

Shenzhen CTA Testing Technology Co., Ltd.

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

| | PART 15 SUBPART C TEST RI | |
|---|---|---|
| | FCC PART 15.247 | ESTING |
| Report Reference No | | |
| FCC ID | :: 2BGSM-GT-T500RB | |
| Compiled by | | 7 marshap |
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| Festing Laboratory Name | Shenzhen CTA Testing Technology | r Co., Ltd. |
| Address | Room 106, Building 1, Yibaolai Indust Fuhai Street, Baoʻan District, Shenzhe | • |
| Applicant's name | Guangzhou GuoTao Technology C | O.,LTD |
| Address | 3F, A2 Building, No.18, JingSan road, Guangzhou, China | , Zengjiang Street, Zengcheng, |
| Test specification | CIP. | ESTING |
| Standard | FCC Part 15.247 | TATL |
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| placement and context. | - STIN | |
| placement and context. | : 2D barcode scanner |) |
| blacement and context. | | |
| placement and context. Equipment description Trade Mark | | ,LTD |
| placement and context. Equipment description Trade Mark Manufacturer | : N/A : Guangzhou GuoTao Technology CO. | ,LTD |
| placement and context. Equipment description Trade Mark | : N/A : Guangzhou GuoTao Technology CO. : GT-T500RB | T, GT-9000R, GT-E200, |
| placement and context. Equipment description Trade Mark Manufacturer Model/Type reference Listed Models | : N/A : Guangzhou GuoTao Technology CO. : GT-T500RB GT-T500BT, GT-T700RB, GT-T700B | T, GT-9000R, GT-E200, |
| placement and context. Equipment description Trade Mark Manufacturer Model/Type reference Listed Models Modulation | : N/A : Guangzhou GuoTao Technology CO. : GT-T500RB GT-T500BT, GT-T700RB, GT-T700B | T, GT-9000R, GT-E200, |
| placement and context. Equipment description Trade Mark Manufacturer Model/Type reference Listed Models Modulation Frequency | : N/A : Guangzhou GuoTao Technology CO. : GT-T500RB | T, GT-9000R, GT-E200, GT-600BT, GT-800BT |

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

| Report No.: CTA24052403001 | Page 2 of 39 |
|----------------------------|---|
| GTA TESTING | TEST REPORT |
| Equipment under Test : | 2D barcode scanner GT-T500RB |
| Model /Type : | GT-T500RB GT-T500BT, GT-T700RB, GT-T700BT, GT-9000R, GT-E200, |
| Listed Models : | GT-T500BT, GT-T700RB, GT-T700BT, GT-9000R, GT-E200, GT-T300RB, GT-600RB, GT-800RB, GT-600BT, GT-800BT |
| Applicant | Guangzhou GuoTao Technology CO.,LTD |
| Address : | 3F, A2 Building, No.18, JingSan road, Zengjiang Street, Zengcheng, Guangzhou, China Guangzhou GuoTao Technology CO.,LTD |
| Manufacturer : | Guangzhou GuoTao Technology CO.,LTD |
| Address : | 3F, A2 Building, No.18, JingSan road, Zengjiang Street, Zengcheng, Guangzhou, China |

| Test Result: | PASS | TATE |
|--|--------|------|
| The test report merely corresponds to the test s | sample | C. |

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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TEST STANDARDS 1

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 CTATE KDB558074 D01 V05r02: Guidance for Performing Compliance Measurements on Digital Transmission

Systems (DTS) Operating Under §15.247 CTATESTING

2 SUMMARY

2.1 **General Remarks**

| CTA TES | | | |
|--------------------------------|---|--------------|---|
| 2.1 General Remarks | | | |
| Date of receipt of test sample | | May 23, 2024 | |
| Testing commenced on | | May 23, 2024 | and the second se |
| Testing concluded on | : | May 29, 2024 | |

2.2 Product Description*

| 2.2 Product Desc | ription* |
|-----------------------|---|
| Product Description: | 2D barcode scanner |
| Model/Type reference: | GT-T500RB |
| Power supply: | DC 3.7V From battery and DC 5.0V From external circuit |
| Adapter information: | Model: RSF-DY101A-0501000USU Input: AC 100-240V 50/60Hz 0.2A Output: DC 5.0V 1.0A |
| Hardware version: | C36SM#01 |
| Software version: | C36SM_HLT_A13M_OVERSEA_V1.0 |
| Testing sample ID: | CTA240524030-1# (Engineer sample) CTA240524030-2# (Normal sample) |
| Bluetooth BLE | |
| Supported type: | Bluetooth low Energy |
| Modulation: | GFSK |
| Operation frequency: | 2402MHz to 2480MHz |
| Channel number: | 40 |
| Channel separation: | 2 MHz |
| Antenna type: | Spring antenna |
| Antenna gain: | 0.65 dBi |

2.3 Equipment Under Test

Power supply system utilised

| 0 | 230V / 50 Hz | 0 | 120V / 60Hz | - (5) |
|---|------------------------------|-----------|-------------|-------|
| 0 | 12 V DC | Ο | 24 V DC | |
| - | Other (specified in blank be | low |) | |
| | 0 | 0 12 V DC | 0 12 V DC 0 | |

DC 3.7V From battery and DC 5.0V From external circuit

2.4 Short description of the Equipment under Test (EUT)

This is a 2D barcode scanner. For more details, refer to the user's manual of the EUT.

2.5 EUT operation mode

The Applicant provides communication tools software(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.

| Channel | Frequency (MHz) |
|---------------------------|-----------------|
| 00 | 2402 |
| 01 | 2404 |
| 02 | 2406 |
| : | |
| 19 | 2440 |
| ESTIN | ÷ |
| 37 | 2476 |
| 38 | 2478 |
| 39 | 2480 |
| ock Diagram of Test Setup | CTATEST" |

2.6 Block Diagram of Test Setup

EUT

| G | DC 5.0V from adapter |
|---|----------------------|
| | |

Related Submittal(s) / Grant (s) 2.7

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. GA CTATESTING

3 TEST ENVIRONMENT

Address of the test laboratory 3.1

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 |
|-----------------------|--------------|
| | TES |
| Humidity: | 44 % |
| | |
| Atmospheric pressure: | 950-1050mbar |

AC Main Conducted testing.

| Temperature: | 24 ° C | | | |
|-----------------------|--------------|--|--|--|
| -1G | | | | |
| Humidity: | 47 % | | | |
| | C. | | | |
| Atmospheric pressure: | 950-1050mbar | | | |

| | Aunospheric pressure. | 930-1030mbai | |
|---|-----------------------|--------------|------|
| С | onducted testing: | TED | TING |
| | Temperature: | 24 ° C | TESI |
| | and the second second | | (A) |
| | Humidity: | 46 % | |
| | | | |
| | Atmospheric pressure: | 950-1050mbar | |

| | Test Specification clause | Test case | Test Mode | Test Channel | | corded Report | Test result |
|-------|---------------------------------|--|--------------|---|--------------|---|-------------|
| | §15.247(e) | Power spectral density | BLE 1Mpbs | ⊠ Lowest ⊠ Middle ⊠ Highest | BLE 1Mpbs | ☑ Lowest ☑ Middle ☑ Highest | complies |
| | §15.247(a)(2) | Spectrum bandwidth – 6 dB bandwidth | BLE 1Mpbs | ☑ Lowest ☑ Middle ☑ Highest | BLE 1Mpbs | ☑ Lowest ☑ Middle ☑ Highest | complies |
| | §15.247(b)(3) | Maximum output Peak power | BLE 1Mpbs | ⊠ Lowest ⊠ Middle ⊠ Highest | BLE 1Mpbs | ⊠ Lowest ⊠ Middle ⊠ Highest | complies |
| CTATE | §15.247(d) | Band edge compliance conducted | BLE 1Mpbs | ⊠ Lowest ⊠ Highest | BLE 1Mpbs | ⊠ Lowest ⊠ Highest | complies |
| | §15.205 | Band edge compliance radiated | BLE 1Mpbs | ⊠ Lowest ⊠ Highest | BLE 1Mpbs | ⊠ Lowest ⊠ Highest | complies |
| | §15.247(d) | TX spurious emissions conducted | BLE 1Mpbs | ☑ Lowest ☑ Middle ☑ Highest | BLE 1Mpbs | ⊠ Lowest ⊠ Middle ⊠ Highest | complies |
| | §15.247(d) | TX spurious emissions radiated | BLE 1Mpbs | ☑ Lowest ☑ Middle ☑ Highest | BLE 1Mpbs | ⊠ Lowest ⊠ Middle ⊠ Highest | complies |
| G | §15.209(a) | TX spurious Emissions radiated Below 1GHz | BLE 1Mpbs | -/- | BLE 1Mpbs | -/- | complies |
| | §15.107(a) §15.207 | Conducted Emissions < 30 MHz | BLE 1Mpbs | ING -/- | BLE 1Mpbs | -/- | complies |

3.4 Summary of measurement results

Remark:

1. The measurement uncertainty is not included in the test result.

We tested all test mode and recorded worst case in report 2.

Statement of the measurement uncertainty 3.5

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

| The best measurement capability for Sherizhen CTA resting rechnology Co., Etd | | | | | | | |
|---|-------------|----------------------------|-------|--|--|--|--|
| Test | Range | Measurement Uncertainty | Notes | | | | |
| 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 | -ING/ | 0.57 dB | (1) | | | | |
| Spectrum bandwidth | -ssi / | 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.

| 3.6 | Equipments Used during the Test |
|-----|---------------------------------|
| | |

| Test Equipment | Manufacturer | Model No. | Equipment No. | Calibration Date | Calibra Due D |
|---|---------------------------|-------------|------------------|---------------------|------------------|
| LISN | R&S | ENV216 | CTA-308 | 2023/08/02 | 2024/0 |
| LISN | R&S | ENV216 | CTA-314 | 2023/08/02 | 2024/0 |
| EMI Test Receiver | R&S | ESPI | CTA-307 | 2023/08/02 | 2024/0 |
| EMI Test Receiver | R&S | ESCI | CTA-306 | 2023/08/02 | 2024/0 |
| Spectrum Analyzer | Agilent | N9020A | CTA-301 | 2023/08/02 | 2024/0 |
| Spectrum Analyzer | R&S | FSP | CTA-337 | 2023/08/02 | 2024/0 |
| Vector Signal generator | Agilent | N5182A | CTA-305 | 2023/08/02 | 2024/0 |
| Analog Signal Generator | R&S | SML03 | CTA-304 | 2023/08/02 | 2024/0 |
| WIDEBAND RADIO COMMUNICATION TESTER | CMW500 | R&S | CTA-302 | 2023/08/02 | 2024/0 |
| Temperature and humidity meter | Chigo | ZG-7020 | CTA-326 | 2023/08/02 | 2024/0 |
| Ultra-Broadband Antenna | Schwarzbeck | VULB9163 | CTA-310 | 2023/10/17 | 2024/1 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | CTA-309 | 2023/10/13 | 2024/1 |
| Loop Antenna | Zhinan | ZN30900C | CTA-311 | 2023/10/17 | 2024/1 |
| Horn Antenna | Beijing Hangwei Dayang | OBH100400 | CTA-336 | 2021/08/07 | 2024/0 |
| Amplifier | Schwarzbeck | BBV 9745 | CTA-312 | 2023/08/02 | 2024/0 |
| Amplifier | Taiwan chengyi | EMC051845B | CTA-313 | 2023/08/02 | 2024/0 |
| Directional coupler | NARDA | 4226-10 | CTA-303 | 2023/08/02 | 2024/0 |
| High-Pass Filter | XingBo | XBLBQ-GTA18 | CTA-402 | 2023/08/02 | 2024/0 |
| High-Pass Filter | XingBo | XBLBQ-GTA27 | CTA-403 | 2023/08/02 | 2024/0 |
| Automated filter bank | Tonscend | JS0806-F | CTA-404 | 2023/08/02 | 2024/0 |
| Power Sensor | G Agilent | U2021XA | CTA-405 | 2023/08/02 | 2024/0 |
| Amplifier | Schwarzbeck | BBV9719 | CTA-406 | 2023/08/02 | 2024/0 |
| S | Crea C | TATES | e cTA | TESTING | |



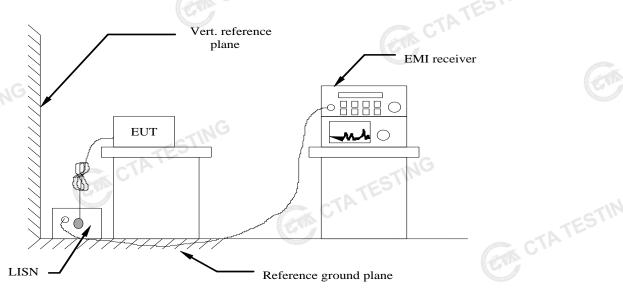
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| Test Equipment | Manufacturer | Model No. | Version number | Calibration Date | Calibration Due Date |
|-------------------|--------------|-------------|-------------------|---------------------|-------------------------|
| EMI Test Software | Tonscend | 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 |
| STING | CTATESTING | | | | G |
| | TESI | | | | |

TEST CONDITIONS AND RESULTS 4

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 :

| | Limit (dBuV) | | | | |
|-----------------------|--------------|-----------|--|--|--|
| Frequency range (MHz) | 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

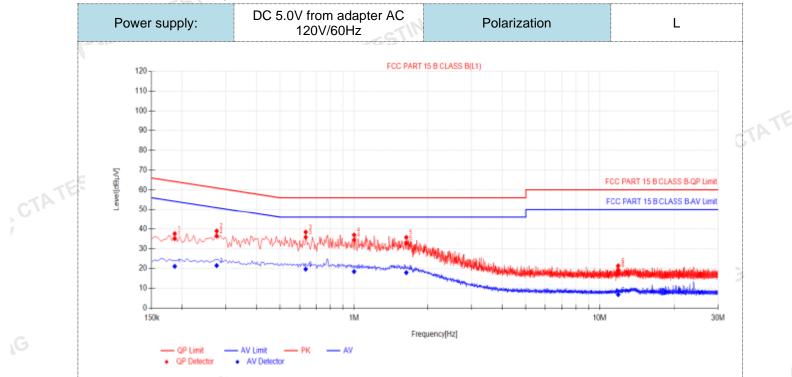
Remark:

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

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CTA TESTING

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:

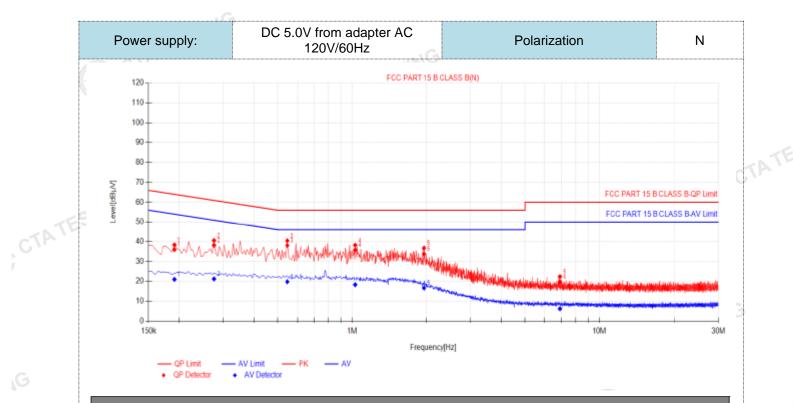


Final Data List

| - 1 | | | | | | | | | | | | | |
|-----|--------|----------------|----------------|-------------------------|-----------------------|-----------------------|----------------------|-------------------------|-----------------------|-----------------------|----------------------|---------|-------|
| 5 | 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 | 0.186 | 10.03 | 25.02 | 35.05 | 64.21 | 29.16 | 11.05 | 21.08 | 54.21 | 33.13 | PASS | |
| | 2 | 0.276 | 9.94 | 26.45 | 36.39 | 60.94 | 24.55 | 11.53 | 21.47 | 50.94 | 29.47 | PASS | |
| | 3 | 0.636 | 10.00 | 25.84 | 35.84 | 56.00 | 20.16 | 9.64 | 19.64 | 46.00 | 26.36 | PASS | |
| [| 4 | 1.0005 | 9.91 | 24.50 | 34.41 | 56.00 | 21.59 | 8.51 | 18.42 | 46.00 | 27.58 | PASS | 1 |
| | 5 | 1.6305 | 9.91 | 22.95 | 32.86 | 56.00 | 23.14 | 7.98 | 17.89 | 46.00 | 28.11 | PASS | -TA'L |
| | 6 | 11.895 | 10.27 | 8.99 | 19.26 | 60.00 | 40.74 | -3.48 | 6.79 | 50.00 | 43.21 | PASS | 3.2 |
| N | ote:1) | .QP Value | e (dBµV): | = QP Rea | ading (dl | 3μV)+ Fa | actor (dB | 5) | | | | | |
| | 2) | Eactor (dl | 3)=inserf | ion loss | of LISN (| $(dB) + C_{2}$ | able loss | (dB) | | | | | |

- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dB μ V) QP Value (dB μ V)
- CTA TESTING 4). AVMargin(dB) = AV Limit (dBµV) - AV Value (dBµV)

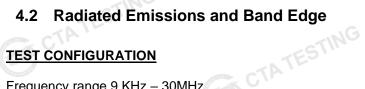
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Final Data List

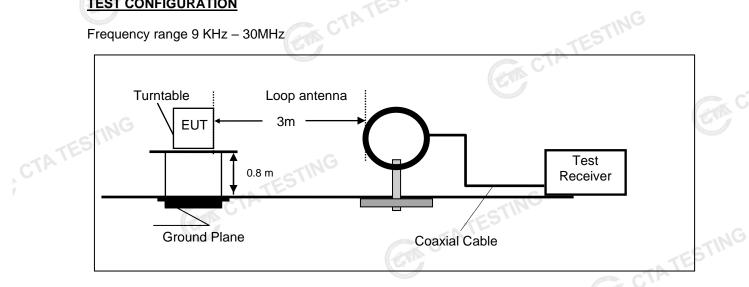
| NO. | Freq. [MHz] | Factor [dB] | QP Reading[dB µV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict | |
|-----|-------------------------|----------------|-------------------------|-----------------------|-----------------------|----------------------|-------------------------|-----------------------|-----------------------|----------------------|---------------------------|----------------|
| 1 | 0.1905 | 9.99 | 25.97 | 35.96 | 64.01 | 28.05 | 11.00 | 20.99 | 54.01 | 33.02 | PASS | |
| 2 | 0.276 | 9.94 | 28.22 | 38.16 | 60.94 | 22.78 | 11.26 | 21.20 | 50.94 | 29.74 | PASS | |
| 3 | 0.546 | 10.08 | 27.96 | 38.04 | 56.00 | 17.96 | 9.72 | 19.80 | 46.00 | 26.20 | PASS | |
| 4 | 1.0275 | 10.13 | 25.67 | 35.80 | 56.00 | 20.20 | 8.17 | 18.30 | 46.00 | 27.70 | PASS | |
| 5 | 1.95 | 10.19 | 23.56 | 33.75 | 56.00 | 22.25 | 6.45 | 16.64 | 46.00 | 29.36 | PASS | |
| 6 | 6.918 | 10.41 | 9.37 | 19.78 | 60.00 | 40.22 | -4.20 | 6.21 | 50.00 | 43.79 | PASS | |
| |).QP Value Factor (d | | | | | - | 3) | | | | Contraction of the second | C _V |

- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dB μ V) QP Value (dB μ V)
- 4). AVMargin(dB) = AV Limit (dB μ V) AV Value (dB μ V) GTA TESTING

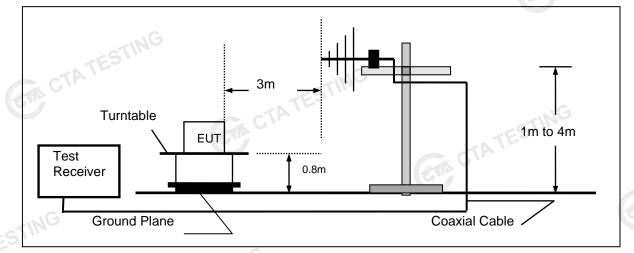


TEST CONFIGURATION

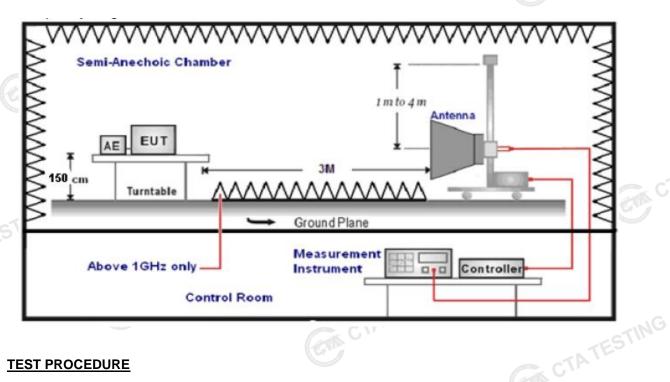
Frequency range 9 KHz – 30MHz



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.
- Repeat above procedures until all frequency measurements have been completed. 4.
- 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.
- The distance between test antenna and EUT as following table states: 6.

| Test Antenna Type | Test Distance | |
|----------------------------|--|---|
| Active Loop Antenna | 3 | Acount C |
| Ultra-Broadband Antenna | 3 | |
| Double Ridged Horn Antenna | 3 | The Past weather the |
| Horn Anternna | 1 | |
| | Active Loop Antenna Ultra-Broadband Antenna Double Ridged Horn Antenna | Active Loop Antenna3Ultra-Broadband Antenna3Double Ridged Horn Antenna3 |

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

| 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 |
| and the second se | Peak Value: RBW=1MHz/VBW=3MHz, | TING |
| 1GHz-40GHz | Sweep time=Auto | Peak |
| IGHZ-40GHZ | Average Value: RBW=1MHz/VBW=10Hz, | |
| | Sweep time=Auto | |

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

| Die calculation is as follows: | |
|--------------------------------|--|
| RA + AF + CL - AG | |
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude | AG = Amplifier Gain |
| AF = Antenna Factor | (20) |
| | AL C |
| Shenzhen CTA Testino | a Technology Co., Ltd. |

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 the100kHz 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 | 20log(2400/F(KHz))+40log(300/3) | 2400/F(KHz) | |
| 0.49-1.705 | 3 | 20log(24000/F(KHz))+ 40log(30/3) | 24000/F(KHz) | |
| 1.705-30 | 3 | 20log(30)+ 40log(30/3) | 30 | |
| 30-88 | 3 | 40.05 | 100 | |
| 88-216 | 3 | 43.5 | 150 | |
| 216-960 | 3 | 46.0 | 200 | |
| Above 960 | 3 | 54.0 | 500 | |

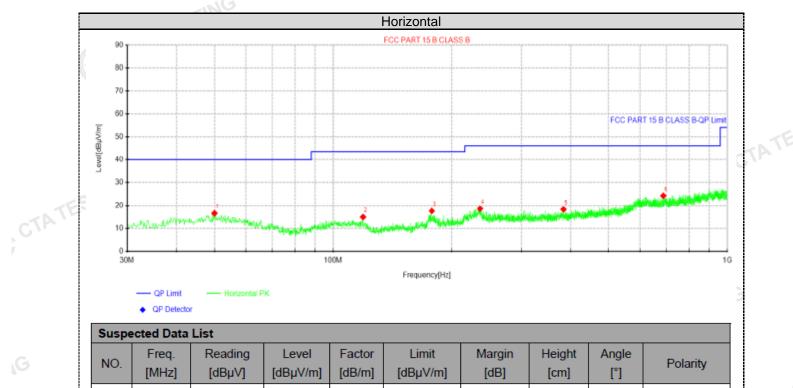
TEST RESULTS

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 1Mpbs were tested at Low, Middle, and High channel and recorded worst mode at BLE 1Mpbs.
- Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found 3. except system noise floor in 9 KHz to 30MHz and not recorded in this report. CTA TESTING

For 30MHz-1GHz

COM CTATE



| I | NO. | Freq. | Reading | Level | Factor | Limit | Margin | Height | Angle | Delarity | |
|---|---|---------|---------|----------|--------|----------|--------|--------|-------|------------|--|
| | NU. | [MHz] | [dBµV] | [dBµV/m] | [dB/m] | [dBµV/m] | [dB] | [cm] | [°] | Polarity | |
| | 1 | 50.0062 | 28.06 | 16.62 | -11.44 | 40.00 | 23.38 | 100 | 49 | Horizontal | |
| | 2 | 118.997 | 29.23 | 15.02 | -14.21 | 43.50 | 28.48 | 100 | 118 | Horizontal | |
| | 3 | 177.925 | 32.76 | 17.59 | -15.17 | 43.50 | 25.91 | 100 | 25 | Horizontal | |
| | 4 | 236.003 | 31.52 | 18.62 | -12.90 | 46.00 | 27.38 | 100 | 306 | Horizontal | |
| | 5 | 384.05 | 28.92 | 18.31 | -10.61 | 46.00 | 27.69 | 100 | 1 | Horizontal | |
| | 6 | 687.538 | 29.43 | 24.19 | -5.24 | 46.00 | 21.81 | 100 | 330 | Horizontal | |
| | Note:1).Level (dBμV/m)= Reading (dBμV)+ Factor (dB/m) | | | | | | | | | | |
| N | 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)

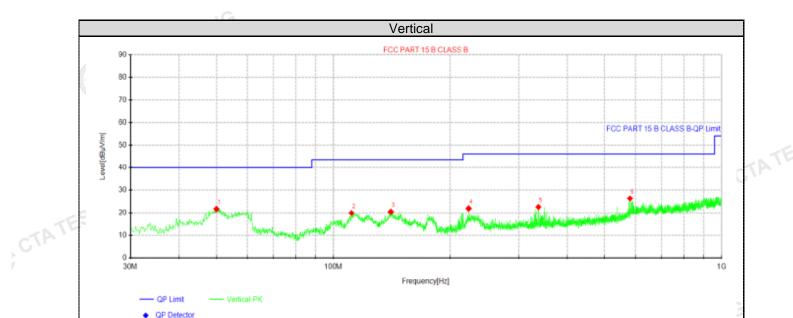
3). Margin(dB) = Limit (dB μ V/m) - Level (dB μ V/m)

GTA TESTING

Shenzhen CTA Testing Technology Co., Ltd. Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

CTATES

CTATE



| ousp | ected Data | | Laval | Fastar | Lingth | Manada | Listable | Arrela | | |
|------|------------|---------|----------|--------|----------|--------|----------|--------|----------|--|
| NO. | Freq. | Reading | Level | Factor | Limit | Margin | Height | Angle | Polarity | |
| NO. | [MHz] | [dBµV] | [dBµV/m] | [dB/m] | [dBµV/m] | [dB] | [cm] | [°] | Tolanty | |
| 1 | 50.0062 | 33.12 | 21.68 | -11.44 | 40.00 | 18.32 | 100 | 346 | Vertical | |
| 2 | 111.358 | 33.66 | 19.87 | -13.79 | 43.50 | 23.63 | 100 | 118 | Vertical | |
| 3 | 140.58 | 36.54 | 20.42 | -16.12 | 43.50 | 23.08 | 100 | 151 | Vertical | |
| 4 | 223.03 | 34.93 | 21.90 | -13.03 | 46.00 | 24.10 | 100 | 291 | Vertical | |
| 5 | 337.368 | 33.84 | 22.55 | -11.29 | 46.00 | 23.45 | 100 | 70 | Vertical | |
| 6 | 580.96 | 32.83 | 26.32 | -6.51 | 46.00 | 19.68 | 100 | 303 | Vertical | |
| | | | | | | | | | | |

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 (dB μ V/m) - Level (dB μ V/m) CTATESTING

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For 1GHz to 25GHz

| | 170 | NG | | GFSK (abo | ve 1GHz) | | | | |
|--------------------|----------|---------------------|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|
| Freque | ncy(MHz) | : | 24 | 02 | Pola | arity: | ŀ | HORIZONT | AL. |
| Frequency (MHz) | Le | sion vel V/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 | 61.98 | PK | 74 | 12.02 | 66.25 | 32.33 | 5.12 | 41.72 | -4.27 |
| 4804.00 | 45.32 | AV | 54 | 8.68 | 49.59 | 32.33 | 5.12 | 41.72 | -4.27 |
| 7206.00 | 53.98 | PK | 74 | 20.02 | 54.50 | 36.6 | 6.49 | 43.61 | -0.52 |
| 7206.00 | 43.40 | AV | 54 | 10.60 | 43.92 | 36.6 | 6.49 | 43.61 | -0.52 |
| | | | • | | • | | | | GAN |
| Freque | ncy(MHz) | : | 24 | 02 | Pola | arity: | | VERTICAL | - |

| Freque | ncy(MHz) | : | 24 | 02 | Pola | arity: | VERTICAL | | |
|--------------------|----------------------|-----|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|
| Frequency (MHz) | Emis Lev (dBu) | vel | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) |
| 4804.00 | 60.07 | PK | 74 | 13.93 | 64.34 | 32.33 | 5.12 | 41.72 | -4.27 |
| 4804.00 | 43.10 | AV | 54 | 10.90 | 47.37 | 32.33 | 5.12 | 41.72 | -4.27 |
| 7206.00 | 51.75 | PK | 74 | 22.25 | 52.27 | 36.6 | 6.49 | 43.61 | -0.52 |
| 7206.00 | 41.78 | AV | 54 | 12.22 | 42.30 | 36.6 | 6.49 | 43.61 | -0.52 |
| G | | | | | | | | TE | |

| Freque | ncy(MHz) | : | 2440 | | Polarity: | | HORIZONTAL | | |
|---------------------------------------|----------------------|-----|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|
| Frequency (MHz) | Emis Lev (dBu) | vel | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) |
| 4880.00 | 61.41 | PK | 74 | 12.59 | 65.29 | 32.6 | 5.34 | 41.82 | -3.88 |
| 4880.00 | 44.68 | AV | 54 | 9.32 | 48.56 | 32.6 | 5.34 | 41.82 | -3.88 |
| 7320.00 | 53.69 | PK | 74 | 20.31 | 53.80 | 36.8 | 6.81 | 43.72 | -0.11 |
| 7320.00 | 42.71 | AV | 54 | 11.29 | 42.82 | 36.8 | 6.81 | 43.72 | -0.11 |
| All and a second second second second | | | | A. | | | IN | G | |
| | | | | | | | | | |

| Freque | ncy(MHz) | : | 2440 Po | | Pola | arity: | | VERTICAL | |
|--------------------|----------|---------------------|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|
| Frequency (MHz) | - | sion vel V/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 | 59.40 | PK | 74 | 14.60 | 63.28 | 32.6 | 5.34 | 41.82 | -3.88 |
| 4880.00 | 42.49 | AV | 54 | 11.51 | 46.37 | 32.6 | 5.34 | 41.82 | -3.88 |
| 7320.00 | 51.56 | PK | 74 | 22.44 | 51.67 | 36.8 | 6.81 | 43.72 | -0.11 |
| 7320.00 | 41.17 | AV | 54 G | 12.83 | 41.28 | 36.8 | 6.81 | 43.72 | -0.11 |
| | | | STIN | | | | | | |

| Freque | Frequency(MHz): | | | 2480 Polarity: | | HORIZONTAL | | | |
|--------------------|---------------------|-----|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|
| Frequency (MHz) | Emis Lev (dBu | vel | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) |
| 4960.00 | 60.77 | PK | 74 | 13.23 | 63.85 | 32.73 | 5.66 | 41.47 | -3.08 |
| 4960.00 | 44.43 | AV | 54 | 9.57 | 47.51 | 32.73 | 5.66 | 41.47 | -3.08 |
| 7440.00 | 53.93 | PK | 74 | 20.07 | 53.48 | 37.04 | 7.25 | 43.84 | 0.45 |
| 7440.00 | 41.90 | PK | 54 | 12.10 | 41.45 | 37.04 | 7.25 | 43.84 | 0.45 |

| Freque | ncy(MHz) | : | 2480 | | Polarity: | | VERTICAL | | |
|--------------------|----------|---------------------|-------------------|----------------|--------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|
| Frequency (MHz) | - | sion vel V/m) | Limit (dBuV/m) | Margin (dB) | G Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) |
| 4960.00 | 58.45 | PK | 74 | 15.55 | 61.53 | 32.73 | 5.66 | 41.47 | -3.08 |
| 4960.00 | 42.18 | AV | 54 | 11.82 | 45.26 | 32.73 | 5.66 | 41.47 | -3.08 |
| 7440.00 | 50.84 | PK | 74 | 23.16 | 50.39 | 37.04 | 7.25 | 43.84 | 0.45 |
| 7440.00 | 40.30 | PK | 54 | 13.70 | 39.85 | 37.04 | 7.25 | 43.84 | 0.45 |
| REMARKS | : | | | | | Contraction of the second | | | CTA |
| | | | Shenzhen | CTA Testing | Technology | Co., Ltd. | | | |

- 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)

| Freque | ency(MHz) | : | 24 | <u>GFS</u> 02 | | arity: | Н | ORIZONTA | L | |
|--|--|------------------------|-------------------|------------------|------------------------|-----------------------------|-------------------------|-------------------------------|--------------------------------|--|
| Frequency (MHz) | Emis Lev (dBu) | vel | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) | |
| 2390.00 | 62.00 | PK | 74 | 12.00 | 72.42 | 27.42 | 4.31 | 42.15 | -10.42 | |
| 2390.00 | 43.48 | AV | 54 | 10.52 | 53.90 | 27.42 | 4.31 | 42.15 | -10.42 | |
| Freque | ency(MHz) | : | 2402 | | Pola | Polarity: | | VERTICAL | | |
| Frequency (MHz) | Emis Lev (dBu) | vel | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) | |
| 2390.00 | 60.02 | PK | 74 | 13.98 | 70.44 | 27.42 | 4.31 | 42.15 | -10.42 | |
| 2390.00 | 41.63 | AV | 54 | 12.37 | 52.05 | 27.42 | 4.31 | 42.15 | -10.42 | |
| Freque | Frequency(MHz): | | 24 | 80 | Pola | arity: | н | ORIZONTA | L | |
| Frequency (MHz) | Emis Lev (dBu) | vel | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) | |
| (101112) | | - Élé | 74 | 12.76 | 71.35 | 27.7 | 4.47 | 42.28 | -10.11 | |
| 2483.50 | 61.24 | PK | 17 | | | | | 10.00 | 10.11 | |
| , , | | AV | 54 | 11.90 | 52.21 | 27.7 | 4.47 | 42.28 | -10.11 | |
| 2483.50 2483.50 | 61.24 | AV | | | | 27.7 arity: | | 42.28 VERTICAL | | |
| 2483.50 2483.50 | 61.24 42.10 | AV : sion vel | 54 | | | 1 | | | | |
| 2483.50 2483.50 Freque Frequency | 61.24 42.10 ency(MHz) Emis Lev | AV : sion vel | 54 24 | 80 Margin | Pola Raw Value | arity: Antenna Factor | Cable Factor | VERTICAL Pre- amplifier | Correction Factor | |

4. -- Mean the PK detector measured value is below average limit.

5. The other emission levels were very low against the limit.

Maximum Peak Output Power 4.3

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

| est Results | | | | ATESI |
|----------------------|---------|-----------------------|-------------|--------|
| Туре | Channel | Output power (dBm) | Limit (dBm) | Result |
| 10 | 00 | -2.89 | | |
| GFSK 1Mbps | 19 | -2.64 | 30.00 | Pass |
| CTA | 39 | -2.06 | | |
| Note: 1.The test res | | TESI | CTATESTING | |

4.4 **Power Spectral Density**

Limit C

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× RBW.
- CTATESTING 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

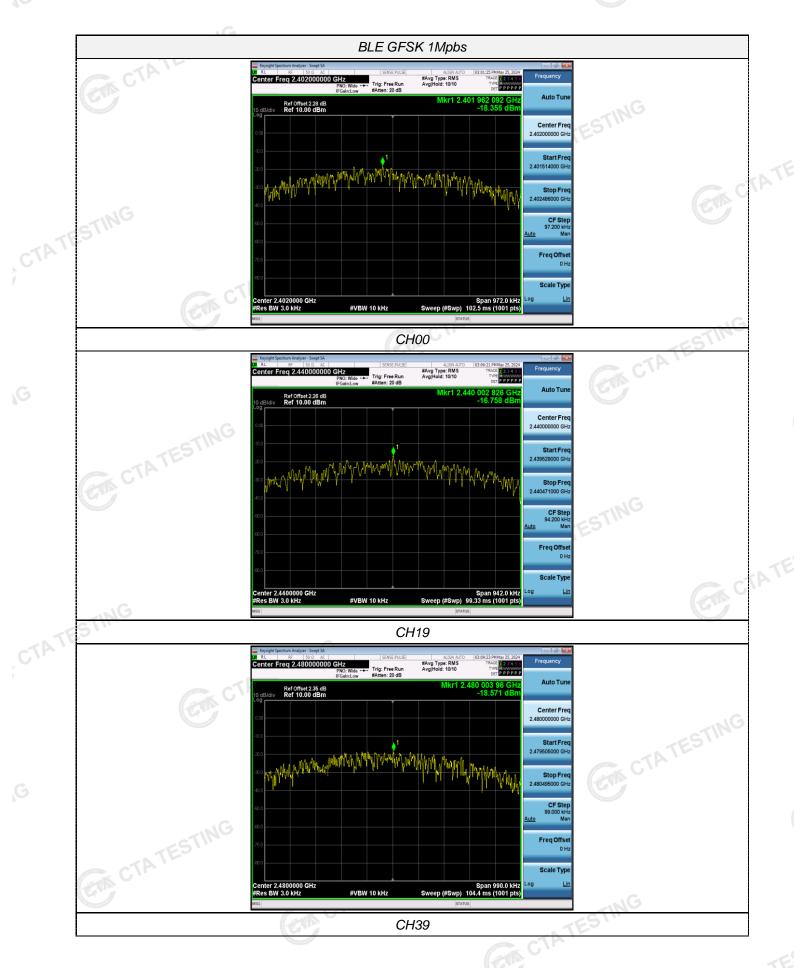


Test Results

| | | | Power Spectral Density | | |
|----|----------------------|---------|------------------------|------------------|--------|
| 10 | Туре | Channel | (dBm/3KHz) | Limit (dBm/3KHz) | Result |
| 14 | | 00 | J -18.36 | | |
| | GFSK 1Mbps | 19_51 | -16.76 | 8.00 | Pass |
| | | 39 | -18.57 | | |
| - | Test plot as follows | | | | |
| | Test plot as follows | 5. | | | |



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4.5 6dB Bandwidth

Limit

ESTING 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

| Test Results | | ANALYZ | FR | CTATESTING |
|-----------------------|---------|------------------------|-------------|------------|
| Туре | Channel | 6dB Bandwidth (MHz) | Limit (KHz) | Result |
| GTINC | 00 | 0.648 | | |
| GFSK 1Mbps | 19 | 0.628 | ≥500 | Pass |
| CIL | 39 | 0.660 | | |
| Test plot as follows: | CAN C | TATES | CTA TESTIN | G |



Out-of-band Emissions 4.6

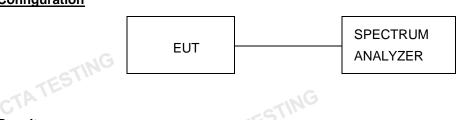
Limit

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, pro-vided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter com-plies 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 setting are GTA CTATESTING made of the in-band reference level, bandedge and out-of-band emissions.

Test Configuration

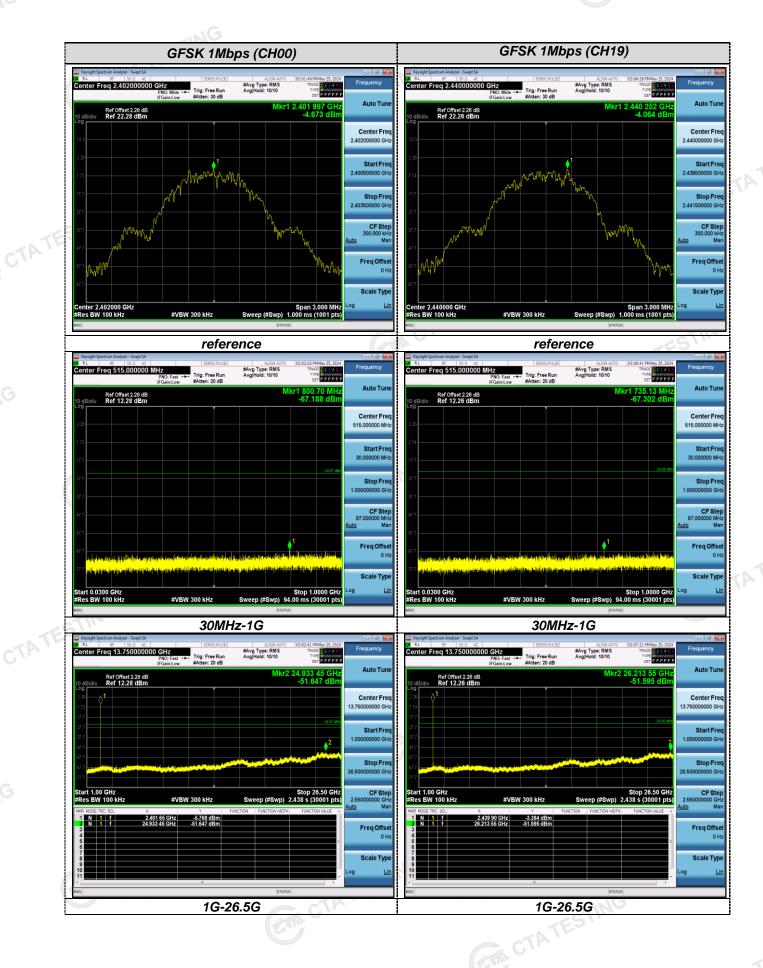


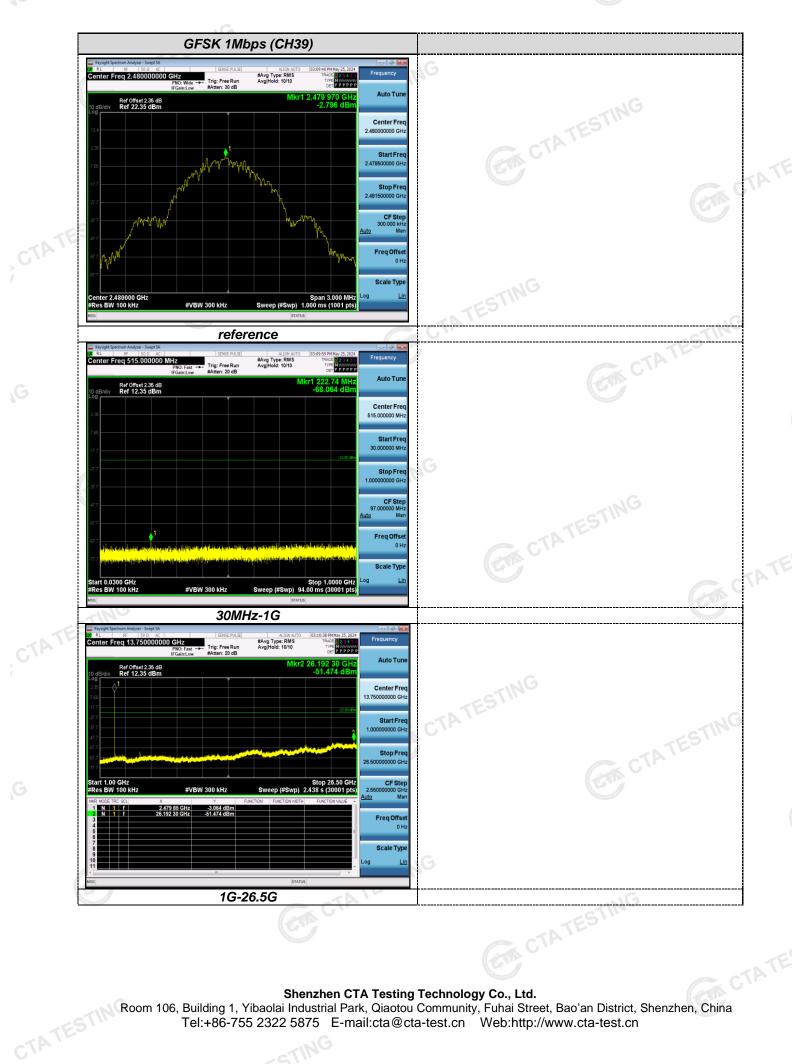
Test Results

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 bandage **GIA CTATE** measurement data.

Test plot as follows:

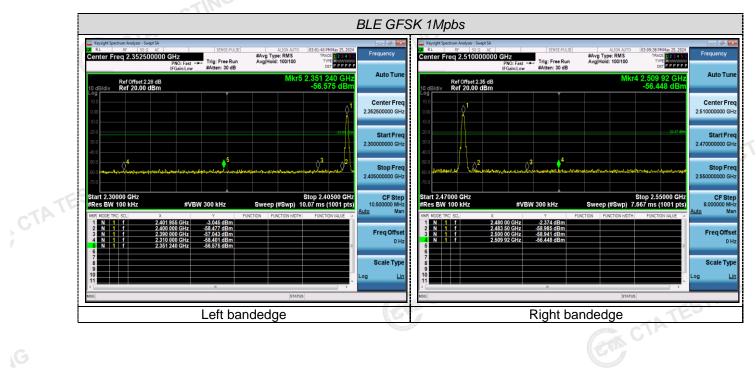
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Band-edge Measurements for RF Conducted Emissions:



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

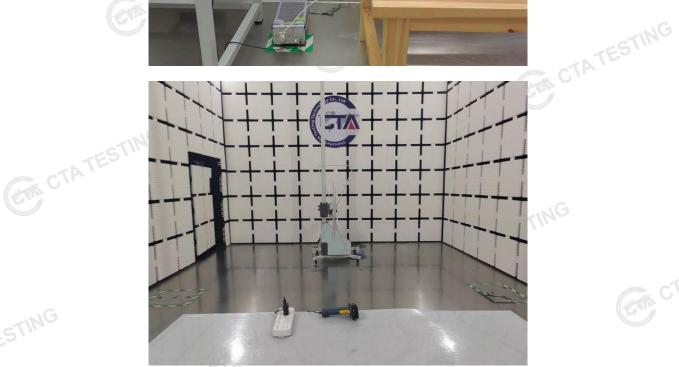
The gain of antenna was 0.65 dBi.

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.

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5 Test Setup Photos of the EUT







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<u>Photos of the EUT</u> 6











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3

