

FCC TEST REPORT for Shenzhen RDT Digital Technology Co., Ltd.

Bluetooth Headphone Model No.: NICE18B

Prepared for : Shenzhen RDT Digital Technology Co., Ltd.

Address : 4/F, Building 2, JiaAn Science & Technology Park, Liuxian 1st

Road, XinAn Street, 67th District, BaoAn, Shenzhen, China

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

Address : 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road,

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Report Number : R0116051043I
Date of Test : Jun. 03~ 16, 2016
Date of Report : Jun. 16, 2016



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TEST REPORT

| Applicant | : | Shenzhen RDT Digital Technology Co., Ltd |
|--------------|---|--|
| Manufacturer | : | Shenzhen RDT Digital Technology Co., Ltd |

EUT : Bluetooth Headphone

: NICE18B Model No.

Serial No. : N.A. Trade Mark : KSCAT

Rating : DC 5V, 300mA

Measurement Procedure Used:

FCC Part15 Subpart C 2015, Paragraph 15.247

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

| Jun. 03~ 16, 2016 |
|--------------------------------|
| kelso zhang |
| |
| (Tested Engineer / Kebo Zhang) |
| Amy Ding |
| (Project Manager / Amy Ding) |
| Ton Jalen |
| (Manager / Tom Chen) |
| |



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Bluetooth Headphone

Model Number : NICE18B

Test Power Supply: AC 120V, 60Hz for adapter/

AC 240V, 60Hz for adapter/DC 3.7V Battery inside

Frequency: 2402~2480MHz

Modulation : GFSK

Channel Spacing : 2MHz

Number of

: 40

Channels

Antenna Type : Integrated Antenna

Antenna Gain : 2.0 dBi

Applicant

: Shenzhen RDT Digital Technology Co., Ltd.

Address

: 4/F, Building 2, JiaAn Science & Technology Park, Liuxian 1st Road, XinAn Street, 67th District, BaoAn, Shenzhen, China

Manufacturer

: Shenzhen RDT Digital Technology Co., Ltd.

Address

: 4/F, Building 2, JiaAn Science & Technology Park, Liuxian 1st Road, XinAn Street, 67th District, BaoAn, Shenzhen, China

Factory : Shenzhen RDT Digital Technology Co., Ltd.

Address : 4/F, Building 2, JiaAn Science & Technology Park, Liuxian 1st

Road, XinAn Street, 67th District, BaoAn, Shenzhen, China

Date of receipt : Jun. 03, 2016

Date of Test : Jun. 03~ 16, 2016



1.2. Auxiliary Equipment Used during Test

Adapter : Manufacturer: ZTE

M/N: STC-A2050I1000USBA-C

S/N: 201202102100876

Input: 100-240V~50/60Hz 0.3A

Output: DC 5V, 1000mA

1.3. Description of Test Facility

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

FCC-Registration No.: 752021

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, July 10, 2013.

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A, Jun. 13, 2016.

Test Location

All Emissions tests were performed at

Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

1.4. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.1 dB (Horizontal)

Ur = 4.3 dB (Vertical)

Conduction Uncertainty : Uc = 3.4dB



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC Part 15, Paragraph 15.247.

2.1. Summary of Test Results

The EUT has been tested according to the following specifications:

| Standard | Test Type | Result | Notes |
|--|---|----------|----------|
| FCC Part 15, Paragraph 15.107, 15.207 | Conducted Emission Test | PASS | Complies |
| FCC Part 15, Paragraph 15.247(b)(1) | Peak Output Power | PASS | Complies |
| FCC Part 15, Paragraph 15.247(a)(2) | 6dB Bandwidth | PASS | Complies |
| FCC Part 15, Paragraph 15.247(c) | 100kHz Bandwidth of Frequency Band Edges | PASS | Complies |
| FCC Part 15, Paragraph 15.209(a)(f) | Spurious Emission | PASS | Complies |
| FCC Part 15, Paragraph 15.247(a)(1) | Frequency Separation | 1 | N/A |
| FCC Part 15, Paragraph 15.247(a)(1)(iii) | Number of Hopping Frequency | - | N/A |
| FCC Part 15, Paragraph 15.247(a)(1)(iii) | Time of Occupancy | - | N/A |
| FCC Part 15, Paragraph 15.247(c) | Peak Power Density | PASS | Complies |

2.2. Description of Test Modes

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

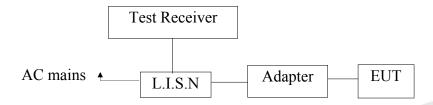
Channel Low(2402MHz), Channel Middle(2440MHz) and Channel High(2480MHz) are chosen for the final testing.



3. Conducted Emission Test

3.1. Block Diagram of Test Setup

3.1.1. Block diagram of connection between the EUT and simulators



3.2. Power Line Conducted Emission Measurement Limits (15.207)

| Frequency | Limits dB(μV) | | | |
|--------------|------------------|---------------|--|--|
| MHz | Quasi-peak Level | Average Level | | |
| 0.15 ~ 0.50 | 66 ~ 56* | 56 ~ 46* | | |
| 0.50 ~ 5.00 | 56 | 46 | | |
| 5.00 ~ 30.00 | 60 | 50 | | |

Notes: 1. *Decreasing linearly with logarithm of frequency.

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

3.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown as Section 3.1.
- 3.4.2. Turn on the power of all equipment.
- 3.4.3. Let the EUT work in test mode (Charging) and measure it.



3.5. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test results are reported on Section 3.6.

3.6. Test equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------|----------------------|-----------|------------|---------------|---------------|
| 1. | Two-Line V-network | Rohde & Schwarz | ENV216 | 100055 | Apr. 17, 2016 | 1 Year |
| 2. | EMI Test Receiver | Rohde & Schwarz | ESCI | 100627 | Apr. 17, 2016 | 1 Year |
| 3. | RF Switching Unit | Compliance Direction | RSU-M2 | 38303 | Apr. 17, 2016 | 1 Year |

3.7. Power Line Conducted Emission Measurement Results **PASS.**

The frequency range from 150KHz to 30 MHz is investigated.

Please refer the following pages.



CONDUCTED EMISSION TEST DATA

2.1340

4.1340

11

12

11.11

-2.94

20.00

20.00

31.11

17.06

56.00

46.00

-24.89

-28.94

QP

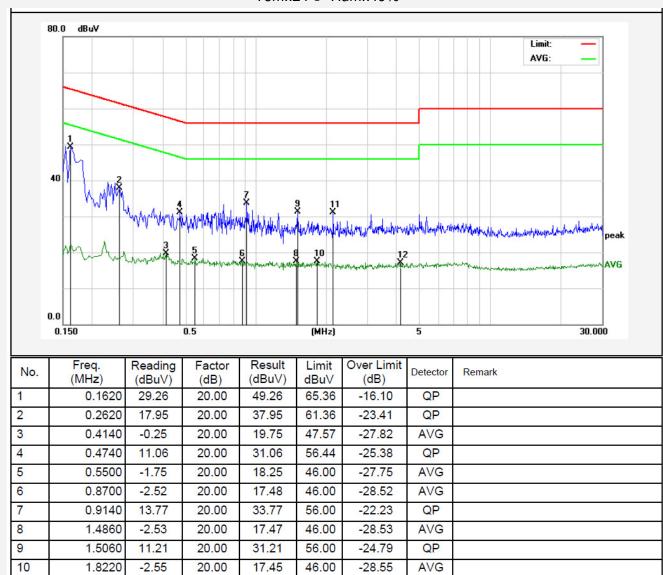
AVG

Test Site: 1# Shielded Room

Operating Condition: Charging

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line





9

10

11

12

-1.99

14.63

-2.65

-2.95

20.00

20.00

20.00

20.00

18.01

34.63

17.35

17.05

46.00

56.00

46.00

46.00

-27.99

-21.37

-28.65

-28.95

AVG

QP

AVG

AVG

1.9020

2.0660

2.9900

4.0939

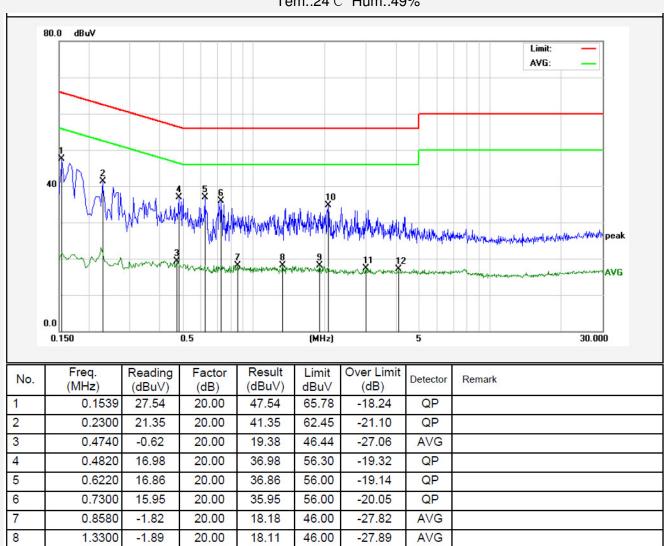
CONDUCTED EMISSION TEST DATA

Test Site: 1# Shielded Room

Operating Condition: Charging

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line





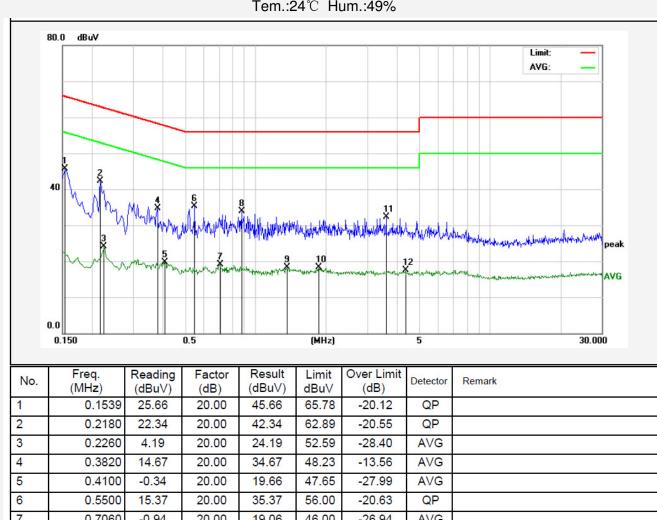
CONDUCTED EMISSION TEST DATA

Test Site: 1# Shielded Room

Operating Condition: Charging

Test Specification: AC 240V, 60Hz for adapter

Comment: Live Line





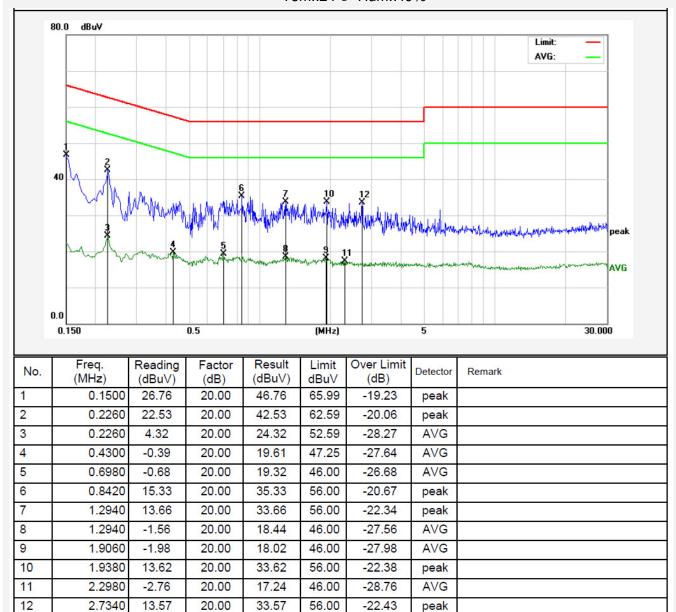
CONDUCTED EMISSION TEST DATA

Test Site: 1# Shielded Room

Operating Condition: Charging

Test Specification: AC 240V, 60Hz for adapter

Comment: Neutral Line





4. FCC Part 15.247 Requirements for DSSS & OFDM Modulation

4.1 Test Setup



4.2 6dB Bandwidth

a. Limit

For the direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

b. Test Procedure

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as:

RBW = 100kHz, $VBW \ge 3*RBW = 300kHz$.

Detector= Peak

Trace mode= Max hold.

Sweep- auto couple.

- 4. Mark the peak frequency and –6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.



c. Test Setup See 4.1

d. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---------------------------------------|-------------------------|------------------|-------------------|---------------|---------------|
| 1. | Spectrum Analysis | Agilent | E4407B | US39390582 | Apr. 17, 2016 | 1 Year |
| 2. | Preamplifier | Instruments corporation | EMC01183 0 | 980100 | Apr. 17, 2016 | 1 Year |
| 3. | EMI Test Receiver | Rohde & Schwarz | ESPI | 101604 | Apr. 17, 2016 | 1 Year |
| 4. | Double Ridged Horn Antenna | Instruments corporation | GTH-0118 | 351600 | Apr. 20, 2016 | 1 Year |
| 5. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | VULB 9163-289 | Apr. 20, 2016 | 1 Year |
| 6. | Pre-amplifier | SONOMA | 310N | 186860 | Apr. 17, 2016 | 1 Year |
| 7. | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | N/A | N/A |
| 8 | Power Sensor | DAER | RPR3006 W | 15I00041SN0 46 | Jun 30, 2015 | 1 Year |
| 9 | MXA Spectrum Analysis | Agilent | N9020A | MY51170037 | Jun 30, 2015 | 1 Year |
| 10 | MXG RF Vector Signal Generator | Agilent | N5182A | MY48180656 | Jun 30, 2015 | 1 Year |
| 11 | Signal Generator | Agilent | E4421B | MY41000743 | Jun 30, 2015 | 1 Year |
| 12 | DC Power supply | IV | IV-8080 | YQSB0096 | Jun 30, 2015 | 1 Year |
| 13 | TEMP&HUMI PROGRAMMAB LE CHAMBER | Bell Group | BE-THK-1 50M8 | SE-0137 | Mar 16, 2016 | 1 Year |

e. Test Results

Pass.



f. Test Data

| Channel | Frequency (MHz) | Bandwidth (kHz) | Limit (kHz) | Results |
|---------|--------------------|--------------------|----------------|---------|
| Low | 2402 | 507.1 | , , | Pass |
| Mid | 2440 | 502.5 | >500 | Pass |
| High | 2480 | 509.5 | | Pass |

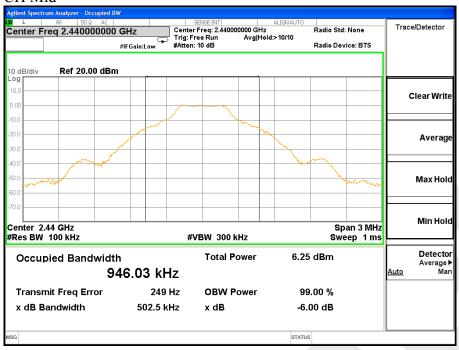
Test Plots See the following page.







CH Mid



CH High





4.3. Maximum Peak output power test

a. Limit

The maximum peak output power of the intentional radiator shall not exceed the following:

- 1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt (30dBm).
- 2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antenna of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

b. Configuration of Measurement

| EUT | DC block | ATT. | | Spectrum Analyzer |
|-----|----------|------|--|-------------------|
|-----|----------|------|--|-------------------|

c. Test Procedure

This test was according the kDB 558074 D01 DTS Meas Guidance v03r05 9.1.1:

- 1. This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.
- 2. Set the RBW ≥DTS bandwidth.
- 3. Set the VBW≥3*RBW.
- 4. Set the span $\geq 3*RBW$.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use peak marker function to determine the peak amplitude level.

d. Test Equipment

Same as the equipment listed in 4.2.

e. Test Results

Pass.



g. Test Data

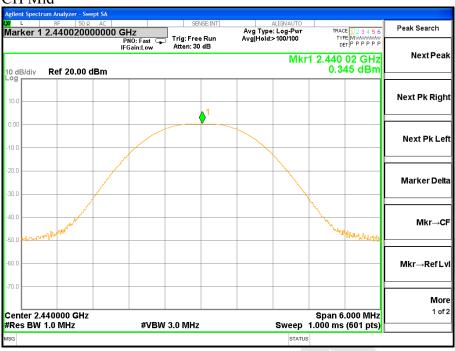
| Channel | Frequency | Maximum transmit power | Li | mit | Result |
|----------|-----------|------------------------|-------|---------|--------|
| Chamilei | (MHz) | (dBm) | (dBm) | (watts) | Resuit |
| Low | 2402 | 0.561 | | | Pass |
| Mid | 2440 | 0.345 | 30 | 1 | Pass |
| High | 2480 | 2.280 | | | Pass |

















4.4. Band Edges Measurement

a. Limit

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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 the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a).

b. Test Procedure

- 1. Conducted Method:
- 1) Set RBW=100KHz, VBW=300KHz
- 2) Detector=peak
- 3) Sweep time= auto
- 4) Trace mode=max hold.
- 2. Radiated Method:
- 1) For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. The EUT is tested in 9*6*6 Chamber.
 - For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane. The EUT is tested in 9*6*6 Chamber.
- 2) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4) Set both RBW and VBW of spectrum analyzer to 100kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT. If pass then set Spectrum Analyzer as below:

For below 1GHz:

The resolution bandwidth and video bandwidth of test receiver/ spectrum analyzer is 120kHz.

Detector: Quasi-Peak

For above 1GHz Peak measurement:

The resolution bandwidth of test receiver/ spectrum analyzer is 1MHz and video bandwidth is 3MHz.

Detector: Peak

For above 1GHz average measurement:

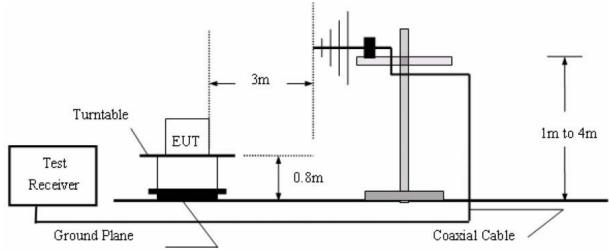
The resolution bandwidth of test receiver/ spectrum analyzer is 1MHz and the video bandwidth is 1kHz.

Detector: Peak

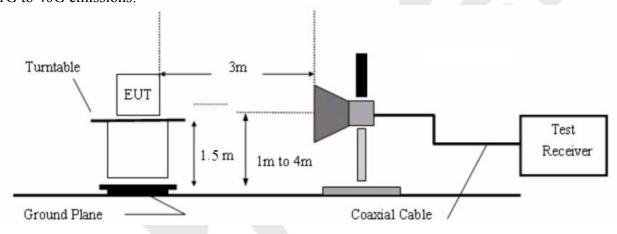
5) Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.



30M to 1G emissions:



1G to 40G emissions:



c. Test Equipment

Same as the equipment listed in 4.2.

d. Test Results

Pass.

e. Test Plots

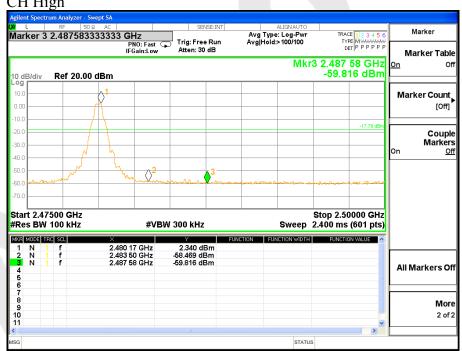
See the following page.



CH Low



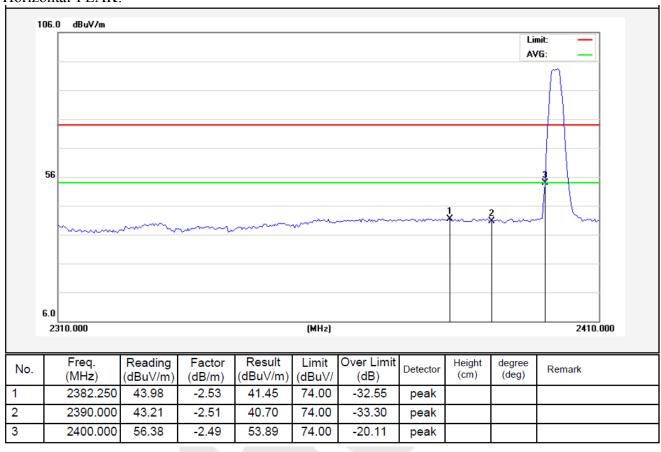






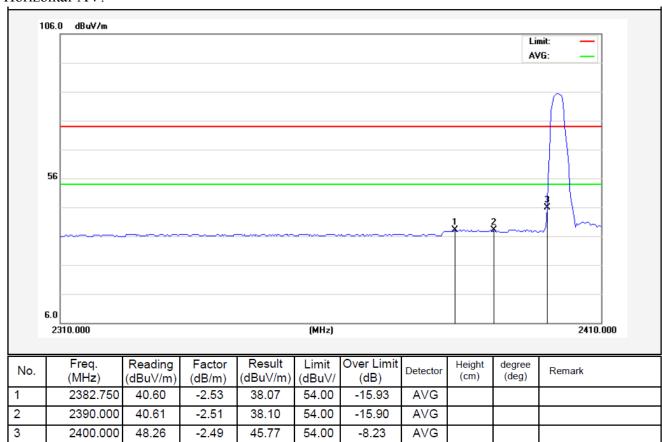
2402MHz

Horizontal-PEAK:



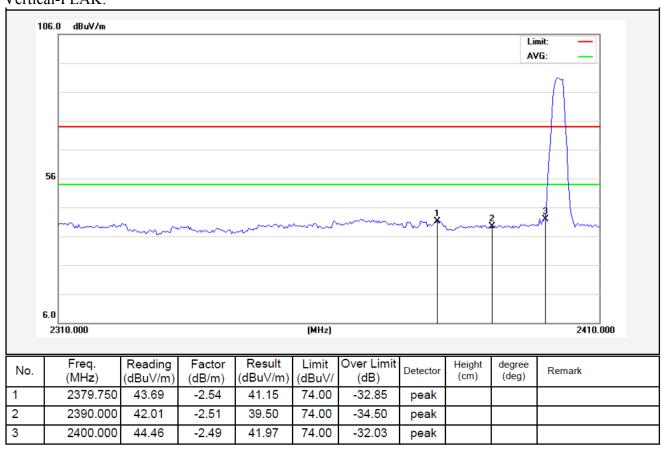


Horizontal-AV:



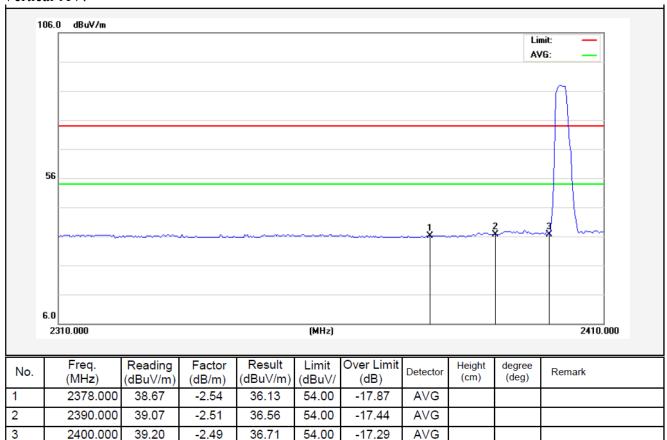


2402MHz Vertical-PEAK:



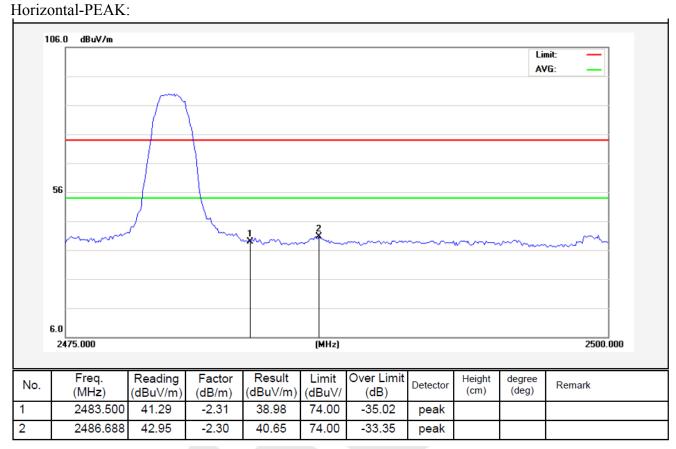


Vertical-AV:



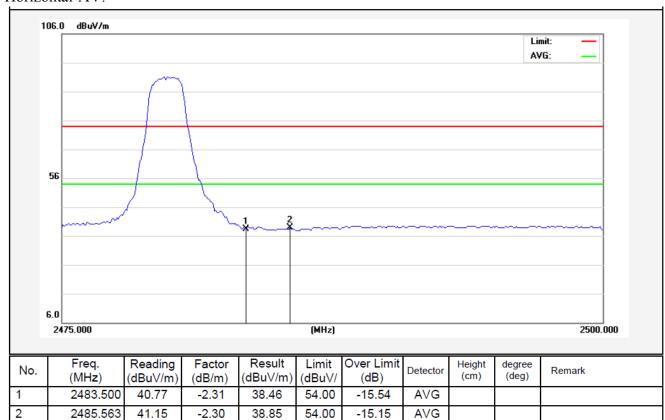


2480MHz



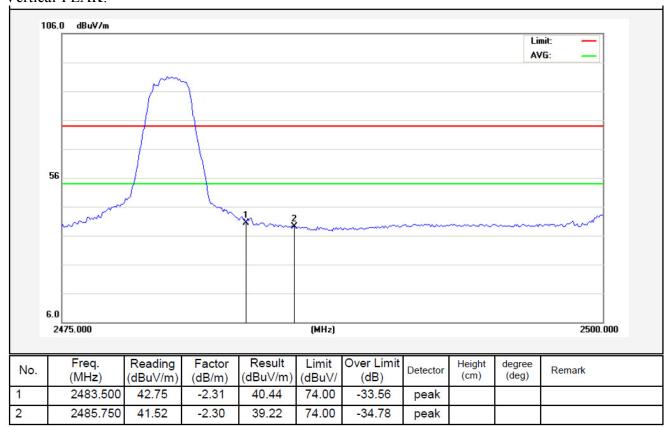


Horizontal-AV:



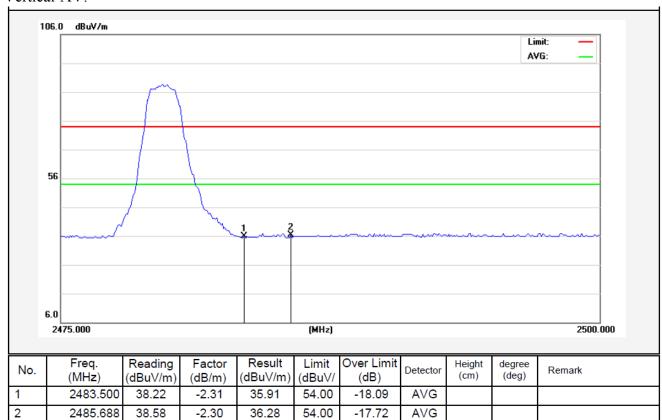


2480MHz Vertical-PEAK:





Vertical-AV:





4.5. Peak Power Spectral Density

a. Limit

- 1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
- 2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

b. Test Procedure

- 1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5xDTS BW
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

c. Test Equipment

Same as the equipment listed in 4.2.

d. Test Setup

See 3.1

e. Test Results

Pass

f. Test Data

Please refer to the following data.

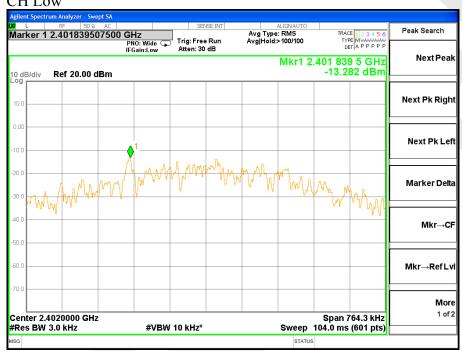
g. Test Plot See the following pages



Test mode: IEEE 802.11b

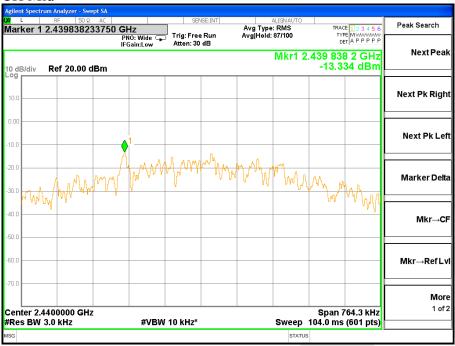
| Channel | Frequency | PPSD | \sum PPSD | Limit | Result |
|----------|-----------|------------|-------------|-------|--------|
| Chamilei | (MHz) | (dBm/3KHz) | (dBm/3KHz) | (dBm) | Resuit |
| Low | 2402 | -13.282 | - | 8.00 | Pass |
| Mid | 2440 | -13.334 | - | 8.00 | Pass |
| High | 2480 | -11.428 | - | 8.00 | Pass |

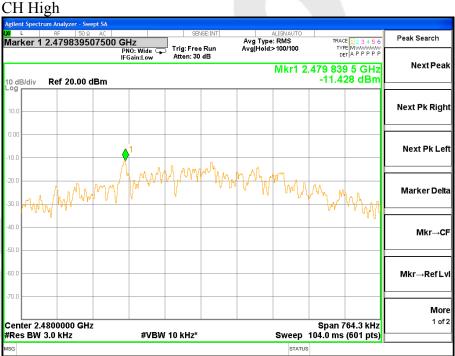
CH Low













4.6. Radiated Emissions

4.6.1.1. Test Limits (< 30 MHZ)

| Frequency | Field Strength | Measurement Distance |
|-------------|--------------------|----------------------|
| (MHz) | (microvolts/meter) | (meter) |
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |

4.6.1.2. Test Limits (≥ 30 MHZ)

FIELD STRENGTH FIELD STRENGTH S15.209

of Fundamental: of Harmonics 30 - 88 MHz 40 dBuV/m

@3M

902-928 MHZ 88 - 216 MHz 43.5 2.4-2.4835 GHz 216 - 960 MHz 46

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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

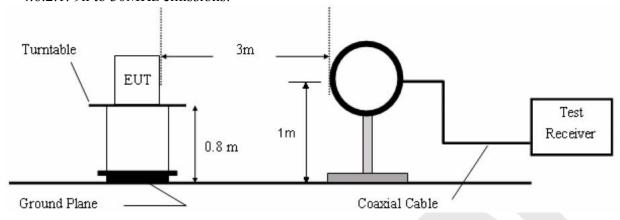
Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---------------------------------------|-------------------------|------------------|-------------------|---------------|---------------|
| 1. | Spectrum Analysis | Agilent | E4407B | US39390582 | Apr. 17, 2016 | 1 Year |
| 2. | Preamplifier | Instruments corporation | EMC011830 | 980100 | Apr. 17, 2016 | 1 Year |
| 3. | EMI Test Receiver | Rohde & Schwarz | ESPI | 101604 | Apr. 17, 2016 | 1 Year |
| 4. | Double Ridged Horn Antenna | Instruments corporation | GTH-0118 | 351600 | Apr. 20, 2016 | 1 Year |
| 5. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | VULB 9163-289 | Apr. 20, 2016 | 1 Year |
| 6. | Pre-amplifier | SONOMA | 310N | 186860 | Apr. 17, 2016 | 1 Year |
| 7. | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | N/A | N/A |
| 8 | Power Sensor | DAER | RPR3006W | 15I00041SN04 6 | Jun 30, 2015 | 1 Year |
| 9 | MXA Spectrum Analysis | Agilent | N9020A | MY51170037 | Jun 30, 2015 | 1 Year |
| 10 | MXG RF Vector Signal Generator | Agilent | N5182A | MY48180656 | Jun 30, 2015 | 1 Year |
| 11 | Signal Generator | Agilent | E4421B | MY41000743 | Jun 30, 2015 | 1 Year |
| 12 | DC Power supply | IV | IV-8080 | YQSB0096 | Jun 30, 2015 | 1 Year |
| 13 | TEMP&HUMI PROGRAMMABL E CHAMBER | Bell Group | BE-THK-15 0M8 | SE-0137 | Mar 16, 2016 | 1 Year |

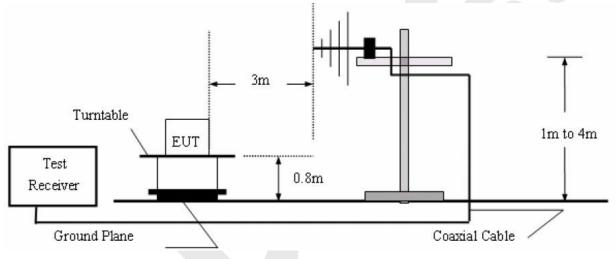


4.6.2. Test Configuration:

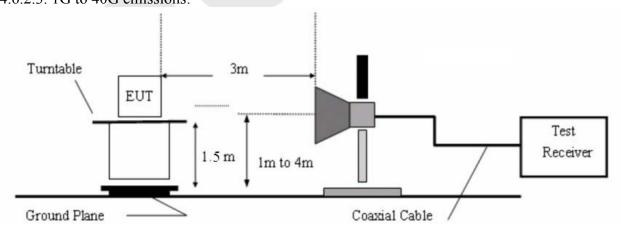
4.6.2.1. 9k to 30MHz emissions:



4.6.2.2. 30M to 1G emissions:



4.6.2.3. 1G to 40G emissions:





4.6.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Measurements are made on 9KHz to 30MHz and 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz

The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

The test results are listed in Section 4.6.4.

4.6.4. Test Results

PASS.

The EUT was tested on (Charging, BT Mode) modes, only the worst data of (Charging) is attached in the following pages.

Only the worst case (x orientation).

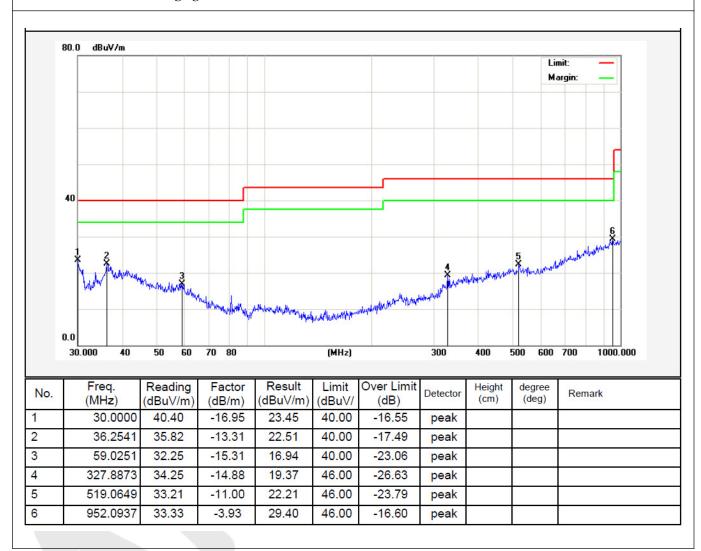
The test results of above 18000MHz are attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Standard: (RE)FCC PART15 C _3m Power Source: AC 120V, 60Hz for adapter

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Test Mode: Charging Distance: 3m

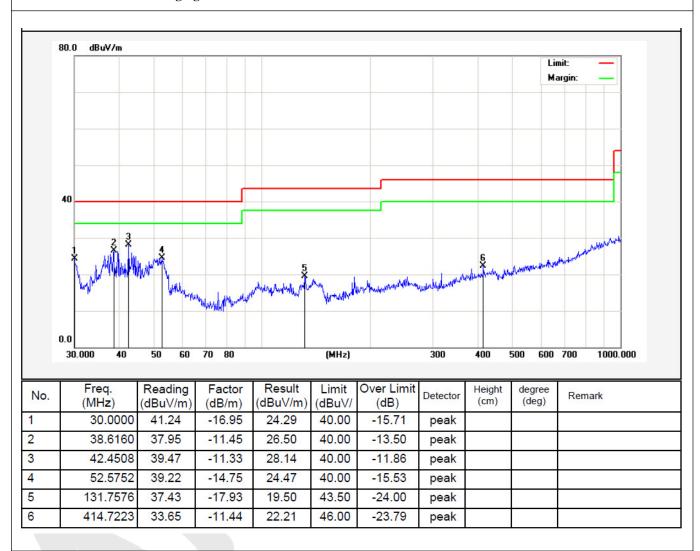




Standard: (RE)FCC PART15 C _3m Power Source: AC 120V, 60Hz for adapter

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Test Mode: Charging Distance: 3m

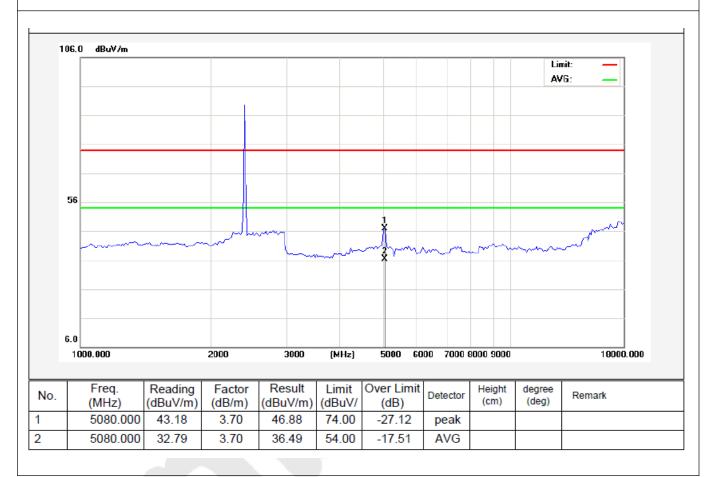




Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Note: 2402MHz Distance: 3m

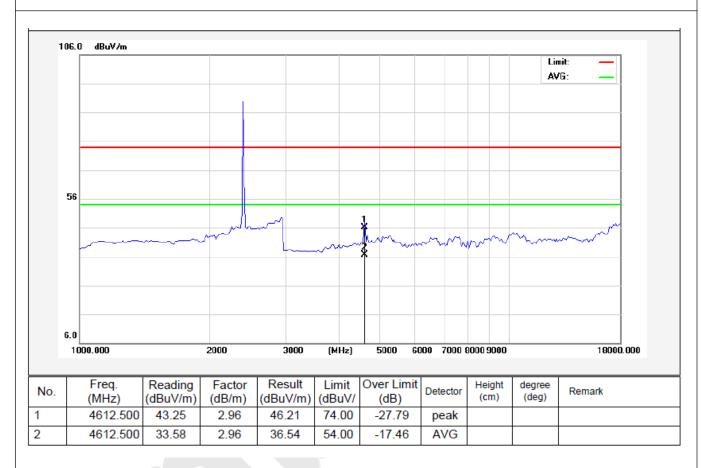




Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Note: 2402MHz Distance: 3m

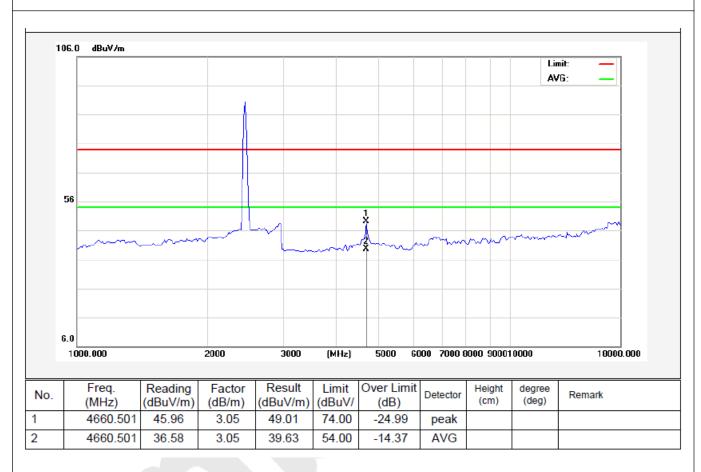




Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Note: 2440MHz Distance: 3m

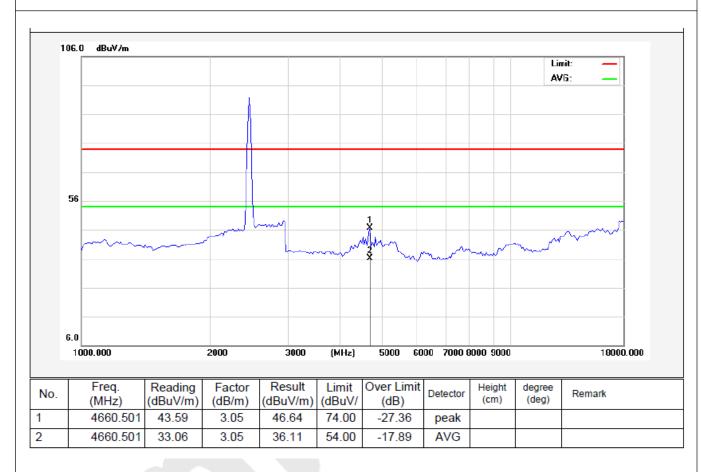




Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Note: 2440MHz Distance: 3m

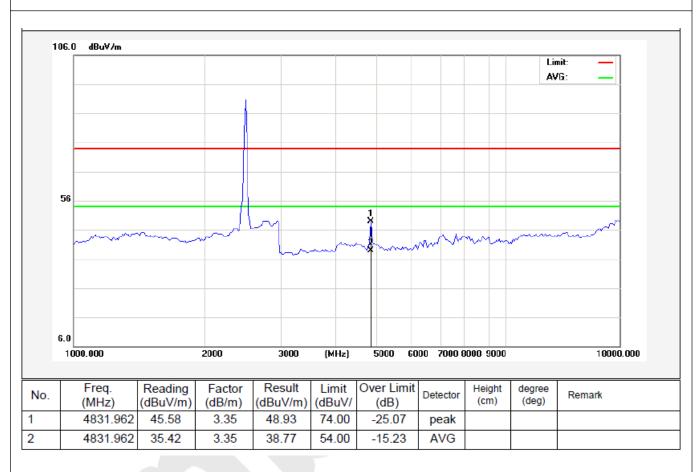




Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Note: 2480MHz Distance: 3m

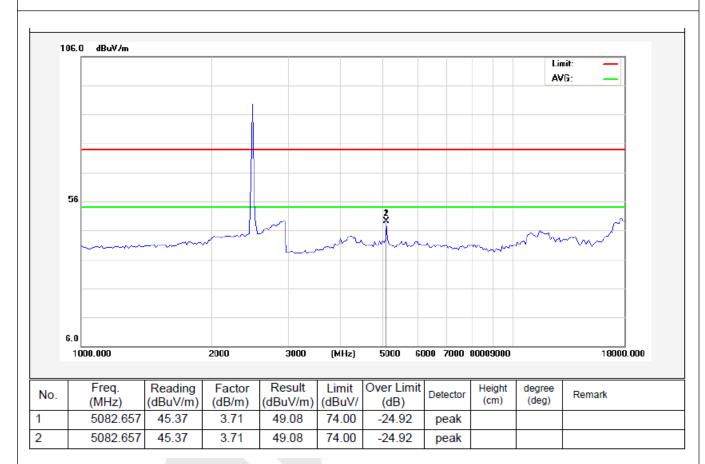




Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Note: 2480MHz Distance: 3m





5. ANTENNA APPLICATION

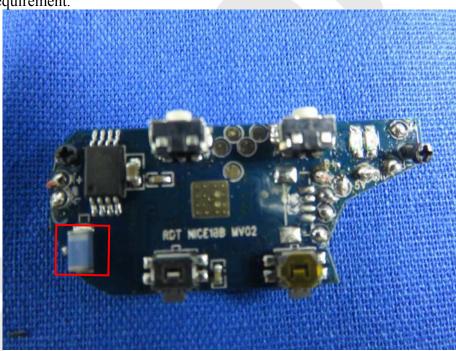
5.1. Antenna requirement

The EUT'S antenna is met the requirement of FCC part 15C 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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

5.2. Result

The EUT's antenna used a PCB antenna which is permanently attached, The antenna's gain is 2.0dBi and meets the requirement.





6. PHOTOGRAPH

6.1 Photo of Conducted Emission Test



6.2 Photo of Radiation Emission Test









APPENDIX I (EXTERNAL PHOTOS)







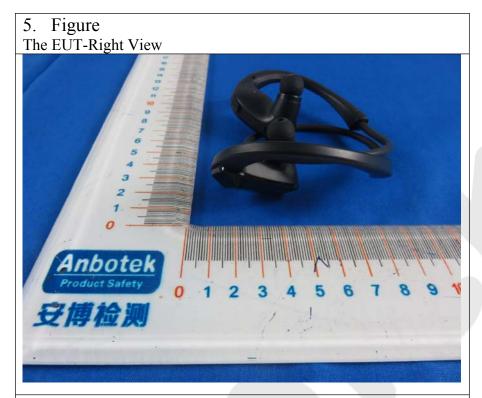




4. Figure
The EUT-Back View







6. Figure
The EUT-Left View

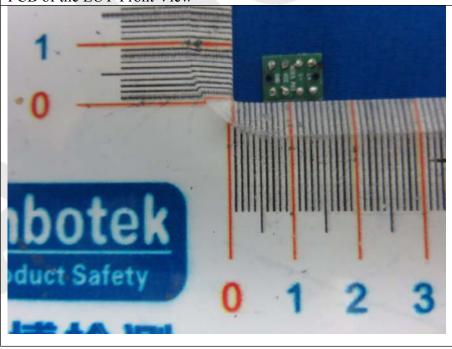




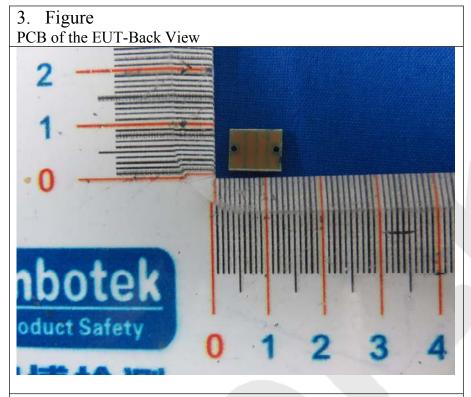
APPENDIX II (INTERNAL PHOTOS)



2. Figure PCB of the EUT-Front View







4. Figure PCB of the EUT-Front View









6. Figure PCB of the EUT-Front View

