

FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

Deeprio ApS

Deeprio FlowBuds Sport

Model Number: DK001

FCC ID: 2A3A6-DK001L

|               |                                                                     |
|---------------|---------------------------------------------------------------------|
| Prepared for: | Deeprio ApS                                                         |
|               | Fruebjergvej 3, 2100 Copenhagen, Denmark                            |
|               |                                                                     |
| Prepared By:  | EST Technology Co., Ltd.                                            |
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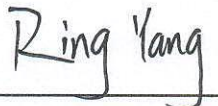
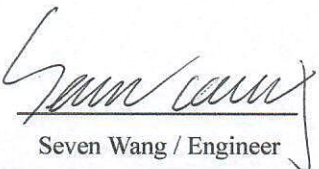
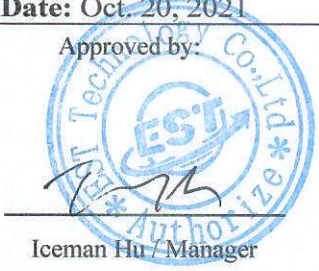
|                 |                       |
|-----------------|-----------------------|
| Report Number:  | ESTE-R2110082         |
| Date of Test:   | Sep. 26~Oct. 19, 2021 |
| Date of Report: | Oct. 20, 2021         |

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## EST Technology Co., Ltd.

|                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                              |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>Applicant:</b>                                                                                                                                                                                        | Deeprio ApS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                              |                       |
| <b>Address:</b>                                                                                                                                                                                          | Fruebjergvej 3, 2100 Copenhagen, Denmark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                              |                       |
| <b>Manufacturer:</b>                                                                                                                                                                                     | Deeprio ApS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                              |                       |
| <b>Address:</b>                                                                                                                                                                                          | Fruebjergvej 3, 2100 Copenhagen, Denmark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                              |                       |
| <b>E.U.T:</b>                                                                                                                                                                                            | Deeprio FlowBuds Sport                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                              |                       |
| <b>Model Number:</b>                                                                                                                                                                                     | DK001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                              |                       |
| <b>Power Supply:</b>                                                                                                                                                                                     | Input: DC 5V, Battery Inside:3.7V<br>By Charging Case Input 5V DC 1A, Battery Inside:3.7V                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                              |                       |
| <b>Trade Name:</b>                                                                                                                                                                                       | Deeprio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Serial No.:</b>                                                                                           | -----                 |
| <b>Date of Receipt:</b>                                                                                                                                                                                  | Sep. 26, 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Date of Test:</b>                                                                                         | Sep. 26~Oct. 19, 2021 |
| <b>Test Specification:</b>                                                                                                                                                                               | FCC Part 15 Subpart C (15.247)<br>ANSI C63.10:2013<br>FCC KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                              |                       |
| <b>Test Result:</b>                                                                                                                                                                                      | <p>The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p> |                                                                                                              |                       |
|                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Date:</b> Oct. 20, 2021                                                                                   |                       |
| <b>Prepared by:</b>                                                                                                                                                                                      | <b>Reviewed by:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Approved by:</b>                                                                                          |                       |
| <br>Ring Yang / Assistant                                                                                             | <br>Seven Wang / Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                  | <br>Iceman Hu / Manager |                       |
| <b>Other Aspects:</b>                                                                                                                                                                                    | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                              |                       |
| <i>Abbreviations: OK/P=passed    fail/F=failed    n.a/N=not applicable    E.U.T=equipment under tested</i>                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                              |                       |
| <i>This test report is based on a single evaluation of one sample of above mentioned products, It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                              |                       |

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

|                         |   |                                                                               |
|-------------------------|---|-------------------------------------------------------------------------------|
| Product Name            | : | Deeprio FlowBuds Sport                                                        |
| Model Number            | : | DK001                                                                         |
| Software Version        | : | V1.0                                                                          |
| Hardware Version        | : | V1.0                                                                          |
| Operation frequency     | : | 2402MHz~2480MHz                                                               |
| Number of channel       | : | 79                                                                            |
| Max Output Power (PEAK) | : | 8-DPSK : 6.48dBm                                                              |
| Modulation Type         | : | BT BDR(1Mbps): GFSK<br>BT EDR(2Mbps): $\pi/4$ -DQPSK<br>BT EDR(3Mbps): 8-DPSK |
| Sample Type             | : | Prototype production                                                          |

Note:

For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

### 1.2. Antenna Information

| Ant No. | Brand | Model Name | Antenna Type     | Connector | Gain (dBi) |
|---------|-------|------------|------------------|-----------|------------|
| 1       | -     | -          | Internal antenna | -         | 0          |

## 2. SUMMARY OF TEST

### 2.1. Summary of test result

| Report Section | Description of Test Item                  | FCC Standard Section          | Results |
|----------------|-------------------------------------------|-------------------------------|---------|
| 3              | Maximum Peak Output Power                 | 15.247(a)(1)                  | PASS    |
| 4              | 20dB Bandwidth                            | 15.247(a)(1)                  | PASS    |
| 5              | Carrier Frequency Separation              | 15.247(a)(1)                  | PASS    |
| 6              | Number Of Hopping Channel                 | 15.247(a)(1)(iii)             | PASS    |
| 7              | Dwell Time                                | 15.247(a)(1)(iii)             | PASS    |
| 8              | Conducted Band Edge                       | 15.247(d)                     | PASS    |
| 9              | Conducted Spurious Emissions              | 15.247(d)                     | PASS    |
| 10             | Radiated Spurious Emissions and Band Edge | 15.205<br>15.209<br>15.247(d) | PASS    |
| 11             | AC Power Line Conducted Emissions         | 15.207                        | N/A     |
| 12             | Antenna Requirement                       | 15.203                        | PASS    |

Note:

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

## 2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA  
Registration No.: L5288  
This Certificate is valid until: November 12, 2023

Certificated by FCC, USA  
Designation Number: CN1215  
This Certificate is valid until: January 31, 2022

Certificated by A2LA, USA  
Registration No.: 4366.01  
This Certificate is valid until: January 31, 2022

Certificated by Industry Canada  
CAB identifier No.: CN0035  
This Certificate is valid until: January 31, 2022

Certificated by VCCI, Japan  
Registration No.: C-14103; T-20073; R-13663;  
R-20103; G-20097  
Date of registration: Apr. 20, 2020  
This Certificate is valid until: Apr. 19, 2023

Certificated by TUV Rheinland, Germany  
Registration No.: UA 50413872 0001  
Date of registration: July 31, 2018

Certificated by Intertek  
Registration No.: 2011-RTL-L2-64  
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

### 2.3. Measurement uncertainty

| Test Item                                                  | Uncertainty                       |
|------------------------------------------------------------|-----------------------------------|
| Uncertainty for Conduction emission test                   | $\pm 3.48\text{dB}$               |
| Uncertainty for spurious emissions test<br>(30MHz-1GHz)    | $\pm 4.60\text{ dB(Polarize: H)}$ |
|                                                            | $\pm 4.68\text{ dB(Polarize: V)}$ |
| Uncertainty for spurious emissions test<br>(1GHz to 25GHz) | $\pm 4.96\text{dB}$               |
| Uncertainty for radio frequency                            | $7 \times 10^{-8}$                |
| Uncertainty for conducted RF Power                         | $1.08\text{dB}$                   |
| Uncertainty for Power density test                         | $0.26\text{dB}$                   |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

### 2.4. Assistant equipment used for test

| Item | Equipment | Brand | Model Name/Type No. | FCC ID | Series No. |
|------|-----------|-------|---------------------|--------|------------|
| -    | -         | -     | -                   | -      | -          |

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

### 2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was beset into Bluetooth test mode by software before test.



(EUT: Deeprio FlowBuds Sport)

## 2.6. Test mode

Combining all the rates, modulations, and packet types, the Pre-scans had been carried out. The worst case test mode was selected for the final test as listed below.

| Test Item                               | Modulation Type | Operating Mode      | Packet Type | Test Channel                   |
|-----------------------------------------|-----------------|---------------------|-------------|--------------------------------|
| Maximum Peak Output Power               | GFSK&8-DPSK     | Non Hopping         | DH5         | Low/Middle/High                |
| 20dB Bandwidth                          | GFSK&8-DPSK     | Non Hopping         | DH5         | Low/Middle/High                |
| Carrier Frequency Separation            | GFSK&8-DPSK     | Hopping             | DH5         | Low/Middle/High                |
| Number Of Hopping Channel               | GFSK&8-DPSK     | Hopping             | DH5         | All Channel Hopping            |
| Dwell Time                              | GFSK&8-DPSK     | Hopping             | DH1/DH3/DH5 | Middle( All Channel Hopping)   |
| Conducted Band Edge                     | GFSK&8-DPSK     | Non Hopping&Hopping | DH5         | Low/ High& All Channel Hopping |
| Conducted Spurious Emissions            | GFSK&8-DPSK     | Non Hopping         | DH5         | Low/Middle/High                |
| Radiated Spurious Emissions(Below 1GHz) | GFSK&8-DPSK     | Non Hopping         | DH5         | Low/Middle/High                |
| Radiated Spurious Emissions(Above 1GHz) | GFSK&8-DPSK     | Non Hopping         | DH5         | Low/Middle/High                |
| Radiated Band Edge                      | GFSK&8-DPSK     | Non Hopping         | DH5         | Low/High                       |

Note:

1. In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

## 2.7. Channel List

| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 0           | 2402            | 1           | 2403            | 2           | 2404            | 3           | 2405            |
| 4           | 2406            | 5           | 2407            | 6           | 2408            | 7           | 2409            |
| 8           | 2410            | 9           | 2411            | 10          | 2412            | 11          | 2413            |
| 12          | 2414            | 13          | 2415            | 14          | 2416            | 15          | 2417            |
| 16          | 2418            | 17          | 2419            | 18          | 2420            | 19          | 2421            |
| 20          | 2422            | 21          | 2423            | 22          | 2424            | 23          | 2425            |
| 24          | 2426            | 25          | 2427            | 26          | 2428            | 27          | 2429            |
| 28          | 2430            | 29          | 2431            | 30          | 2432            | 31          | 2433            |
| 32          | 2434            | 33          | 2435            | 34          | 2436            | 35          | 2437            |
| 36          | 2438            | 37          | 2439            | 38          | 2440            | 39          | 2441            |
| 40          | 2442            | 41          | 2443            | 42          | 2444            | 43          | 2445            |
| 44          | 2446            | 45          | 2447            | 46          | 2448            | 47          | 2449            |
| 48          | 2450            | 49          | 2451            | 50          | 2452            | 51          | 2453            |
| 52          | 2454            | 53          | 2455            | 54          | 2456            | 55          | 2457            |
| 56          | 2458            | 57          | 2459            | 58          | 2460            | 59          | 2461            |
| 60          | 2462            | 61          | 2463            | 62          | 2464            | 63          | 2465            |
| 64          | 2466            | 65          | 2467            | 66          | 2468            | 67          | 2469            |
| 68          | 2470            | 69          | 2471            | 70          | 2472            | 71          | 2473            |
| 72          | 2474            | 73          | 2475            | 74          | 2476            | 75          | 2477            |
| 76          | 2478            | 77          | 2479            | 78          | 2480            | -           | -               |

## 2.8. Power Setting of Test Software

| Software Name         | FCC_V2.24 |      |      |
|-----------------------|-----------|------|------|
| Frequency(MHz)        | 2402      | 2441 | 2480 |
| GFSK(1Mbps) Setting   | 5         | 5    | 5    |
| 8-DPSK(3Mbps) Setting | 5         | 5    | 5    |

## 2.9. Test Equipment

| For radiated emission test(9 kHz-30MHz) |                 |              |            |                  |            |           |
|-----------------------------------------|-----------------|--------------|------------|------------------|------------|-----------|
| Equipment                               | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
| EMI Test Receiver                       | Rohde & Schwarz | ESR7         | EST-E047   | LISAI            | June 13,21 | 1 Year    |
| Active Loop Antenna                     | SCHWARZB ECK    | FMZB 1519B   | EST-E054   | LISAI            | June 13,21 | 1 Year    |
| Test Software                           | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A       |
| 9kHz-30MHz Cable                        | N/A             | EST-001      | N/A        | N/A              | N/A        | N/A       |

| For radiated emissions test (30-1000MHz) |                 |              |            |                  |            |           |
|------------------------------------------|-----------------|--------------|------------|------------------|------------|-----------|
| Equipment                                | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
| EMI Test Receiver                        | Rohde & Schwarz | ESR7         | EST-E047   | LISAI            | June 13,21 | 1 Year    |
| Bilog Antenna                            | Teseq           | CBL 6111D    | EST-E034   | LISAI            | June 13,21 | 1 Year    |
| Test Software                            | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A       |
| 30-1000MHz Cable                         | N/A             | EST-002      | N/A        | N/A              | N/A        | N/A       |

| For radiated emission test(Above 1000MHz) |                 |              |            |                  |            |           |
|-------------------------------------------|-----------------|--------------|------------|------------------|------------|-----------|
| Equipment                                 | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
| Horn Antenna                              | SCHWARZB ECK    | BBHA9120D    | EST-E031   | LISAI            | June 13,21 | 1 Year    |
| Signal Amplifier                          | SCHWARZB ECK    | BBV9718      | EST-E032   | LISAI            | June 13,21 | 1 Year    |
| Spectrum Analyzer                         | Rohde & Schwarz | FSV40        | EST-E069   | LISAI            | July 19,21 | 1 Year    |
| Test Software                             | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A       |
| Above 1GHz Cable                          | N/A             | EST-003      | N/A        | N/A              | N/A        | N/A       |

| For connect EUT antenna terminal test |                 |           |            |                  |            |           |
|---------------------------------------|-----------------|-----------|------------|------------------|------------|-----------|
| Equipment                             | Manufacturer    | Model No. | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
| Spectrum Analyzer                     | Rohde & Schwarz | FSV40     | EST-E069   | LISAI            | July 19,21 | 1 Year    |

### 3. MAXIMUM PEAK OUTPUT POWER

#### 3.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

#### 3.2. Test Setup



#### 3.3. Spectrum Analyzer Setting

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 3MHz     |
| VBW                 | 3MHz     |
| Span                | 7.5MHz   |
| Sweep Time          | Auto     |
| Detector            | Peak     |
| Trace Mode          | Max Hold |

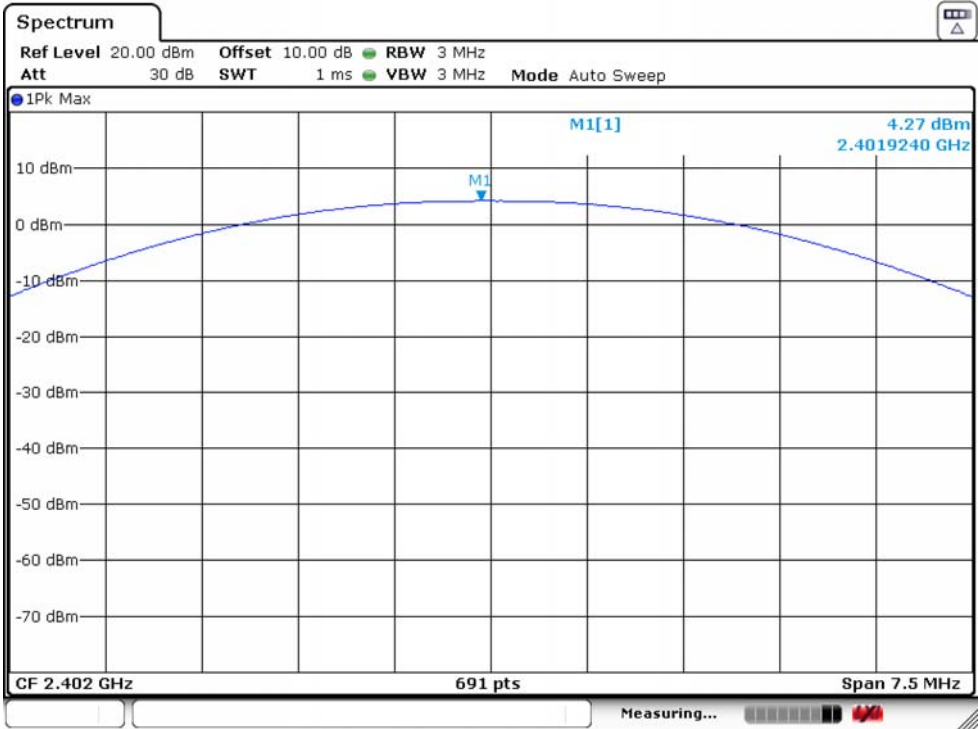
#### 3.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

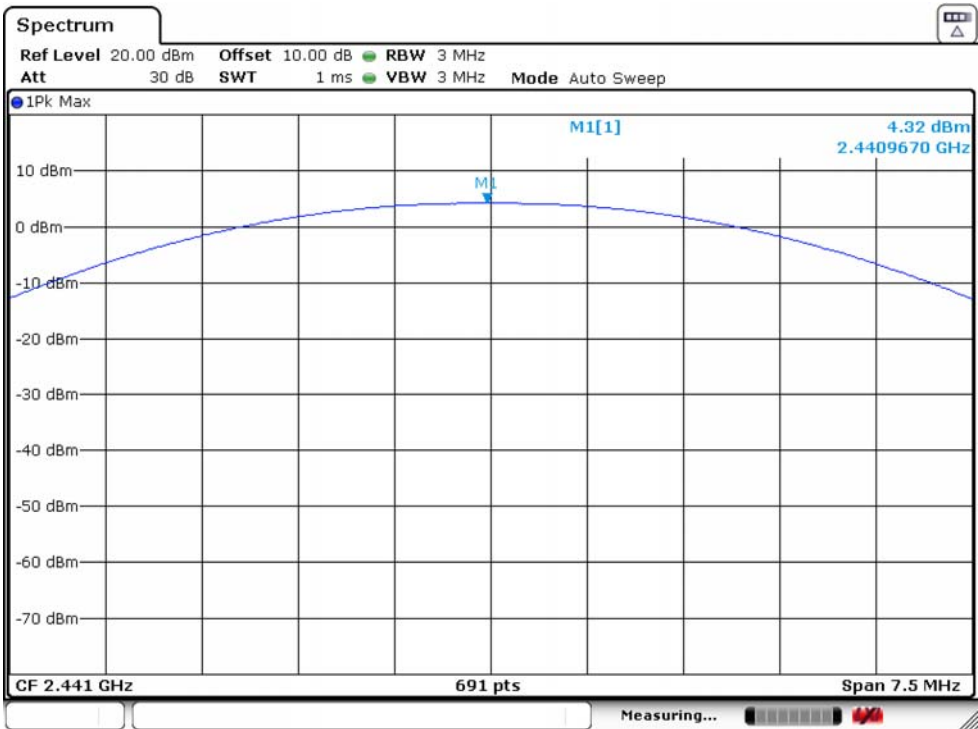
## 3.5. Test Result

| Temperature | 26.4℃      | Relative Humidity | 55%    | Test Voltage |        | DC 3.7V |
|-------------|------------|-------------------|--------|--------------|--------|---------|
| Mode        | Freq (MHz) | Peak Output Power |        | Limit        |        | Result  |
|             |            | dBm               | W      | dBm          | W      |         |
| GFSK        | 2402       | 4.27              | 0.0027 | 20.97        | 0.1250 | PASS    |
|             | 2441       | 4.32              | 0.0027 | 20.97        | 0.1250 | PASS    |
|             | 2480       | 4.14              | 0.0026 | 20.97        | 0.1250 | PASS    |
| 8-DPSK      | 2402       | 6.43              | 0.0044 | 20.97        | 0.1250 | PASS    |
|             | 2441       | 6.48              | 0.0044 | 20.97        | 0.1250 | PASS    |
|             | 2480       | 6.36              | 0.0043 | 20.97        | 0.1250 | PASS    |

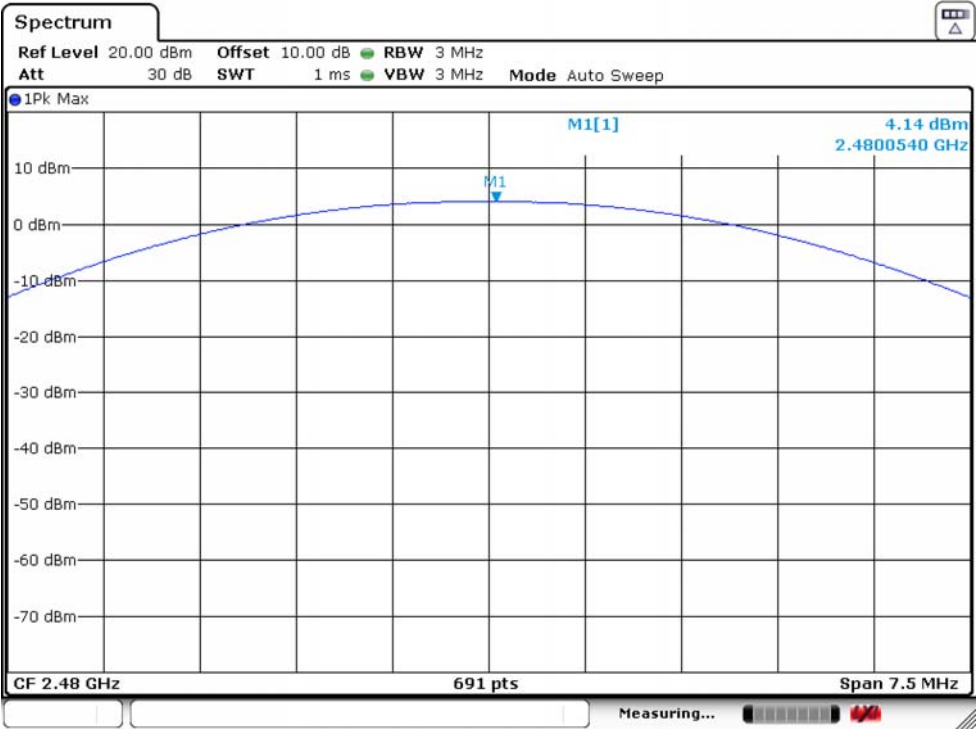
GFSK 2402 MHz



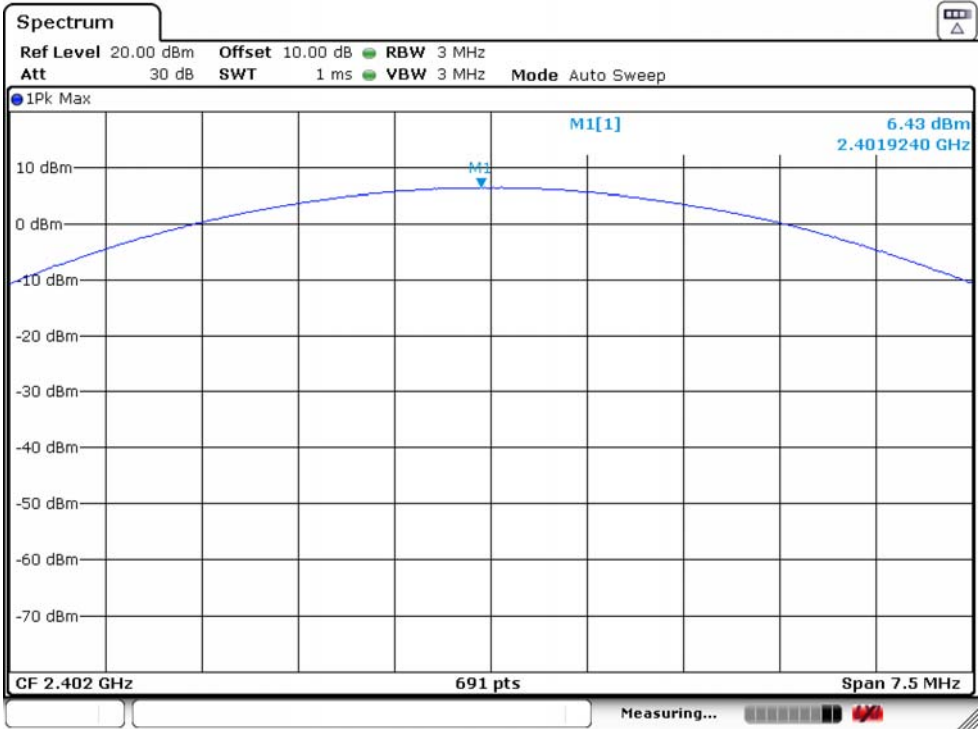
GFSK 2441 MHz



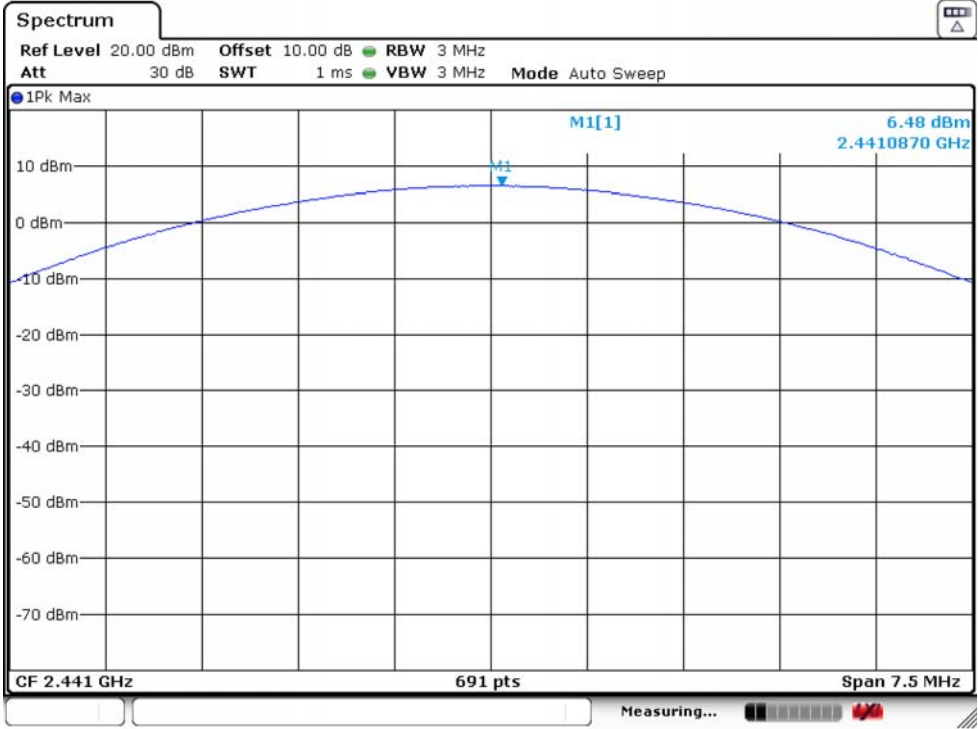
GFSK 2480 MHz



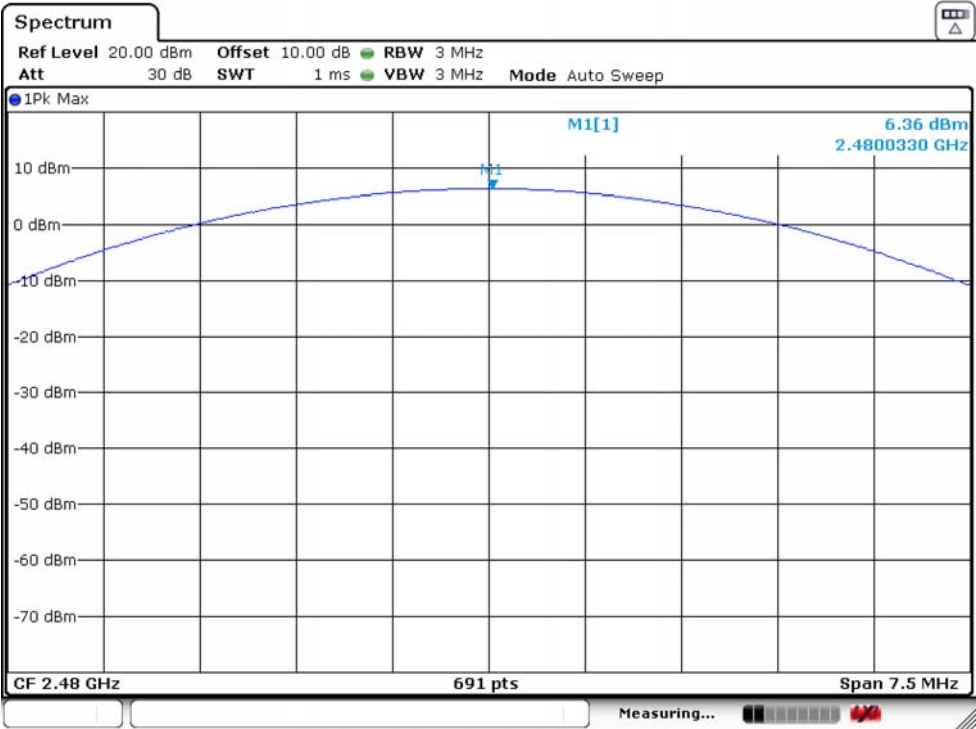
8-DPSK 2402 MHz



8-DPSK 2441 MHz



8-DPSK 2480 MHz

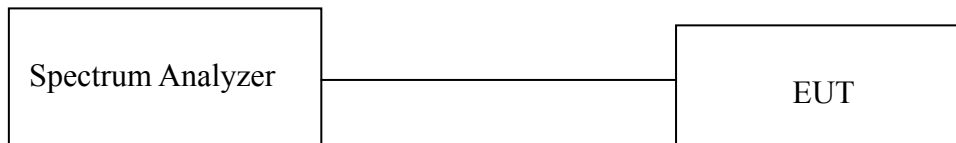


## 4. 20 DB BANDWIDTH

### 4.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

### 4.2. Test Setup



### 4.3. Spectrum Analyzer Setting

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 30KHz    |
| VBW                 | 100KHz   |
| Span                | 3MHz     |
| Sweep Time          | Auto     |
| Detector            | Peak     |
| Trace Mode          | Max Hold |

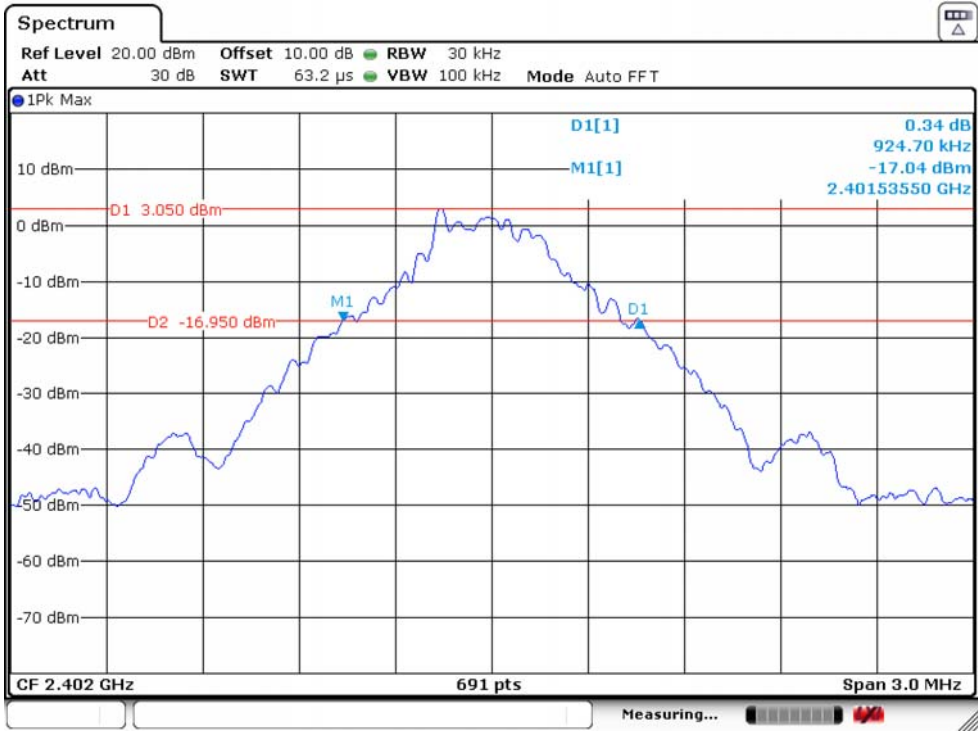
### 4.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the ndB down function to measure 20dB Bandwidth.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

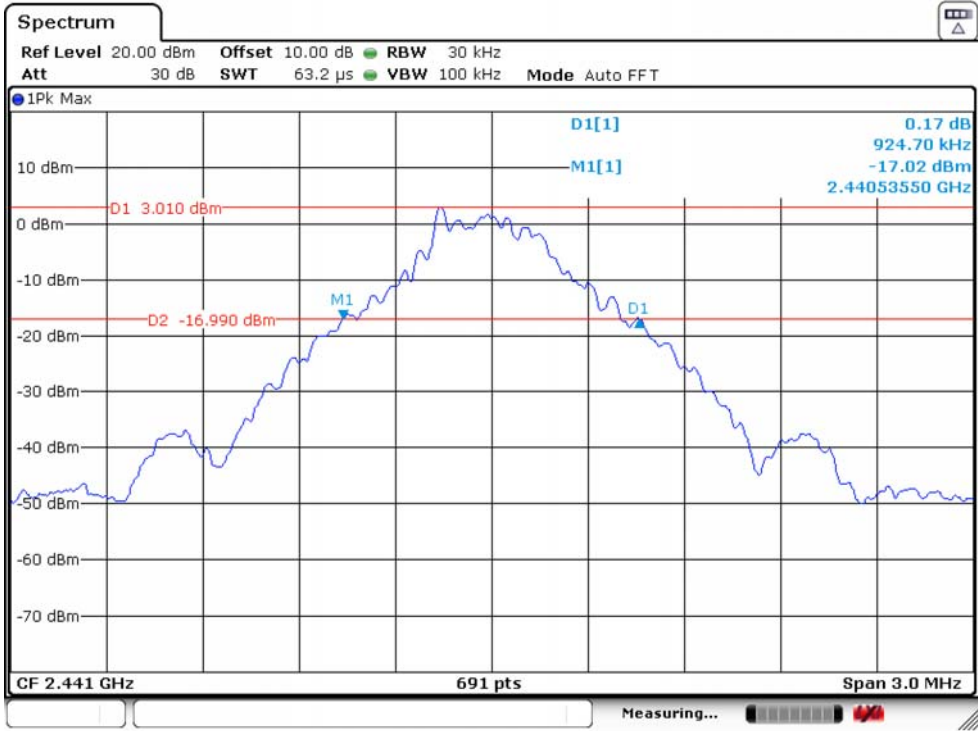
## 4.5. Test Result

|              |            |                      |             |        |
|--------------|------------|----------------------|-------------|--------|
| Temperature  | 26.4℃      | Relative Humidity    | 55%         |        |
| Test Voltage | DC 3.7V    |                      |             |        |
| Mode         | Freq (MHz) | 20dB Bandwidth (MHz) | Limit (MHz) | Result |
| GFSK         | 2402       | 0.9247               | /           | PASS   |
|              | 2441       | 0.9247               | /           | PASS   |
|              | 2480       | 0.9247               | /           | PASS   |
| 8-DPSK       | 2402       | 1.2808               | /           | PASS   |
|              | 2441       | 1.2851               | /           | PASS   |
|              | 2480       | 1.2808               | /           | PASS   |

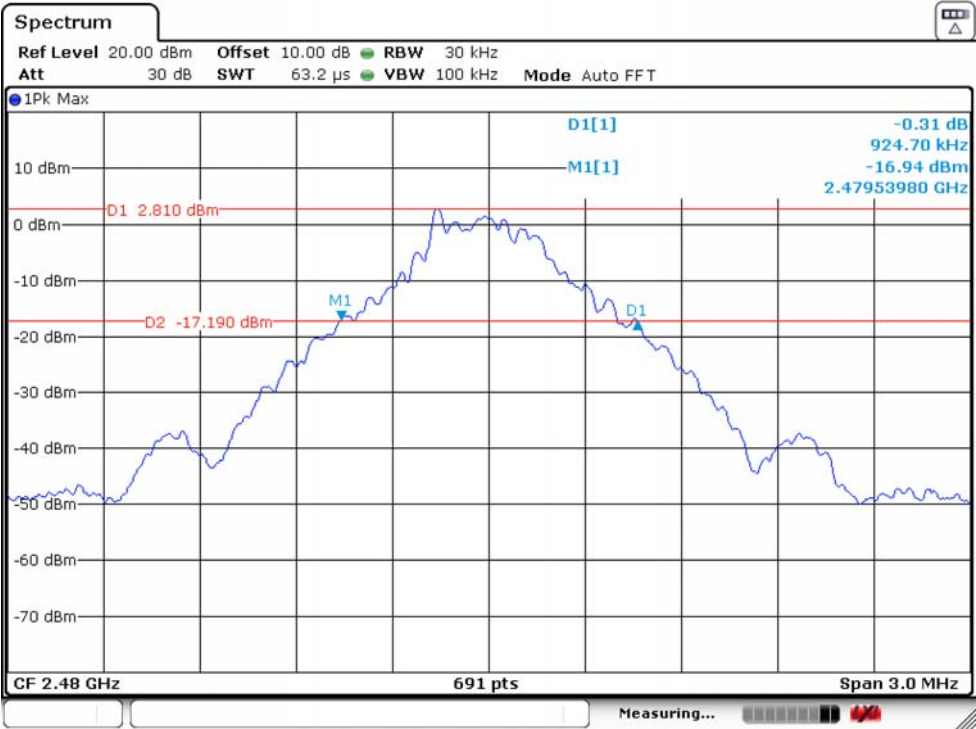
GFSK 2402MHz



GFSK 2441MHz



GFSK 2480MHz



8-DPSK 2402MHz



8-DPSK 2441MHz



8-DPSK 2480MHz



## 5. CARRIER FREQUENCY SEPARATION

### 5.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

### 5.2. Test Setup



### 5.3. Spectrum Analyzer Setting

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 30KHz    |
| VBW                 | 100KHz   |
| Span                | 3MHz     |
| Sweep Time          | Auto     |
| Detector            | Peak     |
| Trace Mode          | Max Hold |

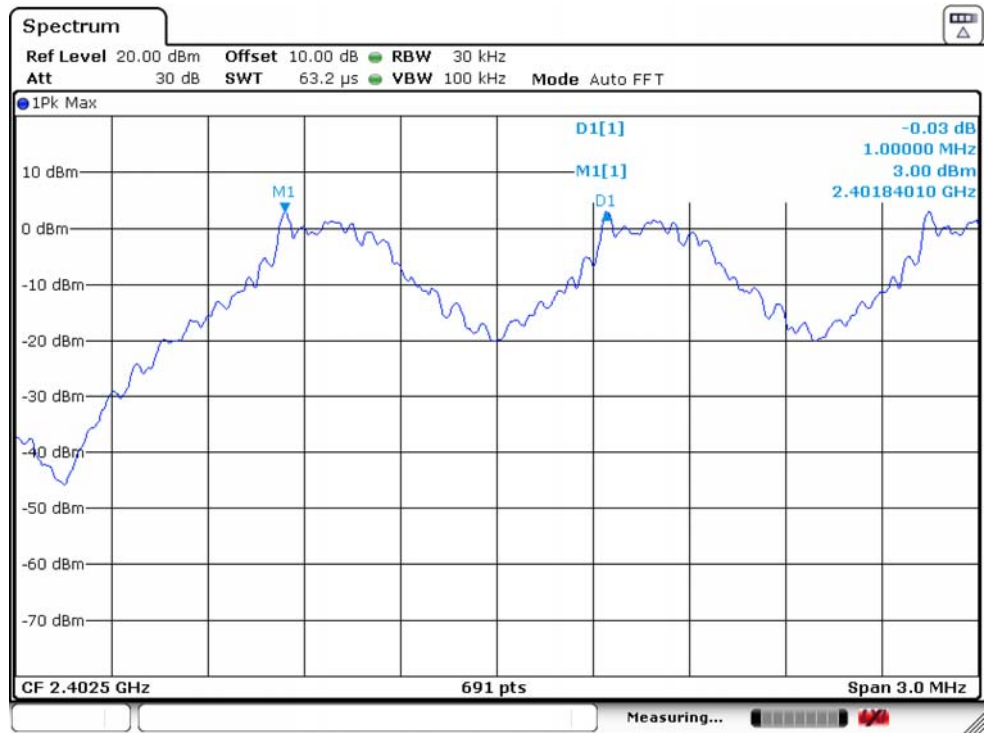
### 5.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 5.3.
- Set the EUT transmit continuously with maximum output power in all channel hopping mode.
- Allow trace to stabilize, use the marker-delta function to measure channel separation between two adjacent channels.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

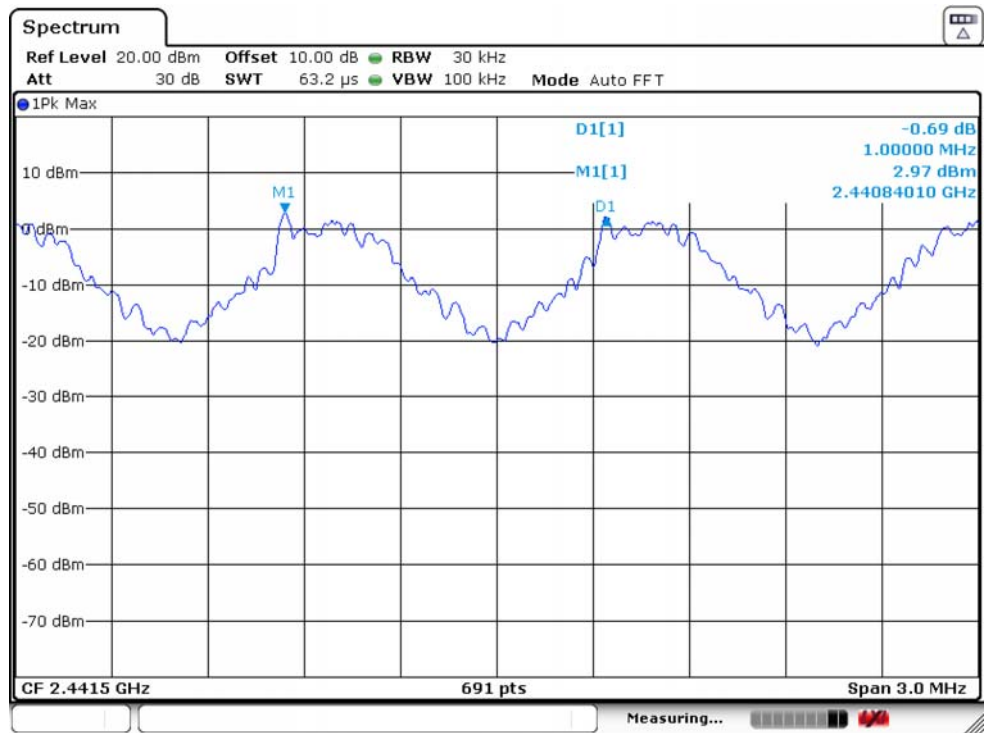
## 5.5. Test Result

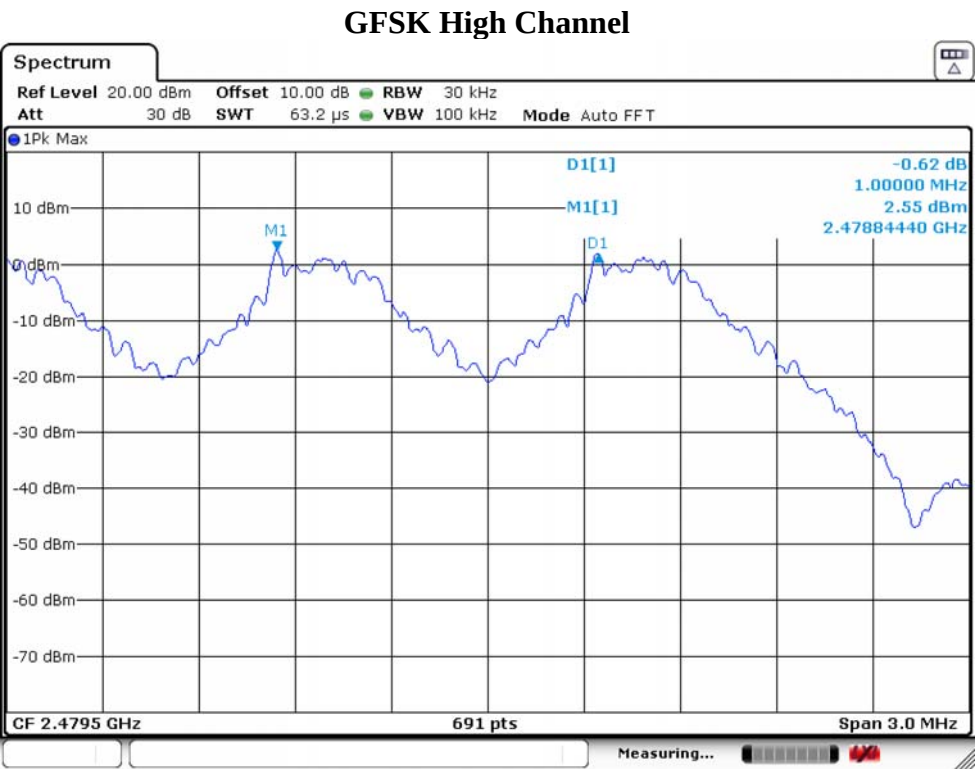
|             |         |                          |                                   |              |         |
|-------------|---------|--------------------------|-----------------------------------|--------------|---------|
| Temperature | 26.4℃   | Relative Humidity        | 55%                               | Test Voltage | DC 3.7V |
| Mode        | Channel | Channel Separation (MHz) | 2/3 of 20dB Bandwidth Limit (MHz) |              | Result  |
| GFSK        | Low CH  | 1.0000                   | 0.6165                            |              | PASS    |
|             | Mid CH  | 1.0000                   | 0.6165                            |              | PASS    |
|             | High CH | 1.0000                   | 0.6165                            |              | PASS    |
| 8-DPSK      | Low CH  | 1.0000                   | 0.8539                            |              | PASS    |
|             | Mid CH  | 1.0000                   | 0.8567                            |              | PASS    |
|             | High CH | 1.0000                   | 0.8539                            |              | PASS    |

GFSK Low Channel



GFSK Mid Channel

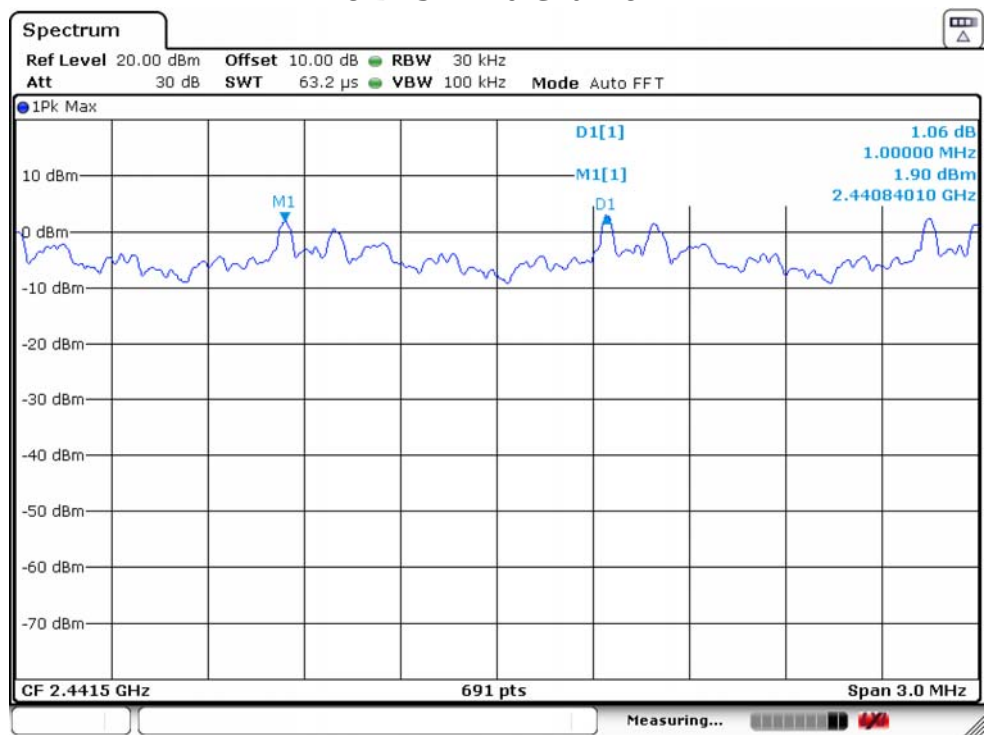




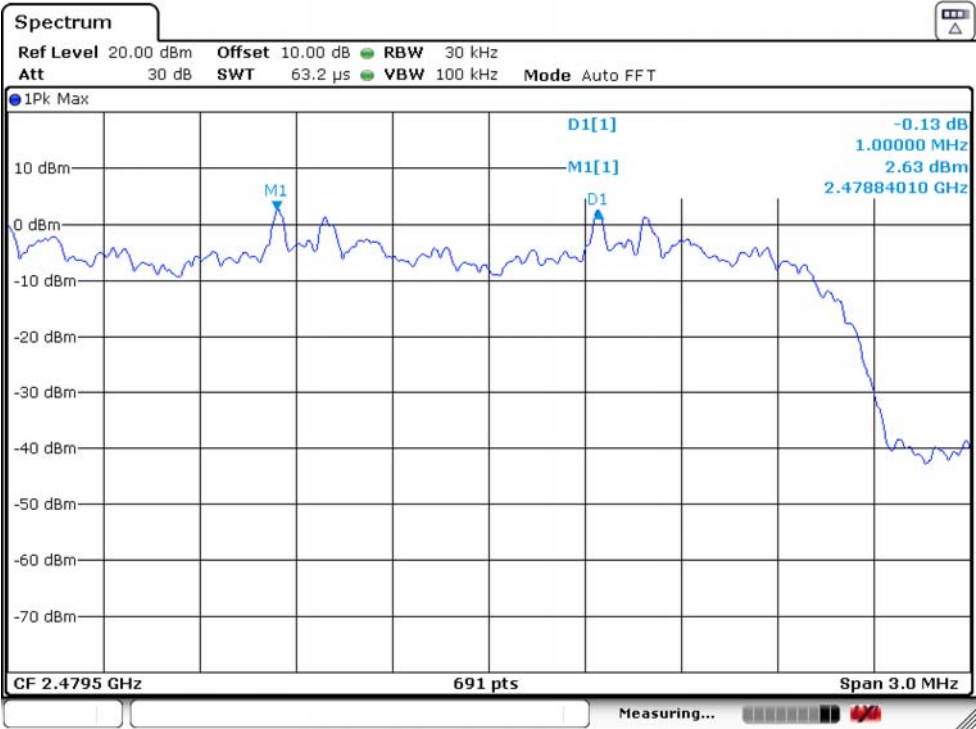
8-DPSK Low Channel



8-DPSK Mid Channel



8-DPSK High Channel

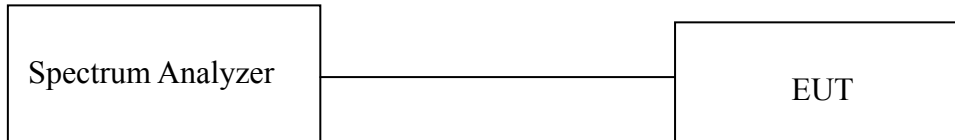


## 6. NUMBER OF HOPPING CHANNEL

### 6.1. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

### 6.2. Test Setup



### 6.3. Spectrum Analyzer Setting

| Spectrum Parameters | Setting   |
|---------------------|-----------|
| RBW                 | 300KHz    |
| VBW                 | 300KHz    |
| Start frequency     | 2400MHz   |
| Stop frequency      | 2483.5MHz |
| Sweep Time          | Auto      |
| Detector            | Peak      |
| Trace Mode          | Max Hold  |

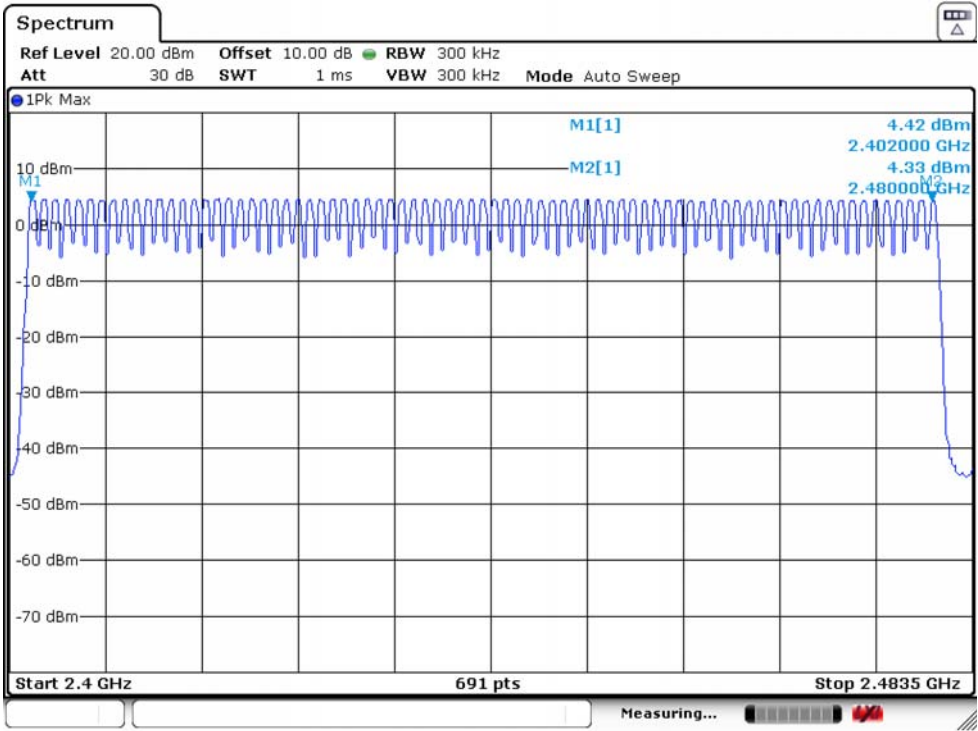
### 6.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 6.3.
- Set the EUT transmit continuously with maximum output power in all channel hopping mode.
- Allow trace to stabilize, use the marker-peak function to mark the first and last frequency hopping channel.
- Repeat above procedures until all test modes were measured.
- Record the results in the test report.

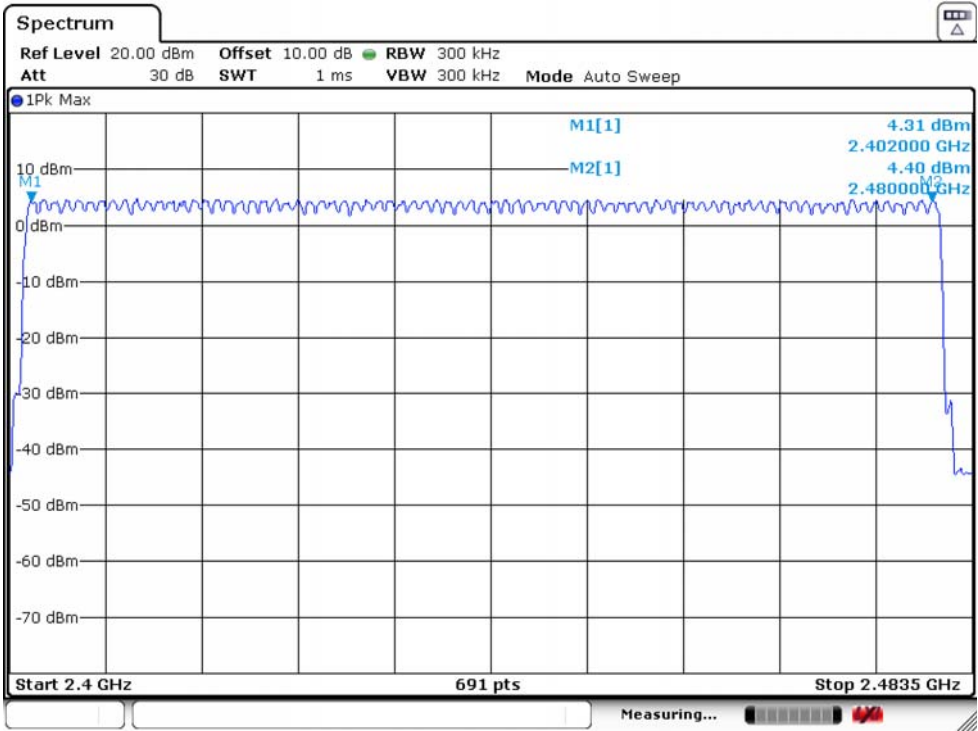
6.5. Test Result

|             |                           |                   |     |              |         |
|-------------|---------------------------|-------------------|-----|--------------|---------|
| Temperature | 26.4℃                     | Relative Humidity | 55% | Test Voltage | DC 3.7V |
| Mode        | Number of Hopping Channel |                   |     | Limit        | Result  |
| GFSK        | 79                        |                   |     | ≥15          | PASS    |
| 8-DPSK      | 79                        |                   |     | ≥15          | PASS    |

GFSK Hopping On



8-DPSK Hopping On



## 7. DWELL TIME

### 7.1. Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

### 7.2. Test Setup



### 7.3. Spectrum Analyzer Setting

| Spectrum Parameters | Setting                        |
|---------------------|--------------------------------|
| RBW                 | 1MHz                           |
| VBW                 | 1MHz                           |
| Span                | Zero                           |
| Detector            | Peak                           |
| Sweep Time          | 2.5ms(DH1)/10ms(DH3)/20ms(DH5) |
| Sweep Mode          | Single Sweep                   |

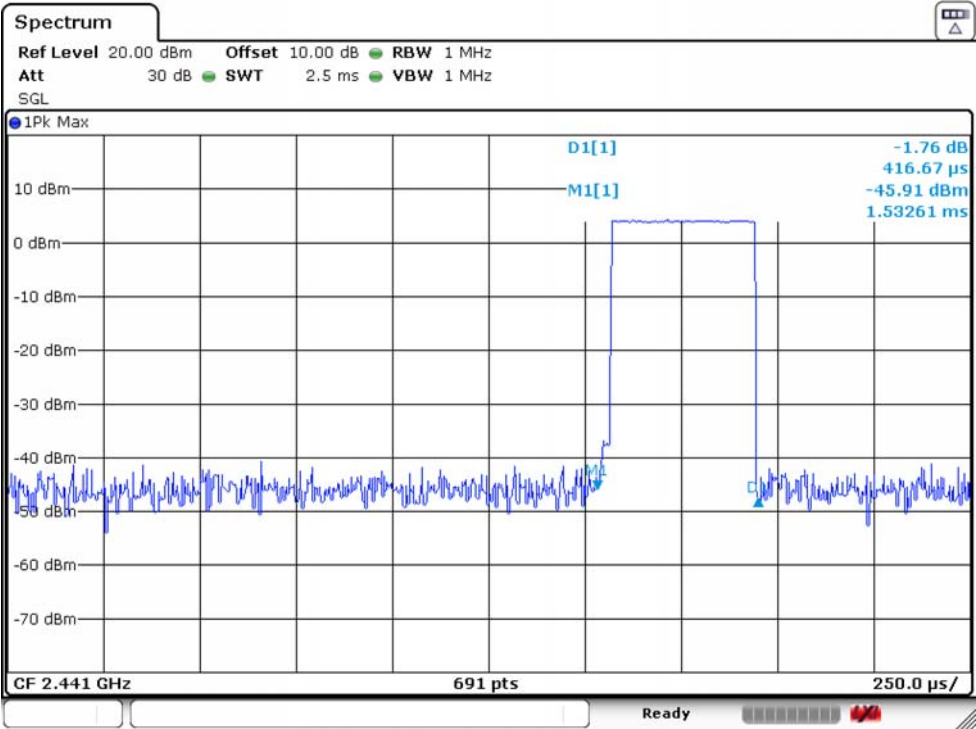
### 7.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 7.3.
- Set the EUT transmit continuously with maximum output power in all channel hopping mode.
- Allow trace to stabilize, use the marker-delta function to measure single pulse duration.
- Repeat above procedures until all test modes were measured.
- Record the results in the test report.

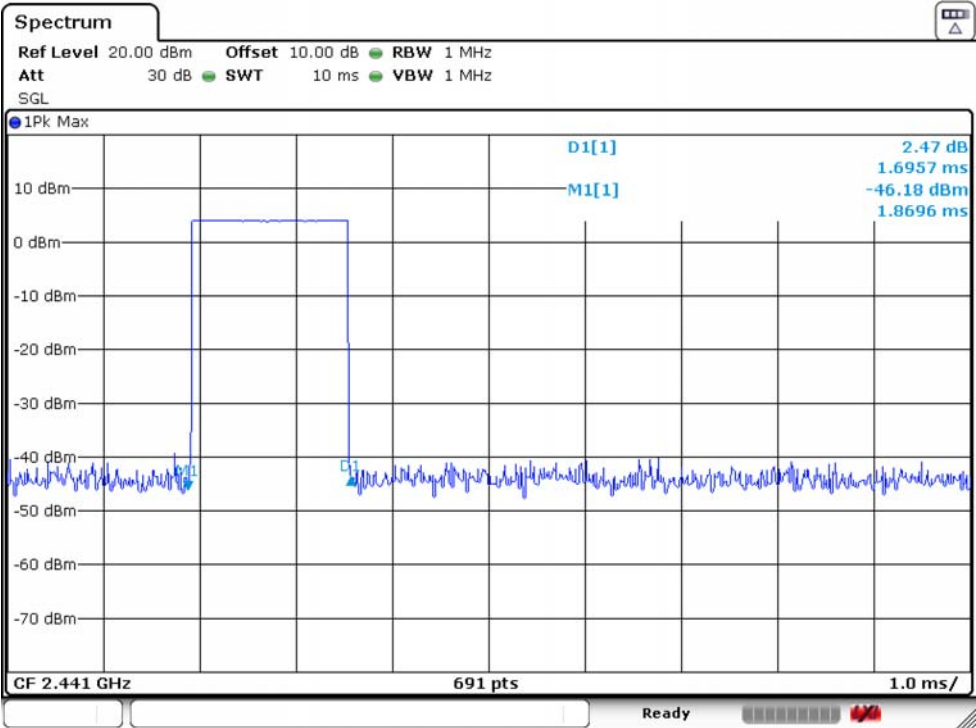
## 7.5. Test Result

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                  |                     |                 |              |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------|---------------------|-----------------|--------------|---------|
| Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 26.4℃      | Relative Humidity                |                     | 55%             | Test Voltage | DC 3.7V |
| Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Freq (MHz) | Hops in Observation Period(hops) | Pulse Duration (ms) | Dwell time (ms) | Limit        | Result  |
| GFSK DH1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2441       | 320                              | 0.4167              | 133.34          | <400ms       | PASS    |
| GFSK DH3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2441       | 160                              | 1.6957              | 271.31          | <400ms       | PASS    |
| GFSK DH5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2441       | 106.67                           | 2.9565              | 315.36          | <400ms       | PASS    |
| 8-DPSK DH1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2441       | 320                              | 0.4203              | 134.50          | <400ms       | PASS    |
| 8-DPSK DH3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2441       | 160                              | 1.7101              | 273.62          | <400ms       | PASS    |
| 8-DPSK DH5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2441       | 106.67                           | 2.9855              | 318.45          | <400ms       | PASS    |
| <p>1. DH1 Packet permit maximum 1600 hops/s with 2 timeslot in 79 channels (1 timeslot TX, 1 timeslot RX),So the hops in Observation Period(<math>0.4s \times 79</math> channel)=(<math>1600/79/2</math>)hops/s <math>\times 0.4s \times 79=320</math> hops.</p> <p>2. DH3 Packet permit maximum 1600 hops/s with 4 timeslot in 79 channels (3 timeslot TX, 1 timeslot RX),So the hops in Observation Period(<math>0.4s \times 79</math> channel)=(<math>1600/79/4</math>)hops/s <math>\times 0.4s \times 79=160</math> hops.</p> <p>3. DH5 Packet permit maximum 1600 hops/s with 6 timeslot in 79 channels (5 timeslot TX, 1 timeslot RX),So the hops in Observation Period(<math>0.4s \times 79</math> channel)=(<math>1600/79/6</math>)hops/s <math>\times 0.4s \times 79=106.67</math> hops.</p> <p>4.Dwell Time= Hops in Observation Period <math>\times</math> Pulse Duration.</p> |            |                                  |                     |                 |              |         |

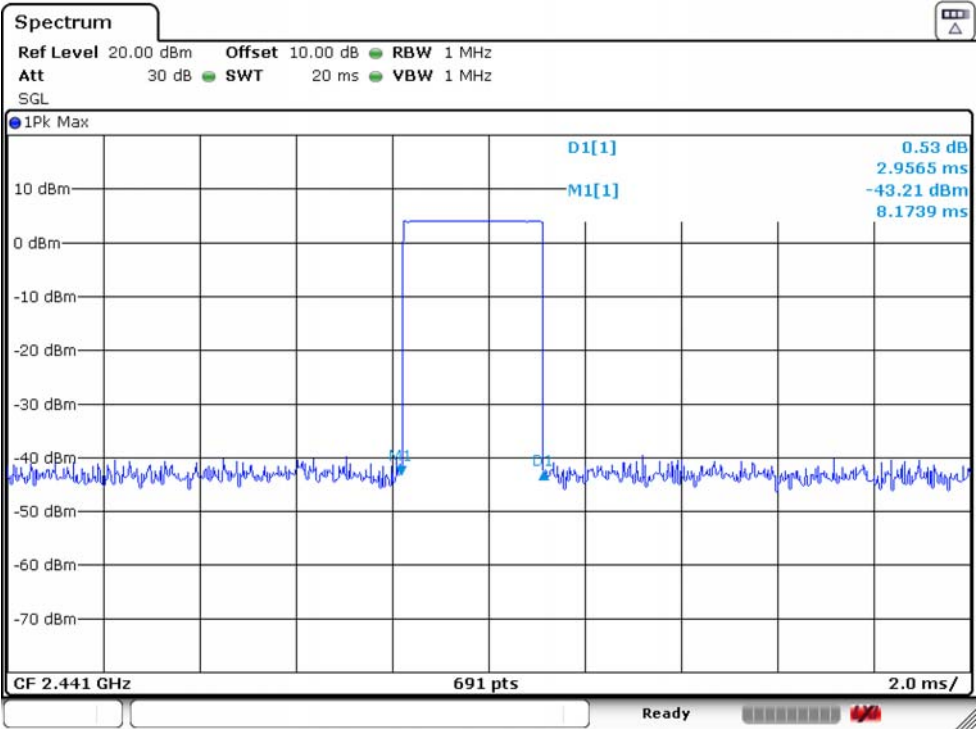
GFSK DH1



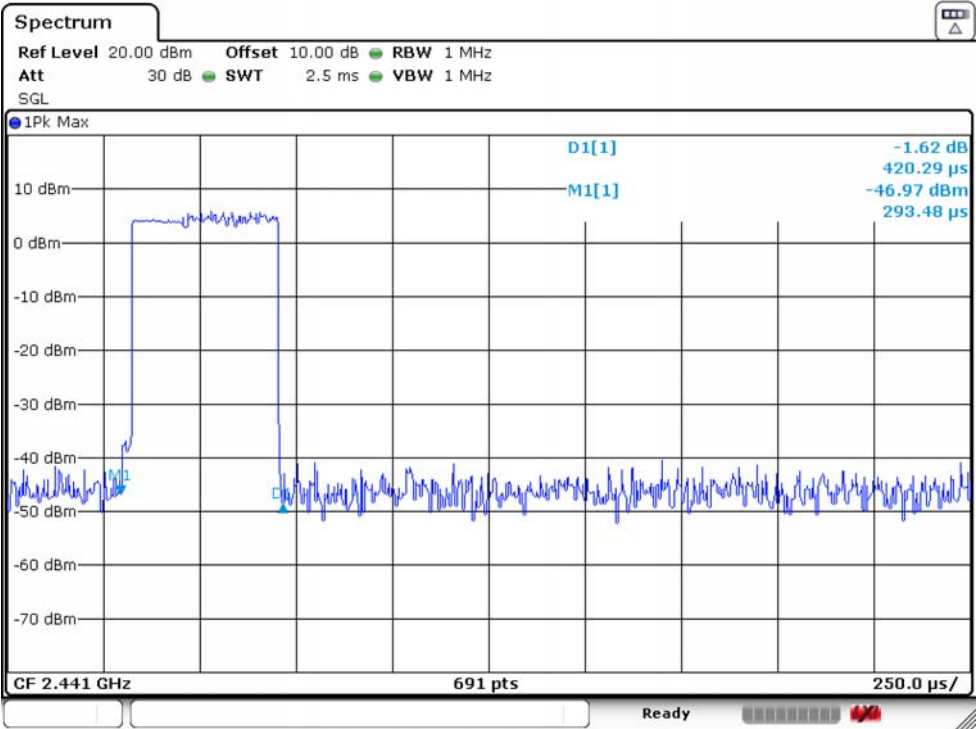
GFSK DH3



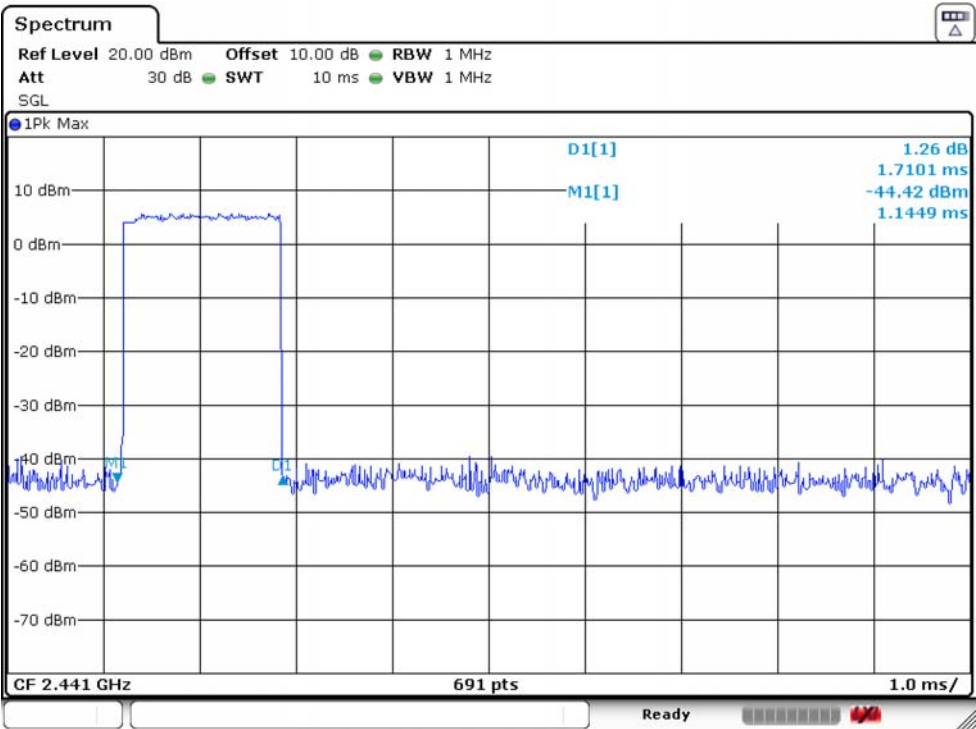
GFSK DH5



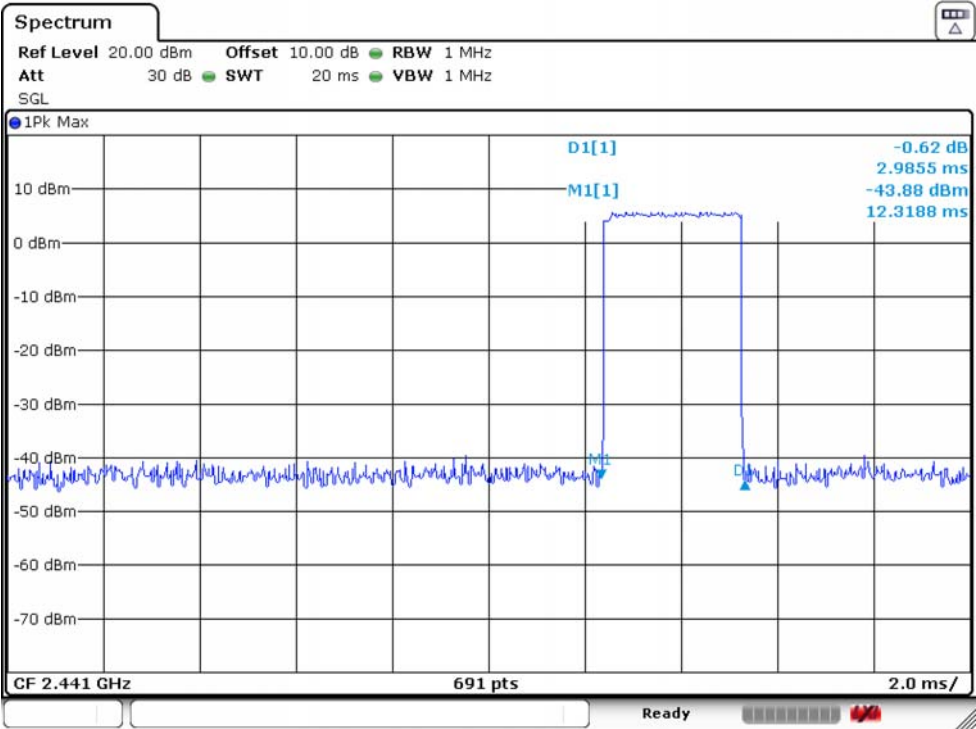
8-DPSK DH1



8-DPSK DH3



8-DPSK DH5

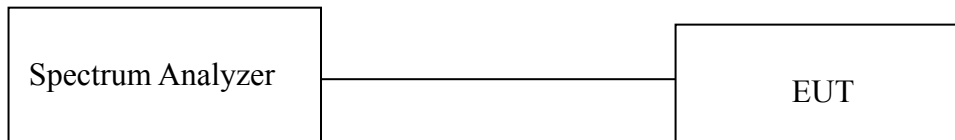


## 8. CONDUCTED BAND EDGE

### 8.1. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 8.2. Test Setup



### 8.3. Spectrum Analyzer Setting

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 100KHz   |
| VBW                 | 300KHz   |
| Span                | 100MHz   |
| Sweep Time          | Auto     |
| Detector            | Peak     |
| Trace Mode          | Max Hold |

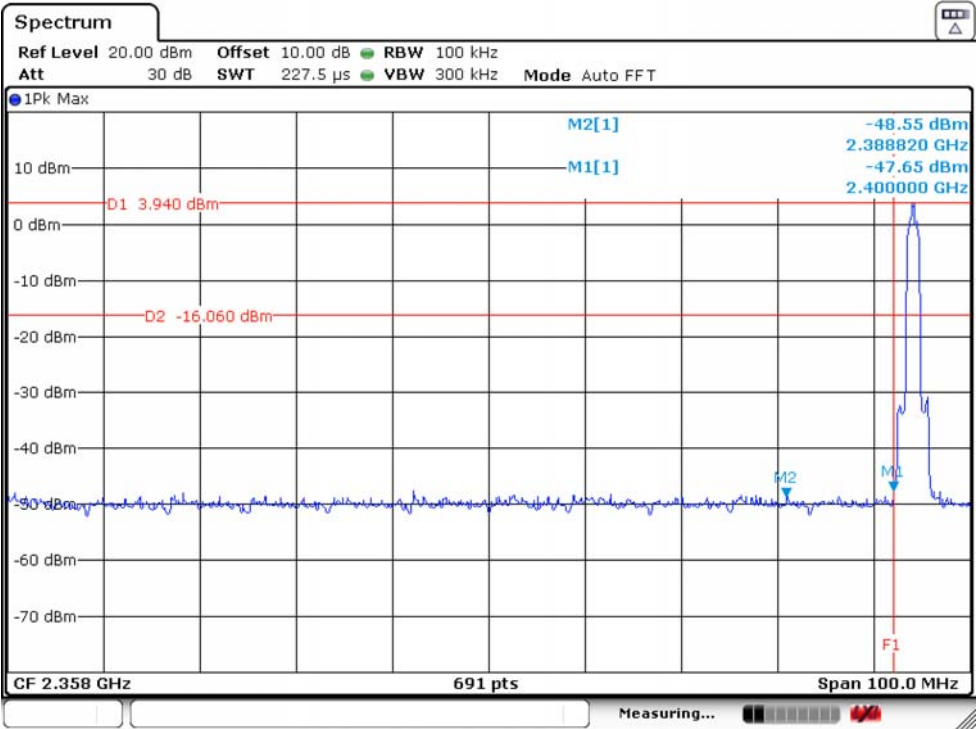
### 8.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 8.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
- Repeat above procedures until all channels and test modes were measured(including frequency hopping off and frequency hopping on).
- Record the results in the test report.

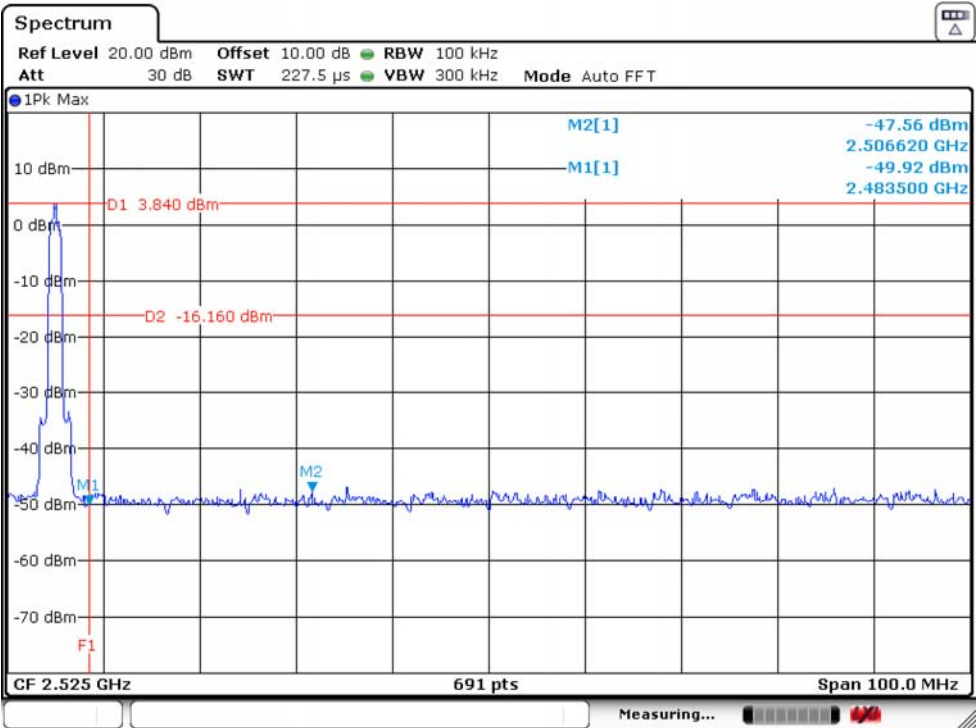
8.5. Test Result

|             |       |                   |     |              |         |
|-------------|-------|-------------------|-----|--------------|---------|
| Temperature | 26.4℃ | Relative Humidity | 55% | Test Voltage | DC 3.7V |
| Result      | PASS  |                   |     |              |         |

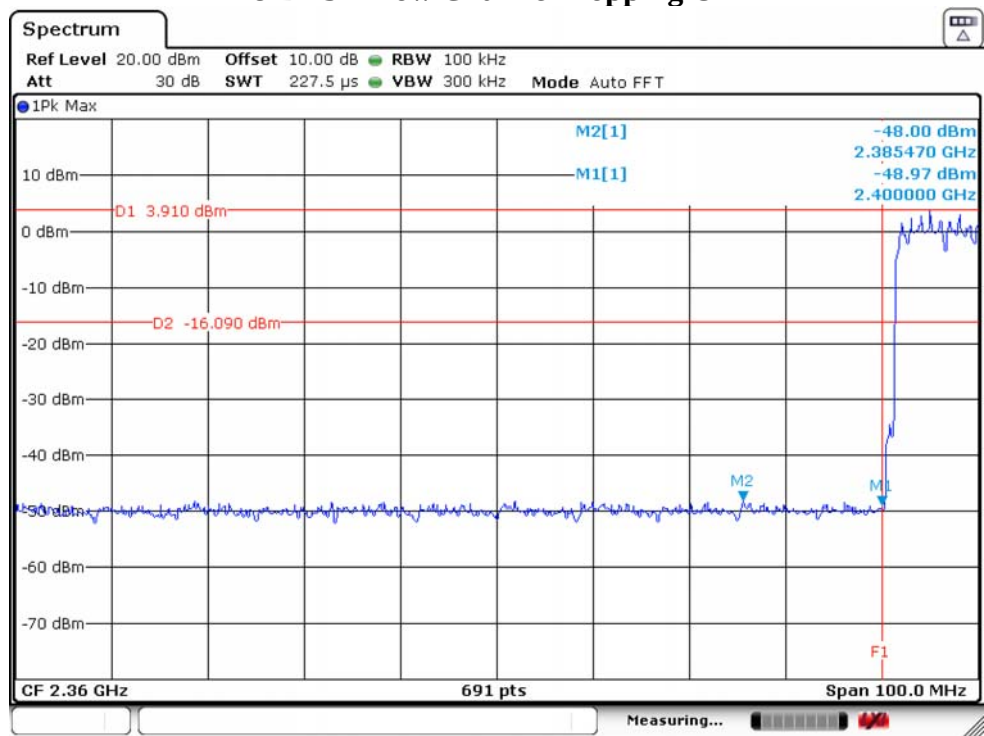
8-DPSK Low Channel Hopping OFF



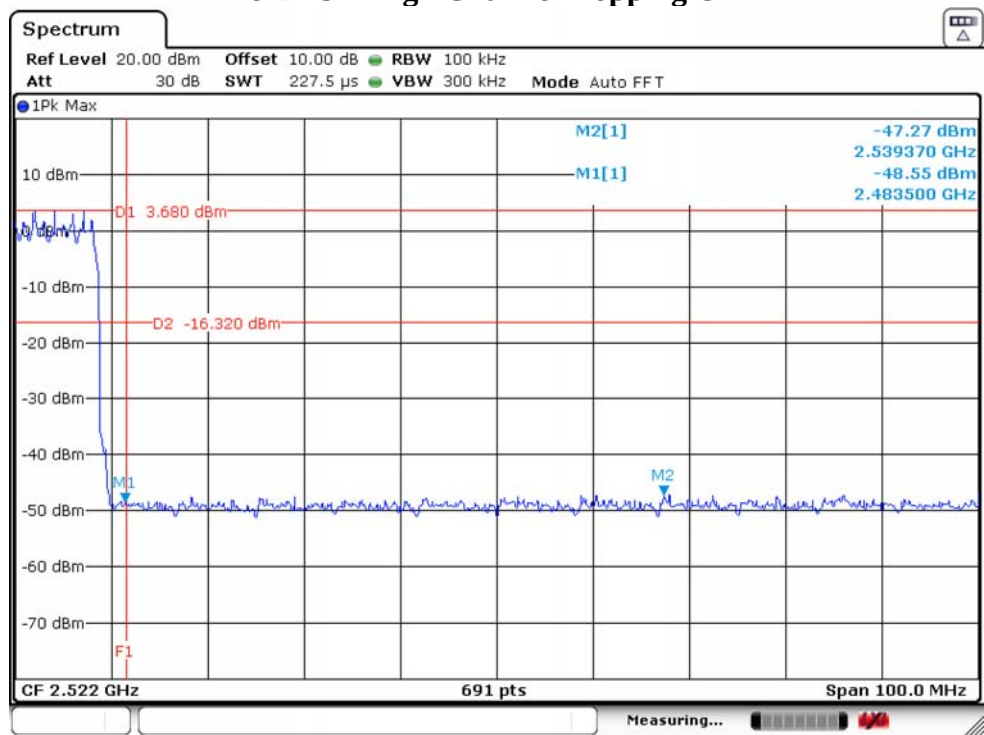
8-DPSK High Channel Hopping OFF



8-DPSK Low Channel Hopping ON



8-DPSK High Channel Hopping ON



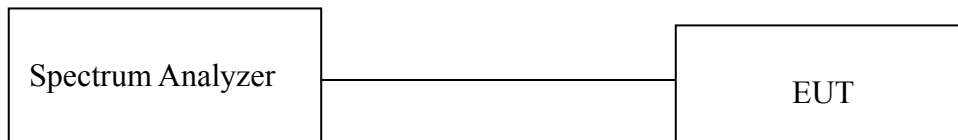
All modulations are all tested ,only worse case is reported

## 9. CONDUCTED SPURIOUS EMISSIONS

### 9.1. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 9.2. Test Setup



### 9.3. Spectrum Analyzer Setting

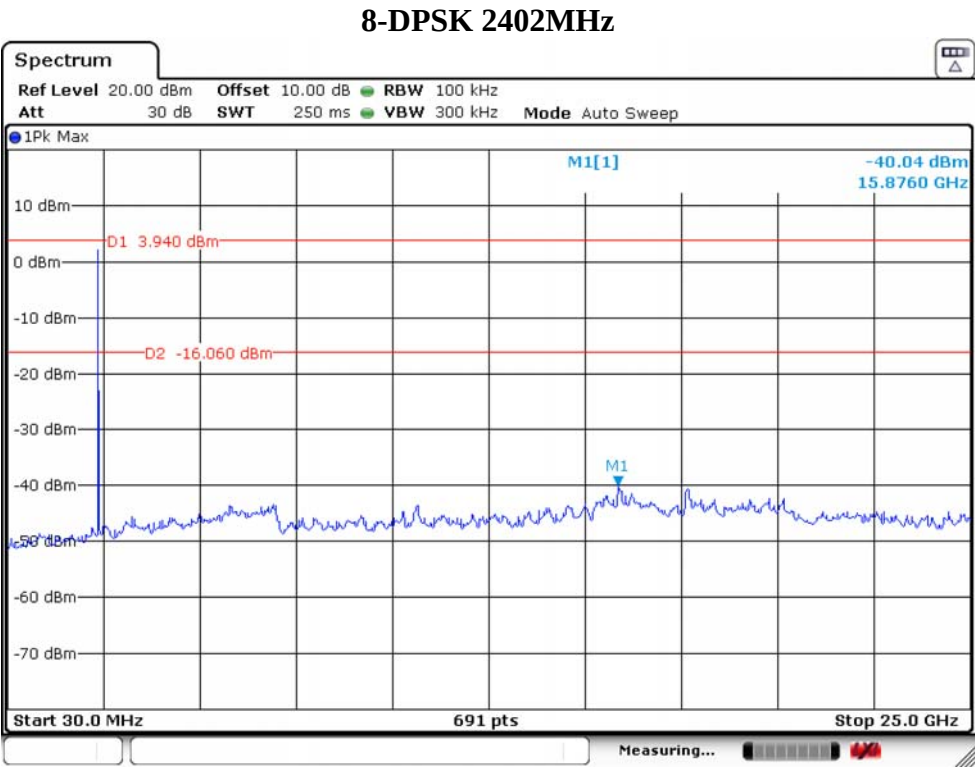
| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 100KHz   |
| VBW                 | 300KHz   |
| Start frequency     | 30MHz    |
| Stop frequency      | 25GHz    |
| Sweep Time          | Auto     |
| Detector            | Peak     |
| Trace Mode          | Max Hold |

### 9.4. Test Procedure

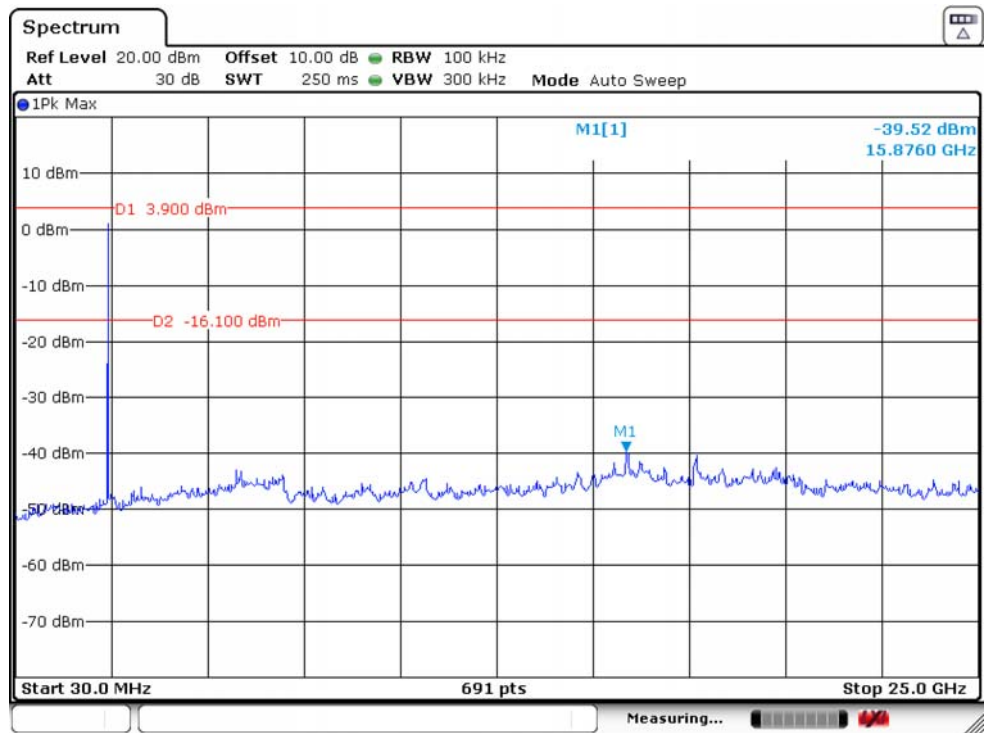
- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 9.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

9.5. Test Result

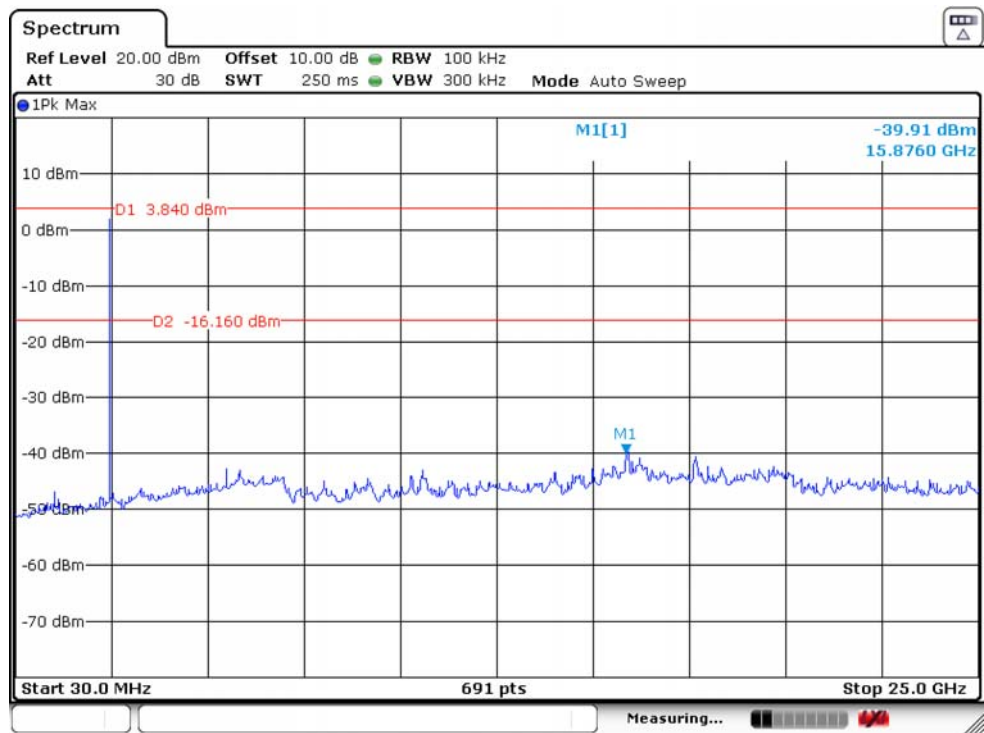
|             |       |                   |     |              |         |
|-------------|-------|-------------------|-----|--------------|---------|
| Temperature | 26.4℃ | Relative Humidity | 55% | Test Voltage | DC 3.7V |
| Result      | PASS  |                   |     |              |         |



8-DPSK 2441MHz



8-DPSK 2480MHz



All modulations are all tested ,only worse case is reported

## 10. RADIATED SPURIOUS EMISSIONS AND BAND EDGE

### 10.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

#### 15.205 Restricted frequency band

| MHz                        | MHz                   | MHz             | GHz              |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525   | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905            | 16.80425 - 16.80475   | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128              | 25.5 - 25.67          | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775          | 37.5 - 38.25          | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775          | 73 - 74.6             | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218              | 74.8 - 75.2           | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825          | 108 - 121.94          | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225          | 123 - 138             | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294              | 149.9 - 150.05        | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366              | 156.52475 - 156.52525 | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675          | 156.7 - 156.9         | 2690 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475          | 162.0125 - 167.17     | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293             | 167.72 - 173.2        | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025        | 240 - 285             | 3345.8 - 3358   | 36.43 - 36.5     |
| 12.57675 - 12.57725        | 322 - 335.4           | 3600 - 4400     | ( <sup>2</sup> ) |

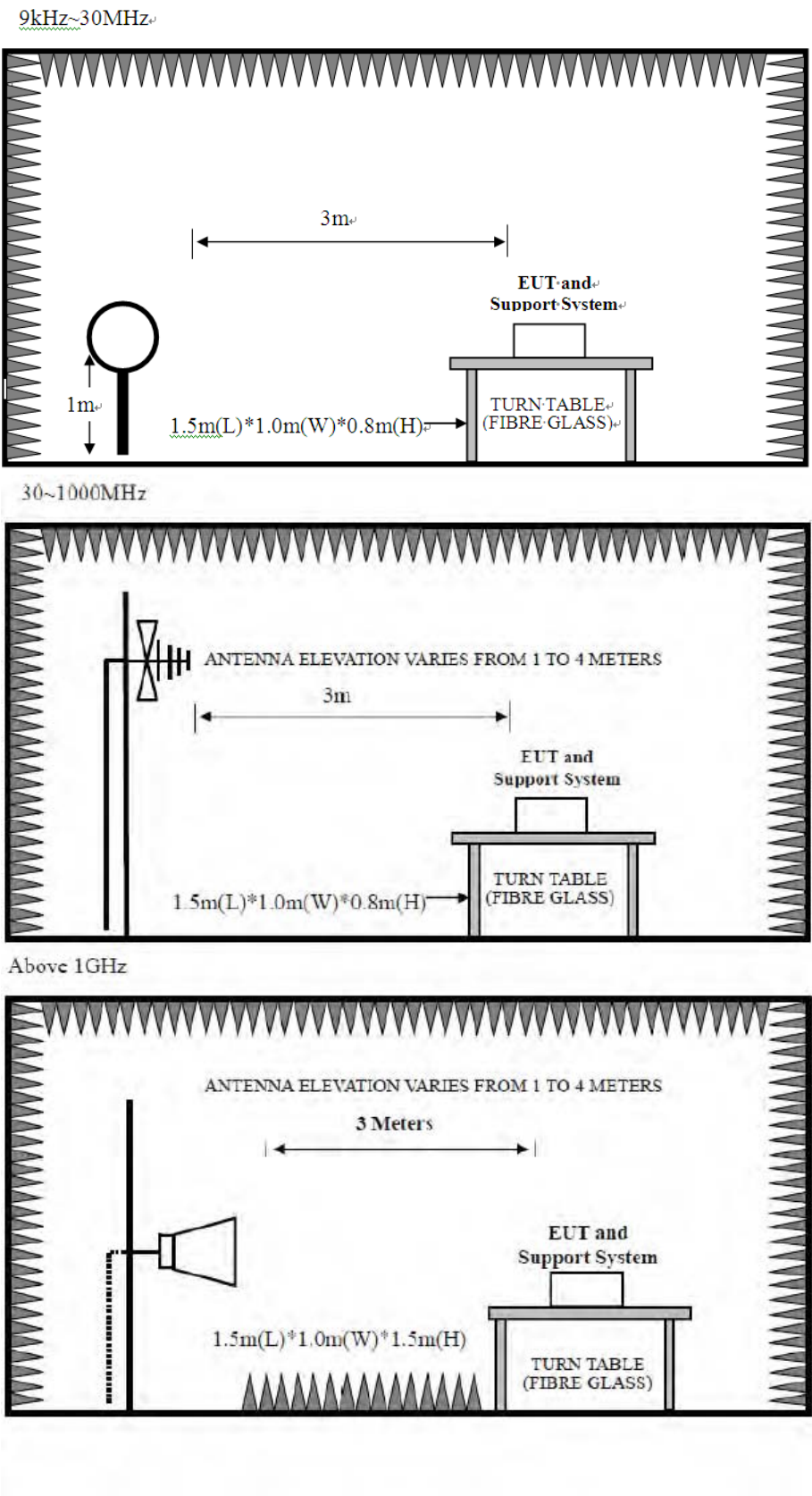
#### 15.209 Limit

| Frequency (MHz) | Field Strength( $\mu$ V/m) | Distance(m) |
|-----------------|----------------------------|-------------|
| 0.009-0.490     | 2400/F(kHz)                | 300         |
| 0.490-1.705     | 24000/F(kHz)               | 30          |
| 1.705-30        | 30                         | 30          |
| 30-88           | 100                        | 3           |
| 88-216          | 150                        | 3           |
| 216-960         | 200                        | 3           |
| Above 960       | 500                        | 3           |

Note:

- (1) Emission level  $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$ .
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

10.2. Test Setup



## 10.3. Spectrum Analyzer Setting

For 9KHz-150KHz

| Spectrum Parameters | Setting                                 |
|---------------------|-----------------------------------------|
| RBW                 | 300Hz(for Peak&AVG)/CISPR 200Hz(for QP) |
| VBW                 | 300Hz(for Peak&AVG)/CISPR 200Hz(for QP) |
| Start frequency     | 9KHz                                    |
| Stop frequency      | 150KHz                                  |
| Sweep Time          | Auto                                    |
| Detector            | PEAK/QP/AVG                             |
| Trace Mode          | Max Hold                                |

For 150KHz-30MHz

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 9KHz     |
| VBW                 | 9KHz     |
| Start frequency     | 150KHz   |
| Stop frequency      | 30MHz    |
| Sweep Time          | Auto     |
| Detector            | QP       |
| Trace Mode          | Max Hold |

For 30MHz-1GHz

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 120KHz   |
| VBW                 | 300KHz   |
| Start frequency     | 30MHz    |
| Stop frequency      | 1GHz     |
| Sweep Time          | Auto     |
| Detector            | QP       |
| Trace Mode          | Max Hold |

For Above 1GHz

| Spectrum Parameters | Setting          |                                      |
|---------------------|------------------|--------------------------------------|
| RBW                 | 1MHz             |                                      |
| VBW                 | PEAK Measurement | AVG Measurement                      |
|                     | 3MHz             | Duty cycle $\geq 98\%$ , VBW=10Hz    |
|                     |                  | Duty cycle $< 98\%$ , VBW $\geq 1/T$ |
| Start frequency     | 1GHz             |                                      |
| Stop frequency      | 25GHz            |                                      |
| Sweep Time          | Auto             |                                      |
| Detector            | PEAK             |                                      |
| Trace Mode          | Max Hold         |                                      |

## 10.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters in accordance with section 10.3.
- g. Repeat above procedures until all channels and test modes were measured.
- h. Record the results in the test report.

Note:

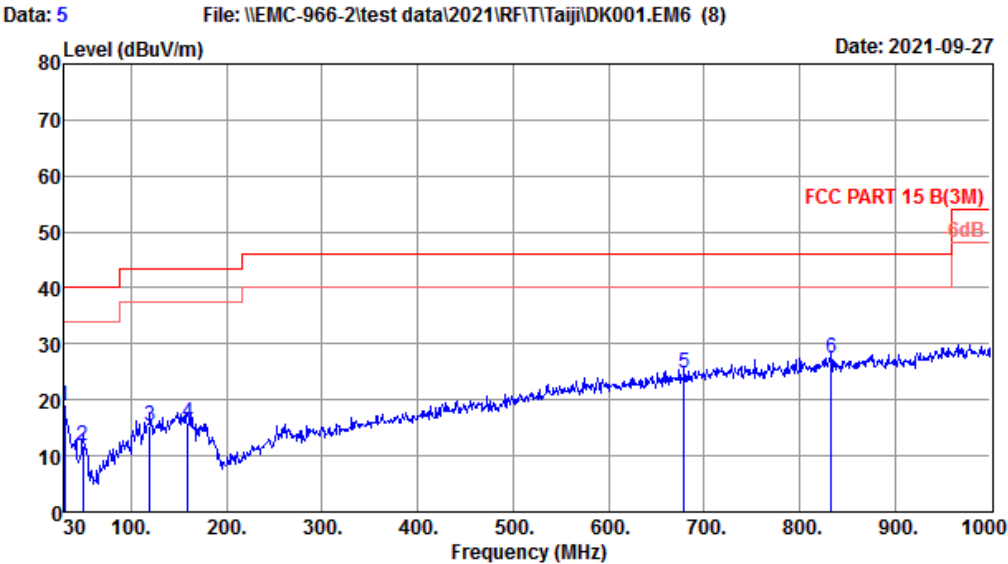
1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2. The frequency 2402MHz ,2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

10.5. Test Result

Radiated Emissions Below 1GHz

EST Technology

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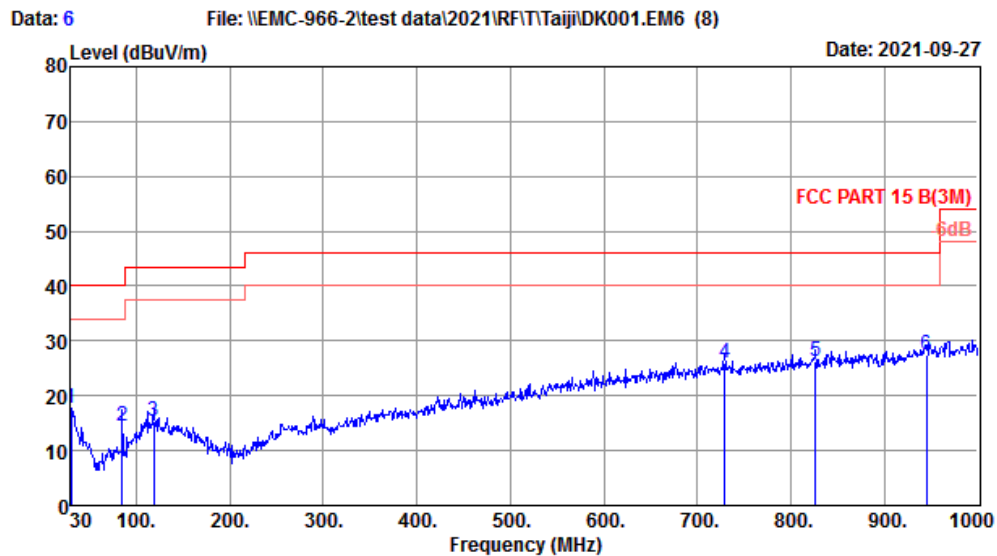
Site no. : 2# 966 chamber Data no. : 5  
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL  
Limit : FCC PART 15 B(3M)  
Env. / Ins. : Temp:25.6℃;Humi:54%;Press:101.52kPa  
Engineer : ZH  
EUT : Deeprio FlowBuds Sport  
Power : DC 3.7V From Battery  
M/N : DK001  
Test Mode : TX Mode  
Left

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 30.00          | 18.80                   | 0.19                  | -0.21             | 18.78                         | 40.00             | 21.22          | QP     |
| 2 | 49.40          | 9.05                    | 0.28                  | 2.53              | 11.86                         | 40.00             | 28.14          | QP     |
| 3 | 119.24         | 11.44                   | 0.84                  | 3.17              | 15.45                         | 43.50             | 28.05          | QP     |
| 4 | 159.01         | 11.42                   | 1.03                  | 3.38              | 15.83                         | 43.50             | 27.67          | QP     |
| 5 | 678.93         | 21.50                   | 2.77                  | 0.58              | 24.85                         | 46.00             | 21.15          | QP     |
| 6 | 833.16         | 23.53                   | 3.15                  | 0.67              | 27.35                         | 46.00             | 18.65          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 2# 966 chamber Data no. : 6  
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15 B(3M)  
Env. / Ins. : Temp:25.6°C;Humi:54%;Press:101.52kPa  
Engineer : ZH  
EUT : Deeprio FlowBuds Sport  
Power : DC 3.7V From Battery  
M/N : DK001  
Test Mode : TX Mode  
Left

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 30.00          | 18.80                   | 0.19                  | -1.42             | 17.57                         | 40.00             | 22.43          | QP     |
| 2 | 85.29          | 8.30                    | 0.67                  | 5.43              | 14.40                         | 40.00             | 25.60          | QP     |
| 3 | 118.27         | 11.48                   | 0.87                  | 2.94              | 15.29                         | 43.50             | 28.21          | QP     |
| 4 | 729.37         | 21.80                   | 3.01                  | 1.07              | 25.88                         | 46.00             | 20.12          | QP     |
| 5 | 826.37         | 23.46                   | 3.17                  | -0.42             | 26.21                         | 46.00             | 19.79          | QP     |
| 6 | 944.71         | 24.75                   | 3.79                  | -1.17             | 27.37                         | 46.00             | 18.63          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

## Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test, only the worst case was reported.

## Radiated Emissions Above 1G

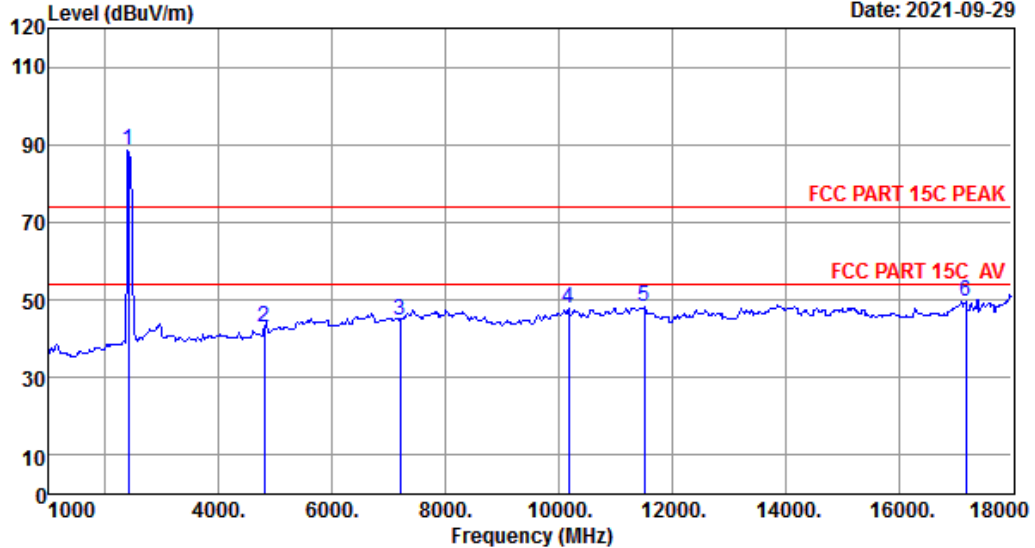
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Data: 19

File: \\EMC-966-1\\test data\\2021\\RF\\T\\TAI\\DK001.EM6 (38)

Date: 2021-09-29



Site no. : 1#966 Chamber Data no. : 19  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:26.5';Humi:57%;Press:101.52kPa  
 Engineer : DUO  
 EUT : Deeprio FlowBuds Sport  
 Power : DC 3.7V From Battery  
 M/N : DK001  
 Test Mode : 8-DPSK TX 2402MHz  
 Left Earbud

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2402.00        | 27.26                    | 1.45                  | 34.64                 | 94.68             | 88.75                         | 74.00              | -14.75         | Peak   |
| 2 | 4804.00        | 31.12                    | 3.25                  | 34.66                 | 43.29             | 43.00                         | 74.00              | 31.00          | Peak   |
| 3 | 7206.00        | 36.21                    | 5.19                  | 34.82                 | 38.22             | 44.80                         | 74.00              | 29.20          | Peak   |
| 4 | 10180.00       | 39.09                    | 5.94                  | 34.26                 | 36.93             | 47.70                         | 74.00              | 26.30          | Peak   |
| 5 | 11506.00       | 39.90                    | 6.15                  | 34.65                 | 36.74             | 48.14                         | 74.00              | 25.86          | Peak   |
| 6 | 17184.00       | 42.39                    | 7.60                  | 34.38                 | 34.04             | 49.65                         | 74.00              | 24.35          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

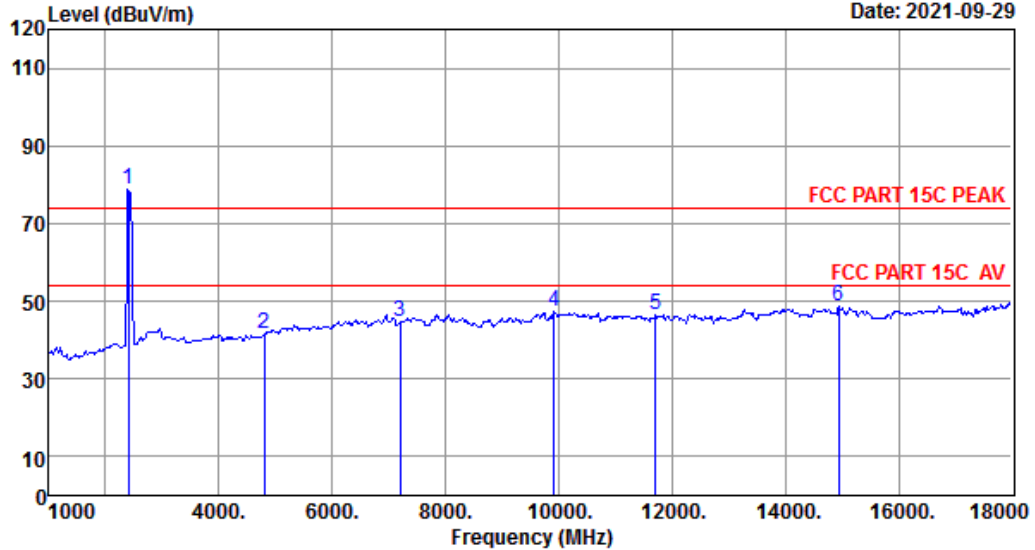
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Data: 20

File: \\EMC-966-1\\test data\\2021\\RF\\T\\TAI\\JNDK001.EM6 (38)

Date: 2021-09-29



Site no. : 1#966 Chamber Data no. : 20  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:26.5';Humi:57%;Press:101.52kPa  
 Engineer : DUO  
 EUT : Deeprio FlowBuds Sport  
 Power : DC 3.7V From Battery  
 M/N : DK001  
 Test Mode : 8-DPSK TX 2402MHz  
 Left Earbud

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2402.00        | 27.26                    | 1.45                  | 34.64                 | 84.95             | 79.02                         | 74.00              | -5.02          | Peak   |
| 2 | 4804.00        | 31.12                    | 3.25                  | 34.66                 | 41.84             | 41.55                         | 74.00              | 32.45          | Peak   |
| 3 | 7206.00        | 36.21                    | 5.19                  | 34.82                 | 37.98             | 44.56                         | 74.00              | 29.44          | Peak   |
| 4 | 9925.00        | 38.76                    | 5.84                  | 34.21                 | 37.08             | 47.47                         | 74.00              | 26.53          | Peak   |
| 5 | 11710.00       | 39.90                    | 6.05                  | 34.71                 | 35.36             | 46.60                         | 74.00              | 27.40          | Peak   |
| 6 | 14940.00       | 40.91                    | 6.82                  | 34.58                 | 35.53             | 48.68                         | 74.00              | 25.32          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

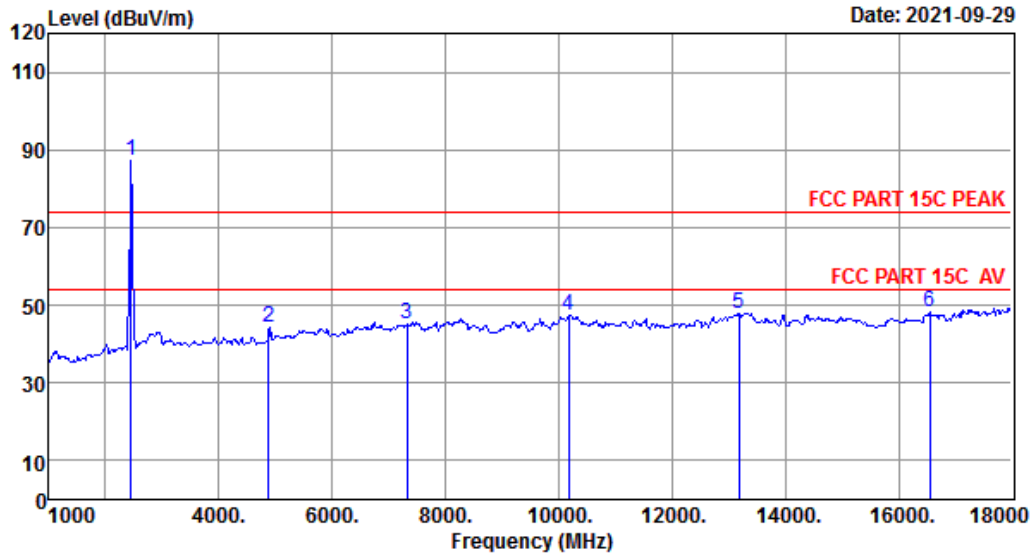
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Data: 21

File: \\EMC-966-1\\test data\\2021\\RF\\T\\TA\\JNDK001.EM6 (38)

Date: 2021-09-29



Site no. : 1#966 Chamber Data no. : 21  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:26.5';Humi:57%;Press:101.52kPa  
 Engineer : DUO  
 EUT : Deeprio FlowBuds Sport  
 Power : DC 3.7V From Battery  
 M/N : DK001  
 Test Mode : 8-DPSK TX 2441MHz  
 Left Earbud

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2441.00        | 27.33                    | 1.47                  | 34.62                 | 93.06             | 87.24                         | 74.00              | -13.24         | Peak   |
| 2 | 4882.00        | 31.37                    | 3.31                  | 34.68                 | 44.10             | 44.10                         | 74.00              | 29.90          | Peak   |
| 3 | 7323.00        | 36.46                    | 5.22                  | 34.83                 | 38.39             | 45.24                         | 74.00              | 28.76          | Peak   |
| 4 | 10180.00       | 39.09                    | 5.94                  | 34.26                 | 36.74             | 47.51                         | 74.00              | 26.49          | Peak   |
| 5 | 13189.00       | 39.72                    | 6.29                  | 34.38                 | 36.29             | 47.92                         | 74.00              | 26.08          | Peak   |
| 6 | 16555.00       | 40.42                    | 7.15                  | 34.31                 | 34.84             | 48.10                         | 74.00              | 25.90          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

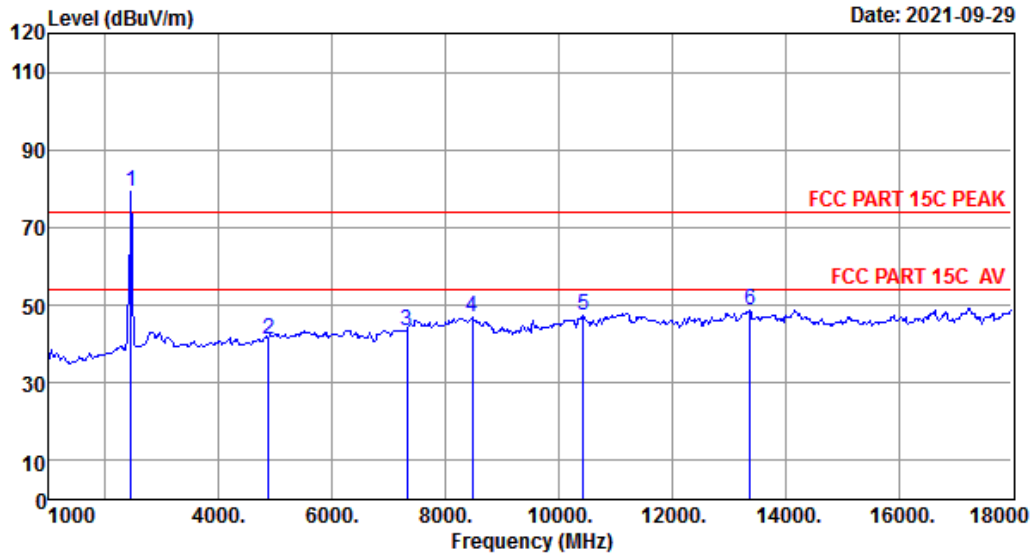
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Data: 22

File: \\EMC-966-1\\test data\\2021\\RF\\IT\\TA\\JNDK001.EM6 (38)

Date: 2021-09-29



Site no. : 1#966 Chamber Data no. : 22  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:26.5';Humi:57%;Press:101.52kPa  
 Engineer : DUO  
 EUT : Deeprio FlowBuds Sport  
 Power : DC 3.7V From Battery  
 M/N : DK001  
 Test Mode : 8-DPSK TX 2441MHz  
 Left Earbud

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2441.00        | 27.33                    | 1.47                  | 34.62                 | 84.91             | 79.09                         | 74.00              | -5.09          | Peak   |
| 2 | 4882.00        | 31.37                    | 3.31                  | 34.68                 | 41.39             | 41.39                         | 74.00              | 32.61          | Peak   |
| 3 | 7323.00        | 36.46                    | 5.22                  | 34.83                 | 36.72             | 43.57                         | 74.00              | 30.43          | Peak   |
| 4 | 8480.00        | 36.90                    | 5.21                  | 34.66                 | 39.46             | 46.91                         | 74.00              | 27.09          | Peak   |
| 5 | 10435.00       | 39.34                    | 6.00                  | 34.33                 | 36.43             | 47.44                         | 74.00              | 26.56          | Peak   |
| 6 | 13376.00       | 40.03                    | 6.32                  | 34.36                 | 36.62             | 48.61                         | 74.00              | 25.39          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

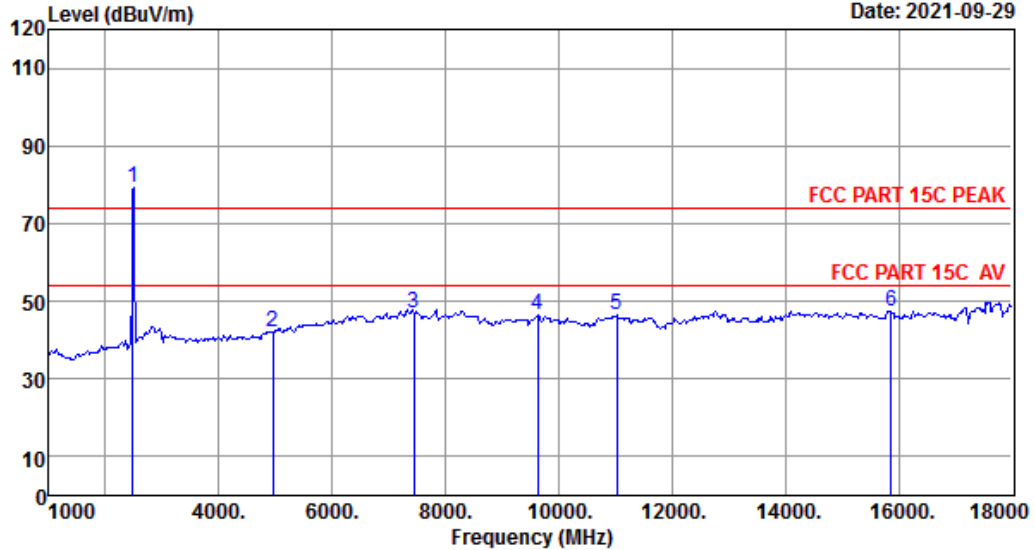
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Data: 23

File: \\EMC-966-1\\test data\\2021\\RF\\T\\TA\\JNDK001.EM6 (38)

Date: 2021-09-29



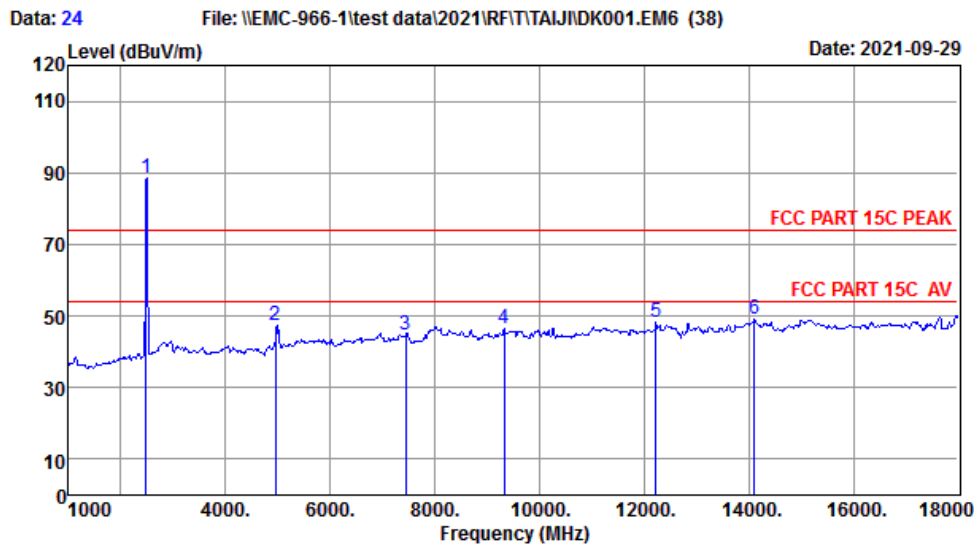
Site no. : 1#966 Chamber Data no. : 23  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:26.5';Humi:57%;Press:101.52kPa  
 Engineer : DUO  
 EUT : Deeprio FlowBuds Sport  
 Power : DC 3.7V From Battery  
 M/N : DK001  
 Test Mode : 8-DPSK TX 2480MHz  
 Left Earbud

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2480.00        | 27.38                    | 1.48                  | 34.61                 | 84.82             | 79.07                         | 74.00              | -5.07          | Peak   |
| 2 | 4960.00        | 31.68                    | 3.38                  | 34.69                 | 41.82             | 42.19                         | 74.00              | 31.81          | Peak   |
| 3 | 7440.00        | 36.70                    | 5.26                  | 34.84                 | 39.71             | 46.83                         | 74.00              | 27.17          | Peak   |
| 4 | 9636.00        | 38.18                    | 5.61                  | 34.27                 | 36.81             | 46.33                         | 74.00              | 27.67          | Peak   |
| 5 | 11030.00       | 39.90                    | 6.11                  | 34.51                 | 34.90             | 46.40                         | 74.00              | 27.60          | Peak   |
| 6 | 15875.00       | 39.93                    | 6.79                  | 34.25                 | 34.89             | 47.36                         | 74.00              | 26.64          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1#966 Chamber Data no. : 24  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:26.5';Humi:57%;Press:101.52kPa  
 Engineer : DUO  
 EUT : Deeprio FlowBuds Sport  
 Power : DC 3.7V From Battery  
 M/N : DK001  
 Test Mode : 8-DPSK TX 2480MHz  
 Left Earbud

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2480.00        | 27.38                    | 1.48                  | 34.61                 | 94.50             | 88.75                         | 74.00              | -14.75         | Peak   |
| 2 | 4960.00        | 31.68                    | 3.38                  | 34.69                 | 47.03             | 47.40                         | 74.00              | 26.60          | Peak   |
| 3 | 7440.00        | 36.70                    | 5.26                  | 34.84                 | 37.52             | 44.64                         | 74.00              | 29.36          | Peak   |
| 4 | 9330.00        | 37.56                    | 5.43                  | 34.33                 | 37.75             | 46.41                         | 74.00              | 27.59          | Peak   |
| 5 | 12220.00       | 39.79                    | 6.04                  | 34.71                 | 37.04             | 48.16                         | 74.00              | 25.84          | Peak   |
| 6 | 14107.00       | 41.08                    | 6.61                  | 34.33                 | 35.70             | 49.06                         | 74.00              | 24.94          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

## Note:

1. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test, only Low/Middle/High Channel of the worst case modulation mode was reported.

## Radiated Band Edge

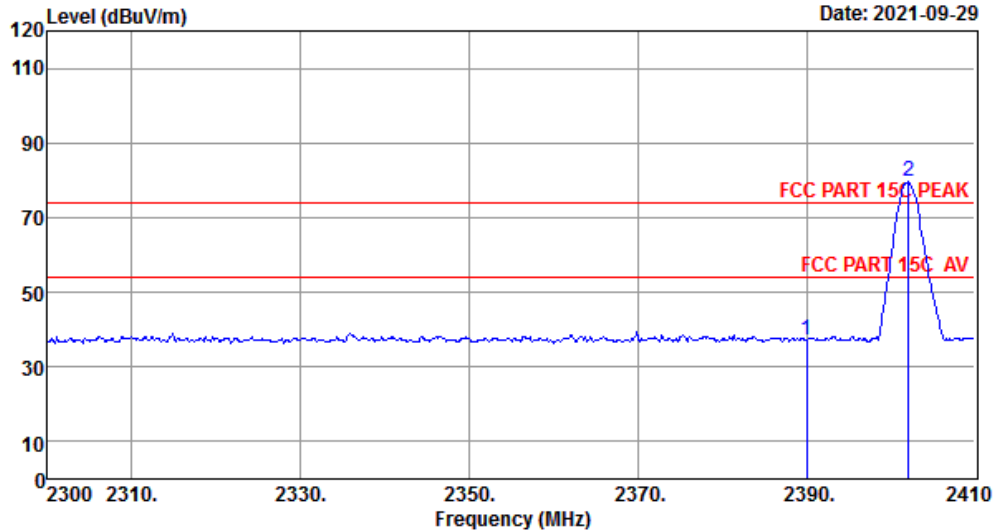
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Data: 25

File: \\EMC-966-1\test data\2021\RF\T\TAI\DK001.EM6 (38)

Date: 2021-09-29



Site no. : 1#966 Chamber Data no. : 25  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:26.5';Humi:57%;Press:101.52kPa  
 Engineer : DUO  
 EUT : Deeprio FlowBuds Sport  
 Power : DC 3.7V From Battery  
 M/N : DK001  
 Test Mode : 8-DPSK TX 2402MHz  
 Left Earbud

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2390.00        | 27.26                    | 1.45                  | 34.64                 | 43.08             | 37.15                         | 74.00              | 36.85          | Peak   |
| 2 | 2402.08        | 27.26                    | 1.45                  | 34.64                 | 85.62             | 79.69                         | 74.00              | -5.69          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

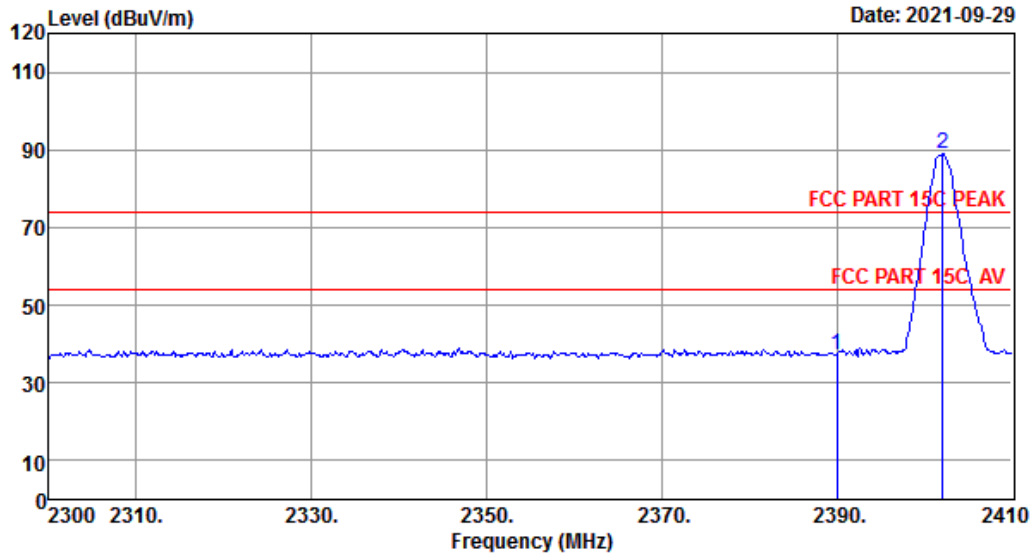
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Data: 26

File: \\EMC-966-1\\test data\\2021\\RF\\IT\\TAIJ\\DK001.EM6 (38)

Date: 2021-09-29



Site no. : 1#966 Chamber Data no. : 26  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:26.5';Humi:57%;Press:101.52kPa  
 Engineer : DUO  
 EUT : Deeprio FlowBuds Sport  
 Power : DC 3.7V From Battery  
 M/N : DK001  
 Test Mode : 8-DPSK TX 2402MHz  
 Left Earbud

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2390.00        | 27.26                    | 1.45                  | 34.64                 | 43.24             | 37.31                         | 74.00              | 36.69          | Peak   |
| 2 | 2402.08        | 27.26                    | 1.45                  | 34.64                 | 95.01             | 89.08                         | 74.00              | -15.08         | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

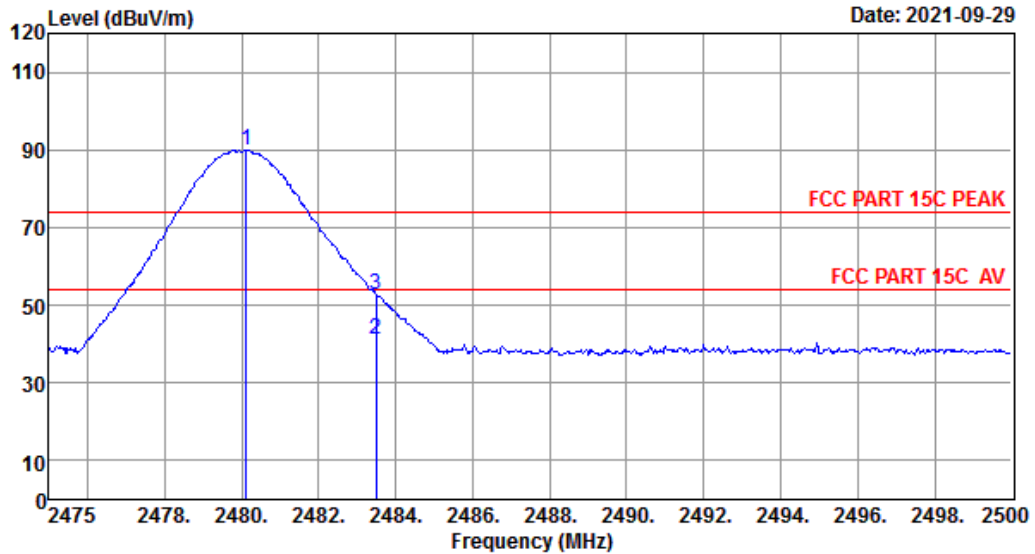
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Data: 27

File: \\EMC-966-1\\test data\\2021\\RF\\T\\TA\\JNDK001.EM6 (38)

Date: 2021-09-29



Site no. : 1#966 Chamber Data no. : 27  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:26.5';Humi:57%;Press:101.52kPa  
 Engineer : DUO  
 EUT : Deeprio FlowBuds Sport  
 Power : DC 3.7V From Battery  
 M/N : DK001  
 Test Mode : 8-DPSK TX 2480MHz  
 Left Earbud

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark  |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2480.13        | 27.38                    | 1.48                  | 34.61                 | 95.50             | 89.75                         | 74.00              | -15.75         | Peak    |
| 2 | 2483.50        | 27.38                    | 1.48                  | 34.61                 | 47.14             | 41.39                         | 74.00              | 32.61          | Average |
| 3 | 2483.50        | 27.38                    | 1.48                  | 34.61                 | 58.55             | 52.80                         | 74.00              | 21.20          | Peak    |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

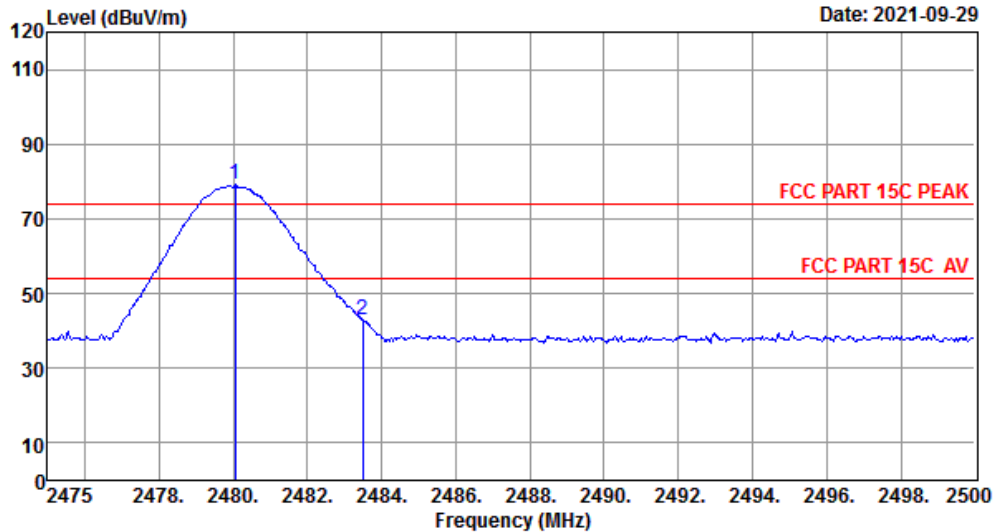
## EST Technology

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Data: 28

File: \\EMC-966-1\\test data\\2021\\RF\\T\\TA\\J\\DK001.EM6 (38)

Date: 2021-09-29



Site no. : 1#966 Chamber Data no. : 28  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:26.5';Humi:57%;Press:101.52kPa  
 Engineer : DUO  
 EUT : Deeprio FlowBuds Sport  
 Power : DC 3.7V From Battery  
 M/N : DK001  
 Test Mode : 8-DPSK TX 2480MHz  
 Left Earbud

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2480.05        | 27.38                    | 1.48                  | 34.61                 | 84.82             | 79.07                         | 74.00              | -5.07          | Peak   |
| 2 | 2483.50        | 27.38                    | 1.48                  | 34.61                 | 48.54             | 42.79                         | 74.00              | 31.21          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. All test mode had been pre-test, only Low/High Channel of the worst case modulation mode was reported.

## 11. ANTENNA REQUIREMENTS

### 11.1. Limit

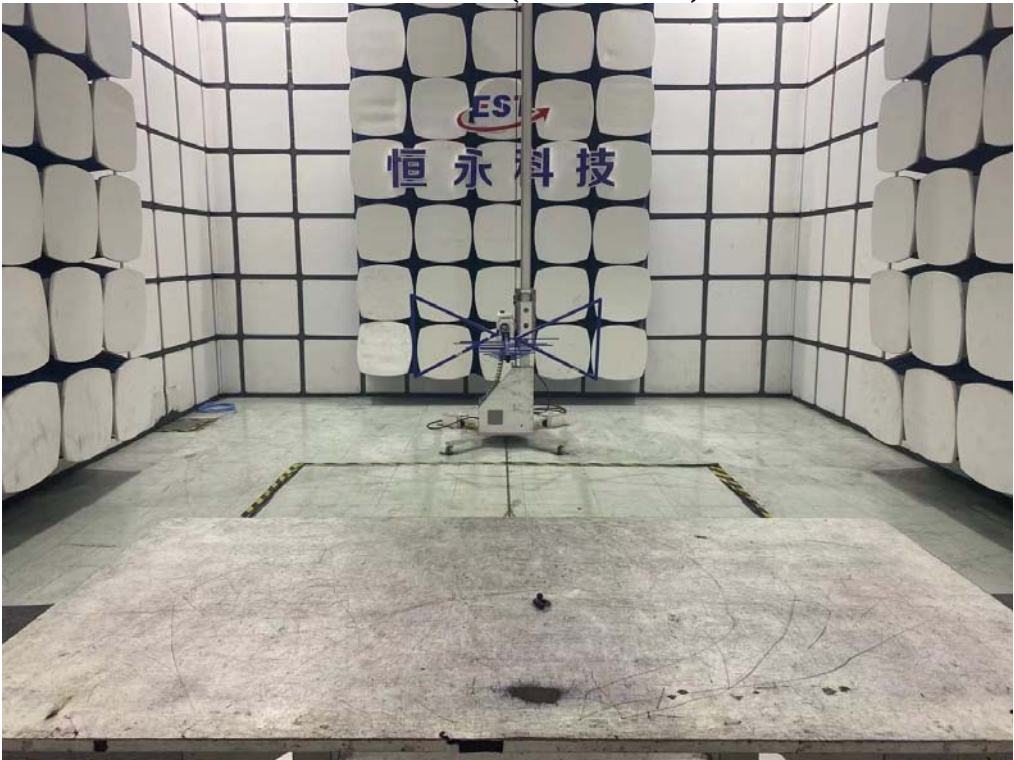
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### 11.2. Test Result

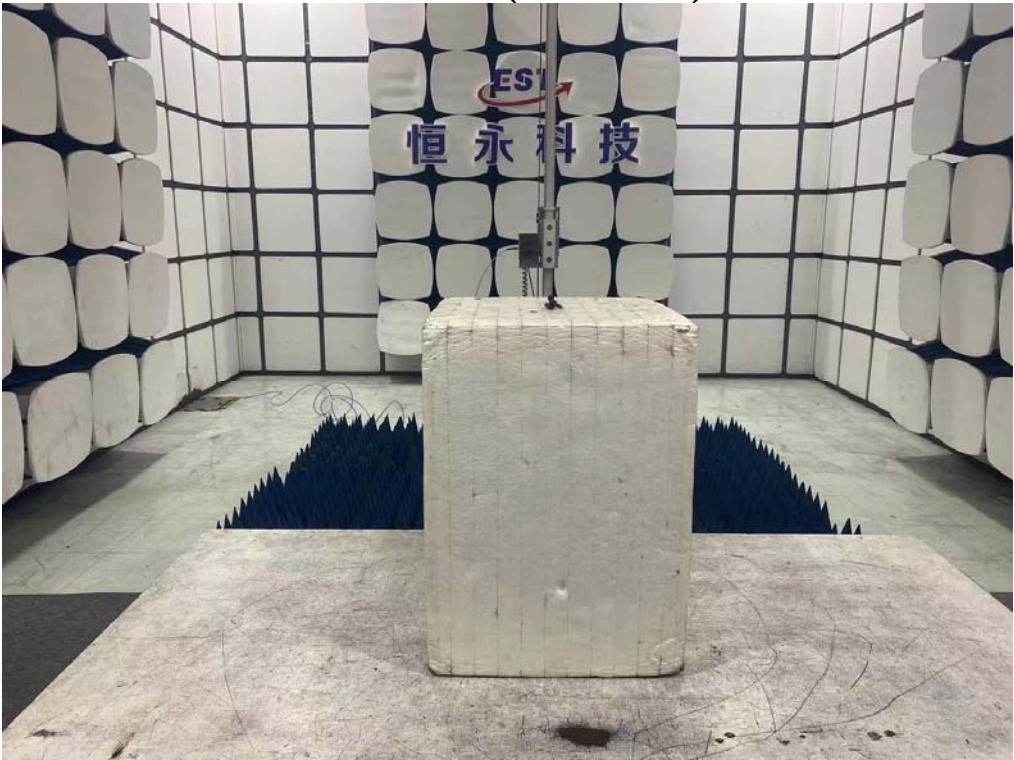
The antennas used for this product is internal antenna ,so compliance with antenna requirements.  
( Please refer to the EUT photo for details)

12. TEST SETUP PHOTO

Radiated Test (Below 1GHz)



Radiated Test (Above 1GHz)



13. EUT PHOTO

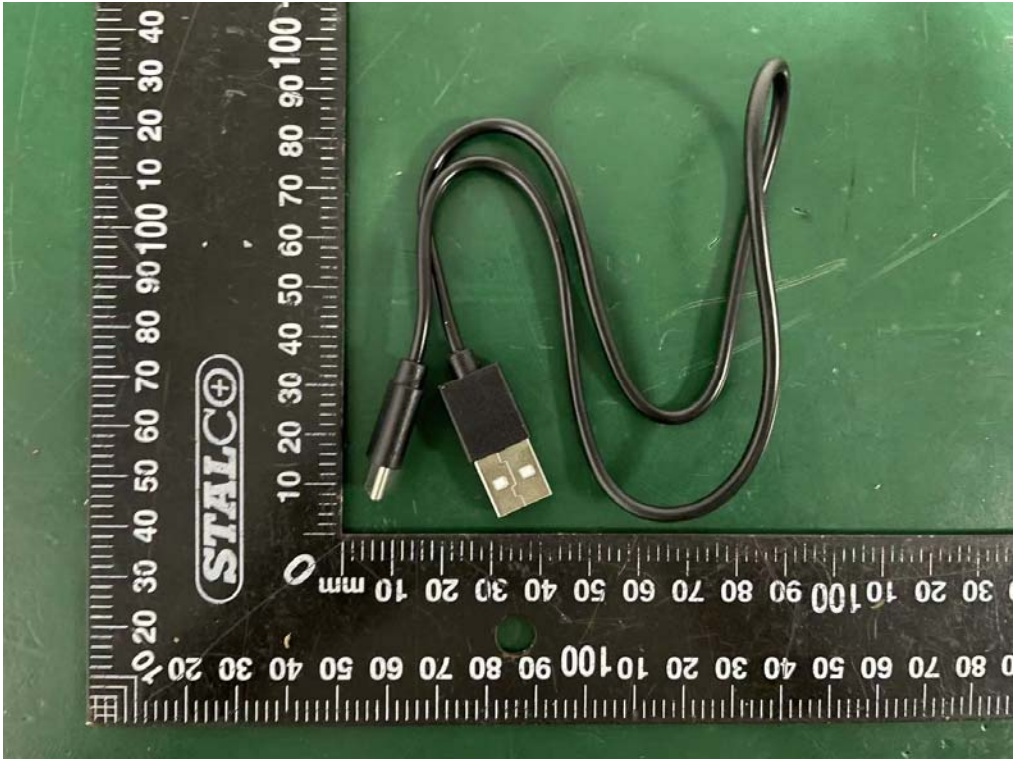
External Photos  
M/N: DK001



External Photos  
M/N: DK001



External Photos  
M/N: DK001



External Photos  
M/N: DK001



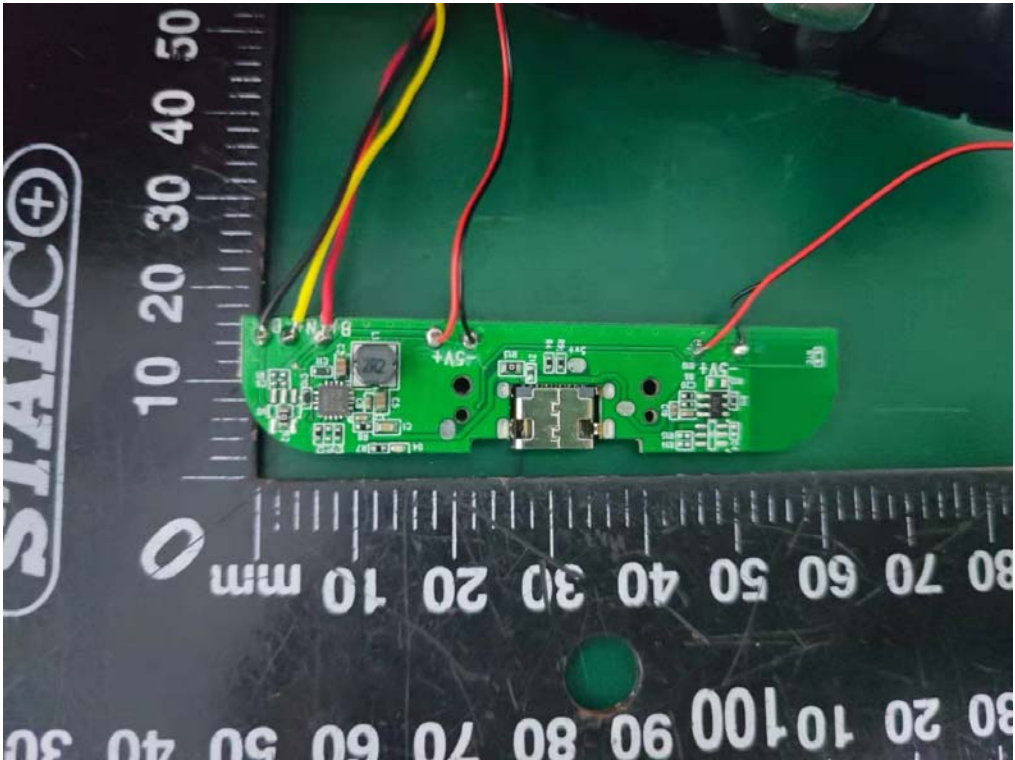
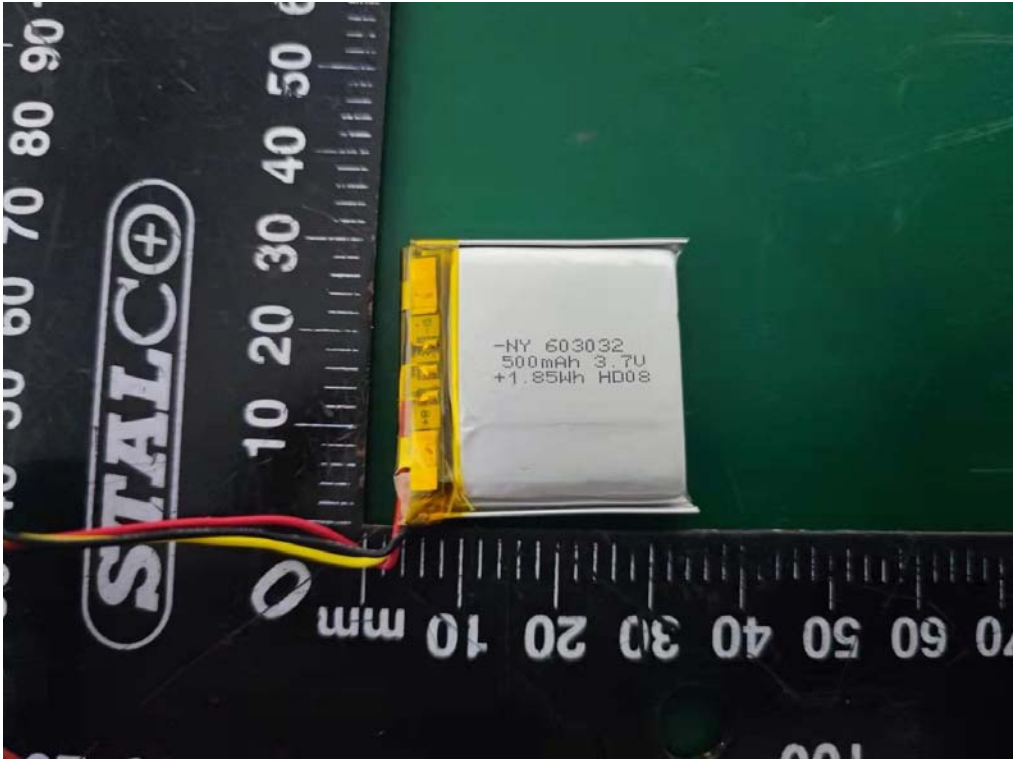
External Photos  
M/N: DK001



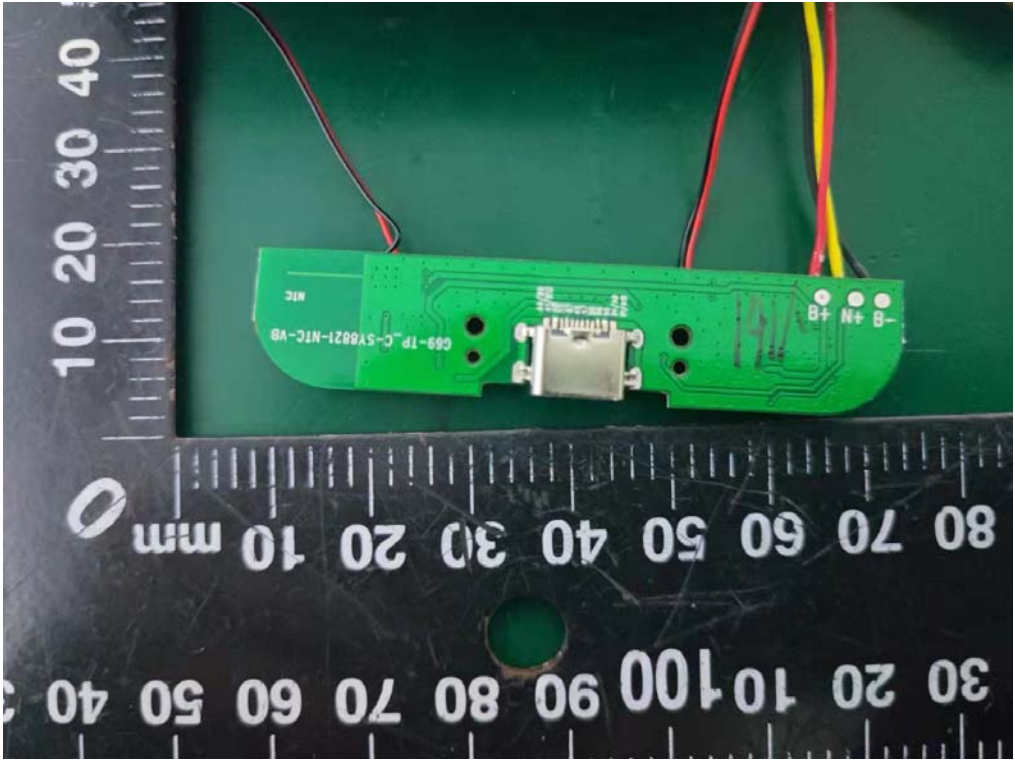
External Photos  
M/N: DK001



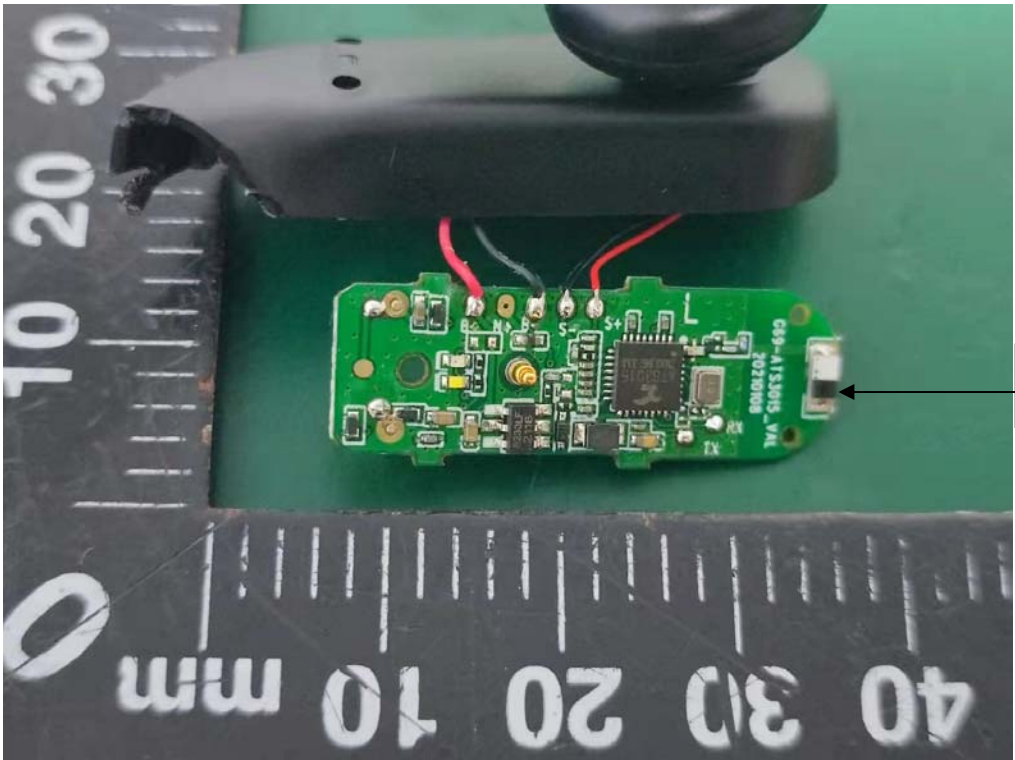
Internal Photos  
M/N: DK001



Internal Photos  
M/N: DK001



Internal Photos  
M/N: DK001



Bluetooth  
Antenna

End of Test Report