



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street,  
Bao'an District, Shenzhen, China

## FCC PART 15 SUBPART C TEST REPORT

### FCC PART 15.247

Report Reference No.....: CTA24050900401

FCC ID.....: XR3-GO6

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Date of issue.....: May. 13, 2024

Testing Laboratory Name .....: Shenzhen CTA Testing Technology Co., Ltd.

Address.....: Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,  
Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name .....: Onyx International Inc.

Address .....: Room 101, Building 4, No. 202 Shiyu Road, Nansha District,  
Guangzhou City, Guangdong Province, China

Test specification .....

Standard .....: FCC Part 15.247

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Equipment description.....: E Ink Tablet, ePaper Tablet, Digital Paper, E reader, Paper tablet, eBook reader

Trade Mark .....: BOOX

Manufacturer .....: Onyx International Inc.

Model/Type reference.....: Go 6

Listed Models .....: Refer to page 2

Modulation .....: GFSK

Frequency.....: From 2402MHz to 2480MHz

Ratings .....: DC 3.8V From battery and DC 5.0V From external circuit

Result.....: PASS

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## TEST REPORT

Equipment under Test : E Ink Tablet, ePaper Tablet, Digital Paper, E reader, Paper tablet, eBook reader

Model /Type : Go 6

Listed Models : BOOX Go 6, BOOX Go 6 Plus, BOOX Go 6 Pro, BOOX Go 6 Lite, BOOX Go Color 6, BOOX Go Color 6 Plus, BOOX Go Color 6 Pro

Applicant : Onyx International Inc.

Address : Room 101, Building 4, No. 202 Shiyu Road, Nansha District, Guangzhou City, Guangdong Province, China

Manufacturer : Onyx International Inc.

Address : Room 101, Building 4, No. 202 Shiyu Road, Nansha District, Guangzhou City, Guangdong Province, China

|              |      |
|--------------|------|
| Test Result: | PASS |
|--------------|------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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## 1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB558074 D01 V05r02](#): Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

## 2 SUMMARY

### 2.1 General Remarks

|                                |   |               |
|--------------------------------|---|---------------|
| Date of receipt of test sample | : | May. 06, 2024 |
| Testing commenced on           | : | May. 06, 2024 |
| Testing concluded on           | : | May. 13, 2024 |

### 2.2 Product Description\*

|                                                                   |                                                                                  |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Product Description:                                              | E Ink Tablet, ePaper Tablet, Digital Paper, E reader, Paper tablet, eBook reader |
| Model/Type reference:                                             | Go 6                                                                             |
| Power supply:                                                     | DC 3.8V From battery and DC 5.0V From external circuit                           |
| Adapter information<br>(Auxiliary test supplied by<br>test Lab) : | Model: EP-TA20CBC<br>Input: AC 100-240V 50/60H<br>Output: DC 5V 2A               |
| Hardware version:                                                 | V1.0                                                                             |
| Software version:                                                 | V1.0                                                                             |
| Testing sample ID:                                                | CTA240509004-1# (Engineer sample)<br>CTA240509004-2# (Normal sample)             |
| <b>Bluetooth BLE</b>                                              |                                                                                  |
| Supported type:                                                   | Bluetooth low Energy                                                             |
| Modulation:                                                       | GFSK                                                                             |
| Operation frequency:                                              | 2402MHz to 2480MHz                                                               |
| Channel number:                                                   | 40                                                                               |
| Channel separation:                                               | 2 MHz                                                                            |
| Antenna type:                                                     | PIFA antenna                                                                     |
| Antenna gain:                                                     | 2.50 dBi                                                                         |

### 2.3 Equipment Under Test

#### Power supply system utilised

|                      |   |                                                                   |                                   |
|----------------------|---|-------------------------------------------------------------------|-----------------------------------|
| Power supply voltage | : | <input type="radio"/> 230V / 50 Hz                                | <input type="radio"/> 120V / 60Hz |
|                      |   | <input type="radio"/> 12 V DC                                     | <input type="radio"/> 24 V DC     |
|                      |   | <input checked="" type="radio"/> Other (specified in blank below) |                                   |

DC 3.8V From battery and DC 5.0V From external circuit

### 2.4 Short description of the Equipment under Test (EUT)

This is an E Ink Tablet, ePaper Tablet, Digital Paper, E reader, Paper tablet, eBook reader.  
For more details, refer to the user's manual of the EUT.

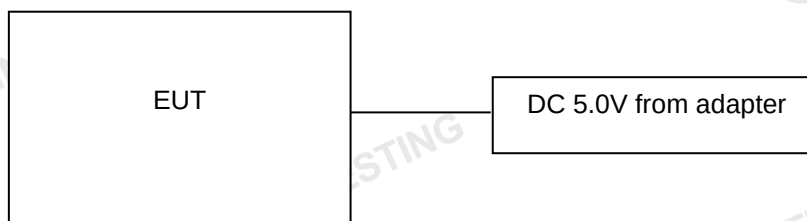
## 2.5 EUT operation mode

The Applicant provides command “\*\*\*3646633\*\*\*” access (Engineer mode) to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing. There are 40 channels provided to the EUT and Channel 00/19/39 were selected to test.

### Operation Frequency:

| Channel | Frequency (MHz) |
|---------|-----------------|
| 00      | 2402            |
| 01      | 2404            |
| 02      | 2406            |
| ⋮       | ⋮               |
| 19      | 2440            |
| ⋮       | ⋮               |
| 37      | 2476            |
| 38      | 2478            |
| 39      | 2480            |

## 2.6 Block Diagram of Test Setup



## 2.7 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

## 2.8 Modifications

No modifications were implemented to meet testing criteria.

### 3 TEST ENVIRONMENT

#### 3.1 Address of the test laboratory

**Shenzhen CTA Testing Technology Co., Ltd.**

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

#### 3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

**FCC-Registration No.: 517856 Designation Number: CN1318**

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

**A2LA-Lab Cert. No.: 6534.01**

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

#### 3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Radiated Emission:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 23 ° C       |
|                       |              |
| Humidity:             | 44 %         |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

AC Main Conducted testing:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 24 ° C       |
|                       |              |
| Humidity:             | 47 %         |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

Conducted testing:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 24 ° C       |
|                       |              |
| Humidity:             | 46 %         |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |



### 3.4 Summary of measurement results

| Test Specification clause | Test case                                 | Test Mode | Test Channel                                                                                                                            | Recorded In Report |                                                                                                                                         | Test result |
|---------------------------|-------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------|
| §15.247(e)                | Power spectral density                    | BLE 1Mbps | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | BLE 1Mbps          | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | complies    |
| §15.247(a)(2)             | Spectrum bandwidth – 6 dB bandwidth       | BLE 1Mbps | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | BLE 1Mbps          | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | complies    |
| §15.247(b)(3)             | Maximum output Peak power                 | BLE 1Mbps | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | BLE 1Mbps          | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | complies    |
| §15.247(d)                | Band edge compliance conducted            | BLE 1Mbps | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Highest                                               | BLE 1Mbps          | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Highest                                               | complies    |
| §15.205                   | Band edge compliance radiated             | BLE 1Mbps | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Highest                                               | BLE 1Mbps          | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Highest                                               | complies    |
| §15.247(d)                | TX spurious emissions conducted           | BLE 1Mbps | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | BLE 1Mbps          | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | complies    |
| §15.247(d)                | TX spurious emissions radiated            | BLE 1Mbps | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | BLE 1Mbps          | <input checked="" type="checkbox"/> Lowest<br><input checked="" type="checkbox"/> Middle<br><input checked="" type="checkbox"/> Highest | complies    |
| §15.209(a)                | TX spurious Emissions radiated Below 1GHz | BLE 1Mbps | -/-                                                                                                                                     | BLE 1Mbps          | -/-                                                                                                                                     | complies    |
| §15.107(a)<br>§15.207     | Conducted Emissions < 30 MHz              | BLE 1Mbps | -/-                                                                                                                                     | BLE 1Mbps          | -/-                                                                                                                                     | complies    |

Remark:

1. The measurement uncertainty is not included in the test result.
2. We tested all test mode and recorded worst case in report

### 3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

|                                          |             |         |     |
|------------------------------------------|-------------|---------|-----|
| Radiated Emission                        | 9KHz~30MHz  | 3.02 dB | (1) |
| Radiated Emission                        | 30~1000MHz  | 4.06 dB | (1) |
| Radiated Emission                        | 1~18GHz     | 5.14 dB | (1) |
| Radiated Emission                        | 18-40GHz    | 5.38 dB | (1) |
| Conducted Disturbance                    | 0.15~30MHz  | 2.14 dB | (1) |
| Output Peak power                        | 30MHz~18GHz | 0.55 dB | (1) |
| Power spectral density                   | /           | 0.57 dB | (1) |
| Spectrum bandwidth                       | /           | 1.1%    | (1) |
| Radiated spurious emission (30MHz-1GHz)  | 30~1000MHz  | 4.10 dB | (1) |
| Radiated spurious emission (1GHz-18GHz)  | 1~18GHz     | 4.32 dB | (1) |
| Radiated spurious emission (18GHz-40GHz) | 18-40GHz    | 5.54 dB | (1) |

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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### 3.6 Equipments Used during the Test

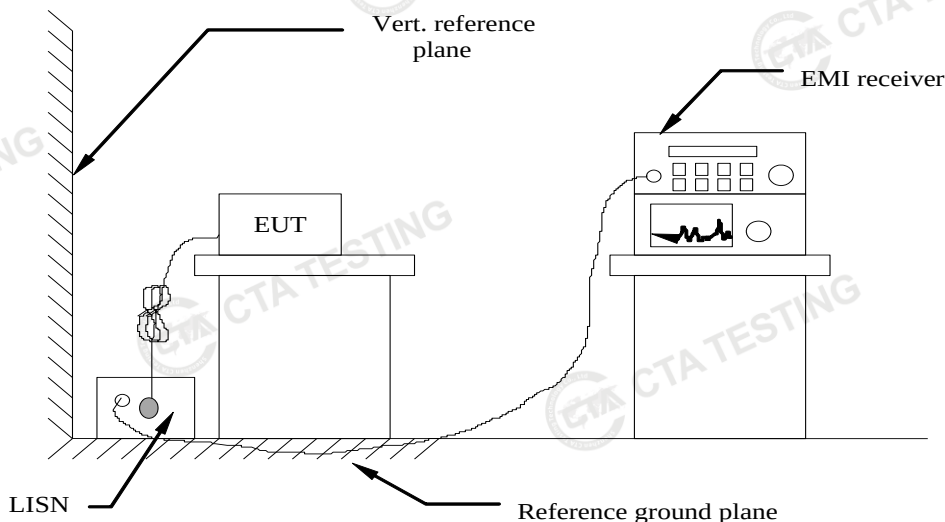
| Test Equipment                      | Manufacturer           | Model No.   | Equipment No. | Calibration Date | Calibration Due Date |
|-------------------------------------|------------------------|-------------|---------------|------------------|----------------------|
| LISN                                | R&S                    | ENV216      | CTA-308       | 2023/08/02       | 2024/08/01           |
| LISN                                | R&S                    | ENV216      | CTA-314       | 2023/08/02       | 2024/08/01           |
| EMI Test Receiver                   | R&S                    | ESPI        | CTA-307       | 2023/08/02       | 2024/08/01           |
| EMI Test Receiver                   | R&S                    | ESCI        | CTA-306       | 2023/08/02       | 2024/08/01           |
| Spectrum Analyzer                   | Agilent                | N9020A      | CTA-301       | 2023/08/02       | 2024/08/01           |
| Spectrum Analyzer                   | R&S                    | FSP         | CTA-337       | 2023/08/02       | 2024/08/01           |
| Vector Signal generator             | Agilent                | N5182A      | CTA-305       | 2023/08/02       | 2024/08/01           |
| Analog Signal Generator             | R&S                    | SML03       | CTA-304       | 2023/08/02       | 2024/08/01           |
| WIDEBAND RADIO COMMUNICATION TESTER | CMW500                 | R&S         | CTA-302       | 2023/08/02       | 2024/08/01           |
| Temperature and humidity meter      | Chigo                  | ZG-7020     | CTA-326       | 2023/08/02       | 2024/08/01           |
| Ultra-Broadband Antenna             | Schwarzbeck            | VULB9163    | CTA-310       | 2023/10/17       | 2024/10/16           |
| Horn Antenna                        | Schwarzbeck            | BBHA 9120D  | CTA-309       | 2023/10/13       | 2024/10/12           |
| Loop Antenna                        | Zhinan                 | ZN30900C    | CTA-311       | 2023/10/17       | 2024/10/16           |
| Horn Antenna                        | Beijing Hangwei Dayang | OBH100400   | CTA-336       | 2021/08/07       | 2024/08/06           |
| Amplifier                           | Schwarzbeck            | BBV 9745    | CTA-312       | 2023/08/02       | 2024/08/01           |
| Amplifier                           | Taiwan chengyi         | EMC051845B  | CTA-313       | 2023/08/02       | 2024/08/01           |
| Directional coupler                 | NARDA                  | 4226-10     | CTA-303       | 2023/08/02       | 2024/08/01           |
| High-Pass Filter                    | XingBo                 | XBLBQ-GTA18 | CTA-402       | 2023/08/02       | 2024/08/01           |
| High-Pass Filter                    | XingBo                 | XBLBQ-GTA27 | CTA-403       | 2023/08/02       | 2024/08/01           |
| Automated filter bank               | Tonscend               | JS0806-F    | CTA-404       | 2023/08/02       | 2024/08/01           |
| Power Sensor                        | Agilent                | U2021XA     | CTA-405       | 2023/08/02       | 2024/08/01           |
| Amplifier                           | Schwarzbeck            | BBV9719     | CTA-406       | 2023/08/02       | 2024/08/01           |

| Test Equipment    | Manufacturer | Model No.   | Version number | Calibration Date | Calibration Due Date |
|-------------------|--------------|-------------|----------------|------------------|----------------------|
| EMI Test Software | Tonscend     | TS®JS32-RE  | 5.0.0.2        | N/A              | N/A                  |
| EMI Test Software | Tonscend     | TS®JS32-CE  | 5.0.0.1        | N/A              | N/A                  |
| RF Test Software  | Tonscend     | TS®JS1120-3 | 3.1.65         | N/A              | N/A                  |
| RF Test Software  | Tonscend     | TS®JS1120   | 3.1.46         | N/A              | N/A                  |

## 4 TEST CONDITIONS AND RESULTS

### 4.1 AC Power Conducted Emission

#### TEST CONFIGURATION



#### TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

#### AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

| Frequency range (MHz) | Limit (dBuV) |           |
|-----------------------|--------------|-----------|
|                       | Quasi-peak   | Average   |
| 0.15-0.5              | 66 to 56*    | 56 to 46* |
| 0.5-5                 | 56           | 46        |
| 5-30                  | 60           | 50        |

\* Decreases with the logarithm of the frequency.

#### TEST RESULTS

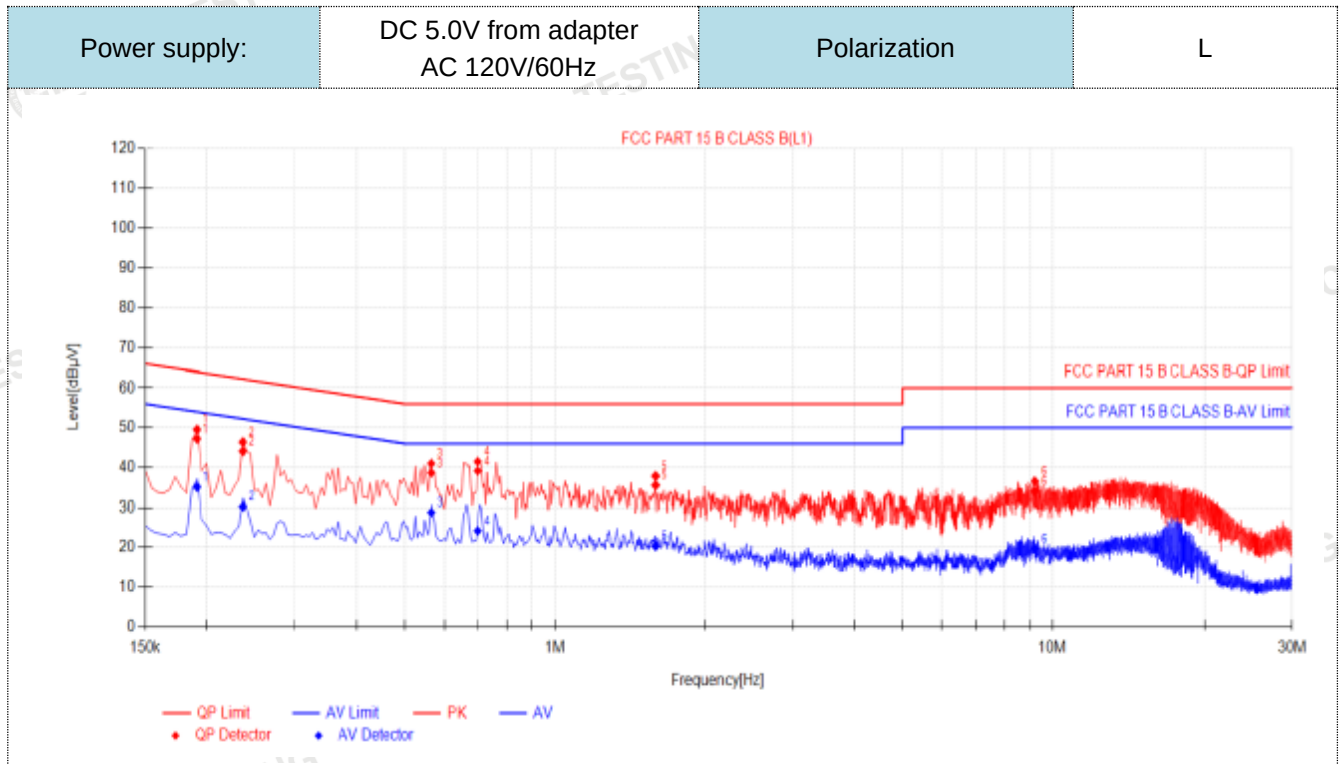
Remark:

1. BLE 1Mbps was tested at Low, Middle, and High channel; only the worst result of BLE 1Mbps High channel was reported as below:

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2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:



### Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading[dB μV] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Reading [dBμV] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Verdict |
|-----|-------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1   | 0.1905      | 10.05       | 37.18             | 47.23           | 64.01           | 16.78          | 25.03             | 35.08           | 54.01           | 18.93          | PASS    |
| 2   | 0.2355      | 9.98        | 34.11             | 44.09           | 62.25           | 18.16          | 20.30             | 30.28           | 52.25           | 21.97          | PASS    |
| 3   | 0.564       | 10.04       | 28.83             | 38.87           | 56.00           | 17.33          | 18.76             | 28.80           | 46.00           | 17.20          | PASS    |
| 4   | 0.899       | 9.91        | 29.24             | 39.15           | 56.00           | 16.85          | 14.28             | 24.19           | 46.00           | 21.81          | PASS    |
| 5   | 1.59        | 9.91        | 25.62             | 35.53           | 56.00           | 20.47          | 10.46             | 20.37           | 46.00           | 25.63          | PASS    |
| 6   | 9.2175      | 10.26       | 23.72             | 33.98           | 60.00           | 26.02          | 9.42              | 19.68           | 50.00           | 30.32          | PASS    |

Note:1). QP Value (dBμV) = QP Reading (dBμV) + Factor (dB)

2). Factor (dB) = insertion loss of LISN (dB) + Cable loss (dB)

3). QPMargin(dB) = QP Limit (dBμV) - QP Value (dBμV)

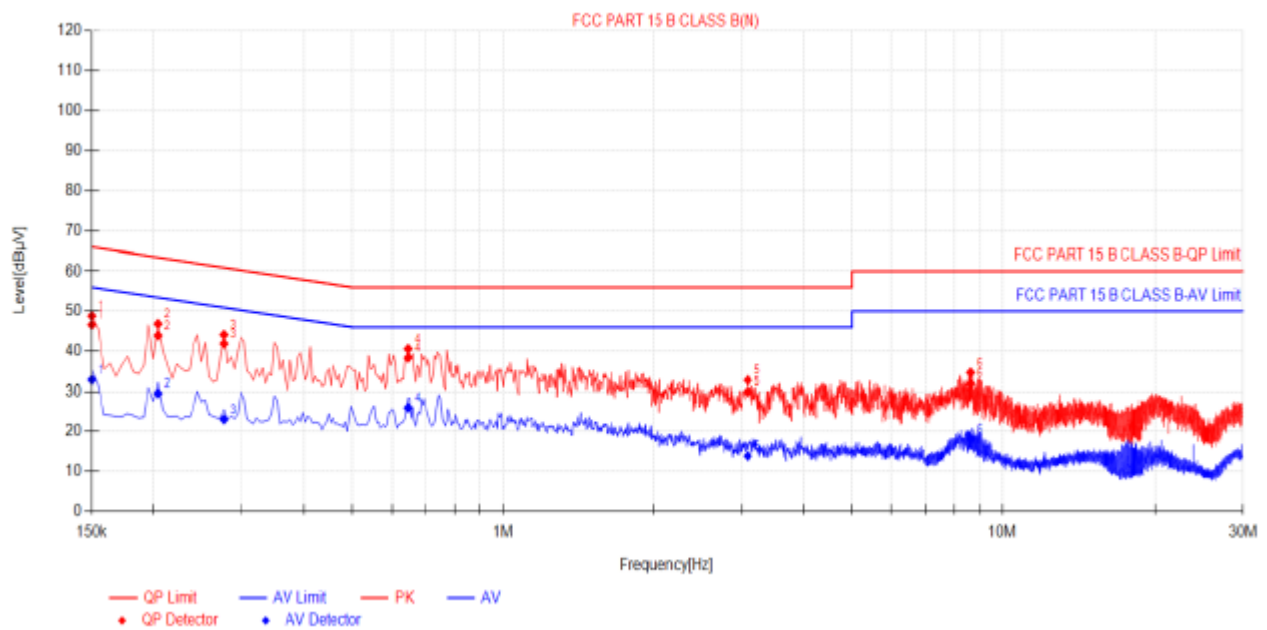
4). AVMargin(dB) = AV Limit (dBμV) - AV Value (dBμV)

Power supply:

DC 5.0V from adapter  
AC 120V/60Hz

Polarization

N



## Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading [dBμV] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Reading [dBμV] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Verdict |
|-----|-------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1   | 0.15        | 9.98        | 36.63             | 46.61           | 66.00           | 19.39          | 22.87             | 32.85           | 56.00           | 23.15          | PASS    |
| 2   | 0.204       | 9.96        | 33.94             | 43.90           | 63.45           | 19.55          | 19.57             | 29.53           | 53.45           | 23.92          | PASS    |
| 3   | 0.276       | 9.94        | 31.92             | 41.86           | 60.94           | 19.08          | 13.14             | 23.08           | 50.94           | 27.86          | PASS    |
| 4   | 0.645       | 10.11       | 28.22             | 38.33           | 56.00           | 17.67          | 15.85             | 25.96           | 46.00           | 20.04          | PASS    |
| 5   | 3.0885      | 10.23       | 19.69             | 29.92           | 56.00           | 26.08          | 3.67              | 13.90           | 46.00           | 32.10          | PASS    |
| 6   | 8.619       | 10.41       | 21.50             | 31.91           | 60.00           | 28.09          | 7.71              | 18.12           | 50.00           | 31.88          | PASS    |

Note:1). QP Value (dBμV) = QP Reading (dBμV) + Factor (dB)

2). Factor (dB) = insertion loss of LISN (dB) + Cable loss (dB)

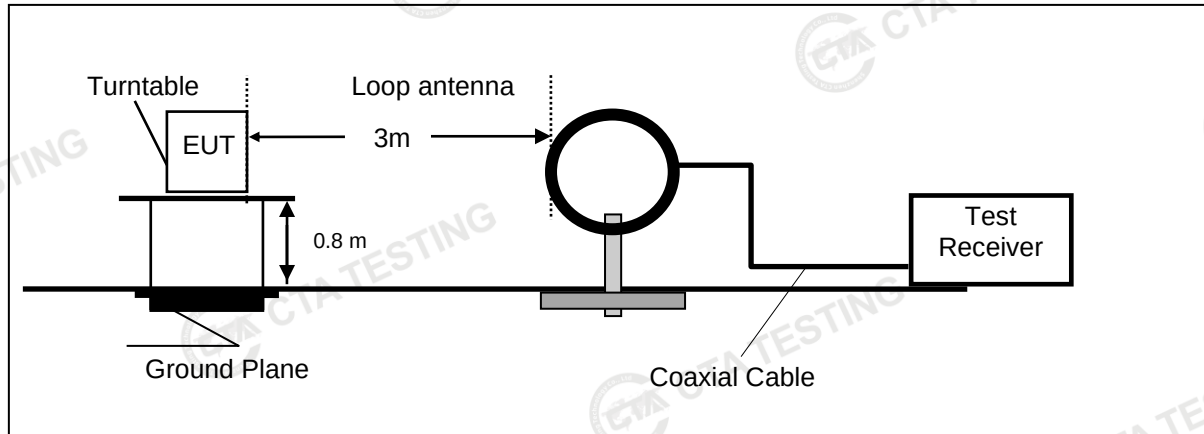
3). QPMargin(dB) = QP Limit (dBμV) - QP Value (dBμV)

4). AVMargin(dB) = AV Limit (dBμV) - AV Value (dBμV)

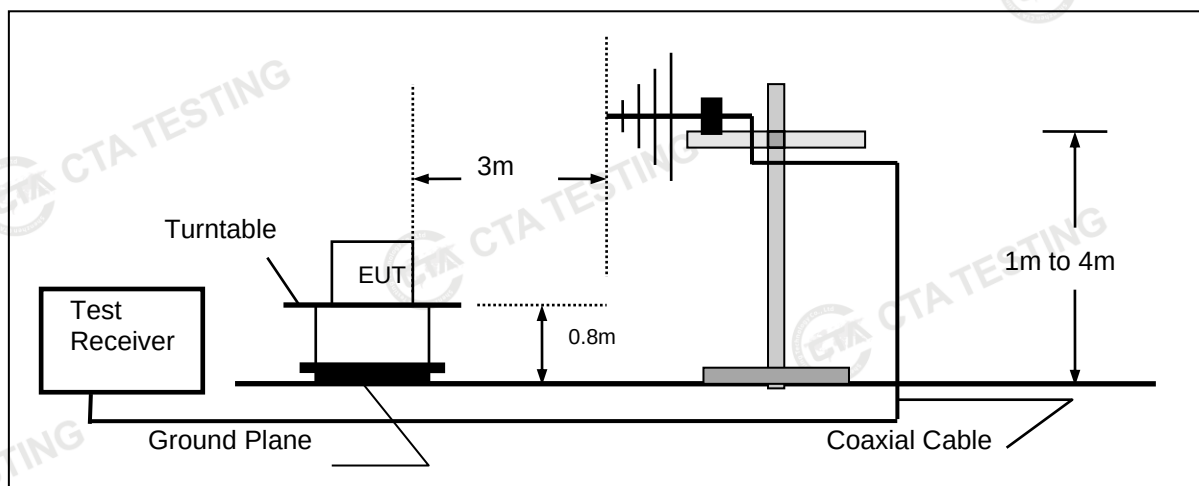
## 4.2 Radiated Emissions and Band Edge

### TEST CONFIGURATION

Frequency range 9 KHz – 30MHz

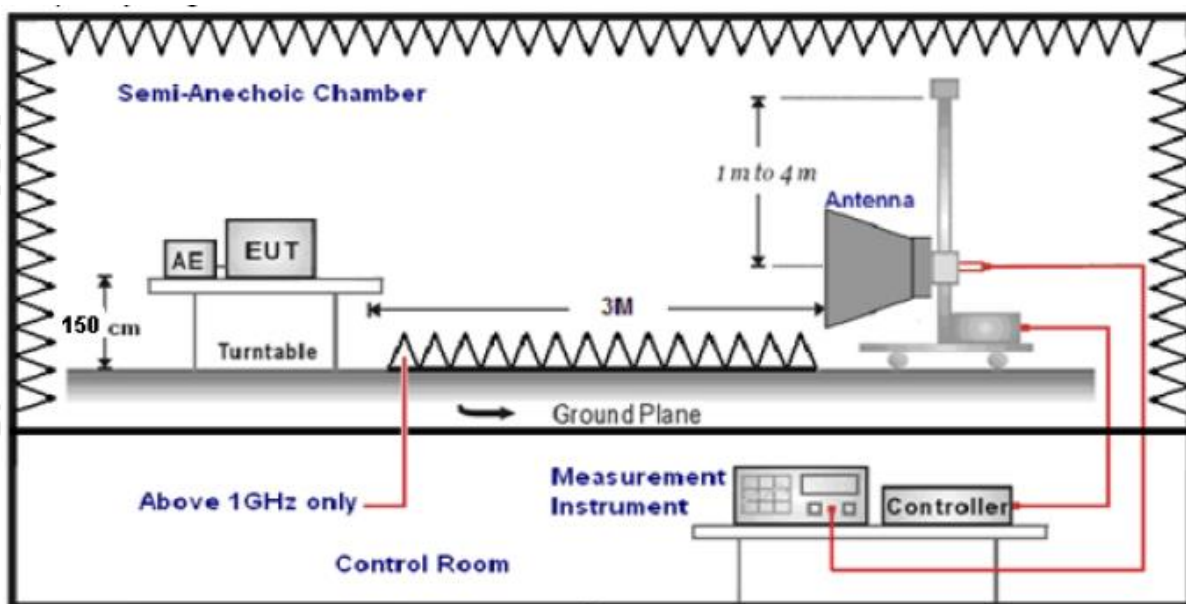


Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz





### TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. The EUT minimum operation frequency was 32.768KHz and maximum operation frequency was 2480MHz.so radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

| Test Frequency range | Test Antenna Type          | Test Distance |
|----------------------|----------------------------|---------------|
| 9KHz-30MHz           | Active Loop Antenna        | 3             |
| 30MHz-1GHz           | Ultra-Broadband Antenna    | 3             |
| 1GHz-18GHz           | Double Ridged Horn Antenna | 3             |
| 18GHz-25GHz          | Horn Antenna               | 1             |

7. Setting test receiver/spectrum as following table states:

| Test Frequency range | Test Receiver/Spectrum Setting                                                                            | Detector |
|----------------------|-----------------------------------------------------------------------------------------------------------|----------|
| 9KHz-150KHz          | RBW=200Hz/VBW=3KHz,Sweep time=Auto                                                                        | QP       |
| 150KHz-30MHz         | RBW=9KHz/VBW=100KHz,Sweep time=Auto                                                                       | QP       |
| 30MHz-1GHz           | RBW=120KHz/VBW=1000KHz,Sweep time=Auto                                                                    | QP       |
| 1GHz-40GHz           | Peak Value: RBW=1MHz/VBW=3MHz,<br>Sweep time=Auto<br>Average Value: RBW=1MHz/VBW=10Hz,<br>Sweep time=Auto | Peak     |

### Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

|                           |                                            |
|---------------------------|--------------------------------------------|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude    | AG = Amplifier Gain                        |
| AF = Antenna Factor       |                                            |

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Transd=AF +CL-AG

**RADIATION LIMIT**

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

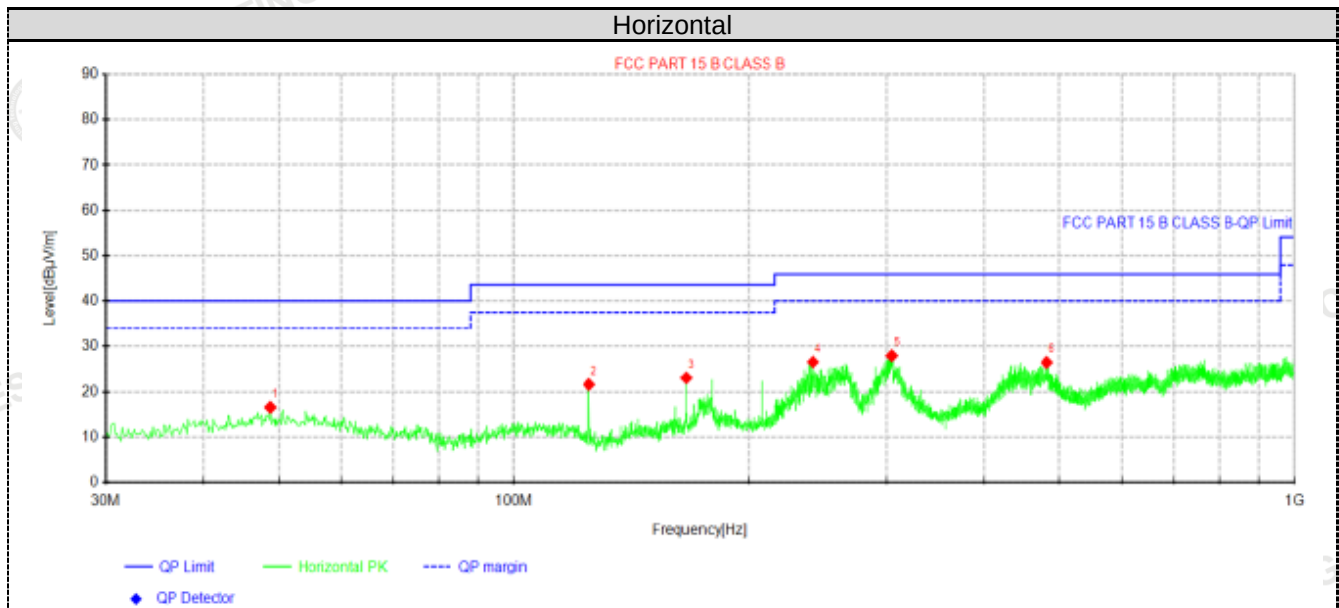
| Frequency (MHz) | Distance (Meters) | Radiated (dBμV/m)                          | Radiated (μV/m)       |
|-----------------|-------------------|--------------------------------------------|-----------------------|
| 0.009-0.49      | 3                 | $20\log(2400/F(\text{KHz}))+40\log(300/3)$ | $2400/F(\text{KHz})$  |
| 0.49-1.705      | 3                 | $20\log(24000/F(\text{KHz}))+40\log(30/3)$ | $24000/F(\text{KHz})$ |
| 1.705-30        | 3                 | $20\log(30)+40\log(30/3)$                  | 30                    |
| 30-88           | 3                 | 40.0                                       | 100                   |
| 88-216          | 3                 | 43.5                                       | 150                   |
| 216-960         | 3                 | 46.0                                       | 200                   |
| Above 960       | 3                 | 54.0                                       | 500                   |

**TEST RESULTS**

Remark:

1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
2. BLE 1Mbps were tested at Low, Middle, and High channel and recorded worst mode at BLE 1Mbps.
3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

**For 30MHz-1GHz**



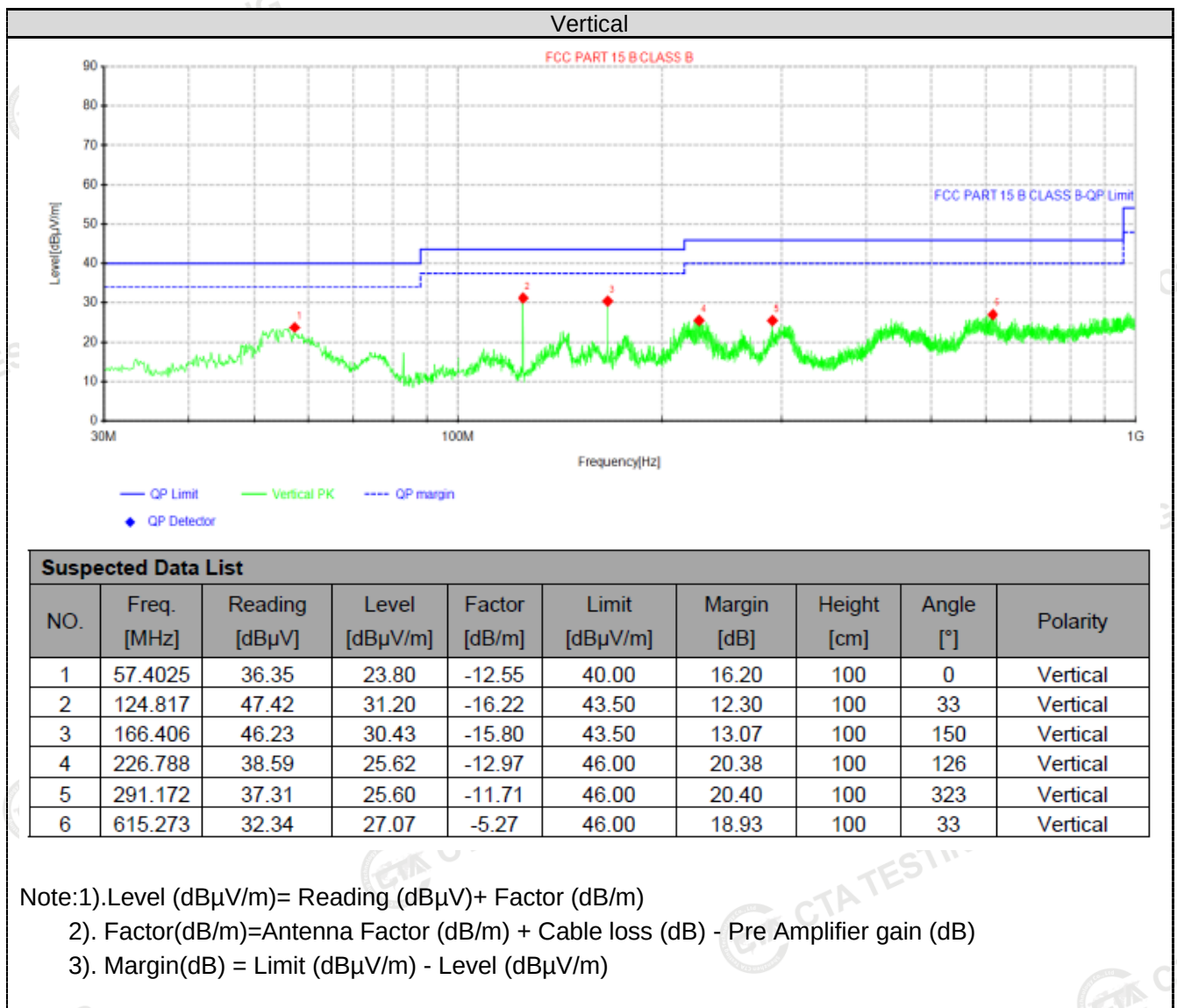
#### Suspected Data List

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV] | Level<br>[dBμV/m] | Factor<br>[dB/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|-------------------|-------------------|------------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 48.7938        | 28.15             | 16.64             | -11.51           | 40.00             | 23.36          | 100            | 357          | Horizontal |
| 2   | 124.817        | 37.82             | 21.60             | -16.22           | 43.50             | 21.90          | 100            | 248          | Horizontal |
| 3   | 166.406        | 38.91             | 23.11             | -15.80           | 43.50             | 20.39          | 100            | 236          | Horizontal |
| 4   | 241.581        | 39.47             | 26.62             | -12.85           | 46.00             | 19.38          | 100            | 73           | Horizontal |
| 5   | 304.631        | 39.34             | 27.99             | -11.35           | 46.00             | 18.01          | 100            | 109          | Horizontal |
| 6   | 481.656        | 36.09             | 26.53             | -9.56            | 46.00             | 19.47          | 100            | 212          | Horizontal |

Note:1). Level (dBμV/m) = Reading (dBμV) + Factor (dB/m)

2). Factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

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



For 1GHz to 25GHz

## GFSK (above 1GHz)

| Frequency(MHz): |                         |    | 2402           |             | Polarity:        |                       | HORIZONTAL        |                    |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 4804.00         | 61.73                   | PK | 74             | 12.27       | 66.00            | 32.33                 | 5.12              | 41.72              | -4.27                    |
| 4804.00         | 45.09                   | AV | 54             | 8.91        | 49.36            | 32.33                 | 5.12              | 41.72              | -4.27                    |
| 7206.00         | 52.52                   | PK | 74             | 21.48       | 53.04            | 36.6                  | 6.49              | 43.61              | -0.52                    |
| 7206.00         | 42.09                   | AV | 54             | 11.91       | 42.61            | 36.6                  | 6.49              | 43.61              | -0.52                    |

| Frequency(MHz): |                         |    | 2402           |             | Polarity:        |                       | VERTICAL          |                    |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 4804.00         | 59.07                   | PK | 74             | 14.93       | 63.34            | 32.33                 | 5.12              | 41.72              | -4.27                    |
| 4804.00         | 42.22                   | AV | 54             | 11.78       | 46.49            | 32.33                 | 5.12              | 41.72              | -4.27                    |
| 7206.00         | 50.64                   | PK | 74             | 23.36       | 51.16            | 36.6                  | 6.49              | 43.61              | -0.52                    |
| 7206.00         | 40.03                   | AV | 54             | 13.97       | 40.55            | 36.6                  | 6.49              | 43.61              | -0.52                    |

| Frequency(MHz): |                         |    | 2440           |             | Polarity:        |                       | HORIZONTAL        |                    |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 4880.00         | 61.36                   | PK | 74             | 12.64       | 65.24            | 32.6                  | 5.34              | 41.82              | -3.88                    |
| 4880.00         | 44.51                   | AV | 54             | 9.49        | 48.39            | 32.6                  | 5.34              | 41.82              | -3.88                    |
| 7320.00         | 53.20                   | PK | 74             | 20.80       | 53.31            | 36.8                  | 6.81              | 43.72              | -0.11                    |
| 7320.00         | 42.82                   | AV | 54             | 11.18       | 42.93            | 36.8                  | 6.81              | 43.72              | -0.11                    |

| Frequency(MHz): |                         |    | 2440           |             | Polarity:        |                       | VERTICAL          |                    |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 4880.00         | 58.75                   | PK | 74             | 15.25       | 62.63            | 32.6                  | 5.34              | 41.82              | -3.88                    |
| 4880.00         | 41.58                   | AV | 54             | 12.42       | 45.46            | 32.6                  | 5.34              | 41.82              | -3.88                    |
| 7320.00         | 50.90                   | PK | 74             | 23.10       | 51.01            | 36.8                  | 6.81              | 43.72              | -0.11                    |
| 7320.00         | 40.99                   | AV | 54             | 13.01       | 41.10            | 36.8                  | 6.81              | 43.72              | -0.11                    |

| Frequency(MHz): |                         |    | 2480           |             | Polarity:        |                       | HORIZONTAL        |                    |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 4960.00         | 60.81                   | PK | 74             | 13.19       | 63.89            | 32.73                 | 5.66              | 41.47              | -3.08                    |
| 4960.00         | 44.28                   | AV | 54             | 9.72        | 47.36            | 32.73                 | 5.66              | 41.47              | -3.08                    |
| 7440.00         | 52.69                   | PK | 74             | 21.31       | 52.24            | 37.04                 | 7.25              | 43.84              | 0.45                     |
| 7440.00         | 42.76                   | PK | 54             | 11.24       | 42.31            | 37.04                 | 7.25              | 43.84              | 0.45                     |

| Frequency(MHz): |                         |    | 2480           |             | Polarity:        |                       | VERTICAL          |                    |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 4960.00         | 58.91                   | PK | 74             | 15.09       | 61.99            | 32.73                 | 5.66              | 41.47              | -3.08                    |
| 4960.00         | 42.66                   | AV | 54             | 11.34       | 45.74            | 32.73                 | 5.66              | 41.47              | -3.08                    |
| 7440.00         | 50.94                   | PK | 74             | 23.06       | 50.49            | 37.04                 | 7.25              | 43.84              | 0.45                     |
| 7440.00         | 40.32                   | PK | 54             | 13.68       | 39.87            | 37.04                 | 7.25              | 43.84              | 0.45                     |

REMARKS:

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1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier
3. Margin value = Limit value - Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.

**Results of Band Edges Test (Radiated)****GFSK**

| Frequency(MHz): |                         |    | 2402           |             | Polarity:        |                       | HORIZONTAL        |                    |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 2390.00         | 61.54                   | PK | 74             | 12.46       | 71.96            | 27.42                 | 4.31              | 42.15              | -10.42                   |
| 2390.00         | 42.82                   | AV | 54             | 11.18       | 53.24            | 27.42                 | 4.31              | 42.15              | -10.42                   |
| Frequency(MHz): |                         |    | 2402           |             | Polarity:        |                       | VERTICAL          |                    |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 2390.00         | 59.50                   | PK | 74             | 14.50       | 69.92            | 27.42                 | 4.31              | 42.15              | -10.42                   |
| 2390.00         | 40.34                   | AV | 54             | 13.66       | 50.76            | 27.42                 | 4.31              | 42.15              | -10.42                   |
| Frequency(MHz): |                         |    | 2480           |             | Polarity:        |                       | HORIZONTAL        |                    |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 2483.50         | 62.02                   | PK | 74             | 11.98       | 72.13            | 27.7                  | 4.47              | 42.28              | -10.11                   |
| 2483.50         | 43.31                   | AV | 54             | 10.69       | 53.42            | 27.7                  | 4.47              | 42.28              | -10.11                   |
| Frequency(MHz): |                         |    | 2480           |             | Polarity:        |                       | VERTICAL          |                    |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 2483.50         | 59.03                   | PK | 74             | 14.97       | 69.14            | 27.7                  | 4.47              | 42.28              | -10.11                   |
| 2483.50         | 41.30                   | AV | 54             | 12.70       | 51.41            | 27.7                  | 4.47              | 42.28              | -10.11                   |

**REMARKS:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier
3. Margin value = Limit value - Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.



### 4.3 Maximum Peak Output Power

#### Limit

The Maximum Peak Output Power Measurement is 30dBm.

#### Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

#### Test Configuration



#### Test Results

| Type       | Channel | Output power (dBm) | Limit (dBm) | Result |
|------------|---------|--------------------|-------------|--------|
| GFSK 1Mbps | 00      | -2.12              | 30.00       | Pass   |
|            | 19      | -1.70              |             |        |
|            | 39      | -1.02              |             |        |

Note: 1.The test results including the cable lose.

#### 4.4 Power Spectral Density

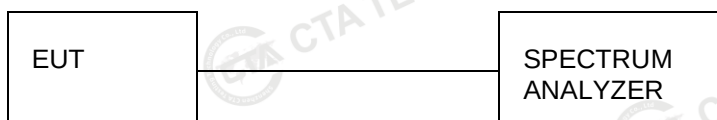
##### Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

##### Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW  $\geq 3$  kHz.
3. Set the VBW  $\geq 3 \times$  RBW.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be 8dBm.

##### Test Configuration

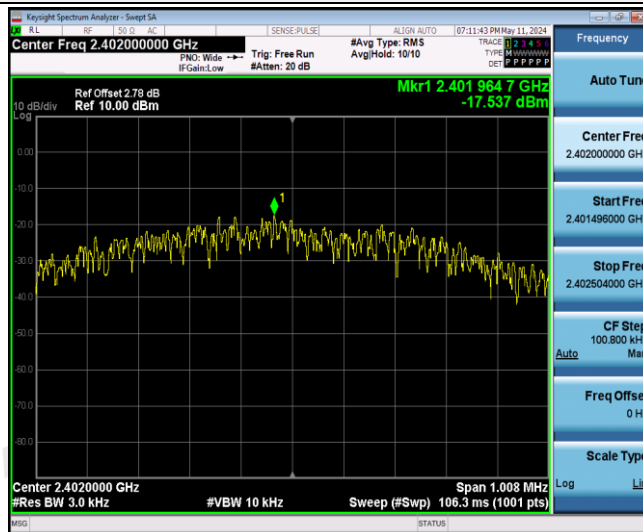


##### Test Results

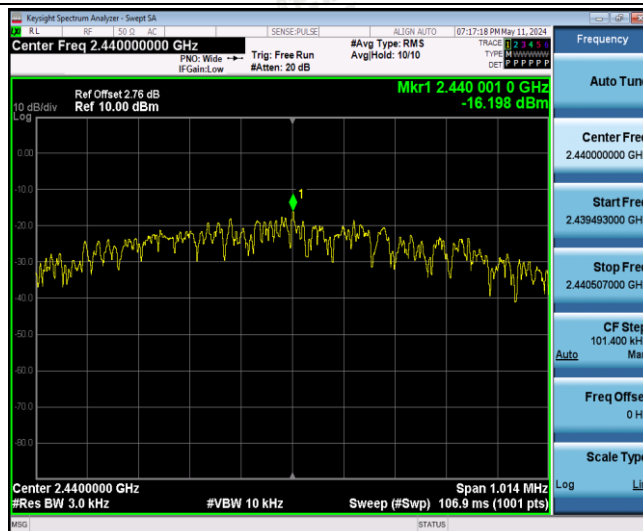
| Type       | Channel | Power Spectral Density (dBm/3KHz) | Limit (dBm/3KHz) | Result |
|------------|---------|-----------------------------------|------------------|--------|
| GFSK 1Mbps | 00      | -17.54                            | 8.00             | Pass   |
|            | 19      | -16.20                            |                  |        |
|            | 39      | -15.71                            |                  |        |

Test plot as follows:

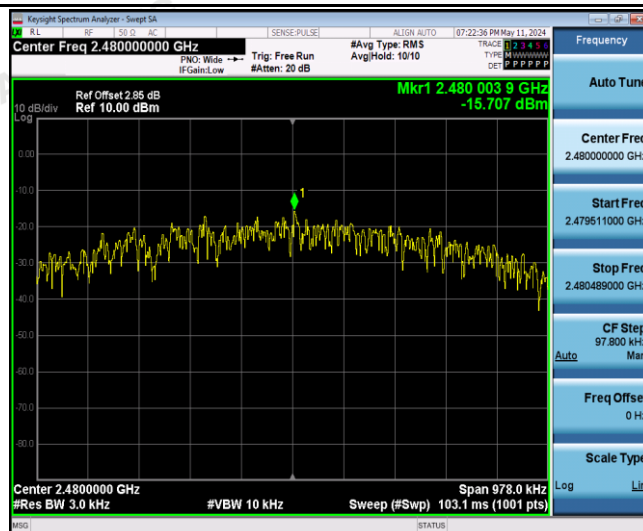
## BLE GFSK 1Mbps



## CH00



## CH19



## CH39

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#### 4.5 6dB Bandwidth

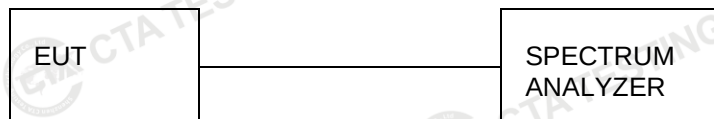
##### Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

##### Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

##### Test Configuration



##### Test Results

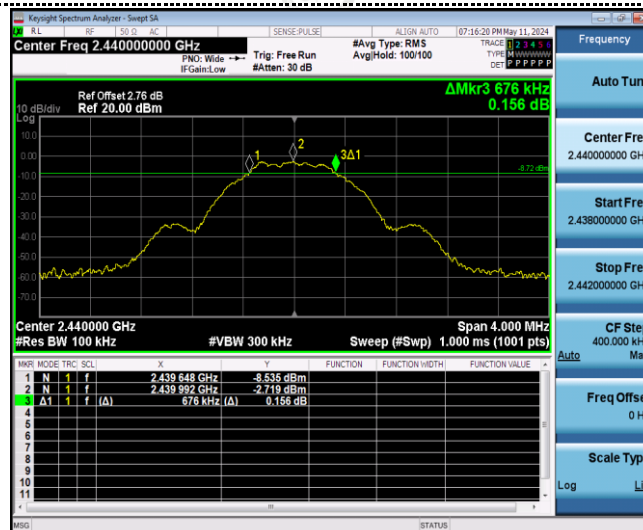
| Type       | Channel | 6dB Bandwidth (MHz) | Limit (KHz) | Result |
|------------|---------|---------------------|-------------|--------|
| GFSK 1Mbps | 00      | 0.672               | ≥500        | Pass   |
|            | 19      | 0.676               |             |        |
|            | 39      | 0.652               |             |        |

Test plot as follows:

## BLE GFSK 1Mbps



## CH00



## CH19



## CH39

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## 4.6 Out-of-band Emissions

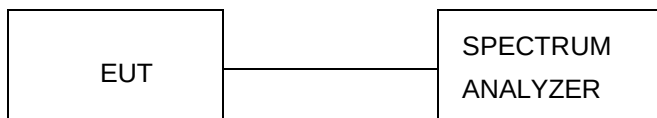
### Limit

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.

### Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, band edge and out-of-band emissions.

### Test Configuration

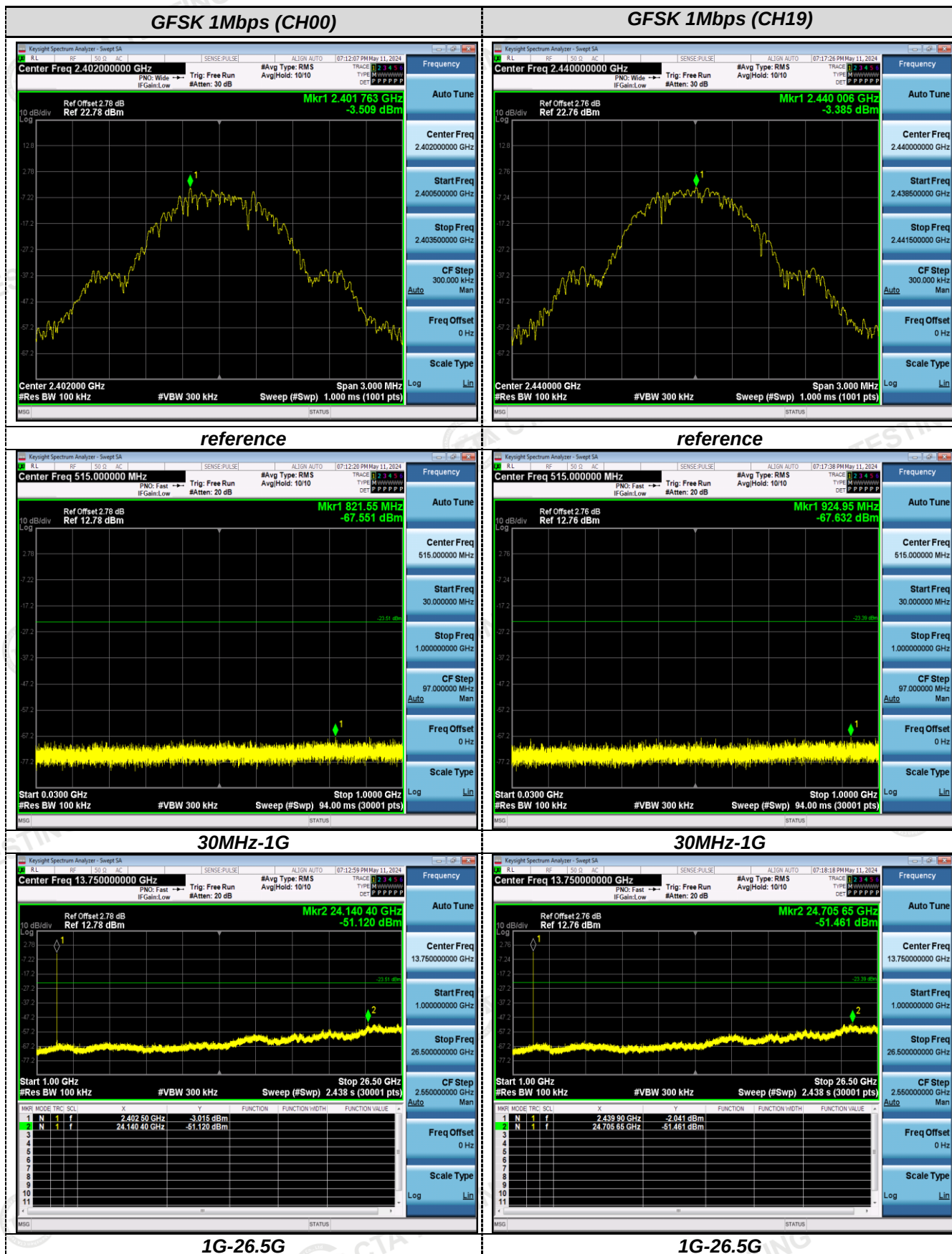


### Test Results

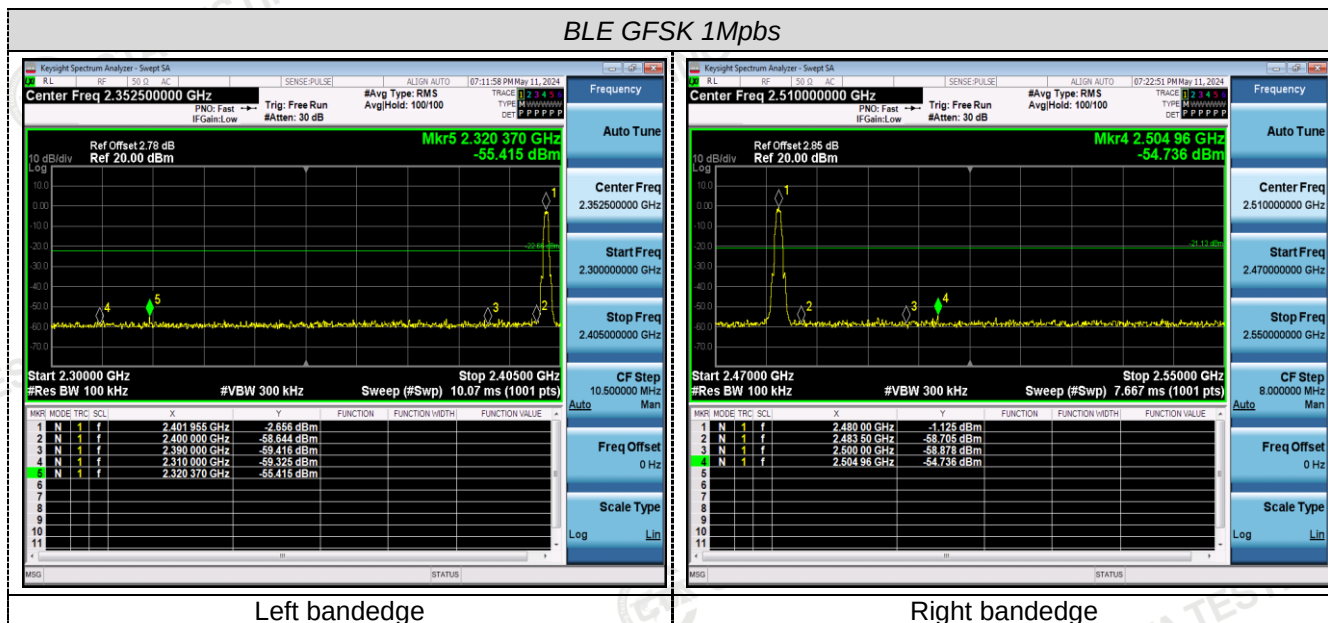
Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and band edge measurement data.

Test plot as follows:







**Band-edge Measurements for RF Conducted Emissions:**

## 4.7 Antenna Requirement

### Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

**FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):**

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

### Antenna Connected Construction

The gain of antenna was 2.50 dBi.

Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen CTA Testing Technology Co., Ltd. does not assume any responsibility.

## **5 Test Setup Photos of the EUT**

Please refer to separated files for Test Setup Photos of the EUT.

## **6 Photos of the EUT**

Please refer to separated files for External & Internal Photos of the EUT.

\*\*\*\*\* End of Reprt \*\*\*\*\*