


## TEST REPORT



|           |   |
|-----------|---|
| Applicant | CT Asia   |
| Address:  | Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong |

|                          |  |  |
|--------------------------|--|--|
| Manufacturer or Supplier | Shenzhen Tinno Mobile Technology Corp.   |  |
| Address                  | 4/F., H-3 Building, OCT Eastern Industrial park, No.1 Xiangshan East Road, Nanshan District, Shenzhen, P.R.China |  |
| Product:                 | GSM mobile   |  |
| Brand Name:              | BLU  |  |
| Model:                   | Jenny  |  |
| Date of tests:           | Sep. 3 ~ Sep. 10, 2012   |  |

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

☒ **FCC Part 15, Subpart B, Class B**

**CONCLUSION:** The submitted sample was found to **COMPLY** with the test requirement

|   |  |
|---|--|
| Prepared by Kent Liu<br>Project Engineer / EMC Department                           | Approved by Sam Tung<br>Manager/ EMC Department  |
|  | <br><br>Date: Sep. 10, 2012 |

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification



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Test Report No.: FV120830N005

## RELEASE CONTROL RECORD

| ISSUE NO.        | REASON FOR CHANGE | DATE ISSUED   |
|------------------|-------------------|---------------|
| Original release | N/A               | Sep. 10, 2012 |



## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 15, Subpart B |                                       |        |  |
|--|---------------------------------------|--------|--|
| Standard Section                         | Test Item                             | Result | Remark   |
| 15.107                                   | Conducted Emission Test               | PASS   | Meet the requirement of limit. Minimum passing margin is -16.56dB at 0.18519MHz. |
| 15.109                                   | Radiated Emission Test (30MHz ~ 1GHz) | PASS   | Meets Class B Limit Minimum passing margin is -4.19dB at 419.62MHz               |
|  | Radiated Emission Test (1GHz ~ 8GHz)  | PASS   | Meets Class B Limit Minimum passing margin is -14.35dB at 5510MHz                |

### 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| MEASUREMENT         | FREQUENCY      | UNCERTAINTY |
|---------------------|----------------|-------------|
| Conducted emissions | 150kHz ~ 30MHz | +/-2.56 dB  |
| Radiated emissions  | 30MHz ~ 1GHz   | +/-3.58 dB  |
|                     | 1GHz~ 18GHz    | +/-2.2 dB   |
|                     | 18GHz~ 40GHz   | +/-1.94 dB  |



## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|  |   |
|--|---|
| <b>PRODUCT</b>                         | GSM mobile  |
| <b>MODEL NO.</b>                       | Jenny   |
| <b>FCC ID</b>                          | YHLBLUJENNYII   |
| <b>POWER SUPPLY</b>                    | 5.0Vdc (adapter or host equipment) ; 3.7Vdc (battery) |
| <b>I/O PORTS</b>                       | USB Port  |
| <b>DATA CABLE SUPPLIED</b>             | USB Cable: Shielded, Detachable, with 2 cores, 1m     |
| <b>THE HIGHEST OPERATING FREQUENCY</b> | 2.5GHz  |

**NOTE:**

- 1 The EUT was powered by the following adapter:

| ADAPTER  |  |
|----------|--|
| BRAND:   | BLU  |
| MODEL:   | US-01-001  |
| INPUT:   | 100 - 240VAC, 150mA                                    |
| OUTPUT:  | 5 VDC, 500 mA  |
| DC LINE: | 1.5 METER, NON-SHIELDED CABLE,<br>WITHOUT FERRITE CORE |

- 2 For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 3 For the test results, the EUT had been tested with all conditions. But only the worst case was showed in test report.

## 2.2 DESCRIPTION OF TEST MODES

The EUT was tested under the following mode. And the final worst mode is marked in boldface and recorded in this report.

**For conducted emission test:**

|   |
|---|
| GSM 850 Idle+Adapter+Battery+Camera+BT Idle |
| GSM1900 Idle+Adapter+Battery+MPEG4+BT Idle  |
| <b>USB Link+Battery</b>                     |

**For radiated emission test:**

|  |
|--|
| GSM 850 Idle+Adapter+Battery+Camera+BT Idle  |
| GSM1900 Idle+Earphone +Battery+MPEG4+BT Idle |
| <b>USB Link+Battery</b>                      |

## 2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT         | BRAND    | MODEL NO. | SERIAL NO.               | FCC ID    |
|-----|-----------------|----------|-----------|--------------------------|-----------|
| 1   | Notebook        | DELL     | D531      | CN-0XM006-48643-81U-2610 | N/A       |
| 2   | BT earphone     | Jabra    | GNM-OTE4  | 004WWA0678               | BCE-OTE4A |
| 3.  | Wireless Router | ABOCOM   | WR224GR   | 060500749P               | D43064    |
| 4   | Micro SD card   | Kingston | K00125    | KT02628                  | N/A       |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS                              |
|-----|--|
| 1   | AC Cable: Unshielded, Detachable, 1.8m, DC Cable: Unshielded, Undetachable, 1.5m |
| 2   | N/A  |
| 3.  | N/A  |
| 4   | N/A  |



### 3 EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dB $\mu$ V) |          |
|-----------------------------|------------------------------|----------|
|                             | Quasi-peak                   | Average  |
| 0.15 ~ 0.5                  | 66 to 56                     | 56 to 46 |
| 0.5 ~ 5                     | 56                           | 46       |
| 5 ~ 30                      | 60                           | 50       |

**NOTE:** 1. The lower limit shall apply at the transition frequencies.

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

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

##### 3.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER                | MODEL NO.       | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|-----------------|------------|---------------------|-------------------------|
| EMI Test Receiver<br>Rohde&Schwarz        | ESU 26          | 100005     | May 15,12           | May 14,13               |
| Artificial Mains Network<br>Rohde&Schwarz | ENV216          | 101173     | May 15,12           | May 14,13               |
| Artificial Mains Network<br>Rohde&Schwarz | ESH2-Z5         | 100071     | May 15,12           | May 14,13               |
| Test software                             | ADT_Conc_V7.3.7 | N/A        | N/A                 | N/A                     |

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA

2. The test was performed in Dongguan Shielded Room 553.



### 3.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

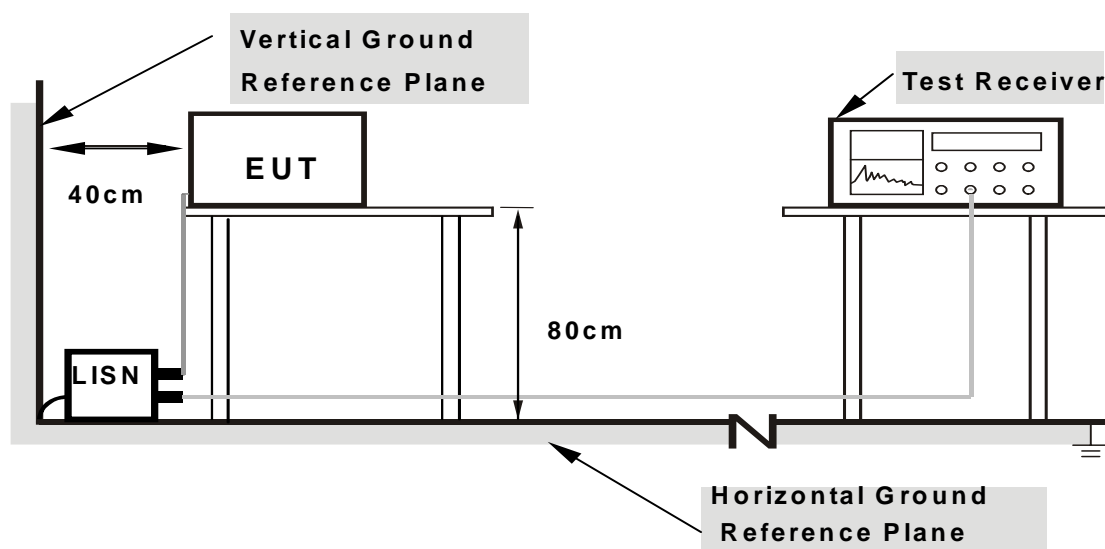
### 3.1.4 DEVIATION FROM TEST STANDARD

No deviation.





### 3.1.5 TEST SETUP



- Note:** 1.Support units were connected to second LISN.  
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 3.1.6 EUT OPERATING CONDITIONS

- Turned on the power and connected of all equipment.
- EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



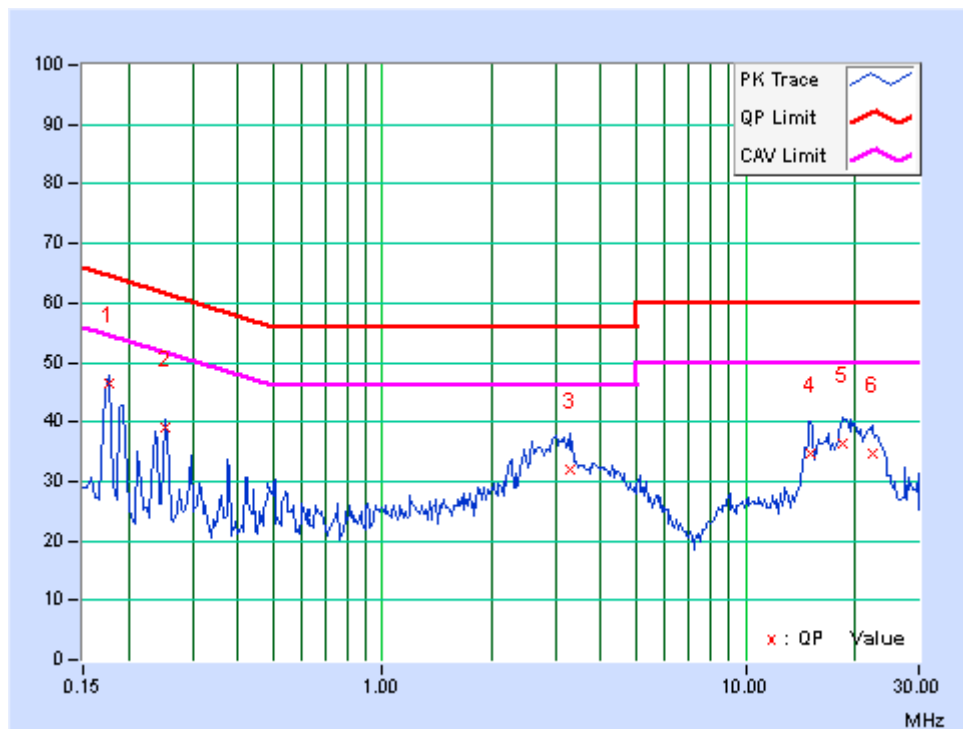
## 3.1.7 TEST RESULTS

## CONDUCTED WORST-CASE DATA

|       |        |               |      |
|-------|--------|---------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
|-------|--------|---------------|------|

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] |       | Emission Level [dB (uV)] |       | Limit [dB (uV)] |       | Margin (dB) |        |
|----|-------------|-------------------|-------------------------|-------|--------------------------|-------|-----------------|-------|-------------|--------|
|    |             |                   | Q.P.                    | AV.   | Q.P.                     | AV.   | Q.P.            | AV.   | Q.P.        | AV.    |
| 1  | 0.17737     | 9.79              | 36.55                   | 18.78 | 46.34                    | 28.57 | 64.61           | 54.61 | -18.27      | -26.04 |
| 2  | 0.25166     | 9.76              | 29.17                   | 13.58 | 38.93                    | 23.34 | 61.7            | 51.7  | -22.77      | -28.36 |
| 3  | 3.27693     | 9.92              | 22.16                   | 14.68 | 32.08                    | 24.6  | 56              | 46    | -23.92      | -21.4  |
| 4  | 15.0734     | 10.13             | 24.67                   | 16.89 | 34.8                     | 27.02 | 60              | 50    | -25.2       | -22.98 |
| 5  | 18.4751     | 10.17             | 26.2                    | 17.96 | 36.37                    | 28.13 | 60              | 50    | -23.63      | -21.87 |
| 6  | 22.27953    | 10.26             | 24.41                   | 17.54 | 34.67                    | 27.8  | 60              | 50    | -25.33      | -22.2  |

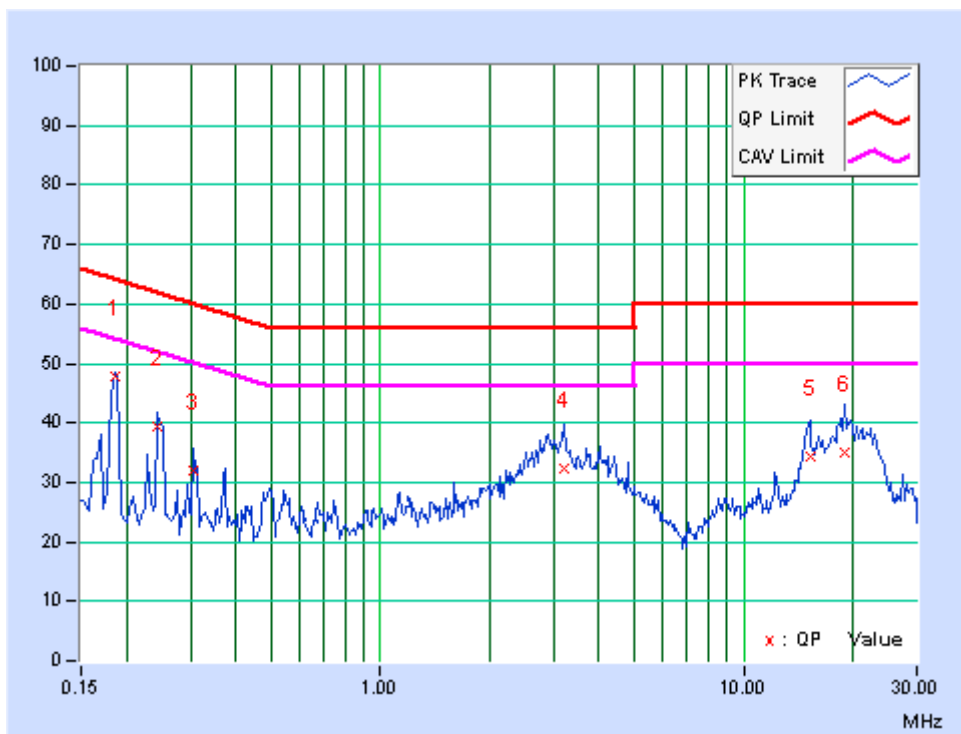
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.  
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.  
3. The emission levels of other frequencies were very low against the limit.  
4. Margin value = Emission level - Limit value  
5. Correction factor = Insertion loss + Cable loss  
6. Emission Level = Correction Factor + Reading Value.



|       |         |               |      |
|-------|---------|---------------|------|
| PHASE | Neutral | 6dB BANDWIDTH | 9kHz |
|-------|---------|---------------|------|

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] |       | Emission Level [dB (uV)] |       | Limit [dB (uV)] |       | Margin (dB) |        |
|----|-------------|-------------------|-------------------------|-------|--------------------------|-------|-----------------|-------|-------------|--------|
|    |             |                   | Q.P.                    | AV.   | Q.P.                     | AV.   | Q.P.            | AV.   | Q.P.        | AV.    |
| 1  | 0.18519     | 9.82              | 37.87                   | 24.82 | 47.69                    | 34.64 | 64.25           | 54.25 | -16.56      | -19.61 |
| 2  | 0.24384     | 9.78              | 29.53                   | 16.53 | 39.31                    | 26.31 | 61.96           | 51.96 | -22.65      | -25.65 |
| 3  | 0.3064      | 9.79              | 22.26                   | 11.21 | 32.05                    | 21    | 60.07           | 50.07 | -28.02      | -29.07 |
| 4  | 3.21437     | 9.9               | 22.43                   | 14.6  | 32.33                    | 24.5  | 56              | 46    | -23.67      | -21.5  |
| 5  | 15.2298     | 10.15             | 24.29                   | 15.16 | 34.44                    | 25.31 | 60              | 50    | -25.56      | -24.69 |
| 6  | 19.10461    | 10.29             | 24.67                   | 17.51 | 34.96                    | 27.8  | 60              | 50    | -25.04      | -22.2  |

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.





## 3.2 RADIATED EMISSION MEASUREMENT

### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

**TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)**

| FREQUENCY<br>(MHz) | Class A (at 10m) |        | Class B (at 3m) |        |
|--------------------|------------------|--------|-----------------|--------|
|                    | uV/m             | dBuV/m | uV/m            | dBuV/m |
| 30 – 88            | 90               | 39.1   | 100             | 40.0   |
| 88 – 216           | 150              | 43.5   | 150             | 43.5   |
| 216 – 960          | 210              | 46.4   | 200             | 46.0   |
| 960 – 1000         | 300              | 49.5   | 500             | 54.0   |

According to FCC Part 15, Subpart B (Section: 15.109), CISPR22 Limits and Methods of Measurement is applicable as an alternative to the radiated emission limits shown in above table.

| FREQUENCY<br>(MHz) | Class A (at 10m) | Class B (at 10m) |
|--------------------|------------------|------------------|
|                    | dBuV/m           | dBuV/m           |
| 30 – 230           | 40               | 30               |
| 230 – 1000         | 47               | 37               |



## FREQUENCY RANGE OF RADIATED MEASUREMENT

(For unintentional radiators)

| Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz) | Range (MHz)   |
|---|---|
| Below 1.705   | 30  |
| 1.705 – 108   | 1000  |
| 108 – 500   | 2000  |
| 500 – 1000  | 5000  |
| Above 1000  | 5th harmonic of the highest frequency or 40 GHz, whichever is lower |

## LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

| FREQUENCY (MHz) | Class A (dBuV/m) (at 3m) |         | Class B (dBuV/m) (at 3m) |         |
|-----------------|--------------------------|---------|--------------------------|---------|
|                 | PEAK                     | AVERAGE | PEAK                     | AVERAGE |
| Above 1000      | 80.0                     | 60.0    | 74.0                     | 54.0    |

Note: (1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



### 3.2.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER                                 | MODEL NO.                | SERIAL NO.      | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|--|--------------------------|-----------------|---------------------|-------------------------|
| Spectrum Analyzer<br>ROHDE & SCHWARZ                       | E4446A                   | MY46180622      | May 02, 12          | May 01, 13              |
| Test Receiver<br>ROHDE & SCHWARZ                           | ESVD                     | 847398/003      | May 15,12           | May 14,13               |
| Bilog Antenna<br>TESEQ                                     | CBL 6111D                | 27089           | July 16,12          | July 15,13              |
| Horn Antenna<br>EMCO                                       | 3117                     | 00062558        | Nov.07,11           | Nov.07,12               |
| 10m Semi-anechoic<br>Chamber<br>ETS-LINDGREN               | 21.4m*12.1m*8.8m         | NSEMC006        | Mar 24,12           | Mar 23,13               |
| RF Cable<br>IMRO   | IMRO-400                 | 10m Cable 1#10m | May 16,12           | May 15,13               |
| RF Cable<br>IMRO   | IMRO-400                 | 10m Cable 2#3m  | May 16,12           | May 15,13               |
| Signal Amplifier<br>SONOMA                                 | 310N                     | 186955          | Mar. 14,12          | Mar. 13,13              |
| Signal Amplifier<br>HP                                     | 8449B                    | 3008A00409      | May 31,12           | May 30,13               |
| RF Cable<br>DRAKA  | M06/25-RG102             | 10m Cable 2#    | May 16,12           | May 15,13               |
| Universal Radio<br>Communication Tester<br>Rohde & Schwarz | CMU 200                  | 123259          | Apr 16,12           | Apr 15,13               |
| Test software<br>ADT                                       | ADT_Radiated_V7.<br>6.15 | N/A             | N/A                 | N/A                     |

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA.
  2. The test was performed in Dongguan Chamber 10m.
  3. The horn antenna are used only for the measurement of emission frequency above 1GHz if tested.

### 3.2.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2009 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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.
- d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

**NOTE:**

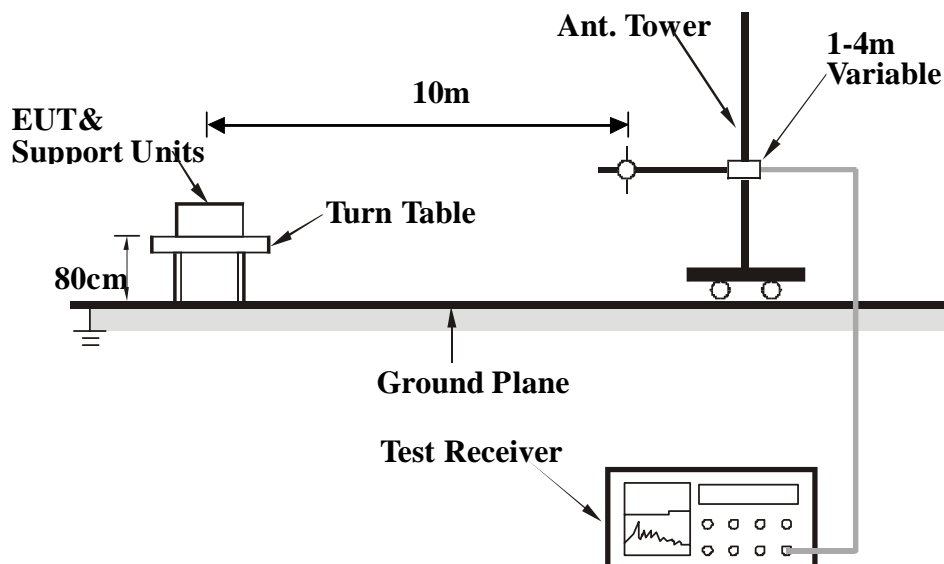
1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
4.  $\text{Emission level(dBuV/m)} = \text{Raw Value(dBuV)} + \text{Correction Factor(dB/m)}$
5.  $\text{Correction Factor(dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)}$
6.  $\text{Margin value} = \text{Emission level} - \text{Limit value.}$

### 3.2.4 DEVIATION FROM TEST STANDARD

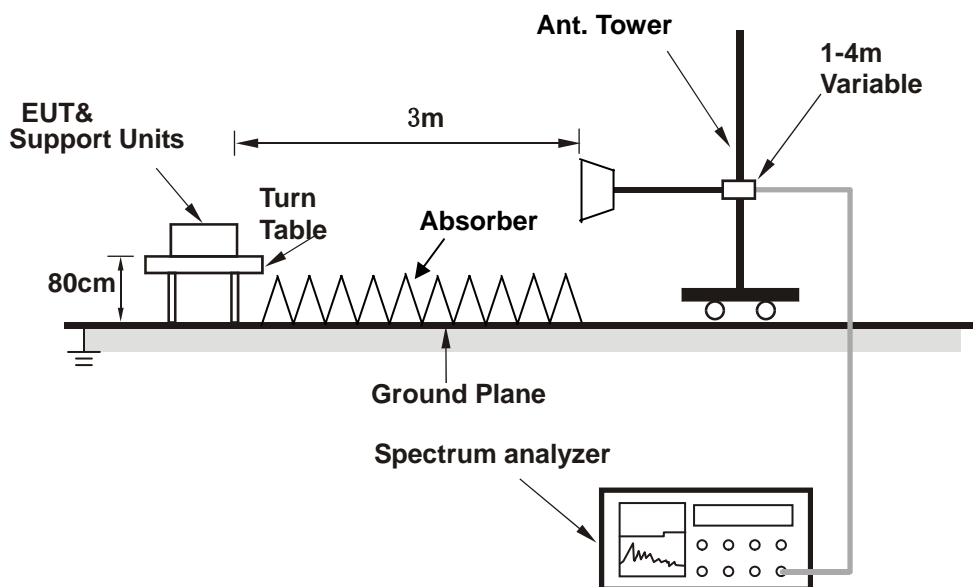
No deviation

### 3.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



### 3.2.6 EUT OPERATING CONDITIONS

Same as item 3.1.6.



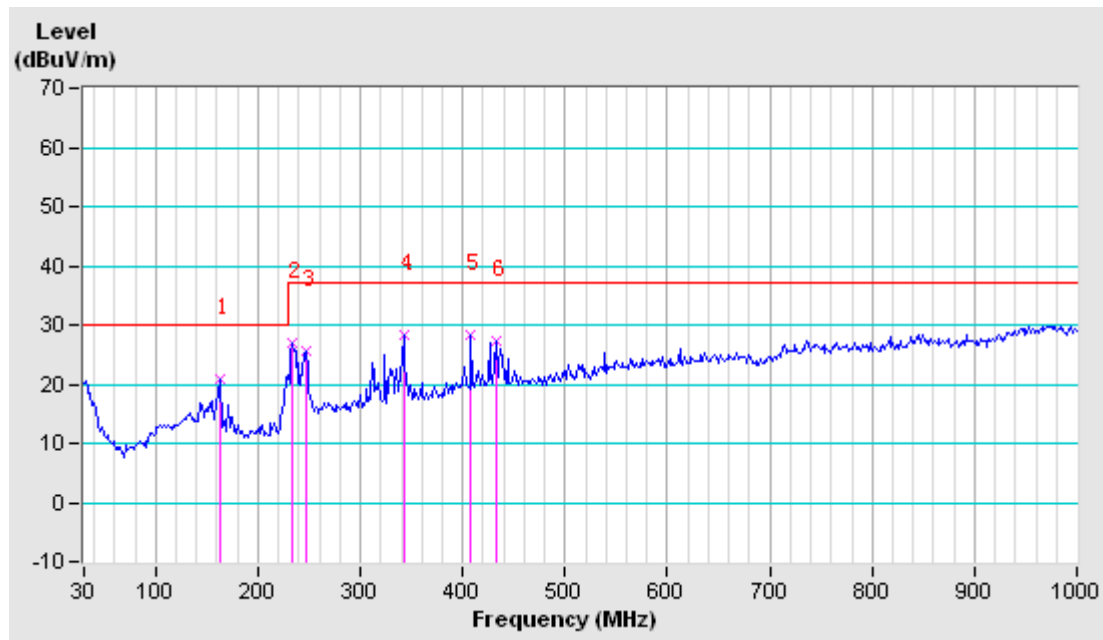


### 3.2.7 TEST RESULTS (BELOW 1GHz)

|                                 |                  |   |                    |
|---------------------------------|------------------|---|--------------------|
| <b>TEST MODE</b>                | USB Link+Battey  | <b>FREQUENCY RANGE</b>                              | 30-1000MHz         |
| <b>TEST VOLTAGE</b>             | AC 120V/60Hz     | <b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b> | Quasi-Peak, 120kHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 26deg. C, 56% RH | <b>TESTED BY:</b> Grace                             |                    |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M |             |                          |                  |                         |                |             |                     |                      |
|--|-------------|--------------------------|------------------|-------------------------|----------------|-------------|---------------------|----------------------|
| No.  | Freq. (MHz) | Correction Factor (dB/m) | Raw Value (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (cm) | Table Angle (Degree) |
| 1  | 162.57      | 11.79                    | 9.16             | 20.95                   | 30             | -9.05       | 100                 | 27                   |
| 2  | 233.7       | 12.57                    | 14.42            | 26.99                   | 37             | -10.01      | 100                 | 62                   |
| 3  | 246.63      | 13.97                    | 11.76            | 25.73                   | 37             | -11.27      | 189                 | 225                  |
| 4  | 342.02      | 16.62                    | 11.74            | 28.36                   | 37             | -8.64       | 106                 | 116                  |
| 5  | 408.3       | 18.72                    | 9.58             | 28.3                    | 37             | -8.7        | 135                 | 154                  |
| 6  | 432.55      | 19.29                    | 8.02             | 27.31                   | 37             | -9.69       | 163                 | 191                  |

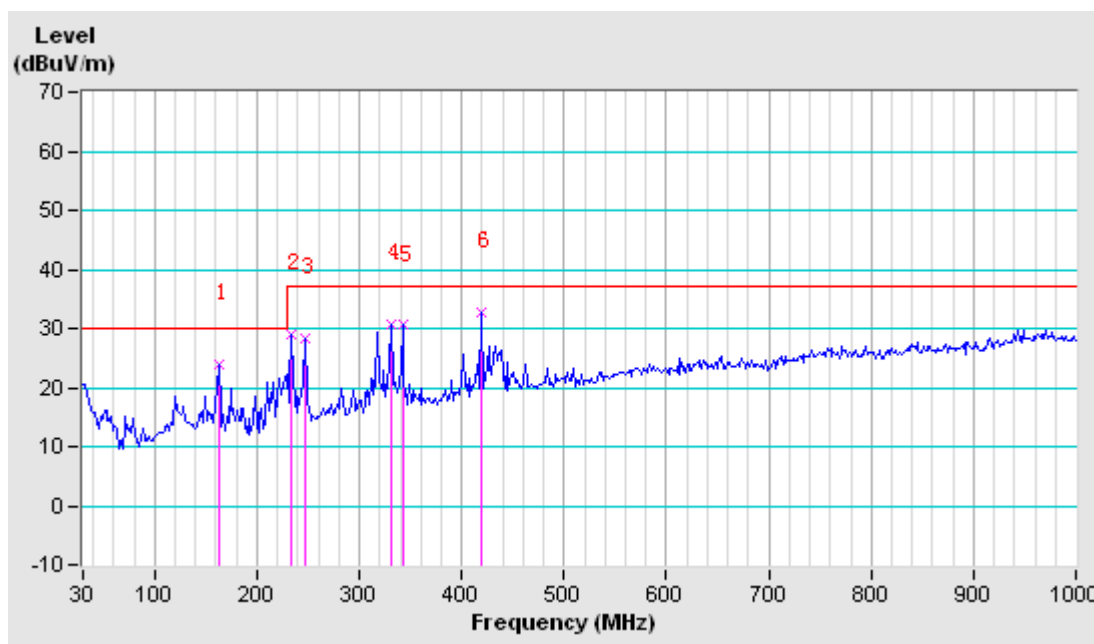
**REMARKS:** The emission levels of other frequencies were very low against the limit.



|                                 |                  |   |                    |
|---------------------------------|------------------|---|--------------------|
| <b>TEST MODE</b>                | USB Link+Battey  | <b>FREQUENCY RANGE</b>                              | 30-1000MHz         |
| <b>TEST VOLTAGE</b>             | AC 120V/60Hz     | <b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b> | Quasi-Peak, 120kHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 26deg. C, 56% RH | <b>TESTED BY:</b> Grace                             |                    |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 10 M</b> |             |                          |                  |                         |                |             |                     |                      |
|---|-------------|--------------------------|------------------|-------------------------|----------------|-------------|---------------------|----------------------|
| No.   | Freq. (MHz) | Correction Factor (dB/m) | Raw Value (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (cm) | Table Angle (Degree) |
| 1   | 162.57      | 11.79                    | 12.08            | 23.87                   | 30             | -6.13       | 100                 | 133                  |
| 2   | 233.7       | 12.57                    | 16.4             | 28.97                   | 37             | -8.03       | 100                 | 172                  |
| 3   | 246.63      | 13.97                    | 14.3             | 28.27                   | 37             | -8.73       | 100                 | 103                  |
| 4   | 330.7       | 16.18                    | 14.65            | 30.83                   | 37             | -6.17       | 100                 | 253                  |
| 5   | 342.02      | 16.62                    | 13.89            | 30.51                   | 37             | -6.49       | 100                 | 355                  |
| 6   | 419.62      | 19.04                    | 13.77            | 32.81                   | 37             | -4.19       | 100                 | 307                  |

**REMARKS:** The emission levels of other frequencies were very low against the limit.



**3.2.8 TEST RESULTS (ABOVE 1GHz)**

|                                 |                  |   |               |
|---------------------------------|------------------|---|---------------|
| <b>TEST MODE</b>                | USB Link+Battery | <b>FREQUENCY RANGE</b>                              | 1000-13000MHz |
| <b>TEST VOLTAGE</b>             | AC 120V/60Hz     | <b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b> | AV/Peak, 1MHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 26deg. C, 56% RH | <b>TESTED BY:</b> Grace                             |               |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                          |                  |                         |                |              |                     |                      |
|---|------------------|--------------------------|------------------|-------------------------|----------------|--------------|---------------------|----------------------|
| No.   | Freq. (MHz)      | Correction Factor (dB/m) | Raw Value (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB)  | Antenna Height (cm) | Table Angle (Degree) |
| 1   | 4585 (AV)        | 49.32                    | -1.73            | 47.59                   | 54             | -6.41        | 100                 | 0                    |
| 2   | 4585 (PK)        | 49.32                    | 8.87             | 58.19                   | 74             | -15.81       | 100                 | 0                    |
| 3   | <b>5500 (AV)</b> | <b>50.57</b>             | <b>-1.75</b>     | <b>48.82</b>            | <b>54</b>      | <b>-5.18</b> | <b>100</b>          | <b>0</b>             |
| 4   | 5500 (PK)        | 50.57                    | 8.06             | 58.63                   | 74             | -15.37       | 100                 | 0                    |
| 5   | 6415 (AV)        | 48.63                    | -1               | 47.63                   | 54             | -6.37        | 100                 | 0                    |
| 6   | 6415 (PK)        | 48.63                    | 9.17             | 57.8                    | 74             | -16.2        | 100                 | 0                    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                  |                          |                  |                         |                |              |                     |                      |
| No.   | Freq. (MHz)      | Correction Factor (dB/m) | Raw Value (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB)  | Antenna Height (cm) | Table Angle (Degree) |
| 1   | 4563 (AV)        | 49.32                    | -1.12            | 48.2                    | 54             | -5.8         | 100                 | 20                   |
| 2   | 4563 (PK)        | 49.32                    | 8.64             | 57.96                   | 74             | -16.04       | 100                 | 20                   |
| 3   | 5510 (AV)        | 50.54                    | -2.65            | 47.89                   | 54             | -6.11        | 100                 | 0                    |
| 4   | 5510 (PK)        | 50.54                    | 9.11             | 59.65                   | 74             | -14.35       | 100                 | 0                    |
| 5   | 6415 (AV)        | 48.63                    | -0.09            | 48.54                   | 54             | -5.46        | 100                 | 0                    |
| 6   | 6415 (PK)        | 48.63                    | 9.17             | 57.8                    | 74             | -16.2        | 100                 | 0                    |

**REMARKS:** The emission levels of other frequencies were very low against the limit.



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## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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## 5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

---END---