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# FCC Test Report

## Report No.: AGC00252180301FE03

| FCC ID                           | : 2AOJE-E10                            |  |
|----------------------------------|--|--|
| APPLICATION PURPOSE              | : Original Equipment                   |  |
| PRODUCT DESIGNATION              | : Wireless Earbuds                     |  |
| BRAND NAME                       | : Naporon                              |  |
| MODEL NAME                       | : See Page 4                           |  |
| CLIENT                           | : Mailadi Trading Co., Ltd.            |  |
| DATE OF ISSUE                    | : Apr. 03, 2018                        |  |
| STANDARD(S)<br>TEST PROCEDURE(S) | : FCC Part 15 Subpart C Section 15.249 |  |
| REPORT VERSION                   | V1.0                                   |  |
|                                  | Complianc                              |  |

# Attestation of Global Compliance (Shenzhen) Co., Ltd

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| Buttestle.     |             |               |               | Et com          |
|----------------|-------------|---------------|---------------|-----------------|
| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
| V1.0           |             | Apr. 03, 2018 | Valid         | Initial release |

### **Report Revise Record**

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| Applicant                | Mailadi Trading Co., Ltd.   |
|--------------------------|---|
| Address                  | No. 217, Building ES4, Xiaochong Industrial Area, No.2 Zhen'an East Rd.,<br>Xiaobian Community, Changan town, Dongguan city, China  |
| Manufacturer             | Cirque Audio Technology Co., Ltd.   |
| Address                  | No. 2, Road Beiyiheng, Huangjiabao Industrial Park, Shipai Town, Dongguan<br>City, Guangdong Province, China 523347   |
| Product Designation      | Wireless Earbuds  |
| Brand Name               | Naporon   |
| Test Model               | E10   |
| Series Model             | E11, E12, E13, E14, E15, E16, E20, E21, E22, E23, E24, E25, E26, E30, E31, E32, E33, E34, E35, E36, E40, E41, E42, E43, E44, E45, E46, E50, E51, E52, E53, E54, E55, E56, E60, E61, E62, E63, E64, E65, E66, E70, E71, E72, E73, E74, E75, E76, E80, E81, E82, E83, E84, E85, E86, E90, E91, E92, E93, E94, E95, E96, N10, N11, N12, N13, N14, N15, N16, N20, N21, N22, N23, N24, N25 N26, N30, N31, N32, N33, N34, N35, N36, N40, N41, N42, N43, N44, N45, N46, N50, N51, N52, N53, N54, N55, N56, H10, H11, H12, H13, H14, H15, H16 |
| Difference description   | All the same except for the appearance color.   |
| Date of test             | Mar. 23, 2018 to Mar. 30, 2018  |
| Deviation                | None  |
| Condition of Test Sample | Normal  |
| Report Template          | AGCRT-US-BR/RF  |

**1. VERIFICATION OF CONFORMITY** 

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By

Zhang Ham

Henry Zhang(Zhang Zhuorui)

Mar. 30, 2018

Ness e

**Reviewed By** 

Forrest Lei(Lei Yonggang)

Apr. 03, 2018

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### 2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

| <b>Operation Frequency</b> | 2.402 GHz to 2.480GHz  |
|----------------------------|--|
| RF Output Power            | -2.65dBm(Max EIRP Power=Max radiation field-95.2)  |
| Bluetooth Version          | V4.1 • State • |
| Modulation                 | BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK<br>BLE □GFSK   |
| Number of channels         | 79 for BR/EDR  |
| Hardware Version           | V1.0   |
| Software Version           | V1.0   |
| Antenna Designation        | Ceramic Antenna  |
| Antenna Gain               | 2.5dBi   |
| Power Supply               | DC 3.7V by battery   |
| Mile.                      | nly used for charging and can't be used to transfer data with PC.  |

### 2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

| Frequency Band         | Channel Number           | Frequency  |
|------------------------|--------------------------|--|
|                        | A The O of Share Comment | 2402MHz  |
| The the terminance     |                          | 2403MHz  |
| C Freedon CO           |                          |  |
| Ge No                  | 38                       | 2440 MHz   |
| 2400~2483.5MHz         | 39                       | 2441 MHz   |
| The Company of Car     | 40 6                     | 2442 MHz   |
|                        |                          | The second secon |
|                        | 77                       | 2479 MHz   |
| The The the completion | 78                       | 2480 MHz   |

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### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y  $\pm$ U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Uncertainty of Conducted Emission, Uc = ±3.2 dB
Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB

- Uncertainty of Radiated Emission above 1GHz, Uc =  $\pm 4.8$  dB

| NO.     TEST MODE DESCR       1     Low channel GF       2     Middle channel GF | SK   |
|--|--|
|  |  |
| 2 2 Middle channel Gi  | FSK  |
|  |  |
| 3 High channel GF  | SK   |
| 4 Low channel π /4-D   | QPSK   |
| 5 Middle channel π /4-I  | DQPSK  |
| 6 High channel π /4-D  | QPSK   |
| 7 Low channel 8DF  | PSK GO   |
| 8 Middle channel 8D  | PSK  |
| 9 High channel 8DF   | PSK  |
| 10 BT Link   | 20 <sup>10</sup> C The station of the state of the state |

### 4. DESCRIPTION OF TEST MODES

### Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. The EUT used fully-charged battery when tested.

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| nı m <u>-</u>   |   | Software Set                     | ung         | 4                | 1 - mplie  |                 |
|---|---|----------------------------------|-------------|------------------|--|-----------------|
| BlueTest3   |   |                                  |             |                  | _  |                 |
| est Mode  |   | Test Arguments —                 |             |                  |  |                 |
| PAUSE<br>RADIO STATUS<br>RADIO STATUS FULL  |   | LO Freq. (MHz)                   | 2402        |                  |  | ose             |
| TXSTART<br>TXDATA1  |   | Power (Ext, Int)                 | 255         | 50               | Exec   | rute            |
| TXDATA2<br>TXDATA3<br>TXDATA4<br>   |   |                                  |             |                  | Cold   | Reset           |
| RXSTART1<br>RXSTART2<br>RXDATA1   | ~   |                                  |             |                  | Warm   | Reset           |
| est Results   |   |                                  |             |                  |  |                 |
| Save to file  | Browse for                                      | file Dis                         | play : 🕡    | Standard         | C Bit Er   | ror             |
| . \logfile. txt   |   |                                  |             |                  |  |                 |
| ·   |   |                                  |             |                  |  |                 |
| ansport active.<br>Al (Hardware ID 0x332)<br>ent Command Varid 5004   | ) firmware versi<br>4, parameters: (            | ion 8648.<br>0004 0962 FF32 0000 | 0000 0000   |                  |  |                 |
| bening USB SPI (602250<br>ansport active.<br>al Ofardware ID 0x332<br>alt Command Varid 500<br>adio Test TXDATA1 succ | ) firmware versi<br>4, parameters: (            | ion 8648.<br>1004 0962 FF32 0000 | 0000 0000   |                  |  |                 |
| ansport active.<br>Al (Hardware ID 0x332)<br>ent Command Varid 5004   | ) firmware versi<br>4, parameters: (            | ion 8648.<br>0004 0962 FF32 0000 | 0000 0000   |                  |  |                 |
| ansport active.<br>Al (Hardware ID 0x332)<br>ent Command Varid 5004   | ) firmware versi<br>4, parameters: (            | ion 8648.<br>0004 0962 FF32 0000 | 0000 0000   |                  |  |                 |
| ansport active.<br>1 Ofardware ID 0x332<br>ant Command Varid 5004<br>dio Test TXDATA1 suce                            | ) firmware versi<br>4. parameters: (<br>cessful | 0004 0962 FF32 0000              |             |                  |  |                 |
| ansport active.<br>1 Ofardware ID 0x332<br>ant Command Varid 5004<br>dio Test TXDATA1 suce                            | ) firmware versi<br>4. parameters: (<br>cessful | 0004 0962 FF32 0000              |             |                  | 510 - 2017   |                 |
| ansport active.<br>1 Ofardware ID 0x332<br>ant Command Varid 5004<br>dio Test TXDATA1 suce                            | ) firmware versi<br>4. parameters: (<br>cessful | 0004 0962 FF32 0000              | The Company |                  | toom com   | Č <sup>*</sup>  |
| ansport active.<br>1 Ofardware ID 0x332<br>ant Command Varid 5004<br>dio Test TXDATA1 suce                            | ) firmware versi<br>4. parameters: (<br>cessful | 0004 0962 FF32 0000              | The Company | C Reality        | Roma Cont  | j<br>Č          |
| ansport active.<br>1 Ofardware ID 0x332<br>ant Command Varid 5004<br>dio Test TXDATA1 suce                            | ) firmware versi<br>4. parameters: (<br>cessful | 0004 0962 FF32 0000              | The Company |                  | And a  | jC <sup>R</sup> |
| ansport active.<br>1 Ofardware ID 0x332<br>ant Command Varid 5004<br>dio Test TXDATA1 suce                            | ) firmware versi<br>4. parameters: (<br>cessful | 0004 0962 FF32 0000              | The Company | C Reconstruction | Andrew Contraction   | Ç <sup>®</sup>  |
| ansport active.<br>1 Ofardware ID 0x332<br>ant Command Varid 5004<br>dio Test TXDATA1 suce                            | ) firmware versi<br>4. parameters: (<br>cessful | 0004 0962 FF32 0000              | The Company | C Burner         | Account on the second of the s |                 |
| ansport active.<br>1 Ofardware ID 0x332<br>ant Command Varid 5004<br>dio Test TXDATA1 suce                            | ) firmware versi<br>4. parameters: (<br>cessful | 0004 0962 FF32 0000              | The Company |                  | Andrew Commercial Andrew Commercia Andrew Commercial Andrew Commercial Andrew Commer |                 |

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### 5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)



Control box

PC

### 5.2. EQUIPMENT USED IN EUT SYSTEM

| ltem | Equipment        | Mfr/Brand | Model/Type No.  | Remark    |
|------|------------------|-----------|-----------------|-----------|
| 1    | Wireless Earbuds | Naporon   | E10             | EUT       |
| 2    | Battery          | VDL       | VDL10100        | Accessory |
| 3    | PC               | APPLE     | A1465           | A.E       |
| 4    | Control box      | CSR       | USB_SPI_TOOLS   | A.E       |
| 5    | USB Cable        | N/A       | 1m unshielded   | A.E       |
| 6    | USB Cable        | N/A       | 0.3m unshielded | Accessory |

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### **5.3. SUMMARY OF TEST RESULTS**

| FCC RULES             | DESCRIPTION OF TEST | RESULT    |
|-----------------------|---------------------|-----------|
| §15.249(a)<br>§15.209 | Radiated Emission   | Compliant |
| §15.249(d)            | Band Edges          | Compliant |
| §15.207               | Conduction Emission | N/A       |
| §15.215               | Bandwidth           | Compliant |

Note: N/A means it's not applicable to this item.

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### 6. TEST FACILITY

| Test Site                        | Attestation of Global Compliance (Shenzhen) Co., Ltd   |  |  |  |  |  |
|----------------------------------|--|--|--|--|--|--|
| Location                         | 1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang,<br>Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of<br>Xixiang Inner Ring Road, Baoan District, Shenzhen 518012 |  |  |  |  |  |
| NVLAP Lab Code                   | 600153-0   |  |  |  |  |  |
| Designation Number               | CN5028   |  |  |  |  |  |
| Test Firm Registration<br>Number | 682566   |  |  |  |  |  |
| Description                      | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0  |  |  |  |  |  |

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### 7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

### 8. TEST EQUIPMENT LIST

### TEST EQUIPMENT OF RADIATED EMISSION TEST

|                                 |                 |             |            | 1011          |               |
|---------------------------------|-----------------|-------------|------------|---------------|---------------|
| Equipment                       | Manufacturer    | Model       | S/N        | Cal. Date     | Cal. Due      |
| TEST RECEIVER                   | R&S             | ESCI        | 10096      | Jun.20, 2017  | Jun.19, 2018  |
| EXA Signal<br>Analyzer          | Aglient         | N9010A      | MY53470504 | Dec.08, 2017  | Dec.07, 2018  |
| Horn antenna                    | SCHWARZBECK     | BBHA 9170   | #768       | Sep.20, 2017  | Sep.19, 2018  |
| preamplifier                    | ChengYi         | EMC184045SE | 980508     | Sep.15, 2017  | Sep.14, 2018  |
| Double-Ridged<br>Waveguide Horn | ETS LINDGREN    | 3117        | 00034609   | May 18, 2017  | May 17, 2019  |
| Broadband<br>Preamplifier       | SCHWARZBECK     | BBV 9718    | 9718-205   | Jun.20, 2017  | Jun.19, 2018  |
| ANTENNA                         | SCHWARZBECK     | VULB9168    | D69250     | Sep.28, 2017  | Sep.27, 2018  |
| Loop Antenna                    | A.H.Systems,Inc | SAS-562B    |            | Mar. 01, 2018 | Feb. 28, 2020 |

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### 9. RADIATED EMISSION

### 9.1TEST LIMIT

Standard FCC15.249

| Fundamental    | Field Strength of Fundamental | Field Strength of Harmonics |
|----------------|-------------------------------|-----------------------------|
| Frequency      | (millivolts/meter)            | (microvolts/meter)          |
| 900-928MHz     | 50                            | 500                         |
| 2400-2483.5MHz | 50 6 6                        | 500                         |
| 5725-5875MHz   | 50                            | 500                         |
| 24.0-24.25GHz  | 250                           | 2500                        |

### Standard FCC 15.209

| Frequency     | Distance             | Field Strengths Limit            |  |  |  |  |  |  |
|---------------|----------------------|----------------------------------|--|--|--|--|--|--|
| (MHz)         | Meters               | μ V/m                            | dB(µV)/m                                 |  |  |  |  |  |
| 0.009 ~ 0.490 | 300                  | 2400/F(kHz)                      |  |  |  |  |  |  |
| 0.490 ~ 1.705 | 30                   | 24000/F(kHz)                     | the man the second                       |  |  |  |  |  |
| 1.705 ~ 30    | 30                   | 30                               | E The Could Could Be Strengther of Could |  |  |  |  |  |
| 30 ~ 88       | 3                    | 100                              | 40.0                                     |  |  |  |  |  |
| 88 ~ 216      | 3                    | 150                              | 43.5                                     |  |  |  |  |  |
| 216 ~ 960     | 3                    | 200                              | 46.0                                     |  |  |  |  |  |
| 960 ~ 1000    | 3                    | 500                              | 54.0                                     |  |  |  |  |  |
| Above 1000    | 3. The second second | Other:74.0 dB(µV)/m<br>(Average) | (Peak) 54.0 dB(µV)/m                     |  |  |  |  |  |

Remark: (1) Emission level dB $\mu$  V = 20 log Emission level  $\mu$  V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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### 9.2. MEASUREMENT PROCEDURE

- The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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| Spectrum Parameter    | Setting  |
|-----------------------|--|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP  |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP  |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP   |
| Start ~Stop Frequency | Fundamental: 2.4~2.483GHz<br>RBW 2MHz/ VBW 6MHz for Peak,<br>RBW 2MHz/ VBW 10Hz for Average<br>Harmonics: 1GHz~25GHz<br>RBW 1MHz/ VBW 3MHz for Peak,<br>RBW 1MHz/ VBW 10Hz for Average |
| Receiver Parameter    | Setting  |
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP  |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP  |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP   |

The following table is the setting of spectrum analyzer and receiver.

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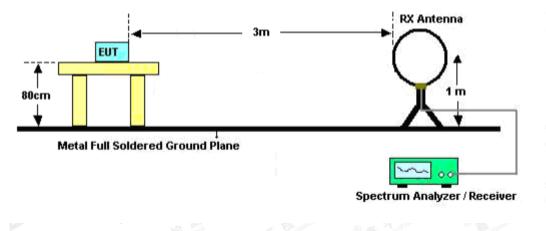




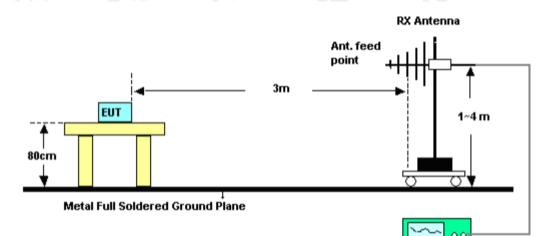
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### 9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



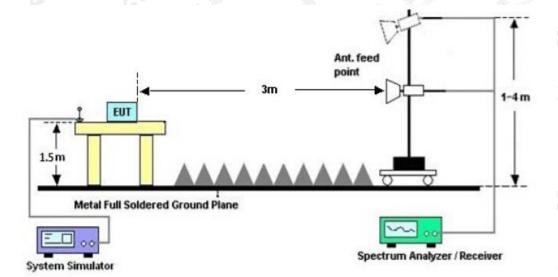
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Spectrum Analyzer / Receiver



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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### 9.4. TEST RESULT

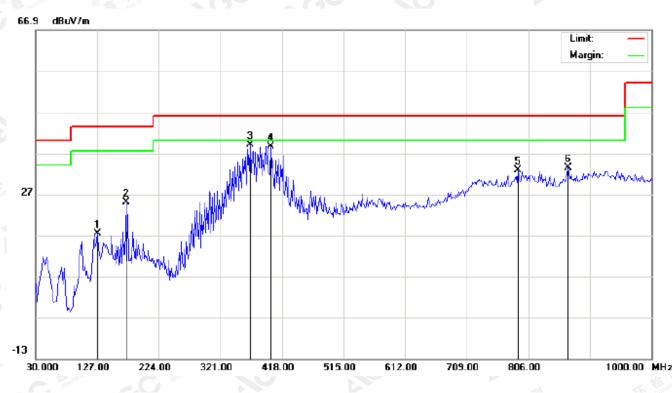
### FOR BR/EDR

(Worst modulation: GFSK)

### **RADIATED EMISSION BELOW 30MHz**

No emission found between lowest internal used/generated frequencies to 30MHz. **RADIATED EMISSION BELOW 1GHz** 

RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL

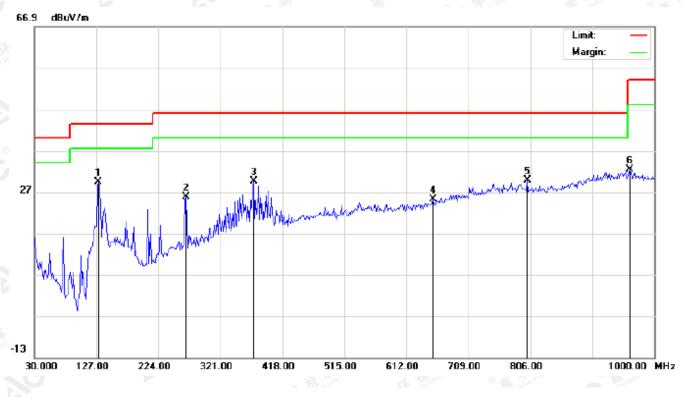


| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|     | -  | MHz      | dBu∀    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 1   |    | 127.0000 | 8.26    | 9.13   | 17.39       | 43.50  | -26.11 | peak     |                   |                 |         |
| 2   |    | 172.2667 | 14.20   | 10.78  | 24.98       | 43.50  | -18.52 | peak     |                   |                 |         |
| 3   | *  | 367.8833 | 20.24   | 18.86  | 39.10       | 46.00  | -6.90  | peak     |                   |                 |         |
| 4   |    | 400.2167 | 19.53   | 19.08  | 38.61       | 46.00  | -7.39  | peak     |                   |                 |         |
| 5   |    | 789.8333 | 5.59    | 27.18  | 32.77       | 46.00  | -13.23 | peak     |                   |                 |         |
| 6   |    | 869.0500 | 5.54    | 27.81  | 33.35       | 46.00  | -12.65 | peak     |                   |                 |         |

RESULT: PASS

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### RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL

|   | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|---|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|   |     | -  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
|   | 1   | *  | 130.2333 | 18.21   | 11.13  | 29.34       | 43.50  | -14.16 | peak     |                   |                 |         |
| Γ | 2   |    | 267.6500 | 11.33   | 14.43  | 25.76       | 46.00  | -20.24 | peak     |                   |                 |         |
|   | 3   |    | 372.7333 | 10.69   | 18.89  | 29.58       | 46.00  | -16.42 | peak     |                   |                 |         |
| Γ | 4   |    | 654.0333 | 1.24    | 23.96  | 25.20       | 46.00  | -20.80 | peak     |                   |                 |         |
|   | 5   |    | 801.1500 | 2.44    | 27.32  | 29.76       | 46.00  | -16.24 | peak     |                   |                 |         |
|   | 6   |    | 961.2000 | 2.54    | 29.89  | 32.43       | 54.00  | -21.57 | peak     |                   |                 |         |

### **RESULT: PASS**

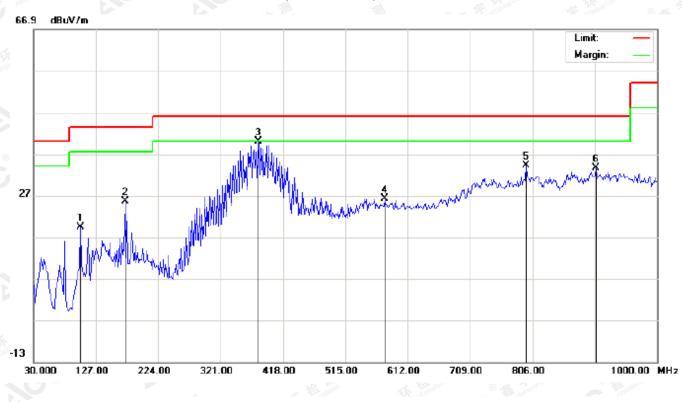
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

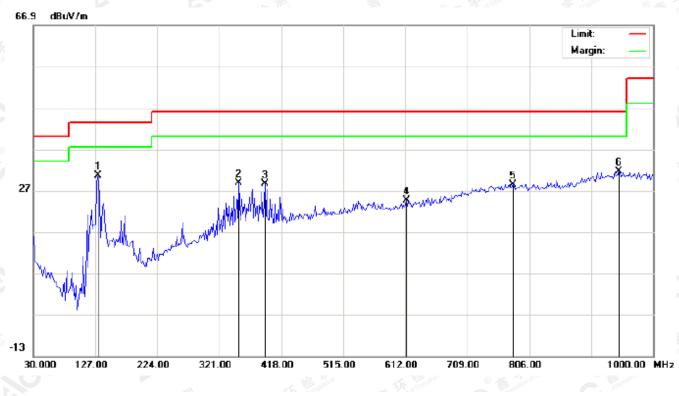
|   | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|---|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|   |     | -  | MHz      | dBu∨    | dB/m   | dBu\//m     | dBuV/m | dB     |          | cm                | degree          |         |
|   | 1   |    | 102.7500 | 9.57    | 9.84   | 19.41       | 43.50  | -24.09 | peak     |                   |                 |         |
|   | 2   |    | 172.2667 | 14.88   | 10.78  | 25.66       | 43.50  | -17.84 | peak     |                   |                 |         |
|   | 3   | *  | 379.2000 | 21.01   | 18.93  | 39.94       | 46.00  | -6.06  | peak     |                   |                 |         |
|   | 4   |    | 576.4333 | 3.08    | 23.14  | 26.22       | 46.00  | -19.78 | peak     |                   |                 |         |
|   | 5   |    | 796.3000 | 6.99    | 27.27  | 34.26       | 46.00  | -11.74 | peak     |                   |                 |         |
| Ĩ | 6   |    | 904.6167 | 4.77    | 28.74  | 33.51       | 46.00  | -12.49 | peak     |                   |                 |         |

**RESULT: PASS** 

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### RADIATED EMISSION TEST- (30MHz-1GHz)- MIDDLE CHANNEL -VERTICAL

|    | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|----|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| 10 |     | -  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
|    | 1   | *  | 131.8500 | 18.71   | 11.80  | 30.51       | 43.50  | -12.99 | peak     |                   |                 |         |
| ſ  | 2   |    | 351.7167 | 9.98    | 18.75  | 28.73       | 46.00  | -17.27 | peak     |                   |                 |         |
|    | 3   |    | 392.1333 | 9.59    | 19.02  | 28.61       | 46.00  | -17.39 | peak     |                   |                 |         |
|    | 4   |    | 613.6167 | 1.55    | 23.04  | 24.59       | 46.00  | -21.41 | peak     |                   |                 |         |
|    | 5   |    | 780.1333 | 1.45    | 27.05  | 28.50       | 46.00  | -17.50 | peak     |                   |                 |         |
| 1  | 6   |    | 946.6500 | 1.67    | 29.91  | 31.58       | 46.00  | -14.42 | peak     |                   |                 |         |

### **RESULT: PASS**

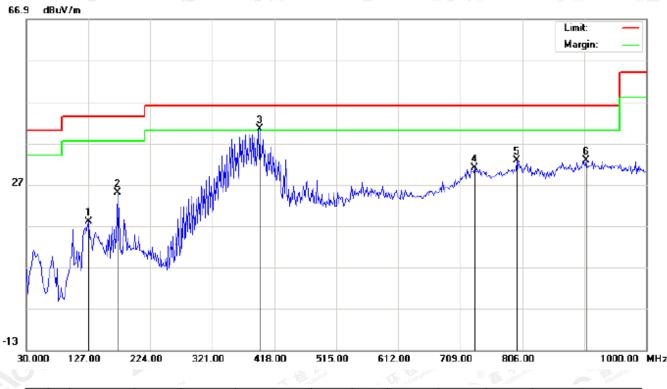
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

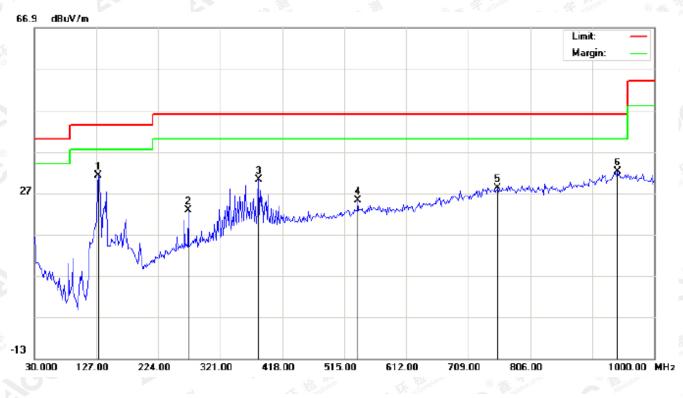
|   | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|---|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| 1 |     | -  | MHz      | dBu∀    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 0 | 1   |    | 127.0000 | 8.84    | 9.13   | 17.97       | 43.50  | -25.53 | peak     |                   |                 |         |
|   | 2   |    | 172.2667 | 14.26   | 10.78  | 25.04       | 43.50  | -18.46 | peak     |                   |                 |         |
|   | 3   | *  | 395.3667 | 21.35   | 19.04  | 40.39       | 46.00  | -5.61  | peak     |                   |                 |         |
|   | 4   |    | 731.6333 | 4.84    | 26.11  | 30.95       | 46.00  | -15.05 | peak     |                   |                 |         |
|   | 5   |    | 797.9167 | 5.47    | 27.29  | 32.76       | 46.00  | -13.24 | peak     |                   |                 |         |
|   | 6   |    | 906.2333 | 3.95    | 28.78  | 32.73       | 46.00  | -13.27 | peak     |                   |                 |         |

**RESULT: PASS** 

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### RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL

|   | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|---|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|   |     | -  | MHz      | dBu∀    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
|   | 1   | *  | 130.2333 | 20.14   | 11.13  | 31.27       | 43.50  | -12.23 | peak     |                   |                 |         |
| Γ | 2   |    | 270.8833 | 8.31    | 14.53  | 22.84       | 46.00  | -23.16 | peak     |                   |                 |         |
|   | 3   |    | 380.8167 | 11.31   | 18.94  | 30.25       | 46.00  | -15.75 | peak     |                   |                 |         |
|   | 4   |    | 536.0167 | 3.08    | 22.10  | 25.18       | 46.00  | -20.82 | peak     |                   |                 |         |
|   | 5   |    | 754.2667 | 1.58    | 26.69  | 28.27       | 46.00  | -17.73 | peak     |                   |                 |         |
|   | 6   |    | 941.8000 | 2.41    | 29.77  | 32.18       | 46.00  | -13.82 | peak     |                   |                 |         |

### **RESULT: PASS**

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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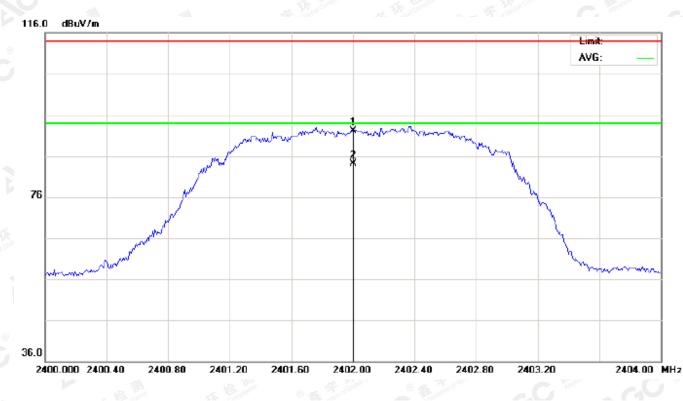
### **RADIATED EMISSION ABOVE 1GHz**

FOR BR/EDR

(Worst modulation: GFSK)

#### For Fundamental

#### RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|     | -  | MHz      | dBu∨    | dB/m   | dBu\//m     | dBuV/m | dB     |          | cm                | degree          |         |
| 1   |    | 2402.000 | 81.71   | 10.32  | 92.03       | 114.00 | -21.97 | peak     |                   |                 |         |
| 2   | *  | 2402.000 | 73.69   | 10.32  | 84.01       | 94.00  | -9.99  | AVG      | 100               | 31              |         |

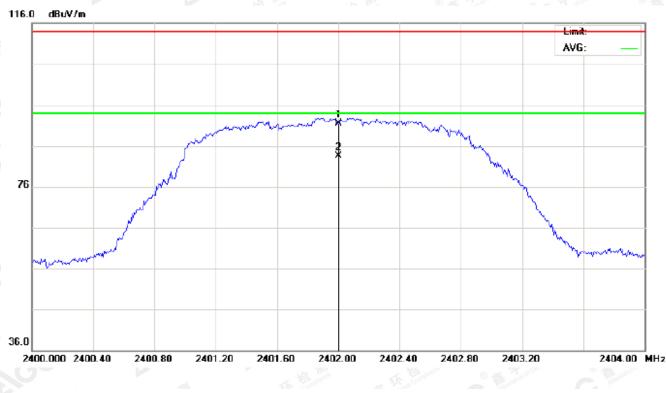
#### **RESULT: PASS**

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### RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

| 2 | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|---|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| 5 |     | -  | MHz      | dBu∨    | dB/m   | dBu∀/m      | dBuV/m | dB     |          | cm                | degree          |         |
|   | 1   |    | 2402.000 | 81.22   | 10.32  | 91.54       | 114.00 | -22.46 | peak     |                   |                 |         |
|   | 2   | *  | 2402.000 | 73.26   | 10.32  | 83.58       | 94.00  | -10.42 | AVG      | 100               | 54              |         |

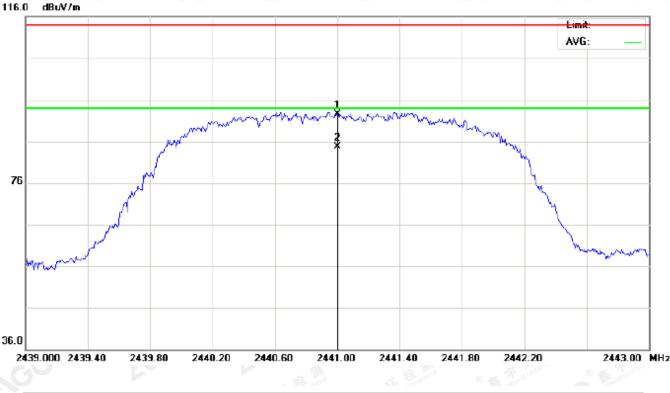
**RESULT: PASS** 

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

|   | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|---|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|   |     | •  | MHz      | dBu∀    | dB/m   | dBu∀/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 0 | 1   |    | 2441.000 | 82.19   | 10.36  | 92.55       | 114.00 | -21.45 | peak     |                   |                 |         |
|   | 2   | *  | 2441.000 | 74.25   | 10.36  | 84.61       | 94.00  | -9.39  | AVG      | 100               | 30              |         |

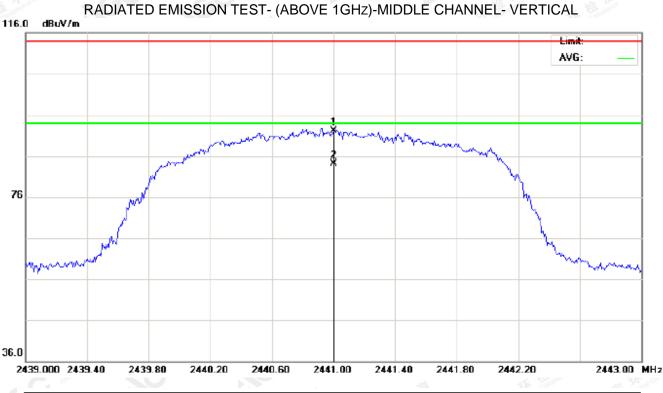
**RESULT: PASS** 

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| N   | lo. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|     |     | -  | MHz      | dBu∀    | dB/m   | dBu\//m     | dBuV/m | dB     |          | cm                | degree          |         |
| i I | 1   |    | 2441.000 | 81.69   | 10.36  | 92.05       | 114.00 | -21.95 | peak     |                   |                 |         |
|     | 2   | *  | 2441.000 | 73.72   | 10.36  | 84.08       | 94.00  | -9.92  | AVG      | 100               | 38              |         |

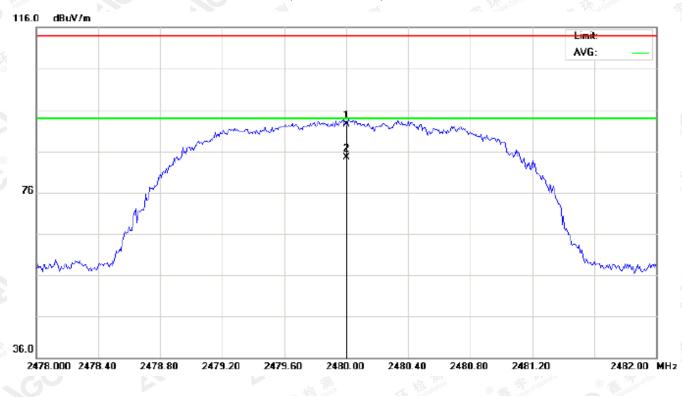
RESULT: PASS

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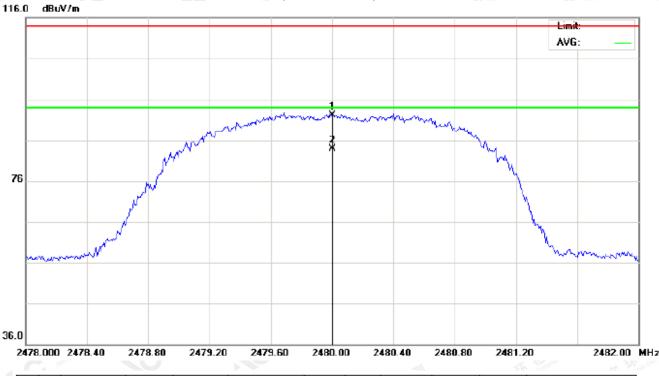
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
| 2   | •  | MHz      | dBu∀    | dB/m   | dBu\//m     | dBuV/m | dB     |          | cm                | degree          |         |
| 1   |    | 2480.000 | 82.01   | 10.41  | 92.42       | 114.00 | -21.58 | peak     |                   |                 |         |
| 2   | *  | 2480.000 | 74.07   | 10.41  | 84.48       | 94.00  | -9.52  | AVG      | 100               | 31              |         |

**RESULT: PASS** 

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### RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL

| No  | . Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|------|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|     | -    | MHz      | dBu∀    | dB/m   | dBu\//m     | dBuV/m | dB     |          | cm                | degree          |         |
| § 1 |      | 2480.000 | 81.60   | 10.41  | 92.01       | 114.00 | -21.99 | peak     |                   |                 |         |
| 2   | *    | 2480.000 | 73.51   | 10.41  | 83.92       | 94.00  | -10.08 | AVG      | 100               | 55              |         |

### RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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Field strength of the fundamental signal

### 1Mbps Result:

Peak value

| Frequency | Reading<br>Level | Factor | Measurement | Limit    | Over   | Antenna      |  |
|-----------|------------------|--------|-------------|----------|--------|--------------|--|
| (MHz)     | (dBuv)           | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |  |
| 2402      | 81.71            | 10.32  | 92.03       | 114      | -21.97 | Horizontal   |  |
| 2402      | 81.22            | 10.32  | 91.54       | 114      | -22.46 | Vertical     |  |
| 2441      | 82.19            | 10.36  | 92.55       | 114 📣    | -21.45 | Horizontal   |  |
| 2441      | 81.69            | 10.36  | 92.05       | 114      | -21.95 | Vertical     |  |
| 2480      | 82.01            | 10.41  | 92.42       | 114      | -21.58 | Horizontal   |  |
| 2480      | 81.60            | 10.41  | 92.01       | 114      | -21.99 | Vertical     |  |
| 2480      | 81.60            | 10.41  | 92.01       | 114      | -21.99 | Verti        |  |

### Average value

| Frequency | Reading<br>Level | Factor | Measurement | Limit    | Over   | Antenna      |  |
|-----------|------------------|--------|-------------|----------|--------|--------------|--|
| (MHz)     | (dBuv)           | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |  |
| 2402      | 73.69            | 10.32  | 84.01       | 94 💿     | -9.99  | Horizontal   |  |
| 2402      | 73.26            | 10.32  | 83.58       | 94       | -10.42 | Vertical     |  |
| 2441      | 74.25            | 10.36  | 84.61       | 94       | -9.39  | Horizontal   |  |
| 2441      | 73.72            | 10.36  | 84.08       | 94       | -9.92  | Vertical     |  |
| 2480      | 74.07            | 10.41  | 84.48       | 94       | -9.52  | Horizontal   |  |
| 2480      | 73.51            | 10.41  | 83.92       | 94       | -10.08 | Vertical     |  |

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### 2Mbps Result:

#### Peak value

| Frequency | Reading<br>Level | Factor | Measurement | Limit    | Over   | Antenna      |
|-----------|------------------|--------|-------------|----------|--------|--------------|
| (MHz)     | (dBuv)           | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |
| 2402      | 81.27            | 10.32  | 91.59       | 114      | -22.41 | Horizontal   |
| 2402      | 80.74            | 10.32  | 91.06       | 114      | -22.94 | Vertical     |
| 2441      | 81.73            | 10.36  | 92.09       | 114      | -21.91 | Horizontal   |
| 2441      | 81.27            | 10.36  | 91.63       | 114      | -22.37 | Vertical     |
| 2480      | 81.57            | 10.41  | 91.98       | 114      | -22.02 | Horizontal   |
| 2480      | 81.13            | 10.41  | 91.54       | 114      | -22.46 | Vertical     |

#### Average value

| Frequency | Reading<br>Level | Factor | Measurement | Limit    | Over   | Antenna      |  |
|-----------|------------------|--------|-------------|----------|--------|--------------|--|
| (MHz)     | (dBuv)           | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |  |
| 2402      | 73.25            | 10.32  | 83.57       | 94       | -10.43 | Horizontal   |  |
| 2402      | 72.77            | 10.32  | 83.09       | 94       | -10.91 | Vertical     |  |
| 2441      | 73.81            | 10.36  | 84.17       | 94       | -9.83  | Horizontal   |  |
| 2441      | 73.32            | 10.36  | 83.68       | 94       | -10.32 | Vertical     |  |
| 2480      | 73.59            | 10.41  | 84.00       | 94       | -10.00 | Horizontal   |  |
| 2480      | 73.06            | 10.41  | 83.47       | 94       | -10.53 | Vertical     |  |

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### 3Mbps Result:

#### Peak value

| Frequency | Reading<br>Level | Factor | Measurement | Limit    | Over     | Antenna      |  |
|-----------|------------------|--------|-------------|----------|----------|--------------|--|
| (MHz)     | (dBuv)           | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)     | Polarization |  |
| 2402      | 80.83            | 10.32  | 91.15       | 114      | -22.85   | Horizontal   |  |
| 2402      | 80.26            | 10.32  | 90.58       | 114      | -23.42   | Vertical     |  |
| 2441      | 81.25            | 10.36  | 91.61       | 114      | -22.39   | Horizontal   |  |
| 2441      | 80.80            | 10.36  | 91.16       | 114      | -22.84 👝 | Vertical     |  |
| 2480      | 81.11            | 10.41  | 91.52       | 114      | -22.48   | Horizontal   |  |
| 2480      | 80.72            | 10.41  | 91.13       | 114      | -22.87   | Vertical     |  |

#### Average value

| Frequency | Reading<br>Level | Factor | Measurement | Limit    | Over   | Antenna      |  |
|-----------|------------------|--------|-------------|----------|--------|--------------|--|
| (MHz)     | (dBuv)           | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |  |
| 2402      | 72.79            | 10.32  | 83.11       | 94       | -10.89 | Horizontal   |  |
| 2402      | 72.30            | 10.32  | 82.62       | 94       | -11.38 | Vertical     |  |
| 2441      | 73.40            | 10.36  | 83.76       | 94       | -10.24 | Horizontal   |  |
| 2441      | 72.83            | 10.36  | 83.19       | 94       | -10.81 | Vertical     |  |
| 2480      | 73.17            | 10.41  | 83.58       | 94       | -10.42 | Horizontal   |  |
| 2480      | 72.65            | 10.41  | 83.06       | 94       | -10.94 | Vertical     |  |

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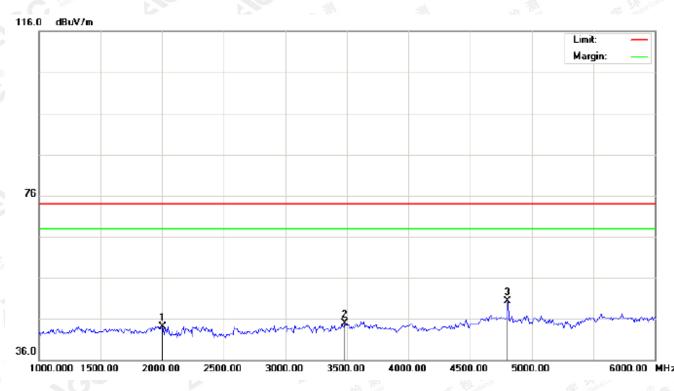
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#### FOR BR/EDR

#### (Worst modulation: GFSK)

#### For Harmonics

#### RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



| N     | o. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-------|----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|       |    | -  | MHz      | dBu∀    | dB/m   | dBuV/m      | dBu∀/m | dB     |          | cm                | degree          |         |
| 1     | 1  |    | 2000.000 | 34.31   | 9.88   | 44.19       | 74.00  | -29.81 | peak     |                   |                 |         |
| 2     | 2  |    | 3483.333 | 32.87   | 12.09  | 44.96       | 74.00  | -29.04 | peak     |                   |                 |         |
| × (1) | 3  | *  | 4804.000 | 42.71   | 7.69   | 50.40       | 74.00  | -23.60 | peak     |                   |                 |         |

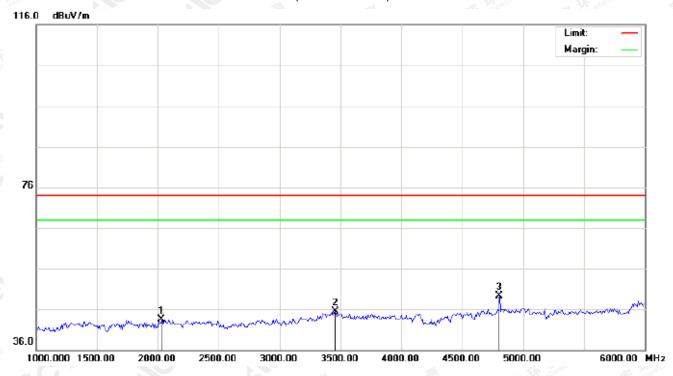
### **RESULT: PASS**

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### RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|     | -  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 1   |    | 2033.333 | 33.59   | 9.92   | 43.51       | 74.00  | -30.49 | peak     |                   |                 |         |
| 2   |    | 3458.333 | 33.40   | 12.07  | 45.47       | 74.00  | -28.53 | peak     |                   |                 |         |
| 3   | *  | 4804.000 | 41.55   | 7.69   | 49.24       | 74.00  | -24.76 | peak     |                   |                 |         |

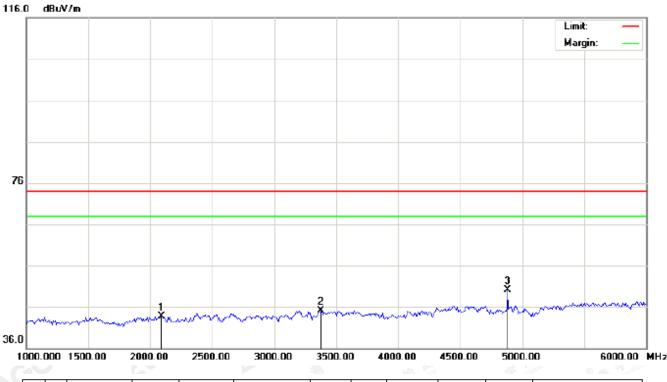
**RESULT: PASS** 

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### RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

| N  | o. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|----|----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|    |    | -  | MHz      | dBu∀    | dB/m   | dBuV/m      | dBu∨/m | dB     |          | cm                | degree          |         |
| 10 | 1  |    | 2091.667 | 33.79   | 9.98   | 43.77       | 74.00  | -30.23 | peak     |                   |                 |         |
|    | 2  |    | 3375.000 | 33.14   | 11.99  | 45.13       | 74.00  | -28.87 | peak     |                   |                 |         |
| ,  | 3  | *  | 4882.000 | 42.16   | 7.89   | 50.05       | 74.00  | -23.95 | peak     |                   |                 |         |

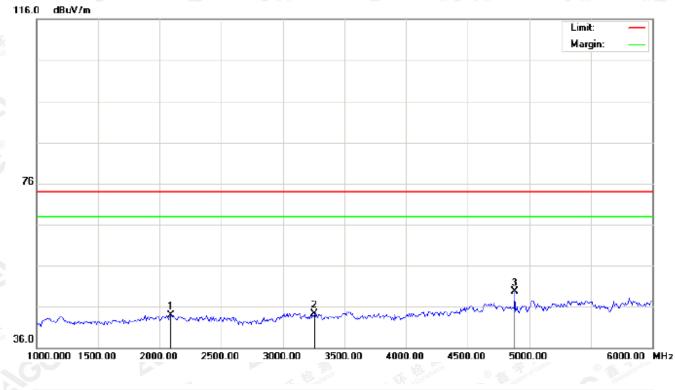
**RESULT: PASS** 

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### RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL

| No | o. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|----|----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|    |    |    | MHz      | dBu∀    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 1  | I  |    | 2091.667 | 33.91   | 9.98   | 43.89       | 74.00  | -30.11 | peak     |                   |                 |         |
| 2  | 2  |    | 3258.333 | 32.37   | 11.88  | 44.25       | 74.00  | -29.75 | peak     |                   |                 |         |
| 3  | 3  | *  | 4882.000 | 41.89   | 7.89   | 49.78       | 74.00  | -24.22 | peak     |                   |                 |         |

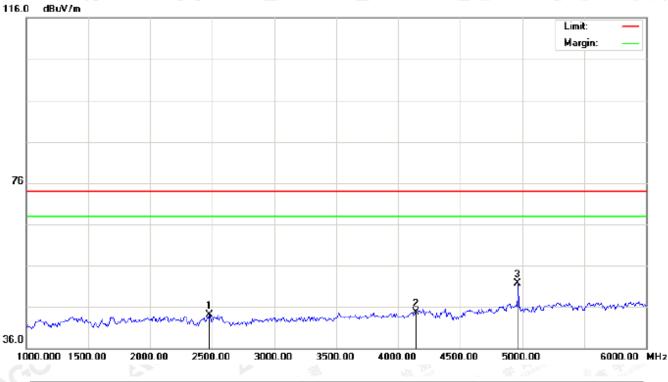
**RESULT: PASS** 

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| RADIATED EMISSION TEST- | (ABOVE 1GHz)-HIGH | H CHANNEL-HORIZONTAL |
|-------------------------|-------------------|----------------------|

| No. | Mk | Freq.                       | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|----|-----------------------------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|     | •  | MHz                         | dBu∀    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 1   |    | 2475.000                    | 33.73   | 10.40  | 44.13       | 74.00  | -29.87 | peak     |                   |                 |         |
| 2   |    | 4141.667                    | 31.89   | 12.84  | 44.73       | 74.00  | -29.27 | peak     |                   |                 |         |
| 3   | *  | 4960.000                    | 43.60   | 8.09   | 51.69       | 74.00  | -22.31 | peak     |                   |                 |         |
|     |    | NAME OF TAXABLE AND ADDRESS |         |        | Line and    |        |        |          |                   |                 |         |

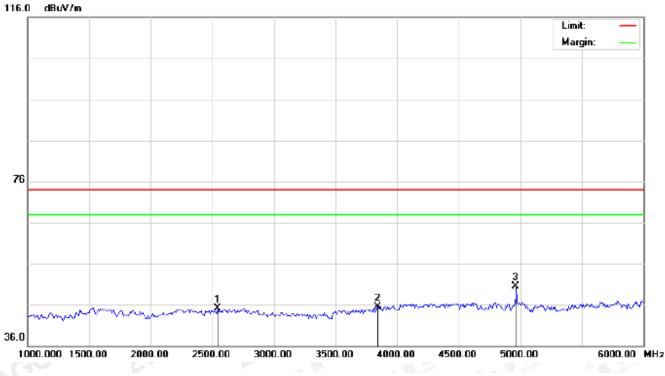
**RESULT: PASS** 

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### RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|     | ·  | MHz      | dBu∀    | dB/m   | dBuV/m      | dBu∨/m | dB     |          | cm                | degree          |         |
| 1   |    | 2541.667 | 34.53   | 10.53  | 45.06       | 74.00  | -28.94 | peak     |                   |                 |         |
| 2   |    | 3841.667 | 31.36   | 14.21  | 45.57       | 74.00  | -28.43 | peak     |                   |                 |         |
| 3   | *  | 4960.000 | 42.41   | 8.09   | 50.50       | 74.00  | -23.50 | peak     |                   |                 |         |

#### **RESULT: PASS**

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.



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# **10. BAND EDGE EMISSION**

### 10.1. MEASUREMENT PROCEDURE

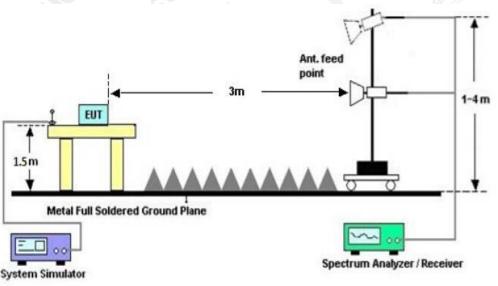
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

| Start frequency | y(MHz)           |                | Stop frequency(MH | z)   |
|-----------------|------------------|----------------|-------------------|------|
| 2200            | 电型 环境            | nce C Stratter | 2405              | SC - |
| 2478            | C Austano of Gou | GO             | 2500              |      |
| Aller Aller     |                  |                |                   |      |

### 10.2 TEST SETUP



RADIATED EMISSION TEST SETUP



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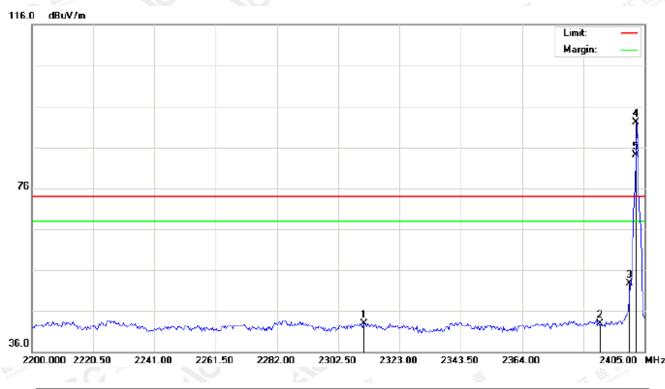
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# **10.3 RADIATED TEST RESULT**

#### FOR BR/EDR

#### (Worst modulation: GFSK)

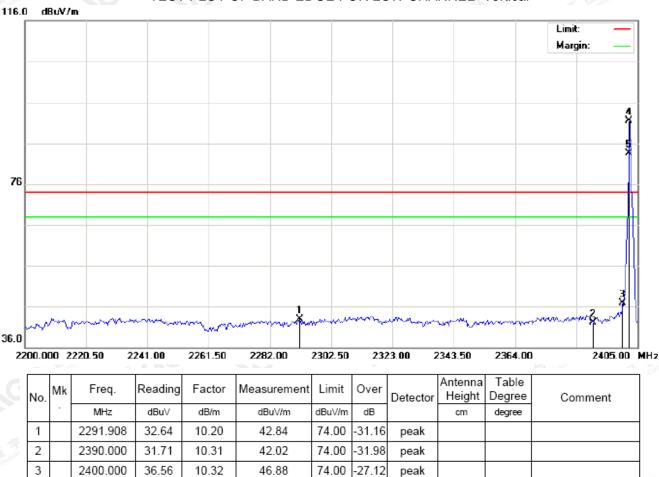
#### TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|     | •  | MHz      | dBu∀    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 1   |    | 2311.042 | 32.77   | 10.22  | 42.99       | 74.00  | -31.01 | peak     |                   |                 |         |
| 2   |    | 2390.000 | 32.50   | 10.31  | 42.81       | 74.00  | -31.19 | peak     |                   |                 |         |
| 3   |    | 2400.000 | 42.47   | 10.32  | 52.79       | 74.00  | -21.21 | peak     |                   |                 |         |
| 4   | *  | 2402.000 | 81.72   | 10.32  | 92.04       | 74.00  | 18.04  | peak     |                   |                 |         |
| 5   | Х  | 2402.000 | 73.71   | 10.32  | 84.03       | 74.00  | 10.03  | AVG      | 100               | 30              |         |



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74.00

74.00

91.52

83.54

17.52

9.54

peak

AVG

100

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

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2402.000

2402.000

4

5 X

81.20

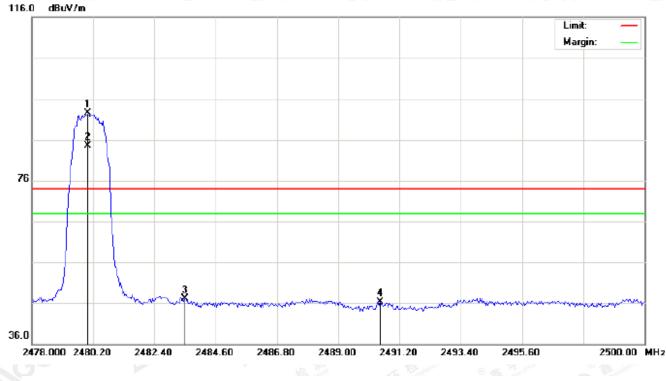
73.22

10.32

10.32



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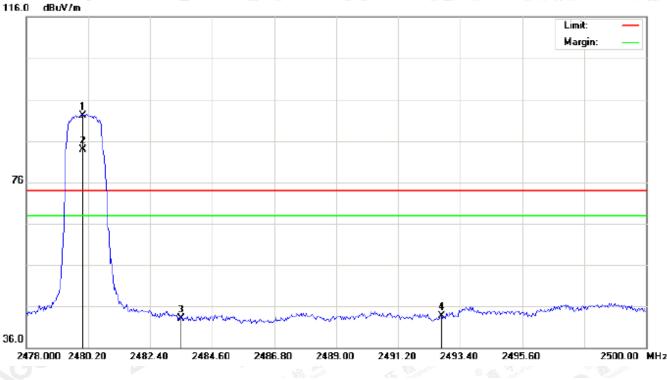
#### TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|     | •  | MHz      | dBu∀    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 1   | *  | 2480.000 | 82.02   | 10.41  | 92.43       | 74.00  | 18.43  | peak     |                   |                 |         |
| 2   | Х  | 2480.000 | 74.05   | 10.41  | 84.46       | 74.00  | 10.46  | AVG      | 100               | 34              |         |
| 3   |    | 2483.500 | 36.69   | 10.41  | 47.10       | 74.00  | -26.90 | peak     |                   |                 |         |
| 4   |    | 2490.503 | 35.93   | 10.42  | 46.35       | 74.00  | -27.65 | peak     |                   |                 |         |





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### TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

|   | No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna<br>Height | Table<br>Degree | Comment |
|---|-----|----|----------|---------|--------|-------------|--------|--------|----------|-------------------|-----------------|---------|
|   |     | -  | MHz      | dBu∨    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm                | degree          |         |
| 2 | 1   | *  | 2480.000 | 81.60   | 10.41  | 92.01       | 74.00  | 18.01  | peak     |                   |                 |         |
|   | 2   | Х  | 2480.000 | 73.48   | 10.41  | 83.89       | 74.00  | 9.89   | AVG      | 100               | 48              |         |
|   | 3   |    | 2483.500 | 32.76   | 10.41  | 43.17       | 74.00  | -30.83 | peak     |                   |                 |         |
|   | 4   |    | 2492.740 | 33.21   | 10.42  | 43.63       | 74.00  | -30.37 | peak     |                   |                 |         |

#### **RESULT: PASS**

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Hopping on mode and Hopping off mode have been tested, but only worst case reported.



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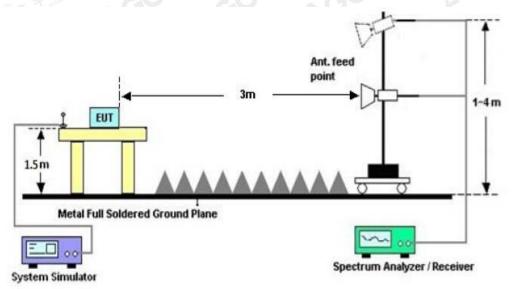
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# 11. 20DB BANDWIDTH

#### **11.1. MEASUREMENT PROCEDURE**

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel
- RBW  $\geq$  1% of the 20 dB bandwidth, VBW  $\geq$  3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

# 11.2. TEST SET-UP



# **11.3. LIMITS AND MEASUREMENT RESULTS**

#### FOR BR/EDR

| BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT |                |                    |               |        |  |  |  |  |  |
|---|----------------|--------------------|---------------|--------|--|--|--|--|--|
|   |                | Measurement Result |               |        |  |  |  |  |  |
| Applicable Limits                             |                | Decell             |               |        |  |  |  |  |  |
|   |                | 99%OBW (MHz)       | -20dB BW(MHz) | Result |  |  |  |  |  |
| The Construction of Manufacture               | Low Channel    | 0.913              | 1.075         | PASS   |  |  |  |  |  |
| N/A   | Middle Channel | 0.918              | 1.088         | PASS   |  |  |  |  |  |
|   | High Channel   | 0.932              | 1.099         | PASS   |  |  |  |  |  |

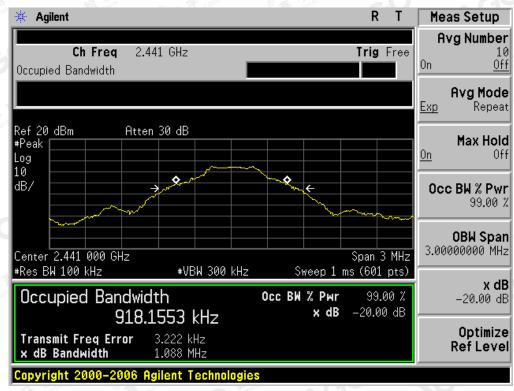


#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL





# TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



| Nile A                | 1177           | . Ă           | and Manalow   | CO.      |
|-----------------------|----------------|---------------|---------------|----------|
| BLUET                 | DOTH 2MBPS LIN | ITS AND MEASU | REMENT RESULT |          |
|                       |                | Measure       | ement Result  |          |
| Applicable Limits     |                | Dara It       |               |          |
|                       |                | 99%OBW (MHz)  | -20dB BW(MHz) | Result   |
| The the second second | Low Channel    | 1.216         | 1.381         | PASS     |
| N/A                   | Middle Channel | 1.204         | 1.367         | PASS     |
|                       | High Channel   | 1.209         | 1.357         | PASS     |
|                       |                |               | Malcon F. G   | ope Alle |

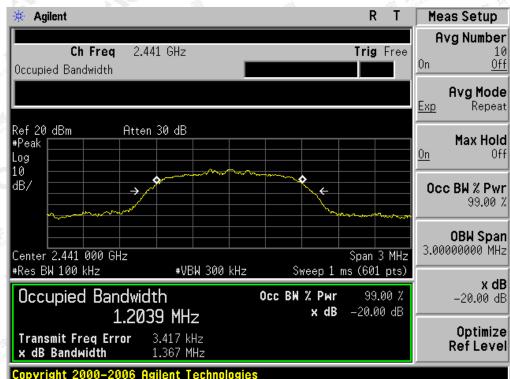
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

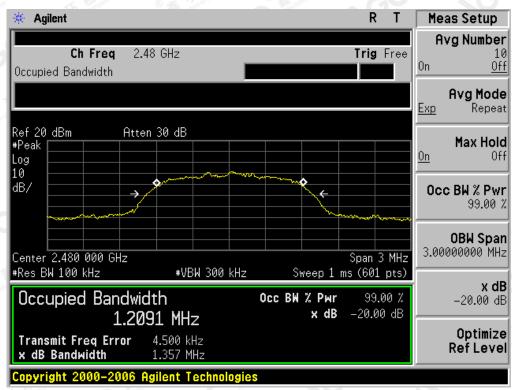






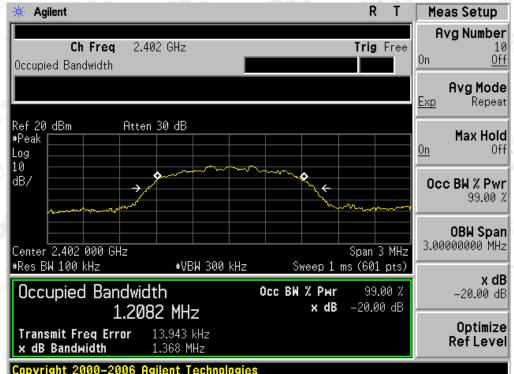
# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



|   |                               |   | <u>, 201 , 00</u>                             |  |  |  |  |  |  |
|---|-------------------------------|---|---|--|--|--|--|--|--|
| BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT |                               |   |   |  |  |  |  |  |  |
|   | Measure                       | ement Result  |   |  |  |  |  |  |  |
|   | Desult                        |   |   |  |  |  |  |  |  |
|   | 99%OBW (MHz)                  | -20dB BW(MHz)   | Result  |  |  |  |  |  |  |
| Low Channel                                   | 1.208                         | 1.368   | PASS  |  |  |  |  |  |  |
| Middle Channel                                | 1.224                         | 1.371   | PASS  |  |  |  |  |  |  |
| High Channel                                  | 1.210                         | 1.358   | PASS  |  |  |  |  |  |  |
|   | Low Channel<br>Middle Channel | Measure<br>Test Data (MHz)<br>99%OBW (MHz)<br>Low Channel 1.208<br>Middle Channel 1.224 | Low Channel1.2081.368Middle Channel1.2241.371 |  |  |  |  |  |  |

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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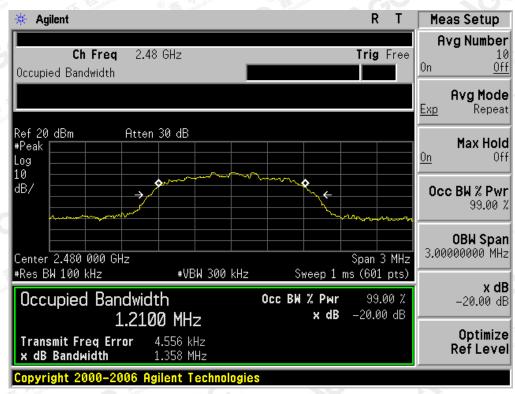
测

检



# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



# **12. FCC LINE CONDUCTED EMISSION TEST**

## 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

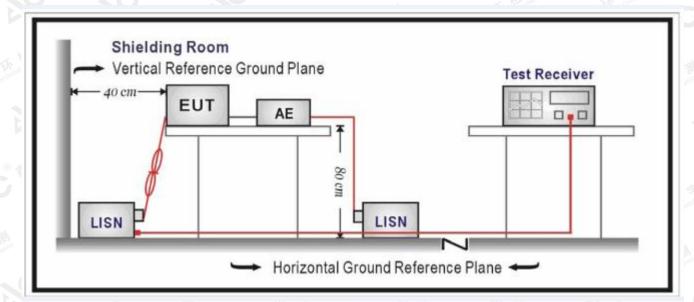
| Francisco     | Maximum RF Line Voltage |                |  |  |  |  |  |
|---------------|-------------------------|----------------|--|--|--|--|--|
| Frequency     | Q.P.( dBuV)             | Average( dBuV) |  |  |  |  |  |
| 150kHz~500kHz | 66-56                   | 56-46          |  |  |  |  |  |
| 500kHz~5MHz   | © 56 56                 | 46             |  |  |  |  |  |
| 5MHz~30MHz    | 60                      | 50             |  |  |  |  |  |

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

# 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





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### 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

# 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

# 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

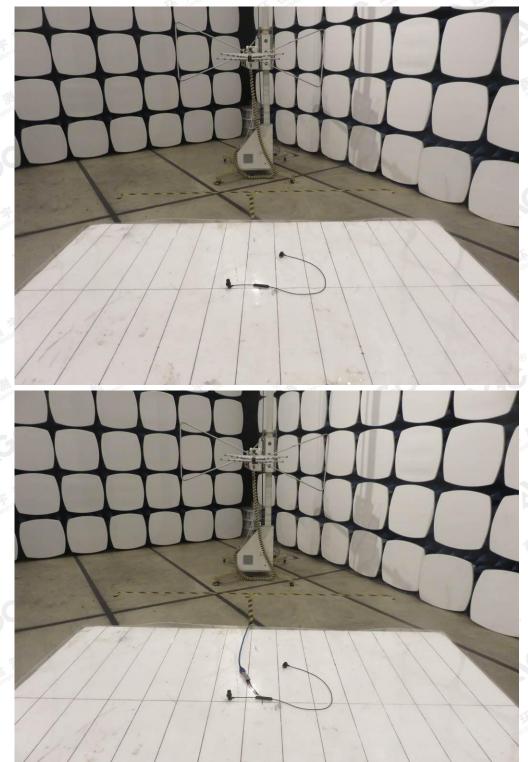
Note: The BT function of EUT didn't work when charging.





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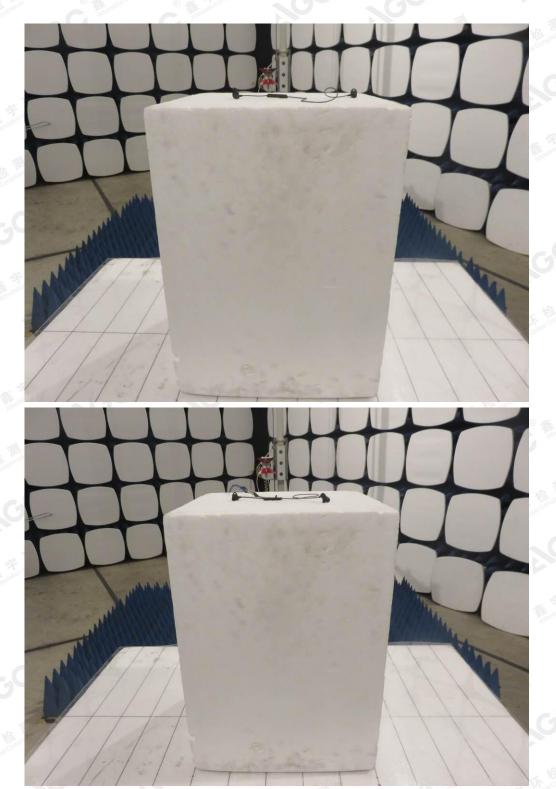
APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP







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# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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#### 50 10 100 00 -07 02 08 0,2 06 001 01 0,9 0,2 0.8

#### BOTTOM VIEW OF EUT

FRONT VIEW OF EUT







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# BACK VIEW OF EUT



LEFT VIEW OF EUT







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# **RIGHT VIEW OF EUT**



#### VIEW OF EUT (PORT)



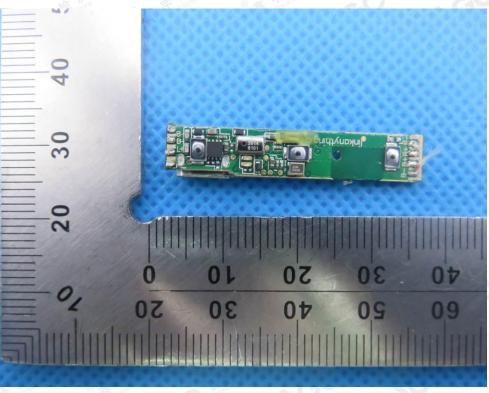




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#### **INTERNAL VIEW OF EUT-1**

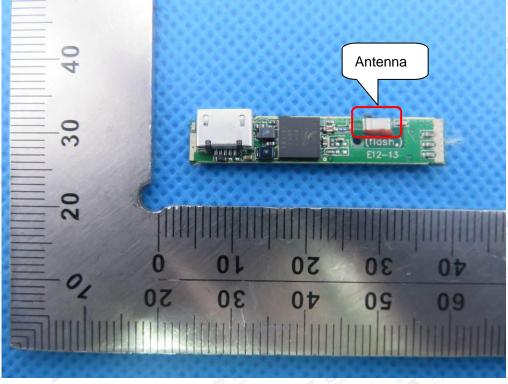






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# **INTERNAL VIEW OF EUT-2**



**INTERNAL VIEW OF EUT-3** 



# ----END OF REPORT----

