

Shenzhen HTT Technology Co., Ltd.

Report No.: HTT202312590F01

TEST Report

Applicant: Shenzhen Information Infinity Co., Ltd

Address of Applicant: 1st Floor, Building B, Clean Sunshine Park, No.15, Keji North

2nd Road, Songpingshan Community, Xili Street, Nanshan

District, Shenzhen, China

Manufacturer: Shenzhen Information Infinity Co., Ltd

Address of 1st Floor, Building B, Clean Sunshine Park, No.15, Keji North

Manufacturer: 2nd Road, Songpingshan Community, Xili Street, Nanshan

District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: True wireless Bluetooth headphone

Model No.: Monster Airmars XKT28

Series model: N/A

Trade Mark:

FCC ID: 2A8PV-QSMXKT28

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: Dec. 28, 2023

Date of Test: Dec. 28, 2023~Jan. 03, 2024

Date of report issued: Jan. 03, 2024

Test Result: PASS *

^{*} In the configuration tested, the EUT complied with the standards specified above.



1. Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | Jan. 03, 2024 | Original |
| | | |
| | | |
| | | |
| | | |

| Tested/ Prepared By | Heber He | Date: | Jan. 03, 2024 |
|---------------------|----------------------|-------|---------------|
| | Project Engineer | | |
| Check By: | Bruce Zhu | Date: | Jan. 03, 2024 |
| | Reviewer | _ | |
| Approved By : | Kenn Yang | Date: | Jan. 03, 2024 |
| | Authorized Signature | | |



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3. Test Summary

| Test Item | Section in CFR 47 | Result |
|----------------------------------|--------------------|--------|
| Antenna Requirement | 15.203/15.247 (c) | Pass |
| AC Power Line Conducted Emission | 15.207 | Pass |
| Conducted Peak Output Power | 15.247 (b)(1) | Pass |
| 20dB Occupied Bandwidth | 15.247 (a)(1) | Pass |
| Carrier Frequencies Separation | 15.247 (a)(1) | Pass |
| Hopping Channel Number | 15.247 (a)(1)(iii) | Pass |
| Dwell Time | 15.247 (a)(1)(iii) | Pass |
| Radiated Emission | 15.205/15.209 | Pass |
| Band Edge | 15.247(d) | Pass |

Remarks:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. Test according to ANSI C63.10:2013

Measurement Uncertainty

| Test Item | Frequency Range | Measurement Uncertainty | Notes |
|--------------------------------|---------------------------------------|-----------------------------------|-------|
| Radiated Emission | 30~1000MHz | 3.45 dB | (1) |
| Radiated Emission | 1~6GHz | 3.54 dB | (1) |
| Radiated Emission | 6~40GHz | 5.38 dB | (1) |
| Conducted Disturbance | 0.15~30MHz | 2.66 dB | (1) |
| Note (1): The measurement unce | ertainty is for coverage factor of k= | =2 and a level of confidence of 9 | 95%. |



4. General Information

4.1. General Description of EUT

| • | T |
|---------------------------------------|--|
| Product Name: | True wireless Bluetooth headphone |
| Model No.: | Monster Airmars XKT28 |
| Series model: | N/A |
| Test sample(s) ID: | HTT202312590-1(Engineer sample) |
| | HTT202312590-2(Normal sample) |
| Operation Frequency: | 2402MHz~2480MHz |
| Channel numbers: | 79 |
| Channel separation: | 1MHz |
| Modulation type: | GFSK, π/4-DQPSK |
| Antenna Type: | Chip Antenna |
| Antenna gain: | 3.0 dBi |
| Power Supply: | DC 3.7V From Battery and DC 5V From External Circuit |
| Adapter Information | Mode: GS-0500200 |
| (Auxiliary test provided by the lab): | Input: AC100-240V, 50/60Hz, 0.3A max |
| | Output: DC 5V, 2A |



| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|---------------------|----|-----------|---------|-----------|---------|-----------|
| Channel | Channel Frequency (| | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2402MHz | 21 | 2422MHz | 41 | 2442MHz | 61 | 2462MHz |
| 2 | 2403MHz | 22 | 2423MHz | 42 | 2443MHz | 62 | 2463MHz |
| 3 | 2404MHz | 23 | 2424MHz | 43 | 2444MHz | 63 | 2464MHz |
| 4 | 2405MHz | 24 | 2425MHz | 44 | 2445MHz | 64 | 2465MHz |
| 5 | 2406MHz | 25 | 2426MHz | 45 | 2446MHz | 65 | 2466MHz |
| 6 | 2407MHz | 26 | 2427MHz | 46 | 2447MHz | 66 | 2467MHz |
| 7 | 2408MHz | 27 | 2428MHz | 47 | 2448MHz | 67 | 2468MHz |
| 8 | 2409MHz | 28 | 2429MHz | 48 | 2449MHz | 68 | 2469MHz |
| 9 | 2410MHz | 29 | 2430MHz | 49 | 2450MHz | 69 | 2470MHz |
| 10 | 2411MHz | 30 | 2431MHz | 50 | 2451MHz | 70 | 2471MHz |
| 11 | 2412MHz | 31 | 2432MHz | 51 | 2452MHz | 71 | 2472MHz |
| 12 | 2413MHz | 32 | 2433MHz | 52 | 2453MHz | 72 | 2473MHz |
| 13 | 2414MHz | 33 | 2434MHz | 53 | 2454MHz | 73 | 2474MHz |
| 14 | 2415MHz | 34 | 2435MHz | 54 | 2455MHz | 74 | 2475MHz |
| 15 | 2416MHz | 35 | 2436MHz | 55 | 2456MHz | 75 | 2476MHz |
| 16 | 2417MHz | 36 | 2437MHz | 56 | 2457MHz | 76 | 2477MHz |
| 17 | 2418MHz | 37 | 2438MHz | 57 | 2458MHz | 77 | 2478MHz |
| 18 | 2419MHz | 38 | 2439MHz | 58 | 2459MHz | 78 | 2479MHz |
| 19 | 2420MHz | 39 | 2440MHz | 59 | 2460MHz | 79 | 2480MHz |
| 20 | 2421MHz | 40 | 2441MHz | 60 | 2461MHz | | |

Note:

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

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2402MHz |
| The middle channel | 2441MHz |
| The Highest channel | 2480MHz |



4.2. Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

4.3. Description of Support Units

None.

4.4. Deviation from Standards

None.

4.5. Abnormalities from Standard Conditions

None.

4.6. Test Facility

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

FCC-Registration No.: 779513 Designation Number: CN1319

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

A2LA-Lab Cert. No.: 6435.01

Shenzhen HTT 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.

4.7. Test Location

All tests were performed at:

Shenzhen HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

Tel: 0755-23595200 Fax: 0755-23595201

4.8. Additional Instructions

| Test Software | Special AT test command provided by manufacturer to Keep the EUT in continuously transmitting mode and hopping mode |
|-------------------|---|
| Power level setup | Default |

Shenzhen HTT Technology Co.,Ltd.

Tel: 0755-23595200 Fax: 0755-23595201



5. Test Instruments list

| <u>J.</u> | rest matrume | | | | | T |
|-----------|------------------------------------|--|--------------------|------------------|------------------------|----------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | 3m Semi- Anechoic Chamber | Shenzhen C.R.T technology co., LTD | 9*6*6 | HTT-E028 | Aug. 10 2021 | Aug. 09 2024 |
| 2 | Control Room | Shenzhen C.R.T technology co., LTD | 4.8*3.5*3.0 | HTT-E030 | Aug. 10 2021 | Aug. 09 2024 |
| 3 | EMI Test Receiver | Rohde&Schwar | ESCI7 | HTT-E022 | Apr. 26 2023 | Apr. 25 2024 |
| 4 | Spectrum Analyzer | Rohde&Schwar | FSP | HTT-E037 | Apr. 26 2023 | Apr. 25 2024 |
| 5 | Coaxial Cable | ZDecl | ZT26-NJ-NJ-0.6M | HTT-E018 | Apr. 26 2023 | Apr. 25 2024 |
| 6 | Coaxial Cable | ZDecl | ZT26-NJ-SMAJ-2M | HTT-E019 | Apr. 26 2023 | Apr. 25 2024 |
| 7 | Coaxial Cable | ZDecl | ZT26-NJ-SMAJ-0.6M | HTT-E020 | Apr. 26 2023 | Apr. 25 2024 |
| 8 | Coaxial Cable | ZDecl | ZT26-NJ-SMAJ-8.5M | HTT-E021 | Apr. 26 2023 | Apr. 25 2024 |
| 9 | Composite logarithmic antenna | Schwarzbeck | VULB 9168 | HTT-E017 | May. 21 2023 | May. 20 2024 |
| 10 | Horn Antenna | Schwarzbeck | BBHA9120D | HTT-E016 | May. 20 2023 | May. 19 2024 |
| 11 | Loop Antenna | Zhinan | ZN30900C | HTT-E039 | Apr. 26 2023 | Apr. 25 2024 |
| 12 | Horn Antenna | Beijing Hangwei Dayang | OBH100400 | HTT-E040 | Apr. 26 2023 | Apr. 25 2024 |
| 13 | low frequency Amplifier | Sonoma Instrument | 310 | HTT-E015 | Apr. 26 2023 | Apr. 25 2024 |
| 14 | high-frequency Amplifier | HP | 8449B | HTT-E014 | Apr. 26 2023 | Apr. 25 2024 |
| 15 | Variable frequency power supply | Shenzhen Anbiao Instrument Co., Ltd | ANB-10VA | HTT-082 | Apr. 26 2023 | Apr. 25 2024 |
| 16 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | HTT-E004 | Apr. 26 2023 | Apr. 25 2024 |
| 17 | Artificial Mains | Rohde & Schwarz | ESH3-Z5 | HTT-E006 | May. 23 2023 | May. 22 2024 |
| 18 | Artificial Mains | Rohde & Schwarz | ENV-216 | HTT-E038 | May. 23 2023 | May. 22 2024 |
| 19 | Cable Line | Robinson | Z302S-NJ-BNCJ-1.5M | HTT-E001 | Apr. 26 2023 | Apr. 25 2024 |
| 20 | Attenuator | Robinson | 6810.17A | HTT-E007 | Apr. 26 2023 | Apr. 25 2024 |
| | Variable frequency power supply | Shenzhen Yanghong Electric Co., Ltd | YF-650 (5KVA) | HTT-E032 | Apr. 26 2023 | Apr. 25 2024 |
| 22 | Control Room | Shenzhen C.R.T technology co., LTD | 8*4*3.5 | HTT-E029 | Aug. 10 2021 | Aug. 09 2024 |
| 23 | DC power supply | Agilent | E3632A | HTT-E023 | Apr. 26 2023 | Apr. 25 2024 |
| 24 | EMI Test Receiver | Agilent | N9020A | HTT-E024 | Apr. 26 2023 | Apr. 25 2024 |
| 25 | Analog signal generator | Agilent | N5181A | HTT-E025 | Apr. 26 2023 | Apr. 25 2024 |
| 26 | Vector signal generator | Agilent | N5182A | HTT-E026 | Apr. 26 2023 | Apr. 25 2024 |
| 27 | Power sensor | Keysight | U2021XA | HTT-E027 | Apr. 26 2023 | Apr. 25 2024 |
| 28 | Temperature and humidity meter | Shenzhen Anbiao Instrument Co., Ltd | TH10R | HTT-074 | Apr. 28 2023 | Apr. 27 2024 |
| 29 | Radiated Emission Test Software | Farad | EZ-EMC | N/A | N/A | N/A |
| 30 | Conducted Emission Test Software | Farad | EZ-EMC | N/A | N/A | N/A |
| 31 | RF Test Software | panshanrf | TST | N/A | N/A | N/A |

Shenzhen HTT Technology Co.,Ltd.

Tel: 0755-23595200 Fax: 0755-23595201



6. Test results and Measurement Data

6.1. Conducted Emissions

| | · <u> </u> | | | | | | | |
|-----------------------|---|---|--|--|--|--|--|--|
| Test Requirement: | FCC Part15 C Section 15.207 | | | | | | | |
| Test Method: | ANSI C63.10:2013 | ANSI C63.10:2013 | | | | | | |
| Test Frequency Range: | 150KHz to 30MHz | | | | | | | |
| Class / Severity: | Class B | | | | | | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz, S | Sweep time=auto | | | | | | |
| Limit: | Fraguency range (MHz) | Limit | (dBuV) | | | | | |
| | | Frequency range (MHz) Quasi-peak Average | | | | | | |
| | 0.15-0.5 | 66 to 56* | 56 to | | | | | |
| | 0.5-5 | 56 | 40 | | | | | |
| | 5-30 | 60 | 50 |) | | | | |
| Test setup: | * Decreases with the logarith | | | | | | | |
| Test procedure: | AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m 1. The E.U.T and simulators line impedance stabilization | Filter AC p EMI Receiver are connected to the | main power t | | | | | |
| | 500hm/50uH coupling imp 2. The peripheral devices are LISN that provides a 500h termination. (Please refer photographs). 3. Both sides of A.C. line are interference. In order to fin positions of equipment and according to ANSI C63.10 | edance for the measure also connected to the m/50uH coupling impute to the block diagram of the checked for maximum and the maximum emist all of the interface co | uring equipment of the test set of the test set of conducted sion, the related ables must be | ent. r through a 50ohm up and tive e changed | | | | |
| Test Instruments: | Refer to section 6.0 for details | S | | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | | | |
| Test environment: | | mid.: 52% | Press.: | 1012mbar | | | | |
| Test voltage: | AC 120V, 60Hz | | | | | | | |
| Test results: | Pass | | | | | | | |
| | : 300 | | | | | | | |

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.



30

20

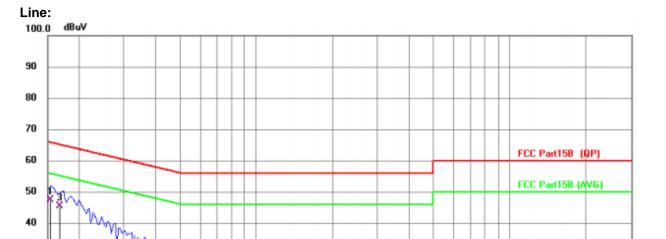
10

0.150

0.500

Report No.: HTT202312590F01

Measurement data:



| Nic | NAI- | | Reading | Correct | Measure- | Limit | Over | |
|-----|------|---------|---------|---------|----------|--------|--------|----------|
| NO. | Mk. | Freq. | Level | Factor | ment | LITTIL | Over | |
| | | MHz | | dB | dBuV | dBuV | dB | Detector |
| 1 | * | 0.1536 | 37.27 | 10.16 | 47.43 | 65.80 | -18.37 | QP |
| 2 | | 0.1536 | 20.54 | 10.16 | 30.70 | 55.80 | -25.10 | AVG |
| 3 | | 0.1675 | 35.23 | 10.18 | 45.41 | 65.08 | -19.67 | QP |
| 4 | | 0.1675 | 18.60 | 10.18 | 28.78 | 55.08 | -26.30 | AVG |
| 5 | | 2.9651 | 12.10 | 10.50 | 22.60 | 56.00 | -33.40 | QP |
| 6 | | 2.9651 | 1.73 | 10.50 | 12.23 | 46.00 | -33.77 | AVG |
| 7 | | 4.7193 | 12.00 | 10.60 | 22.60 | 56.00 | -33.40 | QP |
| 8 | | 4.7193 | 3.05 | 10.60 | 13.65 | 46.00 | -32.35 | AVG |
| 9 | | 6.7256 | 15.96 | 10.62 | 26.58 | 60.00 | -33.42 | QP |
| 10 | | 6.7256 | 8.35 | 10.62 | 18.97 | 50.00 | -31.03 | AVG |
| 11 | | 8.1673 | 17.72 | 10.65 | 28.37 | 60.00 | -31.63 | QP |
| 12 | | 8.1673 | 9.65 | 10.65 | 20.30 | 50.00 | -29.70 | AVG |
| | | | | | | | | |

(MHz)

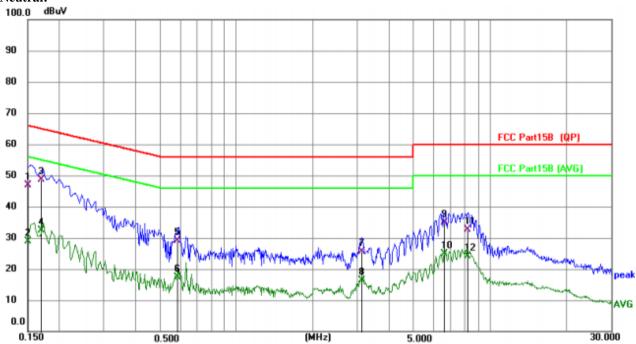
5.000

AVG

30.000







| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|
| | MHz | | dB | dBuV | dBuV | dB | Detector |
| 1 | 0.1512 | 36.64 | 10.16 | 46.80 | 65.93 | -19.13 | QP |
| 2 | 0.1512 | 18.70 | 10.16 | 28.86 | 55.93 | -27.07 | AVG |
| 3 * | 0.1697 | 38.44 | 10.18 | 48.62 | 64.98 | -16.36 | QP |
| 4 | 0.1697 | 22.31 | 10.18 | 32.49 | 54.98 | -22.49 | AVG |
| 5 | 0.5873 | 18.91 | 10.32 | 29.23 | 56.00 | -26.77 | QP |
| 6 | 0.5873 | 7.13 | 10.32 | 17.45 | 46.00 | -28.55 | AVG |
| 7 | 3.1180 | 15.15 | 10.45 | 25.60 | 56.00 | -30.40 | QP |
| 8 | 3.1180 | 5.98 | 10.45 | 16.43 | 46.00 | -29.57 | AVG |
| 9 | 6.6333 | 24.20 | 10.67 | 34.87 | 60.00 | -25.13 | QP |
| 10 | 6.6333 | 14.11 | 10.67 | 24.78 | 50.00 | -25.22 | AVG |
| 11 | 8.1839 | 21.92 | 10.76 | 32.68 | 60.00 | -27.32 | QP |
| 12 | 8.1839 | 13.27 | 10.76 | 24.03 | 50.00 | -25.97 | AVG |

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Los



6.2. Conducted Peak Output Power

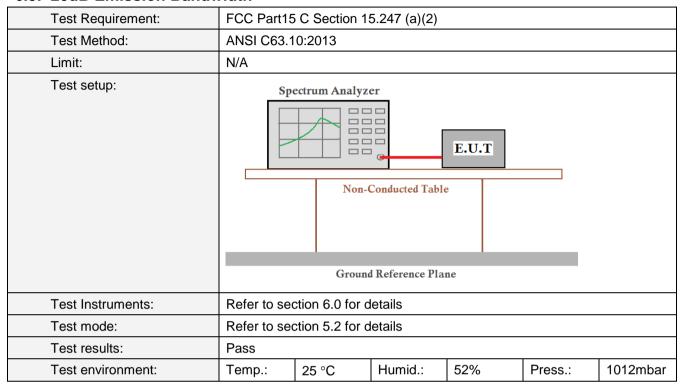
| Test Requirement: | FCC Part15 | FCC Part15 C Section 15.247 (b)(3) | | | | | | | |
|-------------------|--|---|-------------|----|--|--|--|--|--|
| Test Method: | ANSI C63.1 | 10:2013 | | | | | | | |
| Limit: | 30dBm(for | GFSK),20.97 | dBm(for EDF | ₹) | | | | | |
| Test setup: | Power sensor and Spectrum analyzer E.U.T Non-Conducted Table | | | | | | | | |
| | | Ground Reference Pla | ane | | | | | | |
| Test Instruments: | Refer to se | ction 6.0 for c | letails | | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | | | | |
| Test results: | Pass | | | | | | | | |
| Test environment: | Temp.: | Temp.: 25 °C Humid.: 52% Press.: 1012mbar | | | | | | | |

Measurement Data

| Mode | Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | |
|-----------|--------------|-------------------------|-------------|--------|--|
| | Lowest | 5.62 | | | |
| GFSK | Middle | 6.22 | 30.00 | Pass | |
| | Highest | 6.01 | | | |
| | Lowest | 5.92 | | | |
| π/4-DQPSK | Middle | 6.64 | 20.97 | Pass | |
| | Highest | 6.48 | | | |



6.3. 20dB Emission Bandwidth



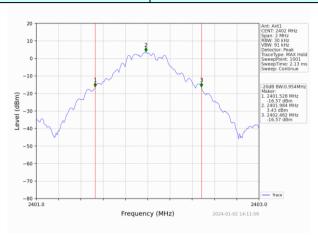
Measurement Data

| Mode | Test channel | 20dB Emission Bandwidth (MHz) | Result | |
|-----------|--------------|-------------------------------|--------|--|
| | Lowest | 0.954 | | |
| GFSK | Middle | 0.951 | Pass | |
| | Highest | 0.956 | | |
| | Lowest | 1.336 | | |
| π/4-DQPSK | Middle | 1.331 | Pass | |
| | Highest | 1.329 | | |

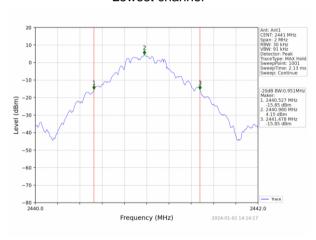


Test plot as follows:

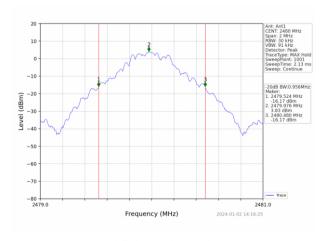
Test mode: GFSK mode



Lowest channel



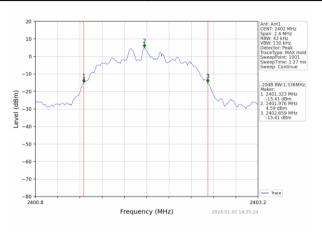
Middle channel



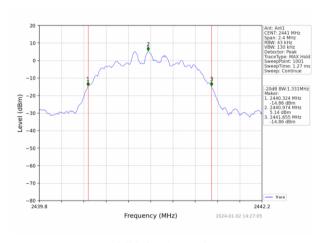
Highest channel



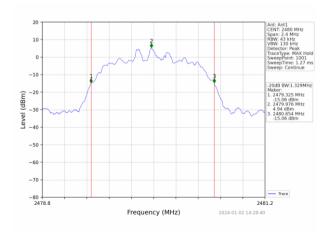
Test mode: $\pi/4$ -DQPSK mode



Lowest channel



Middle channel



Highest channel



6.4. Frequencies Separation

| Test Requirement: | FCC Part15 C Section 15.247 (a)(1) | | | | | | | | |
|-------------------|------------------------------------|---|---------|-----|---------|----------|--|--|--|
| Test Method: | ANSI C63.1 | ANSI C63.10:2013 | | | | | | | |
| Receiver setup: | RBW=100K | RBW=100KHz, VBW=300KHz, detector=Peak | | | | | | | |
| Limit: | | GFSK: 20dB bandwidth π/4-DQPSK : 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater) | | | | | | | |
| Test setup: | Spo | | | | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | | | | |
| Test results: | Pass | | | | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar | | | |

Measurement Data

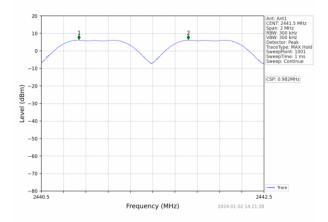
| Micasarcinent Bate | 4 | | | |
|--------------------|--------------|------------------------------|-------------|--------|
| Mode | Test channel | Frequencies Separation (MHz) | Limit (kHz) | Result |
| | | | 25KHz or | |
| GFSK | Middle | 0.982 | 2/3*20dB | Pass |
| | | | bandwidth | |
| | | | 25KHz or | |
| π/4-DQPSK | Middle | 1.001 | 2/3*20dB | Pass |
| | | | bandwidth | |

Remark: We have tested all mode at high, middle and low channel, and recorded worst case at middle

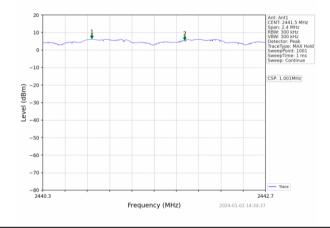


Test plot as follows:

Modulation mode: GFSK



Test mode: $\pi/4$ -DQPSK





6.5. Hopping Channel Number

| Test Requirement: | FCC Part15 C Section 15.247 (a)(1)(iii) | | | | | | | | |
|-------------------|---|--|---------|-----|---------|----------|--|--|--|
| Test Method: | ANSI C63.10:2013 | | | | | | | | |
| Receiver setup: | | RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak | | | | | | | |
| Limit: | 15 channels | 3 | | | | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | | | | |
| Test results: | Pass | | | | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar | | | |

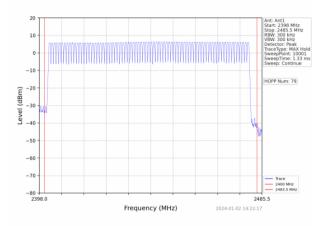
Measurement Data:

| Mode | Hopping channel numbers | Limit | Result |
|-----------|-------------------------|-------------|--------|
| GFSK | 79 | \1 E | Pass |
| π/4-DQPSK | 79 | ≥15 | Pass |

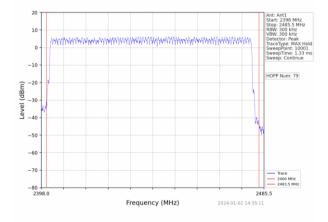


Test plot as follows:

Test mode: GFSK



Test mode: $\pi/4$ -DQPSK





6.6. Dwell Time

| Test Requirement: | FCC Part15 C Section 15.247 (a)(1)(iii) | | | | | | | | | | | | |
|-------------------|---|------------------|--------------|---------------|---------|---|--|--|--|--|--|--|--|
| Test Method: | ANSI C63.10 | ANSI C63.10:2013 | | | | | | | | | | | |
| Receiver setup: | RBW=1MHz | , VBW=1MH | lz, Span=0Hz | z, Detector=P | eak | | | | | | | | |
| Limit: | 0.4 Second | | | | | | | | | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | | | | | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | | | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | | | | | | | | |
| Test results: | Pass | | | | | | | | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | Temp.: 25 °C Humid.: 52% Press.: 1012mbar | | | | | | | |



Measurement Data

| Modulation | Packet | Burst time (ms) | Dwell time (ms) | Limit (ms) | Result | |
|------------|--------|--------------------|--------------------|------------|--------|--|
| | DH1 | 0.386 | 123.520 | | | |
| GFSK | DH3 | 1.642 | 264.362 | 400 | Pass | |
| | DH5 | 2.890 | 265.880 | | | |
| | 2-DH1 | 0.394 | 125.686 | | | |
| π/4DQPSK | 2-DH3 | 1.648 | 252.144 | 400 | Pass | |
| | 2-DH5 | 2.900 | 313.200 | | | |

Note:We have tested all mode at high, middle and low channel, and recoreded worst case at middle channel.

Dwell time=Pulse time (ms) \times (1600 \div 2 \div 79) \times 31.6 Second for DH1, 2-DH1

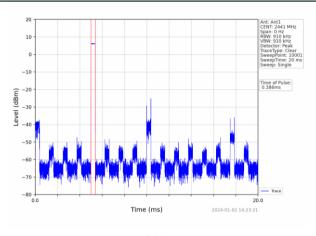
Dwell time=Pulse time (ms) x (1600 \div 4 \div 79) x31.6 Second for DH3, 2-DH3

Dwell time=Pulse time (ms) x (1600 \div 6 \div 79) x31.6 Second for DH5, 2-DH5

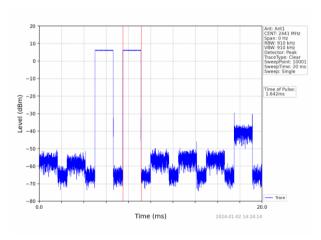


Test plot as follows:

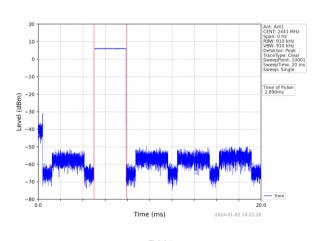
GFSK mode





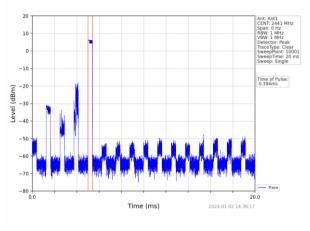


DH3

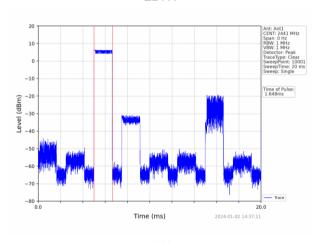




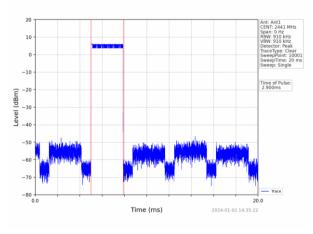
π/4-DQPSK mode



2DH1



2DH3





6.7. Band Edge

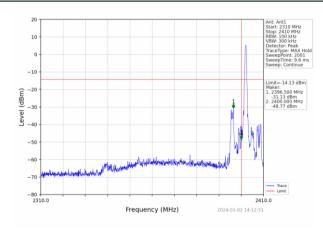
6.7.1. Conducted Emission Method

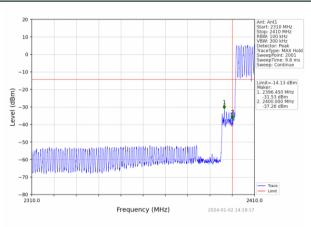
| Test Requirement: | FCC Part1 | FCC Part15 C Section 15.247 (d) | | | | | | | |
|-------------------|--|---|--------------|----------|---------|----------|--|--|--|
| Test Method: | ANSI C63. | ANSI C63.10:2013 | | | | | | | |
| Receiver setup: | RBW=100k | KHz, VBW=30 | 00kHz, Detec | tor=Peak | | | | | |
| Limit: | spectrum ir produced b 100 kHz ba desired pov | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. | | | | | | | |
| Test setup: | Spec | Spectrum Analyzer E.U.T Non-Conducted Table | | | | | | | |
| Test Instruments: | Refer to se | ction 6.0 for | details | | | | | | |
| Test mode: | Refer to se | Refer to section 5.2 for details | | | | | | | |
| Test results: | Pass | | | | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar | | | |



Test plot as follows: GFSK Mode:

Test channel Lowest channel

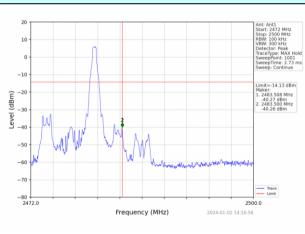




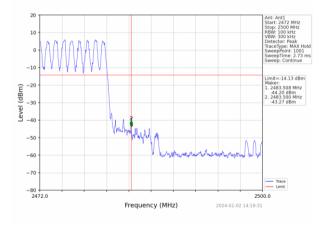
No-hopping mode

Hopping mode

Test channel:



Highest channel



No-hopping mode

Hopping mode



2024-01-02 14:30:15

π/4-DQPSK Mode:

Test channel | Comparison of Comparison of

No-hopping mode

2024-01-02 14:25:41

Frequency (MHz)

Hopping mode

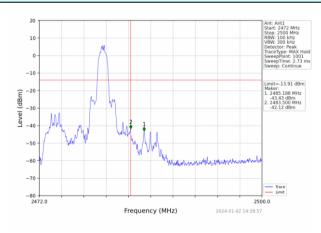
Frequency (MHz)

Test channel:

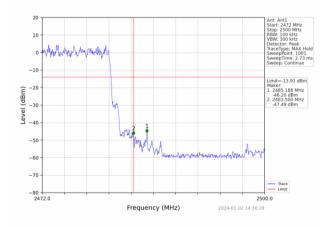
-80 L 2310.0

Highest channel

-80 ↓ 2310.0



No-hopping mode



Hopping mode



6.7.2. Radiated Emission Method

| 0.7.2. Radiated Lillission Method | | | | | | | | |
|-----------------------------------|--|--|---------|--------------|--------------|--------------|----------------------|--|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | | | | |
| Test Method: | ANSI C63.10 | ANSI C63.10:2013 | | | | | | |
| Test Frequency Range: | | All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed. | | | | | | |
| Test site: | Measureme | nt Distance: | 3m | | | | | |
| Receiver setup: | Frequenc | | | RBW | VBW | | emark | |
| | Above 1Gh | Hz Pea | | 1MHz 1MHz | 3MHz 10Hz | | k Value ige Value | |
| Limit: | Fre | quency | L | imit (dBuV | | | emark | |
| | Abov | ve 1GHz | | 54.0 74.0 | | | ige Value k Value | |
| Test setup: | | Test Antenna- Company Company | | | | | | |
| Test Procedure: | 1 The FLIT | was nlaced | 1 | | eamplifier | le 1 5 meter | s ahove the | |
| | The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or | | | | | | | |
| Test Instruments: | Refer to sec | tion 6.0 for c | letails | | | | | |
| Test mode: | Refer to sec | tion 5.2 for c | letails | | | | | |
| Test results: | Pass | | Г | | | | | |
| Test environment: | Temp.: 25 °C Humid.: 52% Press.: 1012mbar | | | | | | | |



Measurement Data

Remark: GFSK, Pi/4 DQPSK all have been tested, only worse case GFSK is reported.

Operation Mode: GFSK

| Freque | ncy(MHz) | : | 24 | 02 | Pola | arity: | Н | IORIZONTA | L |
|--------------------|--|-------------------------------|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|
| Frequency (MHz) | Le | Emission Level (dBuV/m) | | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) |
| 2390.00 | 60.29 | PK | 74 | 13.71 | 61.68 | 27.2 | 4.31 | 32.9 | -1.39 |
| 2390.00 | 44.32 | AV | 54 | 9.68 | 45.71 | 27.2 | 4.31 | 32.9 | -1.39 |
| Freque | ncy(MHz) | : | 24 | 02 | Pola | arity: | | VERTICAL | ı |
| Frequency (MHz) | Le | Emission Level (dBuV/m) | | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) |
| 2390.00 | 59.08 | PK | 74 | 14.92 | 60.47 | 27.2 | 4.31 | 32.9 | -1.39 |
| 2390.00 | 46.44 | AV | 54 | 7.56 | 47.83 | 27.2 | 4.31 | 32.9 | -1.39 |
| Freque | ncy(MHz) | : | 24 | 80 | P ola | arity: | Н | IORIZONTA | ۸L |
| Frequency (MHz) | Emis Le | vel | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) |
| 2483.50 | 55.66 | PK | 74 | 18.34 | 56.59 | 27.4 | 4.47 | 32.8 | -0.93 |
| 2483.50 | 45.92 | AV | 54 | 8.08 | 46.85 | 27.4 | 4.47 | 32.8 | -0.93 |
| Freque | ncy(MHz) | : | 24 | 80 | Pola | arity: | | VERTICAL | |
| Frequency (MHz) | Emis Le ^v (dBu [°] | vel | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) |
| 2483.50 | 55.75 | PK | 74 | 18.25 | 56.68 | 27.4 | 4.47 | 32.8 | -0.93 |
| 2483.50 | 44.17 | AV | 54 | 9.83 | 45.10 | 27.4 | 4.47 | 32.8 | -0.93 |

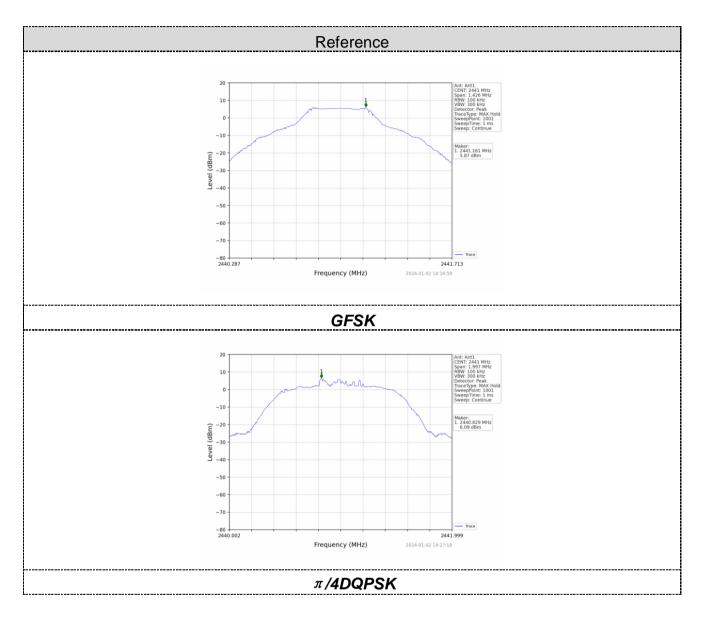


6.8. Spurious Emission

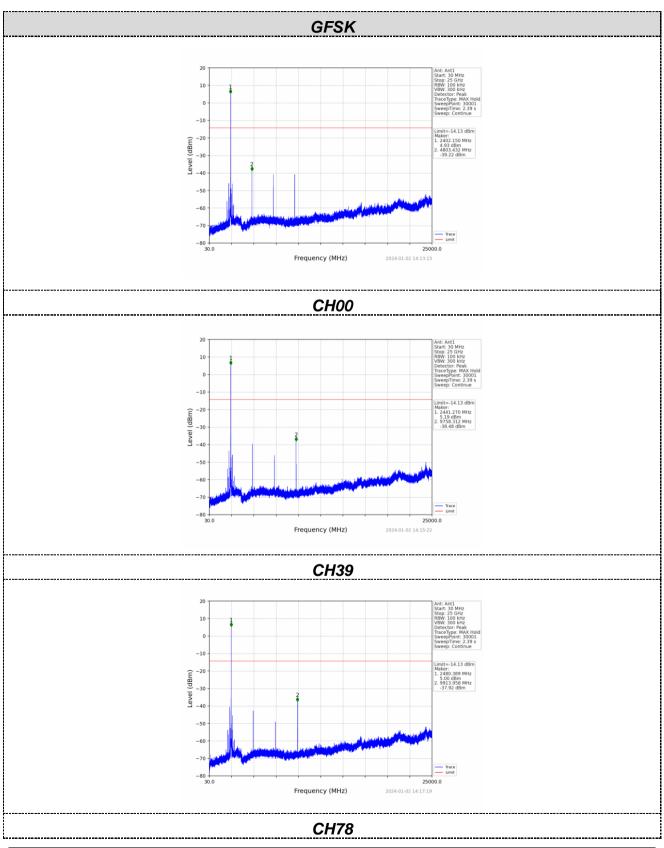
6.8.1. Conducted Emission Method

| Test Requirement: | FCC Part15 | C Section | 15.247 (d) | | | | | | |
|-------------------|--|---|------------|-----|---------|----------|--|--|--|
| Test Method: | ANSI C63. | 10:2013 | | | | | | | |
| Limit: | spectrum ir produced b 100 kHz ba desired pov | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. | | | | | | | |
| Test setup: | Sp | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | | | | |
| Test Instruments: | Refer to se | Refer to section 6.0 for details | | | | | | | |
| Test mode: | Refer to se | Refer to section 5.2 for details | | | | | | | |
| Test results: | Pass | | | | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar | | | |





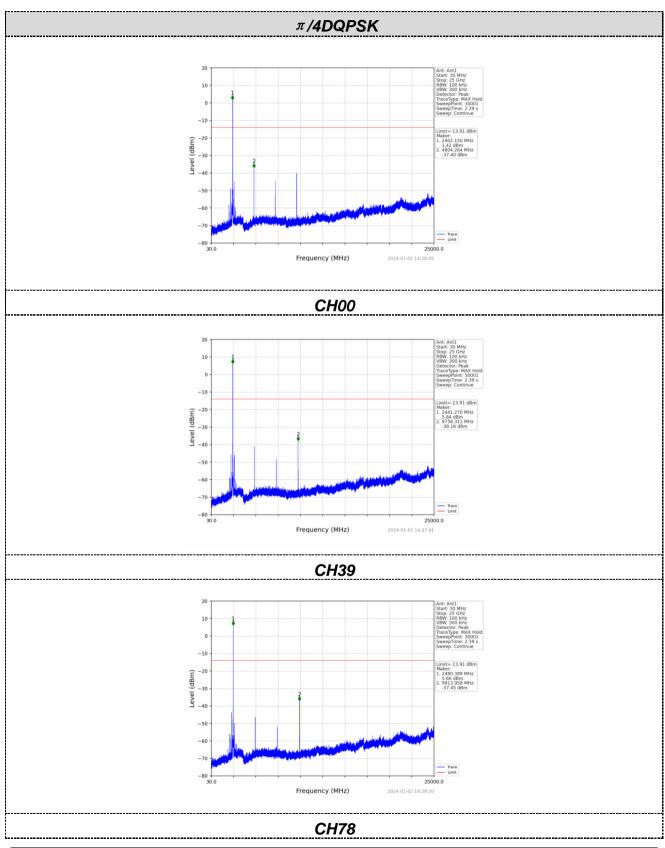




Shenzhen HTT Technology Co.,Ltd.

Tel: 0755-23595200 Fax: 0755-23595201





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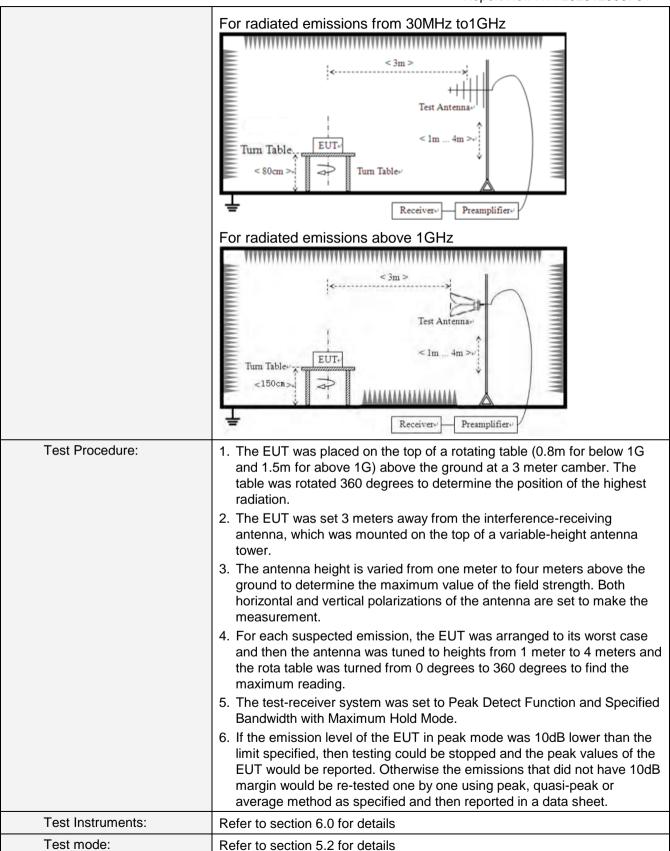
Tel: 0755-23595200 Fax: 0755-23595201



6.8.2. Radiated Emission Method

| Test Requirement: | FCC Part15 C Section 15.209 | | | | | | | | | |
|-----------------------|--|----------|-------------|---------|---------|----------|----------|-------------------------|--|--|
| Test Method: | ANSI C63.10:2013 | | | | | | | | | |
| Test Frequency Range: | 9kHz to 25GHz | | | | | | | | | |
| Test site: | Measurement Distar | ice: 3 | 3m | | | | | | | |
| Receiver setup: | Frequency | | Detector RE | | RBW V | | , | Value | | |
| | 9KHz-150KHz | Qı | ıasi-peak | 200Hz | | -lz 600H | | Quasi-peak | | |
| | 150KHz-30MHz | Qı | ıasi-peak | 9KF | łz | 30KH | z | Quasi-peak | | |
| | 30MHz-1GHz | Qı | ıasi-peak | 120K | Hz | 300KF | lz | Quasi-peak | | |
| | Above 1GHz | | Peak | 1MF | Ιz | 3MHz | <u>z</u> | Peak | | |
| | Above 1GHz | | Peak | 1MF | Ηz | 10Hz | <u>'</u> | Average | | |
| Limit: | Frequency | | Limit (u\ | //m) | ٧ | 'alue | M | leasurement Distance | | |
| | 0.009MHz-0.490M | Hz | 2400/F(k | (Hz) | | QP | | 300m | | |
| | 0.490MHz-1.705M | Hz | 24000/F(| KHz) | QP | | | 30m | | |
| | 1.705MHz-30MH | Z | 30 | | QP | | | 30m | | |
| | 30MHz-88MHz | | 100 | | QP | | | | | |
| | 88MHz-216MHz | <u>'</u> | | | | QP | | | | |
| | 216MHz-960MH | Z | | | | QP | | 3m | | |
| | 960MHz-1GHz | | 500 | | QP | | | Jili | | |
| | Above 1GHz | | 500 | | Average | | | | | |
| | 710070 10112 | | 5000 | | F | Peak | | | | |
| Test setup: | For radiated emiss | ions | from 9kH | z to 30 | МН | Z | | | | |
| | Tum Table Sur Tum Table Tum Table Receiver | | | | | | | | | |





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| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar | | |
|-------------------|---------------|-------|---------|-----|---------|----------|--|--|
| Test voltage: | AC 120V, 60Hz | | | | | | | |
| Test results: | Pass | | | | | | | |

Measurement data:

Remarks:

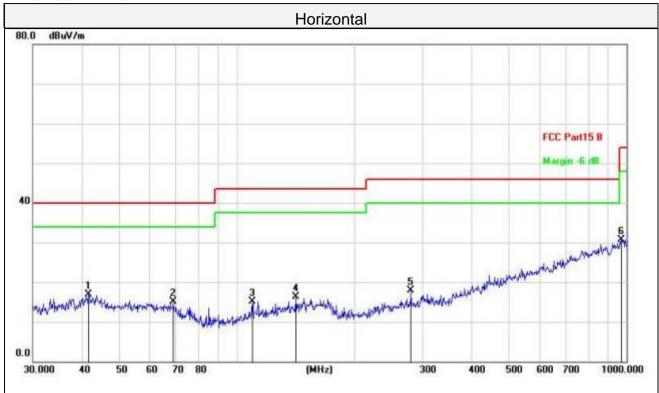
- 1. During the test, pre-scan the GFSK, $\pi/4$ -DQPSK modulation, and found the GFSK modulation which it is worse case.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



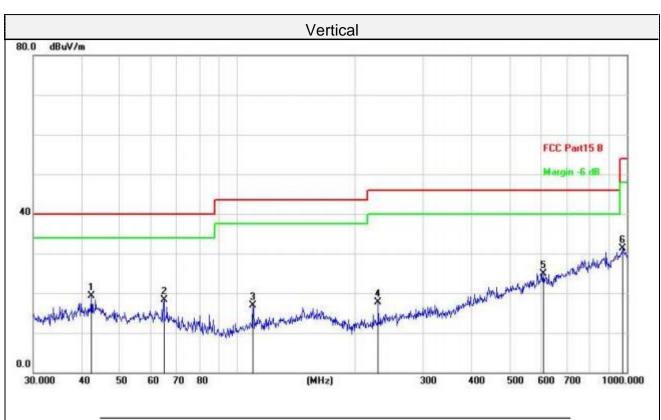
For 30MHz-1GHz



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|-------|--------|----------|
| | | MHz | dBuV | dB/m | dBuV/m | dB/m | dB | Detector |
| 1 | * | 41.7129 | 27.08 | -10.24 | 16.84 | 40.00 | -23.16 | QP |
| 2 | | 68.8721 | 28.25 | -13.13 | 15.12 | 40.00 | -24.88 | QP |
| 3 | | 109.7960 | 29.20 | -14.09 | 15.11 | 43.50 | -28.39 | QP |
| 4 | | 141.8262 | 27.91 | -11.65 | 16.26 | 43.50 | -27.24 | QP |
| 5 | | 280.0237 | 29.20 | -11.39 | 17.81 | 46.00 | -28.19 | QP |
| 6 | | 968.9338 | 27.10 | 3.51 | 30.61 | 54.00 | -23.39 | QP |

Final Level = Receiver Read level + Correct Factor





| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|-------|--------|----------|
| | | MHz | dBuV | dB/m | dBuV/m | dB/m | dB | Detector |
| 1 | * | 42.3022 | 29.51 | -10.26 | 19.25 | 40.00 | -20.75 | QP |
| 2 | | 64.8865 | 30.79 | -12.45 | 18.34 | 40.00 | -21.66 | QP |
| 3 | | 109.7960 | 31.02 | -14.09 | 16.93 | 43.50 | -26.57 | QP |
| 4 | | 230.0985 | 30.18 | -12.57 | 17.61 | 46.00 | -28.39 | QP |
| 5 | | 609.9217 | 28.22 | -3.22 | 25.00 | 46.00 | -21.00 | QP |
| 6 | | 975.7529 | 27.82 | 3.58 | 31.40 | 54.00 | -22.60 | QP |

Final Level =Receiver Read level + Correct Factor



For 1GHz to 25GHz

Remark: For test above 1GHz GFSK,Pi/4 DQPSK were test at Low, Middle, and High

channel; only the worst result of GFSK was reported as below:

| Freque | Frequency(MHz): | | | 2402 | | Polarity: | | HORIZONTAL | | | |
|--------------------|-----------------|----------------------|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|--|--|
| Frequency (MHz) | Le | ssion 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 | 58.88 | PK | 74 | 15.12 | 53.18 | 31 | 6.5 | 31.8 | 5.7 | | |
| 4804.00 | 41.62 | AV | 54 | 12.38 | 35.92 | 31 | 6.5 | 31.8 | 5.7 | | |
| 7206.00 | 53.15 | PK | 74 | 20.85 | 40.50 | 36 | 8.15 | 31.5 | 12.65 | | |
| 7206.00 | 44.95 | AV | 54 | 9.05 | 32.30 | 36 | 8.15 | 31.5 | 12.65 | | |

| Freque | Frequency(MHz): | | | 2402 | | Polarity: | | VERTICAL | | | |
|--------------------|-----------------|----------------------|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|--|--|
| Frequency (MHz) | Le | ssion 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 | 59.96 | PK | 74 | 14.04 | 54.26 | 31 | 6.5 | 31.8 | 5.7 | | |
| 4804.00 | 43.33 | AV | 54 | 10.67 | 37.63 | 31 | 6.5 | 31.8 | 5.7 | | |
| 7206.00 | 53.05 | PK | 74 | 20.95 | 40.40 | 36 | 8.15 | 31.5 | 12.65 | | |
| 7206.00 | 44.06 | AV | 54 | 9.94 | 31.41 | 36 | 8.15 | 31.5 | 12.65 | | |

| Freque | Frequency(MHz): | | | 2440 | | Polarity: | | HORIZONTAL | | | |
|-----------|-----------------|-----|-------------|---------------|--------|-----------|--------|------------|------------|--|--|
| Frequency | Emission | | Limit | Margin | Raw | Antenna | Cable | Pre- | Correction | | |
| (MHz) | Le | vel | (dBuV/m) | (dBuV/m) (dB) | Value | Factor | Factor | amplifier | Factor | | |
| (1711 12) | (dBuV/m) | | (dDd V/III) | (45) | (dBuV) | (dB/m) | (dB) | (dB) | (dB/m) | | |
| 4882.00 | 59.60 | PK | 74 | 14.40 | 53.44 | 31.2 | 6.61 | 31.65 | 6.16 | | |
| 4882.00 | 44.06 | AV | 54 | 9.94 | 37.90 | 31.2 | 6.61 | 31.65 | 6.16 | | |
| 7323.00 | 53.11 | PK | 74 | 20.89 | 40.16 | 36.2 | 8.23 | 31.48 | 12.95 | | |
| 7323.00 | 43.87 | AV | 54 | 10.13 | 30.92 | 36.2 | 8.23 | 31.48 | 12.95 | | |



| Freque | Frequency(MHz): | | | 2440 | | Polarity: | | VERTICAL | | | |
|-----------|-----------------|-----|--------------|-------|--------|-----------|--------|----------|------------|--------|--|
| Frequency | Emission | | Limit Margin | | Raw | Antenna | Cable | Pre- | Correction | | |
| (MHz) | Le | vel | (dBuV/m) | | (dB) | Value | Factor | Factor | amplifier | Factor | |
| (IVII IZ) | (dBuV/m) | | (dDd V/III) | (42) | (dBuV) | (dB/m) | (dB) | (dB) | (dB/m) | | |
| 4882.00 | 61.28 | PK | 74 | 12.72 | 55.12 | 31.2 | 6.61 | 31.65 | 6.16 | | |
| 4882.00 | 42.86 | AV | 54 | 11.14 | 36.70 | 31.2 | 6.61 | 31.65 | 6.16 | | |
| 7323.00 | 54.01 | PK | 74 | 19.99 | 41.06 | 36.2 | 8.23 | 31.48 | 12.95 | | |
| 7323.00 | 44.51 | AV | 54 | 9.49 | 31.56 | 36.2 | 8.23 | 31.48 | 12.95 | | |

| Freque | Frequency(MHz): | | | 2480 | | Polarity: | | HORIZONTAL | | | |
|--------------------|-----------------|----------------------|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|-------------------|--|--|
| Frequency (MHz) | Le | ssion vel V/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor | | |
| 4960.00 | 61.69 | PK | 74 | 12.31 | 55.03 | (dB/m) 31.4 | (dB) 6.76 | 31.5 | (dB/m) 6.66 | | |
| 4960.00 | 42.21 | AV | 54 | 11.79 | 35.55 | 31.4 | 6.76 | 31.5 | 6.66 | | |
| 7440.00 | 53.81 | PK | 74 | 20.19 | 40.51 | 36.4 | 8.35 | 31.45 | 13.3 | | |
| 7440.00 | 44.36 | AV | 54 | 9.64 | 31.06 | 36.4 | 8.35 | 31.45 | 13.3 | | |

| Frequency(MHz): | | | 2480 | | Polarity: | | VERTICAL | | | |
|--------------------|-------|----------------------|-------------------|----------------|------------------------|-----------------------------|-------------------------|---------------------------|--------------------------------|--|
| Frequency (MHz) | | ssion 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) | |
| 4960.00 | 63.11 | PK | 74 | 10.89 | 56.45 | 31.4 | 6.76 | 31.5 | 6.66 | |
| 4960.00 | 42.72 | AV | 54 | 11.28 | 36.06 | 31.4 | 6.76 | 31.5 | 6.66 | |
| 7440.00 | 54.13 | PK | 74 | 19.87 | 40.83 | 36.4 | 8.35 | 31.45 | 13.3 | |
| 7440.00 | 45.68 | AV | 54 | 8.32 | 32.38 | 36.4 | 8.35 | 31.45 | 13.3 | |

Remark:

⁽¹⁾ Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

⁽²⁾ When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed.



6.9. 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 maximum gain of antenna was 3.0 dBi.

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



7. Test Setup Photo

Reference to the appendix I for details.

8. EUT Constructional Details

Reference to the appendix II for details.

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