

# Global United Technology Services Co., Ltd.

Report No.: GTS201610000243E01

# FCC REPORT

Applicant: SHENZHEN COMISO DIGITAL TECHNOLOGY LIMITED

Address of Applicant: 12/F,XinLong Technology Park, SongGang Town, BaoAn

District, ShenZhen City, China

**Equipment Under Test (EUT)** 

Product Name: Bluetooth Speaker

Model No.: M20, Comiso M20

FCC ID: 2AEZG-M20

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.249:2015

Date of sample receipt: October 21, 2016

Date of Test: October 22-25, 2016

**Date of report issued:** October 31, 2016

Test Result: PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo
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 GTS 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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## 2 Version

| Version No. | Date             | Description |
|-------------|------------------|-------------|
| 00          | October 31, 2016 | Original    |
|             |                  |             |
|             |                  |             |
|             |                  |             |
|             |                  |             |

| Prepared By: | Tigor Cha        | Date: | October 31, 2016 |
|--------------|------------------|-------|------------------|
|              | Project Engineer |       |                  |
| Check By:    | Andy wa          | Date: | October 31, 2016 |
|              | Reviewer         |       |                  |

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## **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.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013.

## 4.1 Measurement Uncertainty

| Frequency Range | Measurement Uncertainty                           | Notes        |
|-----------------|---|--------------|
| 9kHz ~ 30MHz    | ± 4.34dB  | (1)          |
| 30MHz ~ 1000MHz | ± 4.24dB  | (1)          |
| 1GHz ~ 26.5GHz  | ± 4.68dB  | (1)          |
| 0.15MHz ~ 30MHz | ± 3.45dB  | (1)          |
|                 | 9kHz ~ 30MHz<br>30MHz ~ 1000MHz<br>1GHz ~ 26.5GHz | 9kHz ~ 30MHz |



## **5** General Information

### 5.1 Client Information

| Applicant:               | SHENZHEN COMISO DIGITAL TECHNOLOGY LIMITED  |  |  |  |
|--------------------------|---|--|--|--|
| Address of Applicant:    | 12/F,XinLong Technology Park, SongGang Town, BaoAn Dist<br>ShenZhen City, China   |  |  |  |
| Manufacturer:            | SHENZHEN COMISO DIGITAL TECHNOLOGY LIMITED  |  |  |  |
| Address of Manufacturer: | 12/F,XinLong Technology Park, SongGang Town, BaoAn District, ShenZhen City, China |  |  |  |

## 5.2 General Description of EUT

| •                                    |  |  |  |  |
|--------------------------------------|--|--|--|--|
| Product Name:                        | Bluetooth Speaker  |  |  |  |
| Model No.:                           | M20, Comiso M20  |  |  |  |
| Test Model:                          | M20  |  |  |  |
| Remark: All above models are ide     | ntical in the same PCB layout, interior structure and electrical circuits. |  |  |  |
| The only difference is the model nan | ne for commercial purpose.   |  |  |  |
| Operation Frequency: 2402MHz~2480MHz |  |  |  |  |
| Channel numbers:                     | 79   |  |  |  |
| Channel separation:                  | 1MHz   |  |  |  |
| Modulation type:                     | GFSK, Pi/4QPSK, 8DPSK  |  |  |  |
| Antenna Type:                        | PCB antenna  |  |  |  |
| Antenna gain:                        | 0dBi   |  |  |  |
| Power supply:                        | DC 7.4V 2600mAh Li-ion Battery   |  |  |  |
|                                      | Or DC 5V by external Adapter   |  |  |  |



| 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   |
|                                     |           |         |           | :       |           |         |           |
| 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 EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, 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.

#### 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                   | Х     | Υ     | Z     |
|------------------------|-------|-------|-------|
| Field Strength(dBuV/m) | 90.68 | 92.44 | 91.02 |

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

The EUT was tested in GFSK,  $\pi/4$ QPSK, 8DPSK modulation, and found the GFSK modulation is the worst case.

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

| Manufacturer          | Description | Model | Serial Number |
|-----------------------|-------------|-------|---------------|
| Emerson Network Power | USB Charger | A1299 | N/A           |

#### 5.5 Test Facility

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

#### • 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 22, 2016.

#### • 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, August 15, 2016

#### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

#### 5.7 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

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## 6 Test Instruments list

| Radi | 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 | 9.0(L)*6.0(W)* 6.0(H) | GTS250           | July. 03 2015          | July. 02 2020              |  |  |
| 2    | Control Room                            | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251           | N/A                    | N/A                        |  |  |
| 3    | ESU EMI Test Receiver                   | R&S              | ESU26                 | GTS203           | June. 29 2016          | June. 28 2017              |  |  |
| 4    | Loop Antenna                            | Zhinan           | ZN30900A              | GTS534           | June. 29 2016          | June. 28 2017              |  |  |
| 5    | BiConiLog Antenna                       | SCHWARZBECK      | VULB9163              | GTS214           | June. 29 2016          | June. 28 2017              |  |  |
| 6    | Double-ridged horn antenna              | SCHWARZBECK      | 9120D                 | GTS208           | June. 29 2016          | June. 28 2017              |  |  |
| 7    | Horn Antenna                            | ETS-LINDGREN     | 3160-09               | GTS218           | June. 29 2016          | June. 28 2017              |  |  |
| 8    | RF Amplifier                            | HP               | 8347A                 | GTS204           | June. 29 2016          | June. 28 2017              |  |  |
| 9    | RF Amplifier                            | HP               | 8349B                 | GTS206           | June. 29 2016          | June. 28 2017              |  |  |
| 10   | Broadband<br>Preamplifier               | SCHWARZBECK      | BBV9718               | GTS535           | June. 29 2016          | June. 28 2017              |  |  |
| 11   | PSA Series Spectrum<br>Analyzer         | Agilent          | E4440A                | GTS536           | June. 29 2016          | June. 28 2017              |  |  |
| 12   | Universal Radio<br>Communication tester | ROHDE&SCHWARZ    | CMU 200               | GTS538           | June. 29 2016          | June. 28 2017              |  |  |
| 13   | EMI Test Software                       | AUDIX            | E3                    | N/A              | N/A                    | N/A                        |  |  |
| 14   | Coaxial Cable                           | GTS              | N/A                   | GTS210           | June. 29 2016          | June. 28 2017              |  |  |
| 15   | Coaxial Cable                           | GTS              | N/A                   | GTS211           | June. 29 2016          | June. 28 2017              |  |  |
| 16   | Coaxial Cable                           | GTS              | N/A                   | GTS210           | June. 29 2016          | June. 28 2017              |  |  |

| Conc | Conducted Emission:      |                          |                      |                  |                        |                            |  |  |  |  |  |  |
|------|--------------------------|--------------------------|----------------------|------------------|------------------------|----------------------------|--|--|--|--|--|--|
| Item | Test Equipment           | t Manufacturer Model No. |                      | Inventory<br>No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |  |  |  |  |  |  |
| 1    | Shielding Room           | ZhongYu Electron         | 7.3(L)x3.1(W)x2.9(H) | GTS252           | May.16 2014            | May.15 2019                |  |  |  |  |  |  |
| 2    | EMI Test Receiver        | R&S                      | ESCI 7               | GTS552           | June. 29 2016          | June. 28 2017              |  |  |  |  |  |  |
| 3    | Coaxial Switch           | ANRITSU CORP             | MP59B                | GTS225           | June. 29 2016          | June. 28 2017              |  |  |  |  |  |  |
| 4    | Artificial Mains Network | SCHWARZBECK<br>MESS      | NSLK8127             | GTS226           | June. 29 2016          | June. 28 2017              |  |  |  |  |  |  |
| 5    | Coaxial Cable            | GTS                      | N/A                  | GTS227           | N/A                    | N/A                        |  |  |  |  |  |  |
| 6    | EMI Test Software        | AUDIX                    | E3                   | N/A              | N/A                    | N/A                        |  |  |  |  |  |  |
| 7    | Thermo meter             | KTJ                      | TA328                | GTS233           | June. 29 2016          | June. 28 2017              |  |  |  |  |  |  |

| Gen  | General used equipment:       |           |           |                  |                        |                            |  |  |  |  |  |  |
|------|-------------------------------|-----------|-----------|------------------|------------------------|----------------------------|--|--|--|--|--|--|
| Item | m 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           | June. 29 2016          | June. 28 2017              |  |  |  |  |  |  |

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### 7 Test results and Measurement Data

## 7.1 Antenna requirement

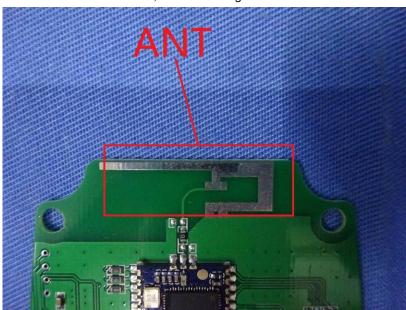
Standard requirement: FCC Part15 C Section 15.203

#### 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.

#### **EUT Antenna:**

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





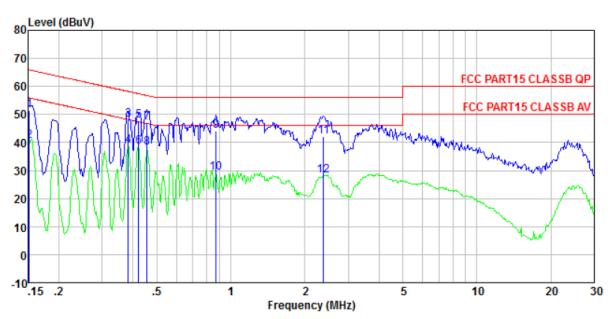
## 7.2 Conducted Emissions

| Test Requirement:     | FCC Part15 C Section 15.207  |   |                                 |  |  |  |  |
|-----------------------|--|---|---------------------------------|--|--|--|--|
| Test Method:          | ANSI C63.10:2013   |   |                                 |  |  |  |  |
| Test Frequency Range: | 150KHz to 30MHz  |   |                                 |  |  |  |  |
| Class / Severity:     | Class B  |   |                                 |  |  |  |  |
| Receiver setup:       | RBW=9KHz, VBW=30KHz, St  | weep time=auto                                      |                                 |  |  |  |  |
| Limit:                | - 441)   | Limit (d  | lBuV)                           |  |  |  |  |
|                       | 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  Emil Receiver  Remark  E.U.T Equipment Under Test  L/SN: Line Impedence Stabilization Network Test table height=0.8m   |   |                                 |  |  |  |  |
| Test procedure:       | The EUT and simulators are line impedance stabilization 500hm/50uH coupling impedance.      The residue and decisions are linear areas.  | n network (L.I.S.N.). The<br>edance for the measuri | nis provides a<br>ng equipment. |  |  |  |  |
|                       | 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).                                     |   |                                 |  |  |  |  |
|                       | 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 C63.10: 2013 on conducted measurement. |   |                                 |  |  |  |  |
| Test Instruments:     | Refer to section 6.0 for details   | ;   |                                 |  |  |  |  |
| Test mode:            | Refer to section 5.3 for details   |   |                                 |  |  |  |  |
| Test results:         | Pass   |   |                                 |  |  |  |  |



#### Measurement data

Line:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LINE

Job No. Test mode : 0243

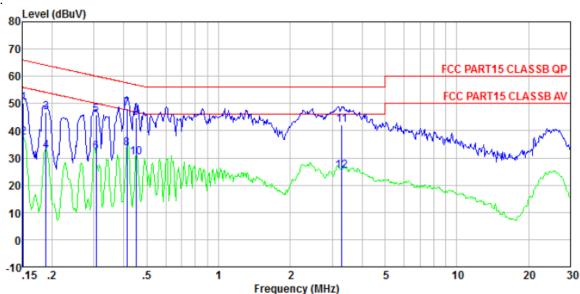
: Bluetooth3.0 mode

Test Engineer: Boy

| 1000                                      | Freq   | Read   | Cable<br>Loss  | LISN<br>Factor   | Leve1  | Limit<br>Line  | Over<br>Limit   | Remark   |   |
|---|--|--|--|--|--|--|---|--|---|
|   | MHz  | dBu∀   | dB   | dB   | dBuV   | -dBuV  | dB  |  | - |
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9 | 0. 152<br>0. 152<br>0. 383<br>0. 383<br>0. 421<br>0. 421<br>0. 456<br>0. 456 | 50. 81<br>40. 02<br>47. 69<br>38. 22<br>47. 33<br>37. 85<br>46. 69<br>37. 71<br>43. 70 | 0. 12<br>0. 12<br>0. 10<br>0. 10<br>0. 11<br>0. 11<br>0. 11<br>0. 13 | 0. 42<br>0. 42<br>0. 42<br>0. 42<br>0. 41<br>0. 41<br>0. 40<br>0. 26 | 51. 35<br>40. 56<br>48. 21<br>38. 74<br>47. 85<br>38. 37<br>47. 20<br>38. 22<br>44. 09 | 55. 91<br>58. 21<br>48. 21<br>57. 42<br>47. 42<br>56. 76<br>46. 76<br>56. 00 | -10.00<br>-9.47<br>-9.57<br>-9.05<br>-9.56<br>-8.54<br>-11.91 | Average<br>QP<br>Average<br>QP<br>Average<br>QP<br>Average<br>QP |   |
| 10<br>11<br>12                            | 0. 871<br>2. 384<br>2. 384   | 28. 91<br>41. 77<br>27. 75   | 0. 13<br>0. 15<br>0. 15  | 0. 26<br>0. 20<br>0. 20  | 29.30<br>42.12<br>28.10  | 56.00  | -13.88  | Average<br>QP<br>Average   |   |



#### Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP NEUTRAL

Job No. : 0243

Test mode : Bluetooth3.0 mode

Test Engineer: Boy

| MHz dBuV dB dB dBuV dBuV dB dB dBuV dBuV dB   | Remark   |
|---|--|
| 2 0.152 36.81 0.41 0.12 37.34 55.91 -18.57 Average 3 0.188 46.34 0.41 0.13 46.88 64.11 -17.23 QP  |  |
| 6 0.307 31.60 0.42 0.10 32.12 50.06 -17.94 Average 7 0.413 47.59 0.39 0.11 48.09 57.59 -9.50 QP 8 0.413 33.07 0.39 0.11 33.57 47.59 -14.02 Average  | Average<br>QP<br>Average<br>QP<br>Average<br>QP<br>Average |
| 9 0.452 44.45 0.37 0.11 44.93 56.85 -11.92 QP<br>10 0.452 29.77 0.37 0.11 30.25 46.85 -16.60 Average<br>11 3.293 41.69 0.21 0.15 42.05 56.00 -13.95 QP<br>12 3.293 24.96 0.21 0.15 25.32 46.00 -20.68 Average | Average<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

| 1.3 | Raulateu Ellission Mi  | Etilou   |                               |              |                              |                                    |  |  |
|-----|------------------------|--|-------------------------------|--------------|------------------------------|------------------------------------|--|--|
|     | Test Requirement:      | FCC Part15 C Section 15.209  |                               |              |                              |                                    |  |  |
|     | Test Method:           | ANSI C63.10:20   | 013                           |              |                              |                                    |  |  |
|     | Test Frequency Range:  | 30MHz to 25GH  | łz                            |              |                              |                                    |  |  |
|     | Test site:             | Measurement D  | Distance: 3m                  |              |                              |                                    |  |  |
|     | Receiver setup:        | Frequency  | Detector                      | RBW          | VBW                          | Remark                             |  |  |
|     |                        | 30MHz-<br>1GHz   | Quasi-pea                     | k 120KHz     | 300KHz                       | Quasi-peak Value                   |  |  |
|     |                        | Above 1GHz   | Peak                          | 1MHz         | 3MHz                         | Peak Value                         |  |  |
|     |                        | Above IGHZ   | Peak                          | 1MHz         | 10Hz                         | Average Value                      |  |  |
|     | Limit:                 | Freque   | ency                          | Limit (dBuV  | /m @3m)                      | Remark                             |  |  |
|     | (Field strength of the | 2400MHz-24   | 183.5MHz                      | 94.0         |                              | Average Value                      |  |  |
|     | fundamental signal)    |  |                               | 114.0        | 00                           | Peak Value                         |  |  |
|     | Limit:                 | Freque   |                               | Limit (dBuV  |                              | Remark                             |  |  |
|     | (Spurious Emissions)   |  | 30MHz-88MHz                   |              | 0                            | Quasi-peak Value                   |  |  |
|     |                        |  | 88MHz-216MHz<br>216MHz-960MHz |              | 0                            | Quasi-peak Value  Quasi-peak Value |  |  |
|     |                        | 960MHz-  |                               | 46.0<br>54.0 |                              | Quasi-peak Value                   |  |  |
|     |                        |  |                               | 54.0         |                              | Average Value                      |  |  |
|     |                        | Above 1  | IGHZ                          | 74.0         |                              | Peak Value                         |  |  |
|     | Limit:<br>(band edge)  | Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation. |                               |              |                              |                                    |  |  |
|     | Test setup:            | Below 1GHz   | EUT+                          |              | Antenna-  Antenna-  Preampli | fier-                              |  |  |
|     |                        | Above 1GHz   |                               |              |                              |                                    |  |  |

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Report No.: GTS201610000243E01 < 1m ... 4m > EUT Tum Table Preamplifier+ Receiver+ Test Procedure: The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 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. 5. 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            | 92.92                   | 27.58                       | 5.39                  | 34.01                    | 91.88             | 114.00                 | -22.12                | Vertical     |
| 2402.00            | 91.78                   | 27.58                       | 5.39                  | 34.01                    | 90.74             | 114.00                 | -23.26                | Horizontal   |
| 2441.00            | 93.28                   | 27.48                       | 5.43                  | 33.96                    | 92.23             | 114.00                 | -21.77                | Vertical     |
| 2441.00            | 91.29                   | 27.48                       | 5.43                  | 33.96                    | 90.24             | 114.00                 | -23.76                | Horizontal   |
| 2480.00            | 93.37                   | 27.52                       | 5.47                  | 33.92                    | 92.44             | 114.00                 | -21.56                | Vertical     |
| 2480.00            | 91.41                   | 27.52                       | 5.47                  | 33.92                    | 90.48             | 114.00                 | -23.52                | 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            | 83.42                   | 27.58                       | 5.39                  | 34.01                    | 82.38             | 94.00                  | -11.62                | Vertical     |
| 2402.00            | 81.69                   | 27.58                       | 5.39                  | 34.01                    | 80.65             | 94.00                  | -13.35                | Horizontal   |
| 2441.00            | 83.05                   | 27.48                       | 5.43                  | 33.96                    | 82.00             | 94.00                  | -12.00                | Vertical     |
| 2441.00            | 81.06                   | 27.48                       | 5.43                  | 33.96                    | 80.01             | 94.00                  | -13.99                | Horizontal   |
| 2480.00            | 82.57                   | 27.52                       | 5.47                  | 33.92                    | 81.64             | 94.00                  | -12.36                | Vertical     |
| 2480.00            | 80.33                   | 27.52                       | 5.47                  | 33.92                    | 79.40             | 94.00                  | -14.60                | Horizontal   |



## 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 |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 87.73              | 50.06                   | 13.18                       | 1.09                  | 29.76                    | 34.57             | 40.00                  | -5.43                 | Vertical     |
| 114.11             | 51.62                   | 13.52                       | 1.31                  | 29.60                    | 36.85             | 43.50                  | -6.65                 | Vertical     |
| 123.27             | 55.31                   | 12.00                       | 1.38                  | 29.55                    | 41.14             | 43.50                  | -4.36                 | Vertical     |
| 178.76             | 55.89                   | 11.62                       | 1.73                  | 29.28                    | 40.96             | 43.50                  | -3.54                 | Vertical     |
| 202.10             | 55.06                   | 12.64                       | 1.85                  | 29.22                    | 40.33             | 43.50                  | -3.17                 | Vertical     |
| 213.02             | 54.87                   | 12.97                       | 1.92                  | 29.32                    | 40.44             | 43.50                  | -3.06                 | Vertical     |
| 85.60              | 43.41                   | 12.60                       | 1.07                  | 29.77                    | 27.31             | 40.00                  | -12.69                | Horizontal   |
| 115.32             | 52.13                   | 13.31                       | 1.32                  | 29.60                    | 37.16             | 43.50                  | -6.34                 | Horizontal   |
| 129.92             | 53.34                   | 10.93                       | 1.44                  | 29.51                    | 36.20             | 43.50                  | -7.30                 | Horizontal   |
| 143.83             | 56.75                   | 10.22                       | 1.53                  | 29.44                    | 39.06             | 43.50                  | -4.44                 | Horizontal   |
| 182.56             | 53.51                   | 11.92                       | 1.75                  | 29.27                    | 37.91             | 43.50                  | -5.59                 | Horizontal   |
| 213.02             | 54.82                   | 12.97                       | 1.92                  | 29.32                    | 40.39             | 43.50                  | -3.11                 | Horizontal   |



#### 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            | 37.99                   | 31.78                       | 8.60                  | 32.09                    | 46.28             | 74.00                  | -27.72                | Vertical     |
| 7206.00            | 32.29                   | 36.15                       | 11.65                 | 32.00                    | 48.09             | 74.00                  | -25.91                | Vertical     |
| 9608.00            | 31.87                   | 37.95                       | 14.14                 | 31.62                    | 52.34             | 74.00                  | -21.66                | Vertical     |
| 12010.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 14412.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 4804.00            | 42.42                   | 31.78                       | 8.60                  | 32.09                    | 50.71             | 74.00                  | -23.29                | Horizontal   |
| 7206.00            | 34.10                   | 36.15                       | 11.65                 | 32.00                    | 49.90             | 74.00                  | -24.10                | Horizontal   |
| 9608.00            | 31.36                   | 37.95                       | 14.14                 | 31.62                    | 51.83             | 74.00                  | -22.17                | 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            | 26.68                   | 31.78                       | 8.60                  | 32.09                    | 34.97             | 54.00                  | -19.03                | Vertical     |
| 7206.00            | 20.89                   | 36.15                       | 11.65                 | 32.00                    | 36.69             | 54.00                  | -17.31                | Vertical     |
| 9608.00            | 19.93                   | 37.95                       | 14.14                 | 31.62                    | 40.40             | 54.00                  | -13.60                | Vertical     |
| 12010.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 14412.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 4804.00            | 30.98                   | 31.78                       | 8.60                  | 32.09                    | 39.27             | 54.00                  | -14.73                | Horizontal   |
| 7206.00            | 23.11                   | 36.15                       | 11.65                 | 32.00                    | 38.91             | 54.00                  | -15.09                | Horizontal   |
| 9608.00            | 19.71                   | 37.95                       | 14.14                 | 31.62                    | 40.18             | 54.00                  | -13.82                | 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.



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            | 38.26                   | 31.85                       | 8.67                  | 32.12                    | 46.66             | 74.00                  | -27.34                | Vertical     |
| 7323.00            | 32.47                   | 36.37                       | 11.72                 | 31.89                    | 48.67             | 74.00                  | -25.33                | Vertical     |
| 9764.00            | 32.03                   | 38.35                       | 14.25                 | 31.62                    | 53.01             | 74.00                  | -20.99                | Vertical     |
| 12205.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 14646.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 4882.00            | 42.74                   | 31.85                       | 8.67                  | 32.12                    | 51.14             | 74.00                  | -22.86                | Horizontal   |
| 7323.00            | 34.31                   | 36.37                       | 11.72                 | 31.89                    | 50.51             | 74.00                  | -23.49                | Horizontal   |
| 9764.00            | 31.55                   | 38.35                       | 14.25                 | 31.62                    | 52.53             | 74.00                  | -21.47                | 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            | 26.91                   | 31.85                       | 8.67                  | 32.12                    | 35.31             | 54.00                  | -18.69                | Vertical     |
| 7323.00            | 21.06                   | 36.37                       | 11.72                 | 31.89                    | 37.26             | 54.00                  | -16.74                | Vertical     |
| 9764.00            | 20.07                   | 38.35                       | 14.25                 | 31.62                    | 41.05             | 54.00                  | -12.95                | Vertical     |
| 12205.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 14646.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 4882.00            | 31.25                   | 31.85                       | 8.67                  | 32.12                    | 39.65             | 54.00                  | -14.35                | Horizontal   |
| 7323.00            | 23.29                   | 36.37                       | 11.72                 | 31.89                    | 39.49             | 54.00                  | -14.51                | Horizontal   |
| 9764.00            | 19.88                   | 38.35                       | 14.25                 | 31.62                    | 40.86             | 54.00                  | -13.14                | 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.



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            | 37.85                   | 31.93                       | 8.73                  | 32.16                    | 46.35             | 74.00                  | -27.65                | Vertical     |
| 7440.00            | 32.19                   | 36.59                       | 11.79                 | 31.78                    | 48.79             | 74.00                  | -25.21                | Vertical     |
| 9920.00            | 31.79                   | 38.81                       | 14.38                 | 31.88                    | 53.10             | 74.00                  | -20.90                | Vertical     |
| 12400.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 14880.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 4960.00            | 42.25                   | 31.93                       | 8.73                  | 32.16                    | 50.75             | 74.00                  | -23.25                | Horizontal   |
| 7440.00            | 33.99                   | 36.59                       | 11.79                 | 31.78                    | 50.59             | 74.00                  | -23.41                | Horizontal   |
| 9920.00            | 31.26                   | 38.81                       | 14.38                 | 31.88                    | 52.57             | 74.00                  | -21.43                | 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            | 26.67                   | 31.93                       | 8.73                  | 32.16                    | 35.17             | 54.00                  | -18.83                | Vertical     |
| 7440.00            | 20.89                   | 36.59                       | 11.79                 | 31.78                    | 37.49             | 54.00                  | -16.51                | Vertical     |
| 9920.00            | 19.92                   | 38.81                       | 14.38                 | 31.88                    | 41.23             | 54.00                  | -12.77                | Vertical     |
| 12400.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 14880.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 4960.00            | 30.97                   | 31.93                       | 8.73                  | 32.16                    | 39.47             | 54.00                  | -14.53                | Horizontal   |
| 7440.00            | 23.10                   | 36.59                       | 11.79                 | 31.78                    | 39.70             | 54.00                  | -14.30                | Horizontal   |
| 9920.00            | 19.71                   | 38.81                       | 14.38                 | 31.88                    | 41.02             | 54.00                  | -12.98                | 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.



## 7.3.3 Bandedge emissions

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

| 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) | Pream <sub>l</sub><br>Factor<br>(dB) |                | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
| 2390.00            | 44.21                   | 27.59                       | 5.38                  | 30.18                                |                | 47.00             | 74.00                  | -27.00                | Horizontal   |
| 2400.00            | 61.19                   | 27.58                       | 5.39                  | 30.18                                |                | 63.98             | 74.00                  | -10.02                | Horizontal   |
| 2390.00            | 44.88                   | 27.59                       | 5.38                  | 30.18                                |                | 47.67             | 74.00                  | -26.33                | Vertical     |
| 2400.00            | 63.37                   | 27.58                       | 5.39                  | 30.18                                |                | 66.16             | 74.00                  | -7.84                 | Vertical     |
| Average val        | ue:                     |                             |                       |                                      | •              | •                 |                        |                       |              |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Pream <sub>l</sub><br>Factor<br>(dB) |                | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
| 2390.00            | 34.46                   | 27.59                       | 5.38                  | 30.18                                |                | 37.25             | 54.00                  | -16.75                | Horizontal   |
| 2400.00            | 45.77                   | 27.58                       | 5.39                  | 30.18                                |                | 48.56             | 54.00                  | -5.44                 | Horizontal   |
| 2390.00            | 34.50                   | 27.59                       | 5.38                  | 30.18                                |                | 37.29             | 54.00                  | -16.71                | Vertical     |
| 2400.00            | 47.55                   | 27.58                       | 5.39                  | 30.18                                |                | 50.34             | 54.00                  | -3.66                 | Vertical     |

| 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 |
| 2483.50            | 46.47                   | 27.53                       | 5.47                  | 29.93                    | 49.54             | 74.00                  | -24.46                | Horizontal   |
| 2500.00            | 45.39                   | 27.55                       | 5.49                  | 29.93                    | 48.50             | 74.00                  | -25.50                | Horizontal   |
| 2483.50            | 47.54                   | 27.53                       | 5.47                  | 29.93                    | 50.61             | 74.00                  | -23.39                | Vertical     |
| 2500.00            | 46.52                   | 27.55                       | 5.49                  | 29.93                    | 49.63             | 74.00                  | -24.37                | Vertical     |
| Average val        | ue:                     |                             |                       |                          |                   |                        |                       |              |
| 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            | 37.30                   | 27.53                       | 5.47                  | 29.93                    | 40.37             | 54.00                  | -13.63                | Horizontal   |
| 2500.00            | 35.11                   | 27.55                       | 5.49                  | 29.93                    | 38.22             | 54.00                  | -15.78                | Horizontal   |

29.93

29.93

41.69

38.26

54.00

54.00

-12.31

-15.74

Project No.: GTS201610000243

Vertical

Vertical

## 2500.00 Remark:

2483.50

5.47

5.49

38.62

35.15

27.53

27.55

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<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



## 7.4 20dB Occupy Bandwidth

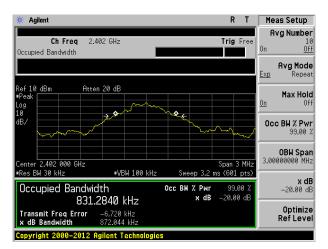
| Test Requirement: | FCC Part15 C Section 15.249/15.215                                    |  |  |  |  |  |
|-------------------|---|--|--|--|--|--|
| Test Method:      | ANSI C63.10:2013  |  |  |  |  |  |
| Limit:            | Operation Frequency range 2400MHz~2483.5MHz                           |  |  |  |  |  |
| Test setup:       | Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane |  |  |  |  |  |
| Test Instruments: | Refer to section 6.0 for details                                      |  |  |  |  |  |
| Test mode:        | Refer to section 5.3 for details                                      |  |  |  |  |  |
| Test results:     | Pass  |  |  |  |  |  |

#### **Measurement Data**

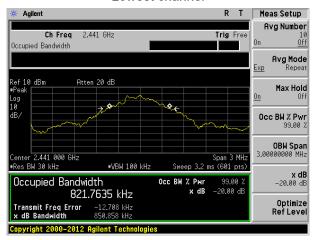
| Test channel | 20dB bandwidth(MHz) | Result |
|--------------|---------------------|--------|
| Lowest       | 0.872               | Pass   |
| Middle       | 0.851               | Pass   |
| Highest      | 0.875               | Pass   |

Test plot as follows:

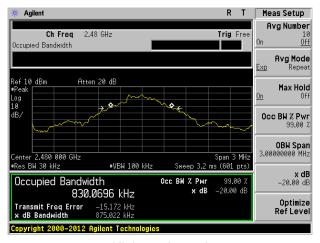




#### Lowest channel



#### Middle channel



Highest channel

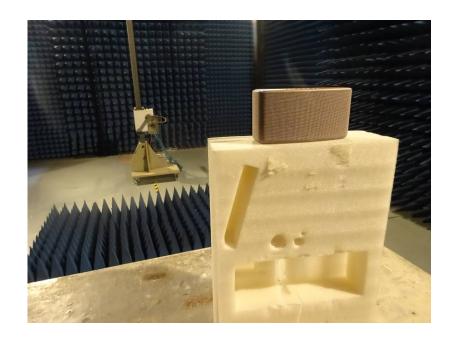
Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



## 8 Test Setup Photo

Radiated Emission







### Conducted Emission





## 9 EUT Constructional Details



























-----End-----