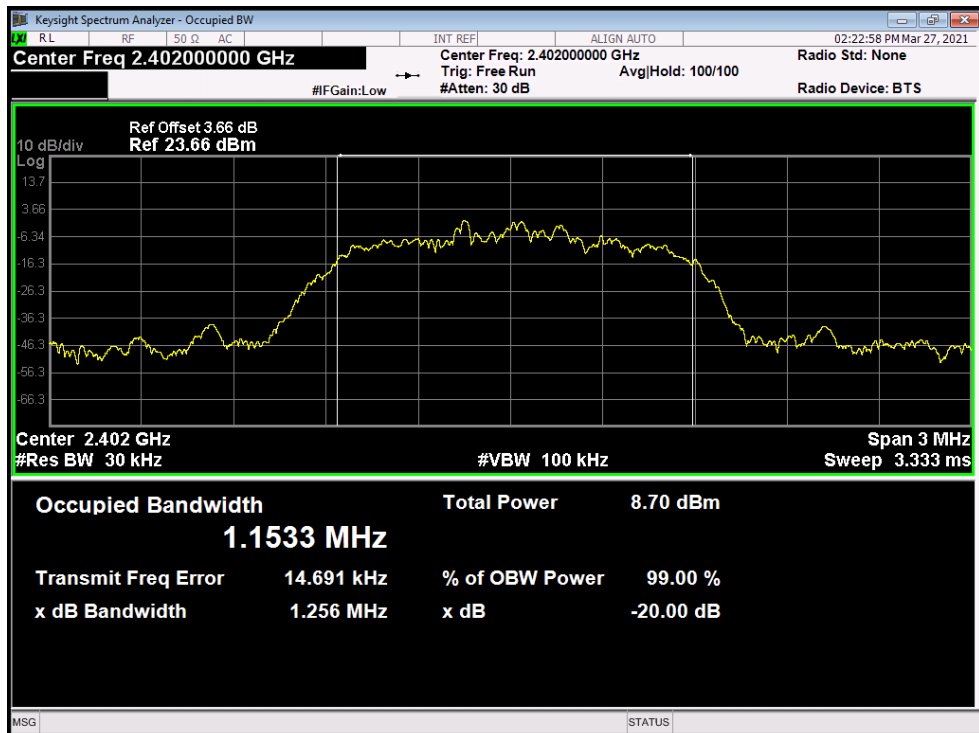
| Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 25℃                       | Relative Humidity:   | 55%                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|---------------------------|
| Test Voltage:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DC 7.6V                   |                      |                           |
| Test Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TX Mode ( $\pi$ /4-DQPSK) |                      |                           |
| Channel frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 99% OBW (kHz)             | 20dB Bandwidth (kHz) | 20dB Bandwidth *2/3 (kHz) |
| 2402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1164.6                    | 1244                 | 829.33                    |
| 2441                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1160.7                    | 1228                 | 816.67                    |
| 2480                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1153.3                    | 1256                 | 837.33                    |
| $\pi$ /4-DQPSK TX Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                      |                           |
| 2402 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |                      |                           |
| <div> <div> <div>Keysight Spectrum Analyzer - Occupied BW</div> <div> <div>RL</div> <div>RF</div> <div>50 <math>\Omega</math></div> <div>AC</div> </div> <div>INT REF</div> <div>ALIGN AUTO</div> <div>02:04:32 PM Mar 27, 2021</div> </div> <div> <div>Center Freq 2.402000000 GHz</div> <div>Center Freq: 2.402000000 GHz</div> <div>Trig: Free Run</div> <div>Avg Hold: 100/100</div> <div>Radio Std: None</div> </div> <div> <div>#FGain: Low</div> <div>#Atten: 30 dB</div> <div>Radio Device: BTS</div> </div> <div> <div>10 dB/div</div> <div>Log</div> <div>Ref Offset 3.66 dB</div> <div>Ref 23.66 dBm</div> </div> <div> <div>Center 2.402 GHz</div> <div>#Res BW 30 kHz</div> <div>#VBW 100 kHz</div> <div>Span 3 MHz</div> <div>Sweep 3.333 ms</div> </div> <div> <div>Occupied Bandwidth</div> <div>1.1646 MHz</div> <div>Total Power</div> <div>8.57 dBm</div> </div> <div> <div>Transmit Freq Error</div> <div>-691 Hz</div> <div>% of OBW Power</div> <div>99.00 %</div> </div> <div> <div>x dB Bandwidth</div> <div>1.244 MHz</div> <div>x dB</div> <div>-20.00 dB</div> </div> </div> <div> <div>MSG</div> <div>STATUS</div> </div> |                           |                      |                           |

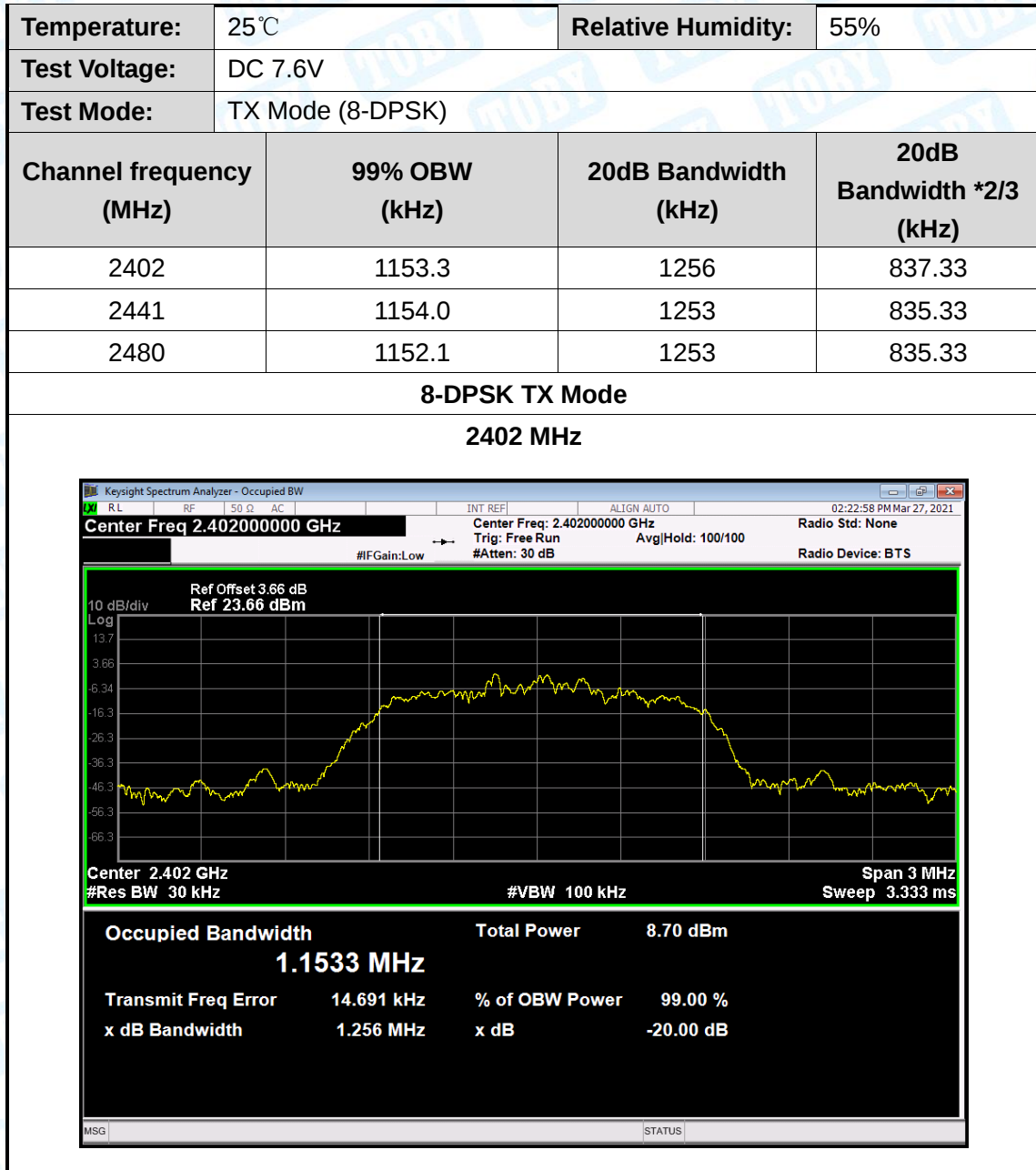
$\pi$  /4-DQPSK TX Mode

2441 MHz

 $\pi$  /4-DQPSK TX Mode

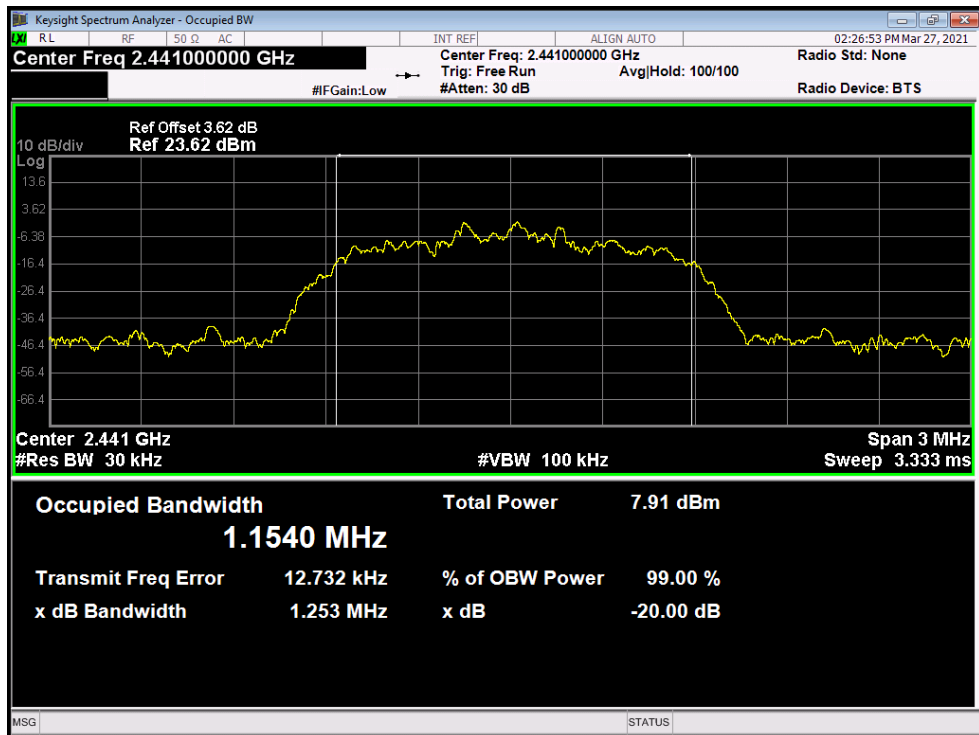
2480 MHz





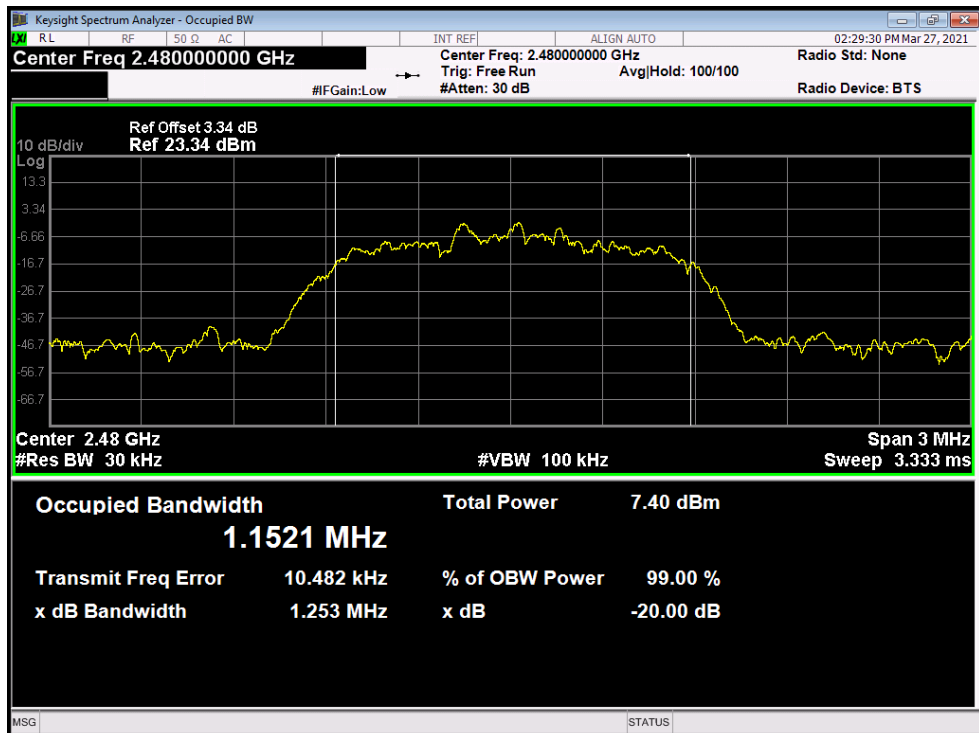
## 8-DPSK TX Mode

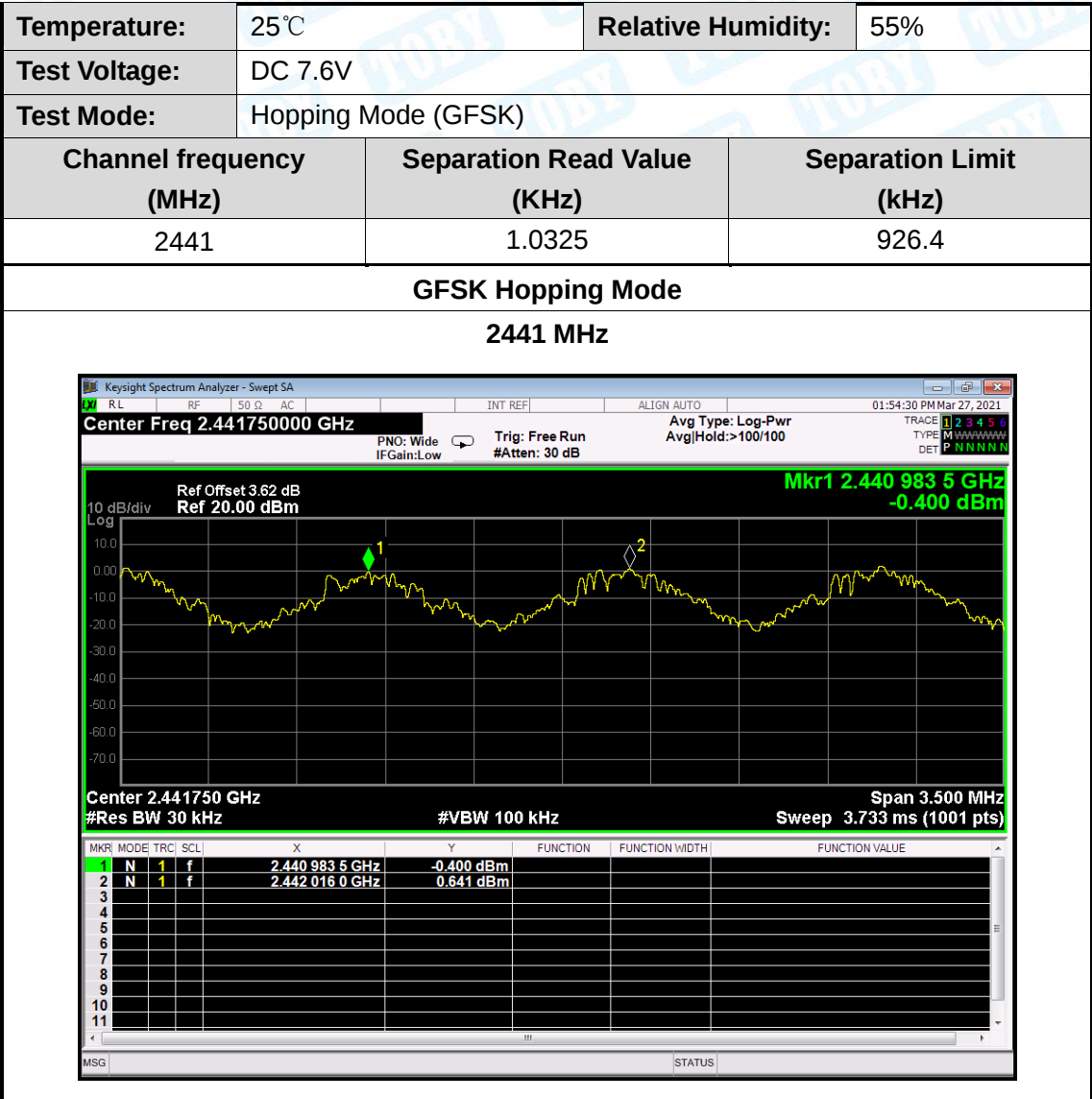
2441 MHz



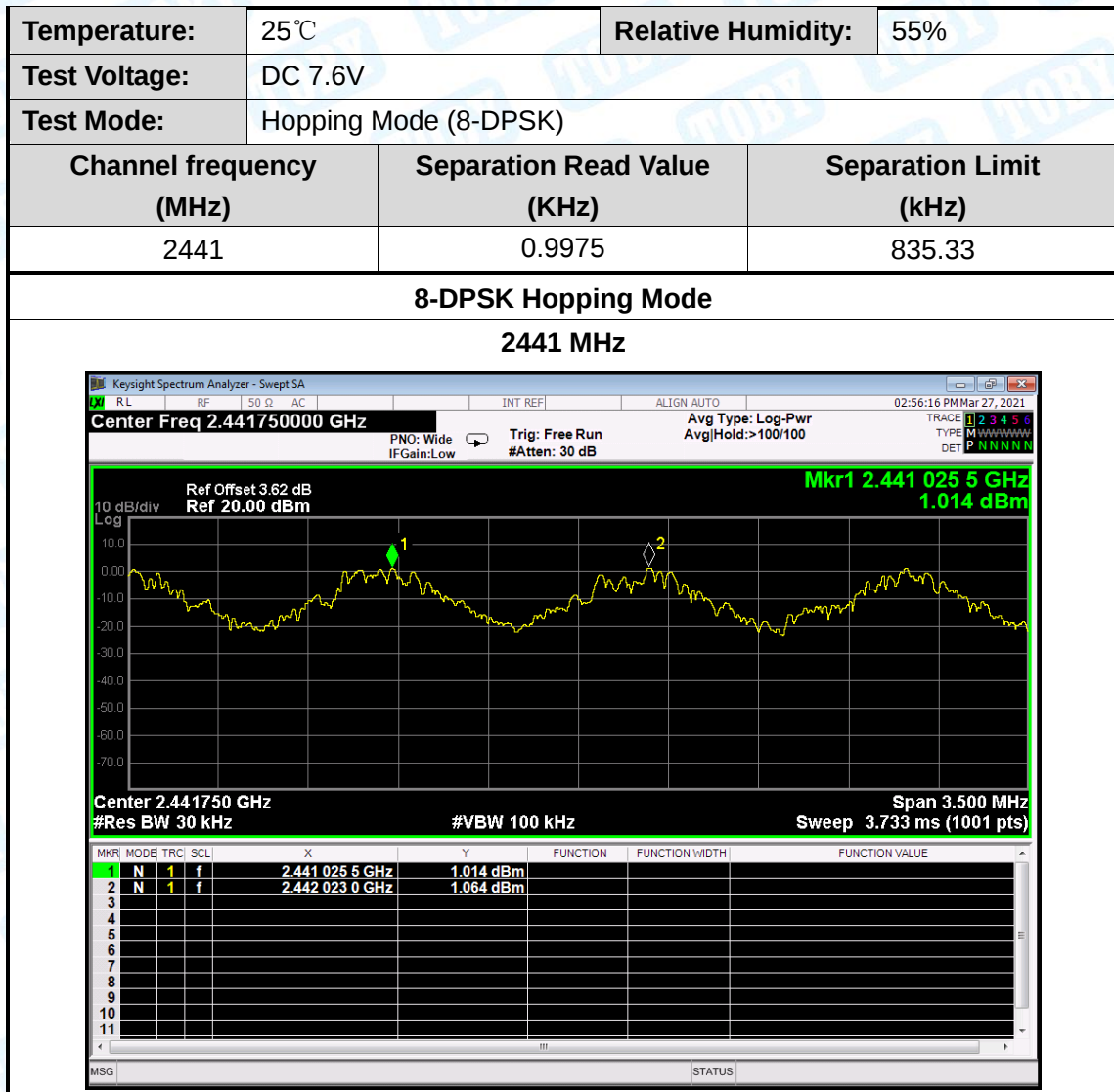
## 8-DPSK TX Mode

2480 MHz









## Attachment G-- Peak Output Power Test Data

|                         |                   |                    |     |
|-------------------------|-------------------|--------------------|-----|
| Temperature:            | 25℃               | Relative Humidity: | 55% |
| Test Voltage:           | DC 7.6V           |                    |     |
| Test Mode:              | TX Mode (GFSK)    |                    |     |
| Channel frequency (MHz) | Test Result (dBm) | Limit (dBm)        |     |
| 2402                    | 4.140             | 21                 |     |
| 2441                    | 3.203             |                    |     |
| 2480                    | 2.880             |                    |     |
| GFSK TX Mode            |                   |                    |     |
| 2402 MHz                |                   |                    |     |

Keysight Spectrum Analyzer - Swept SA

RL

RF

50 Ω

AC

INT REF

ALIGN AUTO

01:49:48 PM Mar 27, 2021

Center Freq 2.40200000 GHz

PNO: Fast

IFGain: Low

Trig: Free Run

#Atten: 30 dB

Avg Type: Log-Pwr

Avg/Hold: 100/100

TRACE 1 2 3 4 5 6

TYPE M W W W W W W W

DET P N N N N N N

10 dB/div

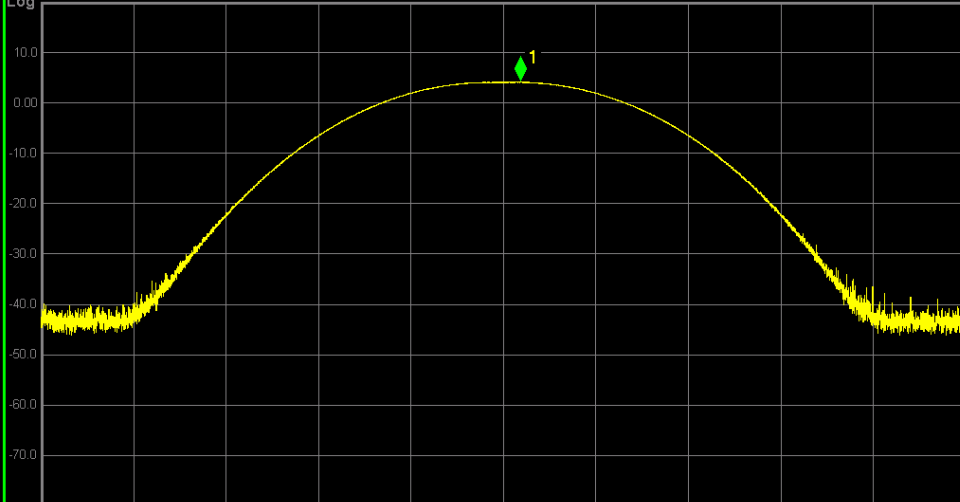
Log

Ref Offset 3.66 dB

Ref 20.00 dBm

Mkr1 2.402183 GHz

4.140 dBm



Center 2.402000 GHz

#Res BW 2.0 MHz

#VBW 6.0 MHz

Span 10.00 MHz

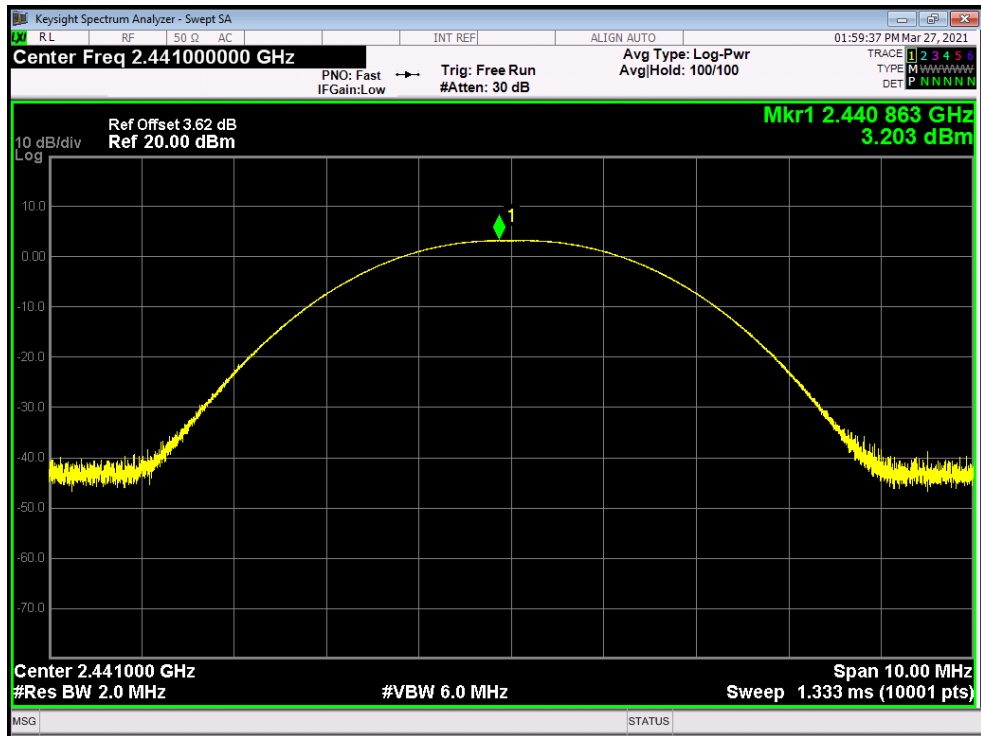
Sweep 1.333 ms (10001 pts)

MSG

STATUS

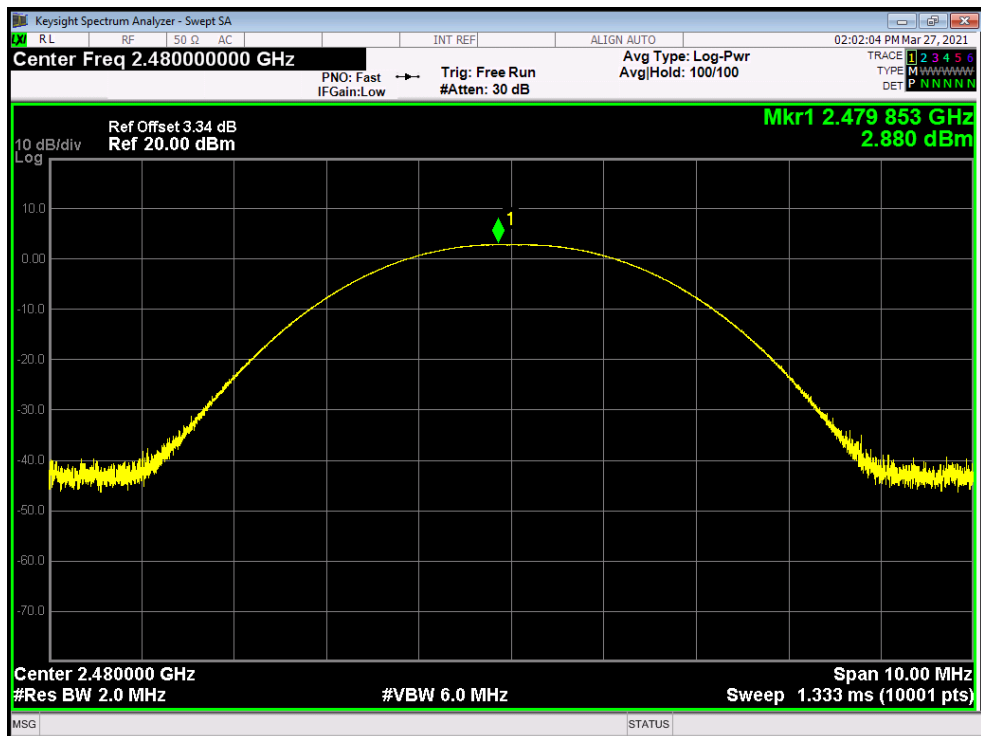
# GFSK TX Mode

2441 MHz



# GFSK TX Mode

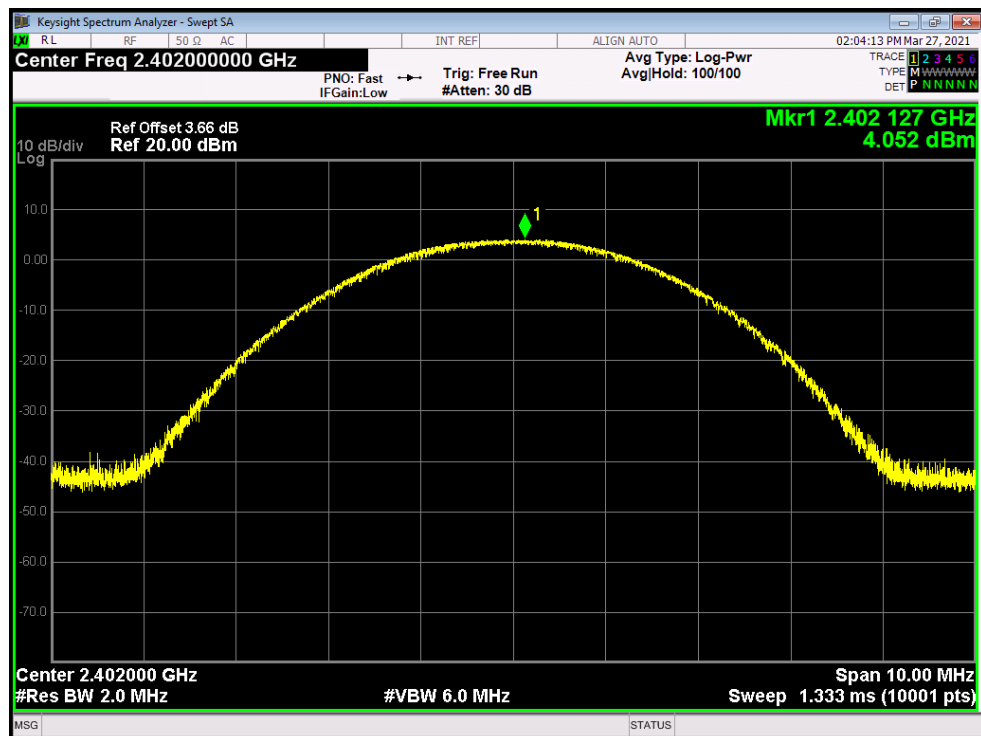
2480 MHz



|                                |                          |                           |     |
|--------------------------------|--------------------------|---------------------------|-----|
| <b>Temperature:</b>            | 25℃                      | <b>Relative Humidity:</b> | 55% |
| <b>Test Voltage:</b>           | DC 7.6V                  |                           |     |
| <b>Test Mode:</b>              | TX Mode (π /4-DQPSK)     |                           |     |
| <b>Channel frequency (MHz)</b> | <b>Test Result (dBm)</b> | <b>Limit (dBm)</b>        |     |
| 2402                           | 4.052                    | <b>21</b>                 |     |
| 2441                           | 3.361                    |                           |     |
| 2480                           | 2.701                    |                           |     |

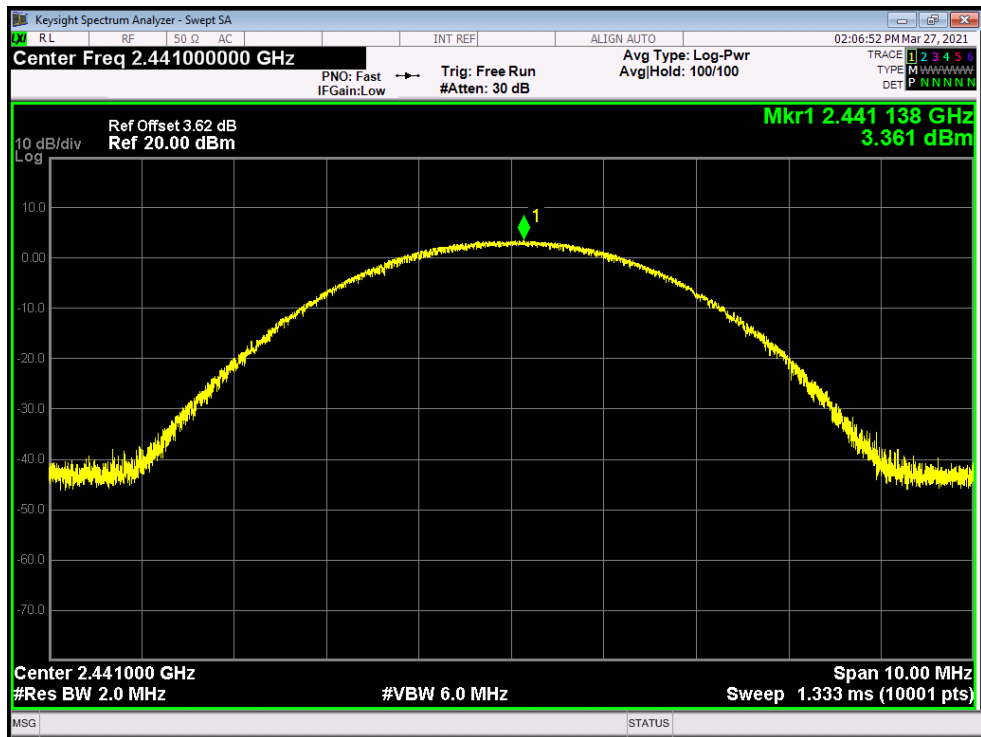
### $\pi/4$ -DQPSK TX Mode

**2402 MHz**



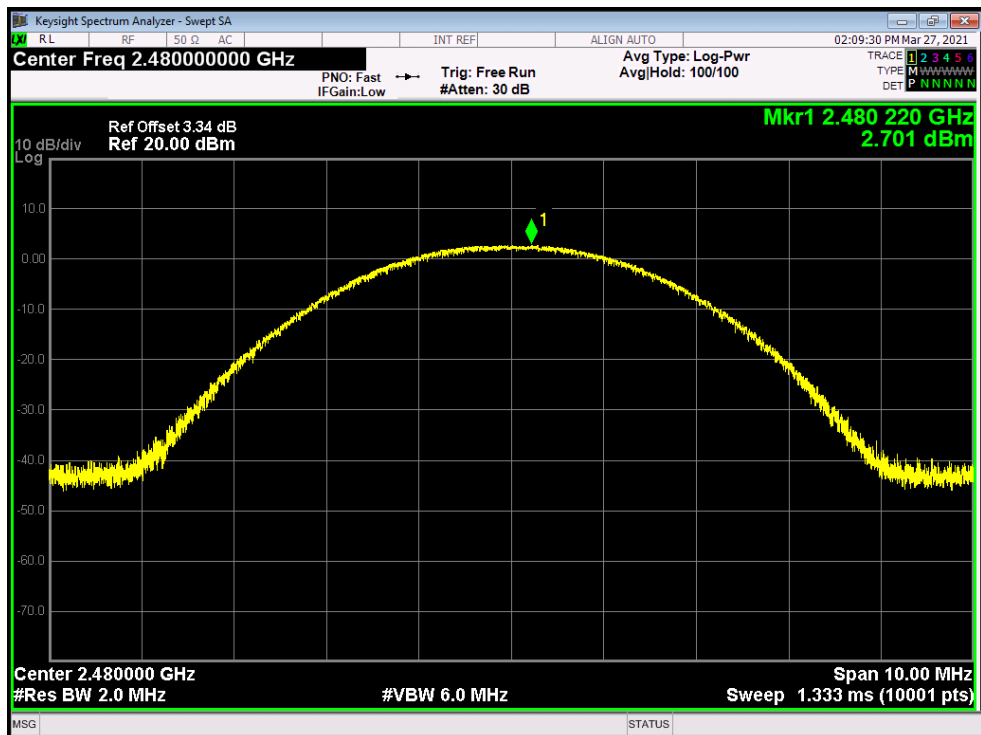
$\pi$  /4-DQPSK TX Mode

2441 MHz



$\pi$  /4-DQPSK TX Mode

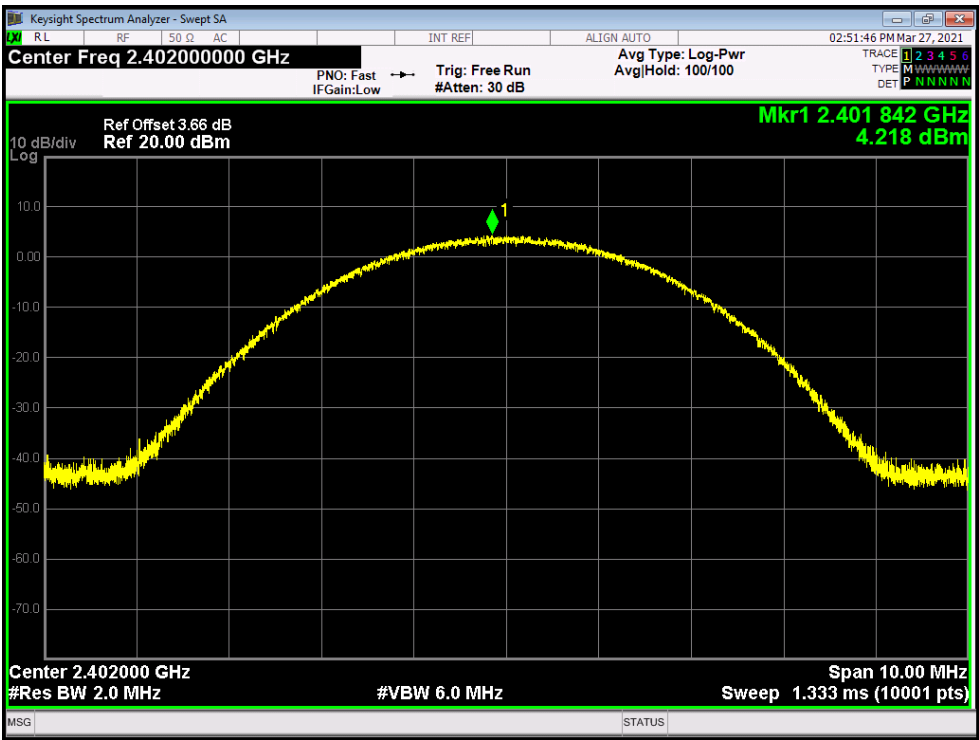
2480 MHz



| Temperature:            | 25℃               | Relative Humidity: | 55% |
|-------------------------|-------------------|--------------------|-----|
| Test Voltage:           | DC 7.6V           |                    |     |
| Test Mode:              | TX Mode (8-DPSK)  |                    |     |
| Channel frequency (MHz) | Test Result (dBm) | Limit (dBm)        |     |
| 2402                    | 4.218             | 21                 |     |
| 2441                    | 3.501             |                    |     |
| 2480                    | 2.894             |                    |     |

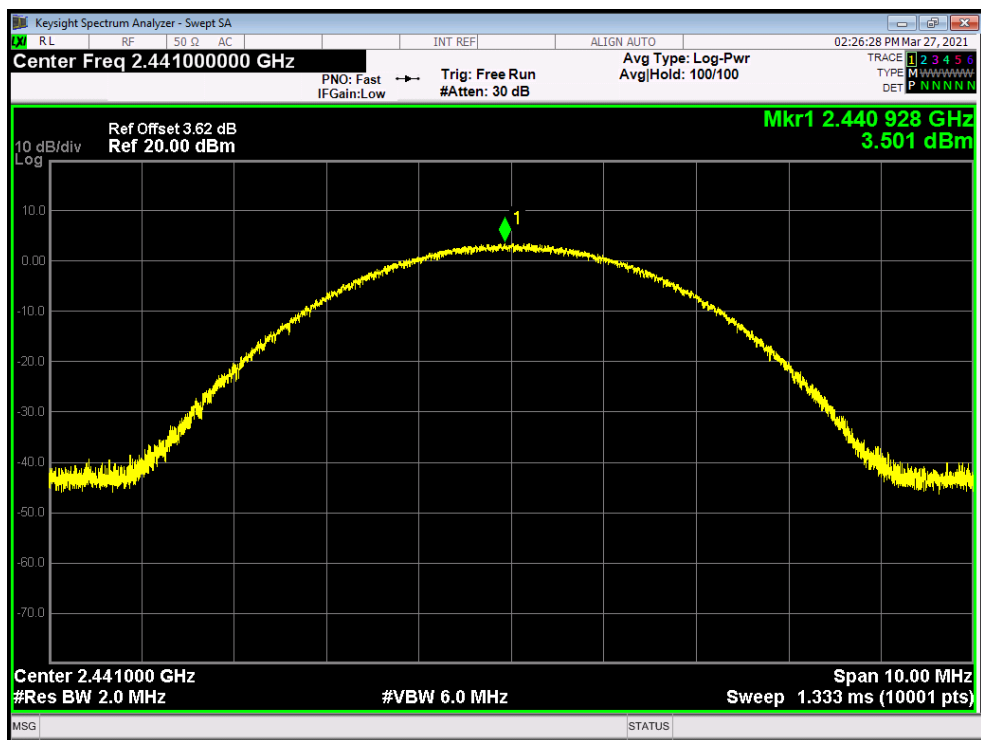
8-DPSK TX Mode

2402 MHz



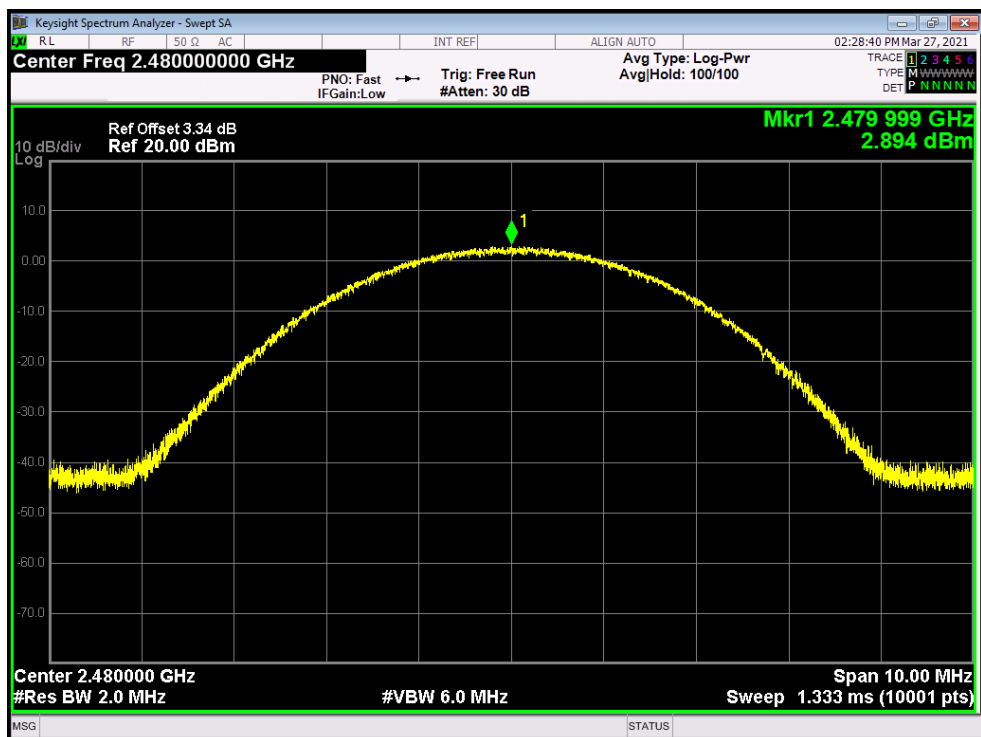
### 8-DPSK TX Mode

2441 MHz



### 8-DPSK TX Mode

2480 MHz



-----END OF REPORT-----