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# **FCC REPORT**

**Applicant:** Polyconcept Trading (Shanghai) Co., Ltd.

Address of Applicant: 5F, Hero Bldg., 2669 Xietu Road, Xuhui District, Shanghai,

200030, PR, China

**Equipment Under Test (EUT)** 

Product Name: BLUETOOTH HEADPHONE

Brand Name: Leeds

Model No.: 7199-43, RWD-X6BT

**FCC ID**: 2ABF67199-43

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2013

Date of sample receipt: August 20, 2014

Date of Test: August 20, 2014 To August 26, 2014

**Date of report issued:** August 26, 2014

Test Result: PASS \*

Authorized Signature:

Kevin Yu Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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## 2 Version

| Version No. | Date            | Description |
|-------------|-----------------|-------------|
| 00          | August 26, 2014 | Original    |
|             |                 |             |
|             |                 |             |
|             |                 |             |
|             |                 |             |

| Prepared By: | Jason            | Date: | August 26, 2014 |
|--------------|------------------|-------|-----------------|
|              | Project Engineer |       |                 |
| Check By:    | Canyo            | Date: | August 26, 2014 |
|              | Reviewer         |       |                 |



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## 4 Test Summary

| Test Item                                | Section in CFR 47     | Result |
|--|-----------------------|--------|
| Antenna requirement                      | 15.203                | Pass   |
| AC Power Line Conducted Emission         | 15.207                | Pass   |
| Field strength of the fundamental signal | 15.249 (a)            | Pass   |
| Spurious emissions                       | 15.249 (a) (d)/15.209 | Pass   |
| Band edge                                | 15.249 (d)/15.205     | Pass   |
| 20dB Occupied Bandwidth                  | 15.215 (c)            | Pass   |

Pass: The EUT complies with the essential requirements in the standard.

N/A: not applicable.



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### 5 General Information

### 5.1 Client Information

| Applicant:               | Polyconcept Trading (Shanghai) Co., Ltd.                               |
|--------------------------|--|
| Address of Applicant:    | 5F, Hero Bldg., 2669 Xietu Road, Xuhui District, Shanghai, 200030, PR, |
|                          | China  |
| Manufacturer:            | RWD INDUSTRIAL CO., LTD  |
| Address of Manufacturer: | Floor 3, Building 1, Chuangxinghong Industrial Park, Dashuikeng,       |
|                          | Guanguang Road, Guanlan, Bao'an District, Shenzhen, Guangdong          |

## 5.2 General Description of EUT

| Product Name:        | BLUETOOTH HEADPHONE         |
|----------------------|-----------------------------|
| Brand Name:          | Leeds                       |
| Model No.:           | 7199-43, RWD-X6BT           |
| Operation Frequency: | 2402MHz~2480MHz             |
| Channel numbers:     | 79                          |
| Channel separation:  | 1MHz                        |
| Modulation type:     | GFSK, Pi/4QPSK, 8DPSK       |
| Antenna Type:        | PCB Antenna                 |
| Antenna gain:        | 0dBi (declare by Applicant) |
| Power supply:        | DC 3.7V Li-ion Battery      |



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| Operation | Operation Frequency each of channel |         |           |         |           |         |           |  |  |
|-----------|-------------------------------------|---------|-----------|---------|-----------|---------|-----------|--|--|
| Channel   | Frequency                           | Channel | Frequency | Channel | Frequency | Channel | Frequency |  |  |
| 1         | 2402MHz                             | 21      | 2422MHz   | 41      | 2442MHz   | 61      | 2462MHz   |  |  |
| 2         | 2403MHz                             | 22      | 2423MHz   | 42      | 2443MHz   | 62      | 2463MHz   |  |  |
| i         |                                     |         |           | :       |           |         |           |  |  |
| 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   |



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#### 5.3 Test mode

Transmitting mode keep the Bluetooth in continuously transmitting mode

Remark: 1.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.

REMARK: GFSK, Pi /4OPSK, 8DPSK all have been tested, GFSK is worse case, and only listed worse case result in report.

#### Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

| Axis                   | X     | Υ      | Z     |
|------------------------|-------|--------|-------|
| Field Strength(dBuV/m) | 97.75 | 100.34 | 98.46 |

#### **Final Test Mode:**

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup":

Y axis (see the test setup photo)

### 5.4 Description of Support Units

None.

### 5.5 Test Facility

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

### • CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

### • FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

### • Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

#### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

### 5.7 Other Information Requested by the Customer

None.



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### 6 Test Instruments list

| Rad  | Radiated Emission:               |                                |                             |                  |                        |                            |  |  |  |
|------|----------------------------------|--------------------------------|-----------------------------|------------------|------------------------|----------------------------|--|--|--|
| Item | Test Equipment                   | Manufacturer                   | Model No.                   | Inventory<br>No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |  |  |  |
| 1    | 3m Semi- Anechoic<br>Chamber     | ZhongYu Electron               | 9.2(L)*6.2(W)* 6.4(H)       | GTS250           | Mar. 29 2013           | Mar. 28 2015               |  |  |  |
| 2    | Control Room                     | ZhongYu Electron               | 6.2(L)*2.5(W)* 2.4(H)       | GTS251           | N/A                    | N/A                        |  |  |  |
| 3    | Spectrum Analyzer                | Agilent                        | E4440A                      | GTS533           | Dec. 5, 2013           | Dec. 4 2014                |  |  |  |
| 4    | EMI Test Receiver                | Rohde & Schwarz                | ESU26                       | GTS203           | Jul. 02 2014           | Jul. 01 2015               |  |  |  |
| 5    | BiConiLog Antenna                | SCHWARZBECK<br>MESS-ELEKTRONIK | VULB9163                    | GTS214           | Jul. 02 2014           | Jul. 01 2015               |  |  |  |
| 6    | Double -ridged waveguide<br>horn | SCHWARZBECK<br>MESS-ELEKTRONIK | 9120D-829                   | GTS208           | Jul. 02 2014           | Jul. 01 2015               |  |  |  |
| 7    | Horn Antenna                     | ETS-LINDGREN                   | 3160                        | GTS217           | Mar. 28 2014           | Mar. 27 2015               |  |  |  |
| 8    | EMI Test Software                | AUDIX                          | E3                          | N/A              | N/A                    | N/A                        |  |  |  |
| 9    | Coaxial Cable                    | GTS                            | N/A                         | GTS213           | Mar. 28 2014           | Mar. 27 2015               |  |  |  |
| 10   | Coaxial Cable                    | GTS                            | N/A                         | GTS211           | Mar. 28 2014           | Mar. 27 2015               |  |  |  |
| 11   | Coaxial cable                    | GTS                            | N/A                         | GTS210           | Mar. 28 2014           | Mar. 27 2015               |  |  |  |
| 12   | Coaxial Cable                    | GTS                            | N/A                         | GTS212           | Mar. 28 2014           | Mar. 27 2015               |  |  |  |
| 13   | Amplifier(100kHz-3GHz)           | HP                             | 8347A                       | GTS204           | Jul. 02 2014           | Jul. 01 2015               |  |  |  |
| 14   | Amplifier(2GHz-20GHz)            | HP                             | 8349B                       | GTS206           | Jul. 02 2014           | Jul. 01 2015               |  |  |  |
| 15   | Amplifier (18-26GHz)             | Rohde & Schwarz                | AFS33-18002<br>650-30-8P-44 | GTS218           | Jul. 02 2014           | Jul. 01 2015               |  |  |  |
| 16   | Band filter                      | Amindeon                       | 82346                       | GTS219           | Mar. 28 2014           | Mar. 27 2015               |  |  |  |

| Con  | Conducted Emission: |                                |                      |                  |                        |                            |  |  |  |
|------|---------------------|--------------------------------|----------------------|------------------|------------------------|----------------------------|--|--|--|
| Item | Test Equipment      | Manufacturer                   | Model No.            | Inventory<br>No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |  |  |  |
| 1    | Shielding Room      | ZhongYu Electron               | 7.0(L)x3.0(W)x3.0(H) | GTS264           | Sep. 07 2013           | Sep. 06 2015               |  |  |  |
| 2    | EMI Test Receiver   | Rohde & Schwarz                | ESCS30               | GTS223           | Jul. 02 2014           | Jul. 01 2015               |  |  |  |
| 3    | 10dB Pulse Limita   | Rohde & Schwarz                | N/A                  | GTS224           | Jul. 02 2014           | Jul. 01 2015               |  |  |  |
| 4    | Coaxial Switch      | ANRITSU CORP                   | MP59B                | GTS225           | Jul. 02 2014           | Jul. 01 2015               |  |  |  |
| 5    | LISN                | SCHWARZBECK<br>MESS-ELEKTRONIK | NSLK 8127            | GTS226           | Jul. 02 2014           | Jul. 01 2015               |  |  |  |
| 6    | Coaxial Cable       | GTS                            | N/A                  | GTS227           | Jul. 02 2014           | Jul. 01 2015               |  |  |  |
| 7    | EMI Test Software   | AUDIX                          | E3                   | N/A              | N/A                    | N/A                        |  |  |  |

| Gen  | General used equipment: |              |           |                  |                        |                            |  |  |  |
|------|-------------------------|--------------|-----------|------------------|------------------------|----------------------------|--|--|--|
| Item | Test Equipment          | Manufacturer | Model No. | Inventory<br>No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |  |  |  |
| 1    | Barometer               | ChangChun    | DYM3      | GTS257           | Jul. 02 2014           | Jul. 01 2015               |  |  |  |



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### 7 Test results and Measurement Data

## 7.1 Antenna requirement:

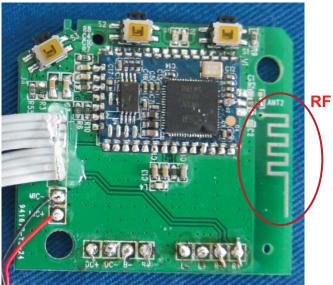
Standard requirement: FCC Part15 C Section 15.203

#### 15.203 requirement:

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.

#### E.U.T Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 0dBi



RF Antenna



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### 7.2 Conducted Emissions

| Test Requirement:     | FCC Part15 C Section 15.207   |  |   |  |  |  |  |  |  |  |
|-----------------------|---|--|---|--|--|--|--|--|--|--|
| Test Method:          | ANSI C63.4:2003   |  |   |  |  |  |  |  |  |  |
| Test Frequency Range: | 150KHz to 30MHz   |  |   |  |  |  |  |  |  |  |
| Class / Severity:     | Class B   | Class B  |   |  |  |  |  |  |  |  |
| Receiver setup:       | RBW=9KHz, VBW=30KHz, Sv   | weep time=auto   |   |  |  |  |  |  |  |  |
| Limit:                | Fraguerou ranga (MIII-)   | Limit (c   | 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  | n of the frequency.  |   |  |  |  |  |  |  |  |
| Test setup:           | Reference Plane   |  |   |  |  |  |  |  |  |  |
|                       | AUX Equipment E.U.T  Remark  E.U.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m  |  |   |  |  |  |  |  |  |  |
| Test procedure:       | <ol> <li>The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impedance.</li> <li>The peripheral devices are LISN that provides a 50ohm termination. (Please refer to photographs).</li> </ol>   | n network (L.I.S.N.). The<br>dance for the measuri<br>also connected to the<br>n/50uH coupling imped | nis provides a ing equipment. main power through a dance with 50ohm |  |  |  |  |  |  |  |
|                       | 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. |  |   |  |  |  |  |  |  |  |
| Test Instruments:     | Refer to section 6.0 for details  |  |   |  |  |  |  |  |  |  |
| Test mode:            | Refer to section 5.3 for details  | 3  |   |  |  |  |  |  |  |  |
| Test results:         | Pass  |  |   |  |  |  |  |  |  |  |
|                       |   |  |   |  |  |  |  |  |  |  |

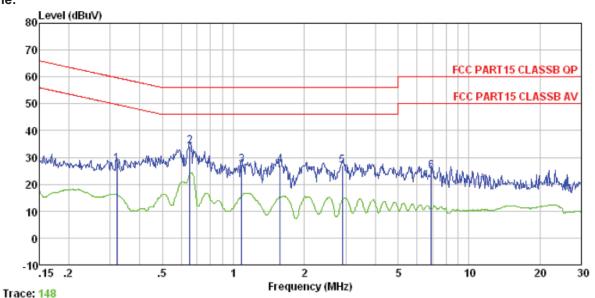
#### Measurement data:



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#### Line:



Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Test mode : Bluetooth mode

Test Engineer: Mike

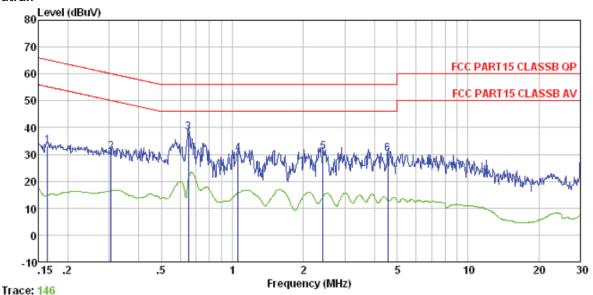
|                       | Freq                             | Read<br>Level  | Cable<br>Loss                |  |                                  | Over<br>Limit                        |                      |
|-----------------------|----------------------------------|--|------------------------------|--|----------------------------------|--------------------------------------|----------------------|
|                       | MHz                              | dBu∜   | dB                           | dBu₹   | dBuV                             | dB                                   |                      |
| 1<br>2<br>3<br>4<br>5 | 0.654<br>1.082<br>1.577<br>2.900 | 27. 32<br>33. 98<br>26. 87<br>27. 08<br>26. 46<br>24. 35 | 0.13<br>0.13<br>0.14<br>0.15 | 27.53<br>34.24<br>27.13<br>27.34<br>26.76<br>24.76 | 56.00<br>56.00<br>56.00<br>56.00 | -21.76<br>-28.87<br>-28.66<br>-29.24 | QP<br>QP<br>QP<br>QP |



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#### Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Test mode : Bluetooth mode

Test Engineer: Mike

|                       | Freq                             |                            | Cable<br>Loss        |                            | Limit<br>Line                    | Over<br>Limit                            | Remark               |
|-----------------------|----------------------------------|----------------------------|----------------------|----------------------------|----------------------------------|--|----------------------|
|                       | MHz                              | dBu₹                       | dB                   | dBu₹                       | dBuV                             | dB                                       |                      |
| 1<br>2<br>3<br>4<br>5 | 0.305<br>0.651<br>1.054<br>2.422 | 37. 80<br>29. 91<br>30. 50 | 0.10<br>0.13<br>0.13 | 38. 00<br>30. 11<br>30. 75 | 60.10<br>56.00<br>56.00<br>56.00 | -29. 29<br>-18. 00<br>-25. 89<br>-25. 25 | QP<br>QP<br>QP<br>QP |

#### 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 Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



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### 7.3 Radiated Emission Method

| 7.3 Radiated          | 3 Radiated Emission Method |   |                                 |                               |               |   |  |  |  |  |  |
|-----------------------|----------------------------|---|---------------------------------|-------------------------------|---------------|---|--|--|--|--|--|
| Test Require          | ement:                     | FCC Part15 C S  | Section 15.20                   | 9                             |               |   |  |  |  |  |  |
| Test Method           | l:                         | ANSI C63.4:200  | 03                              |                               |               |   |  |  |  |  |  |
| Test Freque           | ncy Range:                 | 30MHz to 25GH   | łz                              |                               |               |   |  |  |  |  |  |
| Test site:            |                            | Measurement D   | Distance: 3m                    |                               |               |   |  |  |  |  |  |
| Receiver se           | tup:                       | Frequency   | Detector                        | RBW                           | VBW           | Remark  |  |  |  |  |  |
|                       |                            | 30MHz-<br>1GHz  | Quasi-pea                       | ( 120KH                       | z 300KHz      | Quasi-peak Value  |  |  |  |  |  |
|                       |                            | Above 1GHz  | Peak                            | 1MHz                          | 3MHz          | Peak Value  |  |  |  |  |  |
|                       |                            | Above IGHZ  | Peak                            | 1MHz                          | 10Hz          | Average Value   |  |  |  |  |  |
| Limit:                |                            | Frequency Limit (dBuV/m @3m) Remark   |                                 |                               |               |   |  |  |  |  |  |
| (Field streng         | th of the                  | 2400MHz-2483 5MHz 94.00 Average Value   |                                 |                               |               |   |  |  |  |  |  |
| fundamenta            | l signal)                  | 114.00 Peak Value   |                                 |                               |               |   |  |  |  |  |  |
| Limit:                |                            | Frequency Limit (dBuV/m @3m) Remark   |                                 |                               |               |   |  |  |  |  |  |
| (Spurious E           | missions)                  | 30MHz-88MHz 40.00 Quasi-peak Value  |                                 |                               |               |   |  |  |  |  |  |
|                       |                            | 88MHz-21  |                                 |                               | 3.50          | Quasi-peak Value  |  |  |  |  |  |
|                       |                            | 216MHz-9<br>960MHz-   |                                 |                               | 3.00<br>1.00  | Quasi-peak Value  Quasi-peak Value                                |  |  |  |  |  |
|                       |                            |   |                                 |                               | 1.00          | Average Value   |  |  |  |  |  |
|                       |                            | Above 1   | IGHz                            |                               | 1.00          | Peak Value  |  |  |  |  |  |
| Limit:<br>(band edge) |                            | harmonics, shal<br>fundamental or   | ll be attenuat<br>to the genera | ed by at lea<br>al radiated e | st 50 dB belo | w bands, except for<br>w the level of the<br>s in Section 15.209, |  |  |  |  |  |
| Test setup:           |                            | fundamental or to the general radiated emission limits in Section 15.20 whichever is the lesser attenuation.  Below 1GHz  Antenna Tower  Antenna  RF Test  Receiver  Ground Plane  Above 1GHz |                                 |                               |               |   |  |  |  |  |  |



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|                   | Antenna Tower  Horn Antenna  Spectrum  Analyzer  Turn  Table  Amplifier  |
|-------------------|--|
| Test Procedure:   | The EUT was placed on the top of a rotating table 0.8 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.  |
|                   | <ol> <li>The antenna height is varied from one meter to four meters above the<br/>ground to determine the maximum value of the field strength. Both<br/>horizontal and vertical polarizations of the antenna are set to make the<br/>measurement.</li> </ol>   |
|                   | 4. 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.   |
|                   | 6. 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 average method as specified and then reported in a data sheet. |
| Test Instruments: | Refer to section 6.0 for details   |
| Test mode:        | Refer to section 5.3 for details   |
| Test results:     | Pass   |

### Measurement data:



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### 7.3.1 Field Strength of The Fundamental Signal

#### Peak value:

|                    |                         |                             |                       |                          |                   |                        |                       | _            |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
| 2402.00            | 97.55                   | 27.58                       | 5.39                  | 30.18                    | 100.34            | 114.00                 | -13.66                | Vertical     |
| 2402.00            | 94.37                   | 27.58                       | 5.39                  | 30.18                    | 97.16             | 114.00                 | -16.84                | Horizontal   |
| 2441.00            | 96.07                   | 27.55                       | 5.43                  | 30.06                    | 98.99             | 114.00                 | -15.01                | Vertical     |
| 2441.00            | 93.38                   | 27.55                       | 5.43                  | 30.06                    | 96.30             | 114.00                 | -17.70                | Horizontal   |
| 2480.00            | 94.70                   | 27.52                       | 5.47                  | 29.93                    | 97.76             | 114.00                 | -16.24                | Vertical     |
| 2480.00            | 92.07                   | 27.52                       | 5.47                  | 29.93                    | 95.13             | 114.00                 | -18.87                | Horizontal   |

### Average value:

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 2402.00            | 86.38                   | 27.58                       | 5.39                  | 30.18                    | 89.17             | 94.00                  | -4.83                 | Vertical     |
| 2402.00            | 83.17                   | 27.58                       | 5.39                  | 30.18                    | 85.96             | 94.00                  | -8.04                 | Horizontal   |
| 2441.00            | 84.75                   | 27.55                       | 5.43                  | 30.06                    | 87.67             | 94.00                  | -6.33                 | Vertical     |
| 2441.00            | 82.14                   | 27.55                       | 5.43                  | 30.06                    | 85.06             | 94.00                  | -8.95                 | Horizontal   |
| 2480.00            | 83.43                   | 27.52                       | 5.47                  | 29.93                    | 86.49             | 94.00                  | -7.51                 | Vertical     |
| 2480.00            | 81.08                   | 27.52                       | 5.47                  | 29.93                    | 84.14             | 94.00                  | -9.86                 | Horizontal   |



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### 7.3.2 Spurious emissions

#### ■ Below 1GHz

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 34.88              | 46.45                   | 14.30                       | 0.61                  | 32.06                    | 29.30             | 40.00                  | -10.70                | Vertical     |
| 51.66              | 41.50                   | 15.17                       | 0.79                  | 31.96                    | 25.50             | 40.00                  | -14.50                | Vertical     |
| 88.65              | 47.23                   | 13.47                       | 1.10                  | 31.72                    | 30.08             | 43.50                  | -13.42                | Vertical     |
| 163.76             | 47.66                   | 10.77                       | 1.65                  | 32.03                    | 28.05             | 43.50                  | -15.45                | Vertical     |
| 326.74             | 38.51                   | 15.59                       | 2.50                  | 32.09                    | 24.51             | 46.00                  | -21.49                | Vertical     |
| 627.27             | 36.21                   | 20.55                       | 3.83                  | 31.08                    | 29.51             | 46.00                  | -16.49                | Vertical     |
| 34.76              | 38.57                   | 14.30                       | 0.61                  | 32.06                    | 21.42             | 40.00                  | -18.58                | Horizontal   |
| 64.89              | 40.86                   | 12.71                       | 0.90                  | 31.91                    | 22.56             | 40.00                  | -17.44                | Horizontal   |
| 100.93             | 47.74                   | 15.06                       | 1.20                  | 31.76                    | 32.24             | 43.50                  | -11.26                | Horizontal   |
| 151.60             | 46.42                   | 10.32                       | 1.58                  | 31.99                    | 26.33             | 43.50                  | -17.17                | Horizontal   |
| 286.98             | 40.87                   | 14.81                       | 2.30                  | 32.18                    | 25.80             | 46.00                  | -20.20                | Horizontal   |
| 694.42             | 37.83                   | 20.79                       | 4.07                  | 31.18                    | 31.51             | 46.00                  | -14.49                | Horizontal   |



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### Above 1GHz

Test channel: Lowest channel

#### Peak value:

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 4804.00            | 37.87                   | 31.78                       | 8.60                  | 32.09                    | 46.16             | 74.00                  | -27.84                | Vertical     |
| 7206.00            | 32.20                   | 36.15                       | 11.65                 | 32.00                    | 48.00             | 74.00                  | -26.00                | Vertical     |
| 9608.00            | 31.80                   | 37.95                       | 14.14                 | 31.62                    | 52.27             | 74.00                  | -21.73                | Vertical     |
| 12010.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 14412.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 4804.00            | 42.27                   | 31.78                       | 8.60                  | 32.09                    | 50.56             | 74.00                  | -23.44                | Horizontal   |
| 7206.00            | 34.01                   | 36.15                       | 11.65                 | 32.00                    | 49.81             | 74.00                  | -24.19                | Horizontal   |
| 9608.00            | 31.28                   | 37.95                       | 14.14                 | 31.62                    | 51.75             | 74.00                  | -22.25                | Horizontal   |
| 12010.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Horizontal   |
| 14412.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Horizontal   |

#### Average value:

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 4804.00            | 26.58                   | 31.78                       | 8.60                  | 32.09                    | 34.87             | 54.00                  | -19.13                | Vertical     |
| 7206.00            | 20.83                   | 36.15                       | 11.65                 | 32.00                    | 36.63             | 54.00                  | -17.37                | Vertical     |
| 9608.00            | 19.87                   | 37.95                       | 14.14                 | 31.62                    | 40.34             | 54.00                  | -13.66                | Vertical     |
| 12010.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 14412.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 4804.00            | 30.87                   | 31.78                       | 8.60                  | 32.09                    | 39.16             | 54.00                  | -14.84                | Horizontal   |
| 7206.00            | 23.04                   | 36.15                       | 11.65                 | 32.00                    | 38.84             | 54.00                  | -15.16                | Horizontal   |
| 9608.00            | 19.65                   | 37.95                       | 14.14                 | 31.62                    | 40.12             | 54.00                  | -13.88                | Horizontal   |
| 12010.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Horizontal   |
| 14412.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Horizontal   |

### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. "\*", means this data is the too weak instrument of signal is unable to test.



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Test channel: Middle channel

#### Peak value:

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 4882.00            | 39.71                   | 31.85                       | 8.67                  | 32.12                    | 48.11             | 74.00                  | -25.89                | Vertical     |
| 7323.00            | 33.43                   | 36.37                       | 11.72                 | 31.89                    | 49.63             | 74.00                  | -24.37                | Vertical     |
| 9764.00            | 32.89                   | 38.35                       | 14.25                 | 31.62                    | 53.87             | 74.00                  | -20.13                | Vertical     |
| 12205.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 14646.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 4882.00            | 44.49                   | 31.85                       | 8.67                  | 32.12                    | 52.89             | 74.00                  | -21.11                | Horizontal   |
| 7323.00            | 35.39                   | 36.37                       | 11.72                 | 31.89                    | 51.59             | 74.00                  | -22.41                | Horizontal   |
| 9764.00            | 32.54                   | 38.35                       | 14.25                 | 31.62                    | 53.52             | 74.00                  | -20.48                | Horizontal   |
| 12205.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Horizontal   |
| 14646.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Horizontal   |

#### Average value:

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 4882.00            | 28.10                   | 31.85                       | 8.67                  | 32.12                    | 36.50             | 54.00                  | -17.50                | Vertical     |
| 7323.00            | 21.86                   | 36.37                       | 11.72                 | 31.89                    | 38.06             | 54.00                  | -15.94                | Vertical     |
| 9764.00            | 20.78                   | 38.35                       | 14.25                 | 31.62                    | 41.76             | 54.00                  | -12.24                | Vertical     |
| 12205.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 14646.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 4882.00            | 32.59                   | 31.85                       | 8.67                  | 32.12                    | 40.99             | 54.00                  | -13.01                | Horizontal   |
| 7323.00            | 24.19                   | 36.37                       | 11.72                 | 31.89                    | 40.39             | 54.00                  | -13.61                | Horizontal   |
| 9764.00            | 20.71                   | 38.35                       | 14.25                 | 31.62                    | 41.69             | 54.00                  | -12.31                | Horizontal   |
| 12205.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Horizontal   |
| 14646.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Horizontal   |

### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. "\*", means this data is the too weak instrument of signal is unable to test.



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### Test channel: Highest channel

#### Peak value:

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 4960.00            | 38.23                   | 31.93                       | 8.73                  | 32.16                    | 46.73             | 74.00                  | -27.27                | Vertical     |
| 7440.00            | 32.44                   | 36.59                       | 11.79                 | 31.78                    | 49.04             | 74.00                  | -24.96                | Vertical     |
| 9920.00            | 32.01                   | 38.81                       | 14.38                 | 31.88                    | 53.32             | 74.00                  | -20.68                | Vertical     |
| 12400.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 14880.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 4960.00            | 42.70                   | 31.93                       | 8.73                  | 32.16                    | 51.20             | 74.00                  | -22.80                | Horizontal   |
| 7440.00            | 34.28                   | 36.59                       | 11.79                 | 31.78                    | 50.88             | 74.00                  | -23.12                | Horizontal   |
| 9920.00            | 31.52                   | 38.81                       | 14.38                 | 31.88                    | 52.83             | 74.00                  | -21.17                | Horizontal   |
| 12400.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Horizontal   |
| 14880.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Horizontal   |

### Average value:

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 4960.00            | 26.98                   | 31.93                       | 8.73                  | 32.16                    | 35.48             | 54.00                  | -18.52                | Vertical     |
| 7440.00            | 21.10                   | 36.59                       | 11.79                 | 31.78                    | 37.70             | 54.00                  | -16.30                | Vertical     |
| 9920.00            | 20.11                   | 38.81                       | 14.38                 | 31.88                    | 41.42             | 54.00                  | -12.58                | Vertical     |
| 12400.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 14880.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 4960.00            | 31.33                   | 31.93                       | 8.73                  | 32.16                    | 39.83             | 54.00                  | -14.17                | Horizontal   |
| 7440.00            | 23.35                   | 36.59                       | 11.79                 | 31.78                    | 39.95             | 54.00                  | -14.05                | Horizontal   |
| 9920.00            | 19.93                   | 38.81                       | 14.38                 | 31.88                    | 41.24             | 54.00                  | -12.76                | Horizontal   |
| 12400.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Horizontal   |
| 14880.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Horizontal   |

### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. "\*", means this data is the too weak instrument of signal is unable to test.



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Horizontal

Horizontal

Vertical

Vertical

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### 7.3.3 Bandedge emissions

36.32

45.79

37.30

47.89

27.59

27.58

27.59

27.58

5.38

5.39

5.38

5.39

All of the restriction bands were tested, and only the data of worst case was exhibited.

| Test channel:         Lowest channel           Peak value:           Frequency (MHz)         Read Level (dBuV)         Antenna Factor (dB)         Cable Loss (dB)         Preamp Factor (dB)         Level (dBuV/m)         Limit Line (dBuV/m)         Over Limit (dB)         Polarization (dB)           2390.00         47.40         27.59         5.38         30.18         50.19         74.00         -23.81         Horizontal           2400.00         59.77         27.58         5.39         30.18         62.56         74.00         -11.44         Horizontal           2390.00         48.36         27.59         5.38         30.18         51.15         74.00         -22.85         Vertical           2400.00         62.07         27.58         5.39         30.18         64.86         74.00         -9.14         Vertical           Average value:           Frequency (MHz)         Read Level (dBuV)         Antenna Factor (dB)         Preamp Factor (dB)         Level (dBuV/m)         Limit Line (dBuV/m)         Polarization (dB) | ······································ |                              |        |      |        |       |       |        |              |  |
|--|--|------------------------------|--------|------|--------|-------|-------|--------|--------------|--|
| Frequency (MHz)         Read Level (dBuV)         Antenna Factor (dB/m)         Cable Loss (dB)         Preamp Factor (dB)         Level (dBuV/m)         Limit Line (dBuV/m)         Over Limit (dB)         Polarization           2390.00         47.40         27.59         5.38         30.18         50.19         74.00         -23.81         Horizontal           2400.00         59.77         27.58         5.39         30.18         62.56         74.00         -11.44         Horizontal           2390.00         48.36         27.59         5.38         30.18         51.15         74.00         -22.85         Vertical           2400.00         62.07         27.58         5.39         30.18         64.86         74.00         -9.14         Vertical           Average value:           Frequency (MHz)         Read Level         Antenna Factor         Cable Loss         Preamp Factor         Level (dBuV/m)         Limit Line (dBuV/m)         Polarization  | Test channe                            | Test channel: Lowest channel |        |      |        |       |       |        |              |  |
| Frequency (MHz)  | Peak value                             | Peak value:                  |        |      |        |       |       |        |              |  |
| 2400.00         59.77         27.58         5.39         30.18         62.56         74.00         -11.44         Horizontal           2390.00         48.36         27.59         5.38         30.18         51.15         74.00         -22.85         Vertical           2400.00         62.07         27.58         5.39         30.18         64.86         74.00         -9.14         Vertical           Average value:           Frequency (MHz)         Read Level Factor         Cable Loss Factor         Level (dBuV/m) (dBuV/m)         Limit Line (dBuV/m)         Over Limit Polarization   |  | Level                        | Factor | Loss | Factor |       |       | Limit  | Polarization |  |
| 2390.00         48.36         27.59         5.38         30.18         51.15         74.00         -22.85         Vertical           2400.00         62.07         27.58         5.39         30.18         64.86         74.00         -9.14         Vertical           Average value:           Frequency (MHz)         Read Level Factor         Antenna Loss Factor Loss Factor         Level (dRuV/m) (dRuV/m) (dRuV/m)         Limit Line Limit Line (dRuV/m) (dRuV/m)         Polarization  | 2390.00                                | 47.40                        | 27.59  | 5.38 | 30.18  | 50.19 | 74.00 | -23.81 | Horizontal   |  |
| 2400.00         62.07         27.58         5.39         30.18         64.86         74.00         -9.14         Vertical           Average value:           Frequency (MHz)         Read Level Factor         Antenna Cable Loss Factor         Preamp Factor (dBuV/m) (dBuV/m) (dBuV/m)         Limit Line Limit Folarization         Polarization   | 2400.00                                | 59.77                        | 27.58  | 5.39 | 30.18  | 62.56 | 74.00 | -11.44 | Horizontal   |  |
| Average value:    Frequency  | 2390.00                                | 48.36                        | 27.59  | 5.38 | 30.18  | 51.15 | 74.00 | -22.85 | Vertical     |  |
| Frequency Level Factor Loss Factor (dRu)/(m) Cover Limit Line Polarization   | 2400.00                                | 62.07                        | 27.58  | 5.39 | 30.18  | 64.86 | 74.00 | -9.14  | Vertical     |  |
| Frequency Level Factor Loss Factor Level Limit Line Limit Polarization   | Average value:                         |                              |        |      |        |       |       |        |              |  |
|  |  | Level                        | Factor | Loss | Factor |       |       | Limit  | Polarization |  |

| Test channel: | Highest channel |
|---------------|-----------------|

30.18

30.18

30.18

30.18

39.11

48.58

40.09

50.68

54.00

54.00

54.00

54.00

-14.89

-5.42

-13.91

-3.32

#### Peak value:

2390.00

2400.00

2390.00

2400.00

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 2483.50            | 49.32                   | 27.53                       | 5.47                  | 29.93                    | 52.39             | 74.00                  | -21.61                | Horizontal   |
| 2500.00            | 47.66                   | 27.55                       | 5.49                  | 29.93                    | 50.77             | 74.00                  | -23.23                | Horizontal   |
| 2483.50            | 50.61                   | 27.53                       | 5.47                  | 29.93                    | 53.68             | 74.00                  | -20.32                | Vertical     |
| 2500.00            | 48.83                   | 27.55                       | 5.49                  | 29.93                    | 51.94             | 74.00                  | -22.06                | Vertical     |

### Average value:

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 2483.50            | 39.10                   | 27.53                       | 5.47                  | 29.93                    | 42.17             | 54.00                  | -11.83                | Horizontal   |
| 2500.00            | 36.70                   | 27.55                       | 5.49                  | 29.93                    | 39.81             | 54.00                  | -14.19                | Horizontal   |
| 2483.50            | 40.98                   | 27.53                       | 5.47                  | 29.93                    | 44.05             | 54.00                  | -9.95                 | Vertical     |
| 2500.00            | 37.46                   | 27.55                       | 5.49                  | 29.93                    | 40.57             | 54.00                  | -13.43                | Vertical     |

#### Remark:

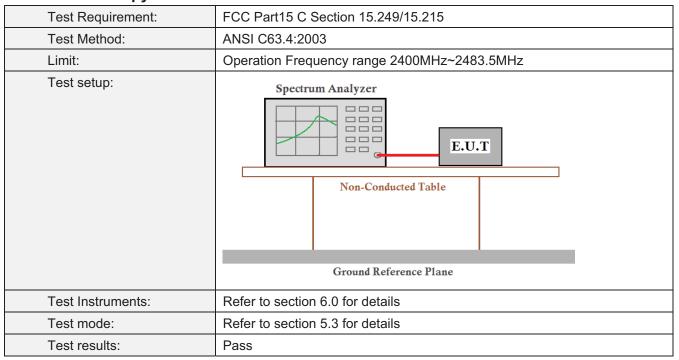
1. Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



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### 7.4 20dB Occupy Bandwidth



### **Measurement Data**

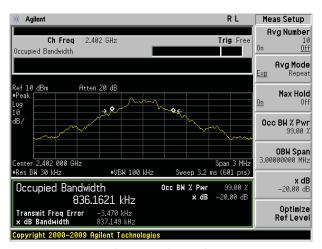
Worst case GFSK modulation

| Test channel | 20dB bandwidth(kHz) | Result |
|--------------|---------------------|--------|
| Lowest       | 837.149             | Pass   |
| Middle       | 833.764             | Pass   |
| Highest      | 836.096             | Pass   |

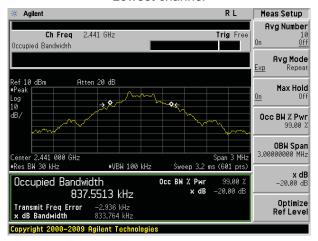
Test plot as follows:



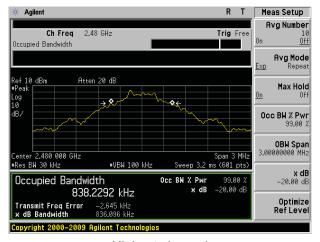
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#### Lowest channel



### Middle channel



Highest channel

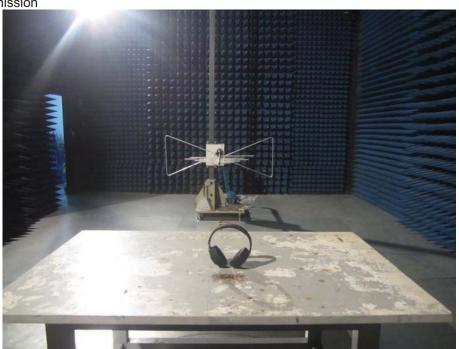


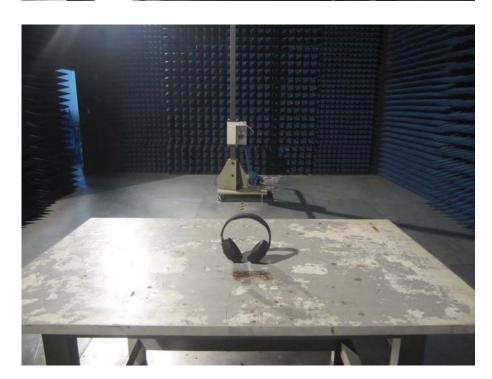
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## 8 Test Setup Photo

Radiated Emission







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## 9 EUT Constructional Details







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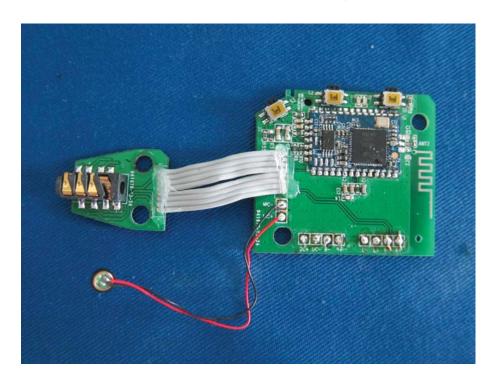


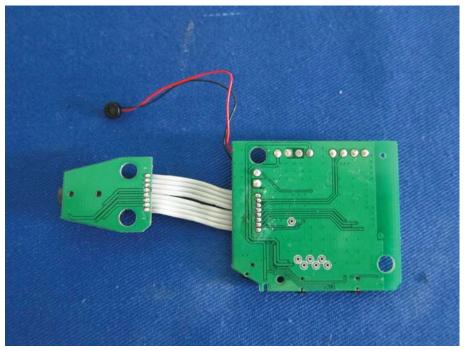




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