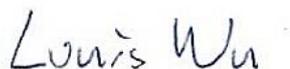


# FCC Test Report

APPLICANT : ZTE CORPORATION  
EQUIPMENT : CDMA/EVDO/LTE CPE  
BRAND NAME : ZTE  
MODEL NAME : MF275U  
FCC ID : SRQ-MF275U  
STANDARD : FCC 47 CFR FCC Part 15 Subpart B  
CLASSIFICATION : Certification

The product was received on May 06, 2014 and testing was completed on May 30, 2014. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2003 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.



Reviewed by: Louis Wu / Manager



Approved by: Jones Tsai / Manager



**SPORTON INTERNATIONAL (KUNSHAN) INC.**  
**No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. C.**



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APPENDIX A. SETUP PHOTOGRAPHS





### SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description           | Limit           | Result | Remark                                  |
|----------------|----------|-----------------------|-----------------|--------|---|
| 3.1            | 15.107   | AC Conducted Emission | < 15.107 limits | PASS   | Under limit<br>4.81 dB at<br>1.590 MHz  |
| 3.2            | 15.109   | Radiated Emission     | < 15.109 limits | PASS   | Under limit<br>8.42 dB at<br>42.610 MHz |

## 1. General Description

### 1.1. Applicant

**ZTE CORPORATION**

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P. R. China

### 1.2. Manufacturer

**ZTE CORPORATION**

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P. R. China

### 1.3. Feature of Equipment Under Test

| Product Feature                 |  |
|---------------------------------|--|
| Equipment                       | CDMA/EVDO/LTE CPE  |
| Brand Name                      | ZTE  |
| Model Name                      | MF275U   |
| FCC ID                          | SRQ-MF275U   |
| EUT supports Radios application | CDMA/EV-DO/LTE/<br>WLAN 2.4GHz 802.11b/g/n HT20/HT40/<br>WLAN 5GHz 802.11a/n HT20/HT40 |
| HW Version                      | dcmB   |
| SW Version                      | MF275U1.0.3  |
| EUT Stage                       | Identical Prototype  |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

### 1.4. Product Specification of Equipment Under Test

| Product Specification subjective to this standard |   |
|---|---|
| <b>Tx Frequency</b>                               | CDMA2000 BC0 : 824.70 MHz ~ 848.31 MHz<br>CDMA2000 BC1 : 1851.25 MHz ~ 1908.75 MHz<br>LTE Band 5 : 824.7 MHz ~ 848.3 MHz<br>LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz<br>LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz<br>LTE Band 12 : 699.7 MHz ~ 715.3 MHz<br>LTE Band 17 : 706.5 MHz ~ 713.5 MHz<br>802.11b/g/n: 2412 MHz ~ 2462 MHz<br>802.11a/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz;<br>5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz ;<br>5745 MHz ~ 5805 MHz                      |
| <b>Rx Frequency</b>                               | CDMA2000 BC0 : 869.70 MHz ~ 893.31 MHz<br>CDMA2000 BC1 : 1931.25 MHz ~ 1988.75 MHz<br>LTE Band 5 : 869.7 MHz ~ 893.3 MHz<br>LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz<br>LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz<br>LTE Band 12 : 729.7 MHz ~ 745.3 MHz<br>LTE Band 17 : 736.5 MHz ~ 743.5 MHz<br>802.11b/g/n: 2412 MHz ~ 2462 MHz<br>802.11a/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz;<br>5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz ;<br>5745 MHz ~ 5805 MHz<br>GPS : 1.57542 GHz |
| <b>Antenna Type</b>                               | WWAN : Dipole Antenna<br>WLAN Chain Port 0: Dipole Antenna<br>WLAN Chain Port 1: Dipole Antenna   |
| <b>Type of Modulation</b>                         | CDMA2000 1xRTT: QPSK<br>CDMA2000 1xEV-DO : QPSK/8PSK<br>LTE: QPSK / 16QAM<br>802.11b : DSSS (DBPSK / DQPSK / CCK)<br>802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>GPS : BPSK   |

## 1.5. Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6. Test Location

|                           |  |           |                             |
|---------------------------|--|-----------|-----------------------------|
| <b>Test Site</b>          | SPORTON INTERNATIONAL (KUNSHAN) INC.   |           |                             |
| <b>Test Site Location</b> | No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.<br>TEL: +86-0512-5790-0158<br>FAX: +86-0512-5790-0958 |           |                             |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>  |           | <b>FCC Registration No.</b> |
|                           | CO01-KS  | 03CH01-KS | 149928                      |

## 1.7. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

| Item | EUT Configuration                | Test Condition |           |           |
|------|----------------------------------|----------------|-----------|-----------|
|      |                                  | EMI AC         | EMI RE<1G | EMI RE≥1G |
| 1.   | Charging Mode (EUT with adapter) | ☒              | ☒         | Note 1    |

**Abbreviations:**

- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

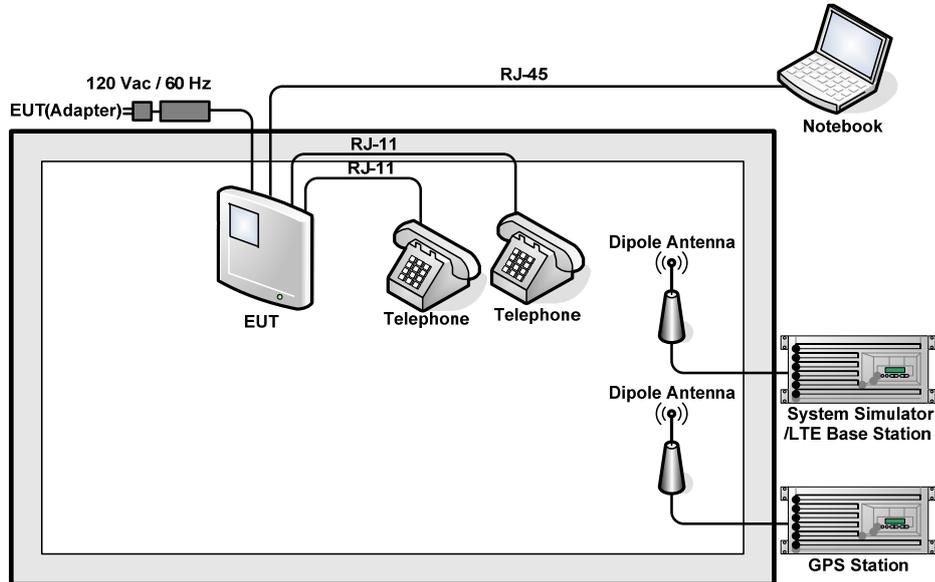
**Note 1:** Testing for this mode is not required or not the worst case.

| Test Items                | EUT Configure Mode | Function Type  |
|---------------------------|--------------------|--|
| AC Conducted Emission     | 1                  | Mode 1: CDMA2000 BC0 Idle + Adapter + WLAN 2.4GHz Idle + LAN Link + Phone Link + GPS Rx<br>Mode 2: LTE Band 2 Idle + Adapter + WLAN 5GHz Idle + LAN Link + Phone Link + GPS Rx |
| Radiated Emissions < 1GHz | 1                  | Mode 1: CDMA2000 BC0 Idle + Adapter + WLAN 2.4GHz Idle + LAN Link + Phone Link + GPS Rx<br>Mode 2: LTE Band 2 Idle + Adapter + WLAN 5GHz Idle + LAN Link + Phone Link + GPS Rx |
| Radiated Emissions ≥ 1GHz | 1                  | Mode 1: CDMA2000 BC0 Idle + Adapter + WLAN 2.4GHz Idle + LAN Link + Phone Link + GPS Rx  |

**Remark:**

1. The worst case of AC is mode 1; only the test data of this mode is reported.
2. The worst case of RE < 1G is mode 1; only the test data of this mode is reported.

## 2.2. Connection Diagram of Test System



## 2.3. Support Unit used in test configuration and system

| Item | Equipment        | Trade Name | Model Name      | FCC ID | Data Cable | Power Cord   |
|------|------------------|------------|-----------------|--------|------------|--|
| 1.   | System Simulator | R&S        | CMU 200         | N/A    | N/A        | Unshielded, 1.8 m  |
| 2.   | LTE Base Station | Anritus    | MT8820C         | N/A    | N/A        | Unshielded, 1.8 m  |
| 3.   | Telephone        | bubugao    | HCD007(6082)TSD | N/A    | N/A        | N/A  |
| 4.   | Telephone        | bubugao    | HCD007(6082)TSD | N/A    | N/A        | N/A  |
| 5.   | Notebook         | Lenovo     | G480            | PRC4   | N/A        | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |

## 2.4. EUT Operation Test Setup

The EUT was in CDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and was in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the following programs installed in the EUT were programmed during the test.

1. EUT is connected with Notebook via RJ-45 cable.
2. Execute "PING IP" function under the "cmd" of Window system to transfer packet bi-directionally between the EUT and supported units, notebook.
3. Monitor the packet loss by seeing the window of "cmd" the notebook display.
4. EUT is connected with telephone via RJ-11 cable.
5. Execute "PING IP" function to make a phone call between the EUT and PSTN phone. After generating the phone call, the microphone status of "Ping IP" would be set to mute.
6. The phone call is monitored by checking whether there are some abnormal operations of the PSTN or dropped calls phone during test.

### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

##### 3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission<br>(MHz) | Conducted limit (dBuV) |           |
|--------------------------------|------------------------|-----------|
|                                | Quasi-peak             | Average   |
| 0.15-0.5                       | 66 to 56*              | 56 to 46* |
| 0.5-5                          | 56                     | 46        |
| 5-30                           | 60                     | 50        |

\*Decreases with the logarithm of the frequency.

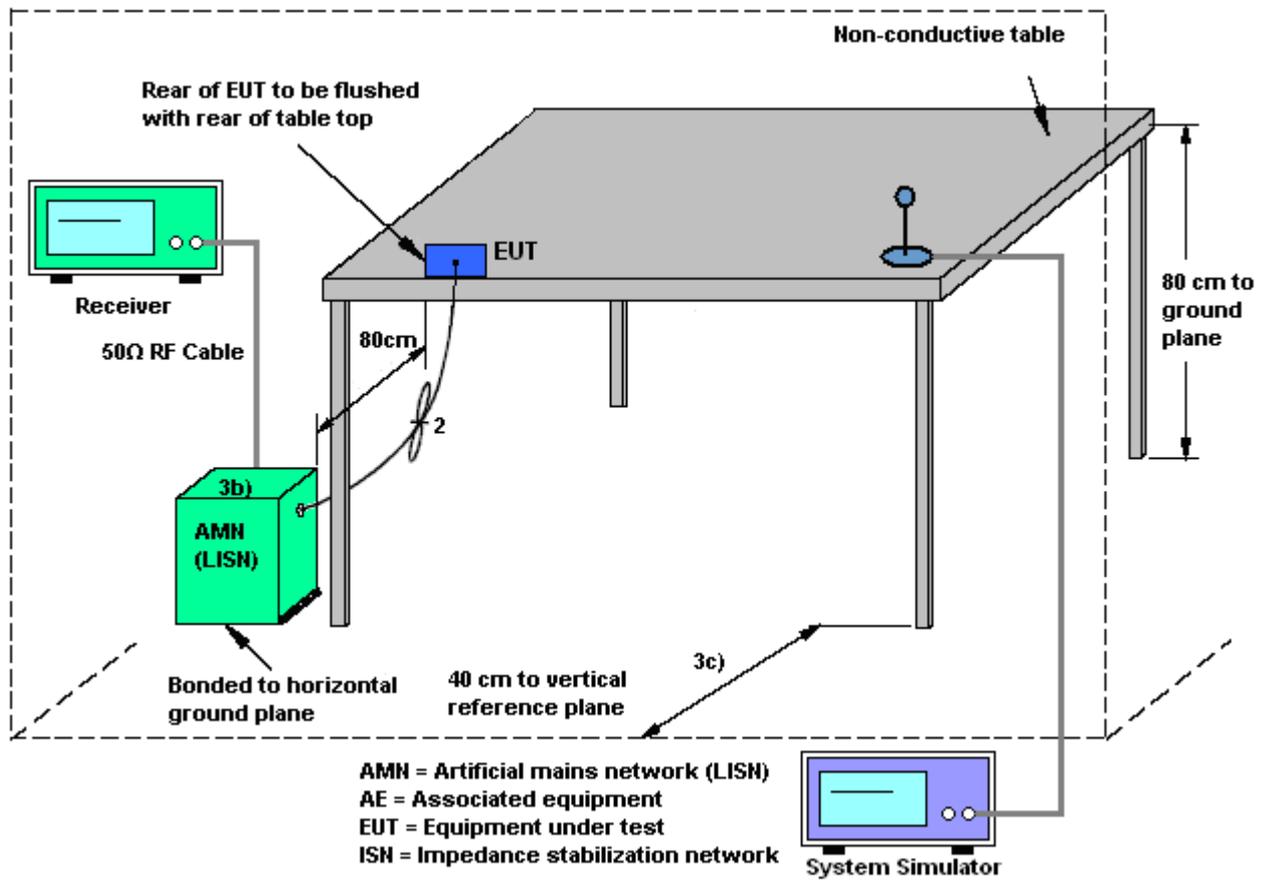
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

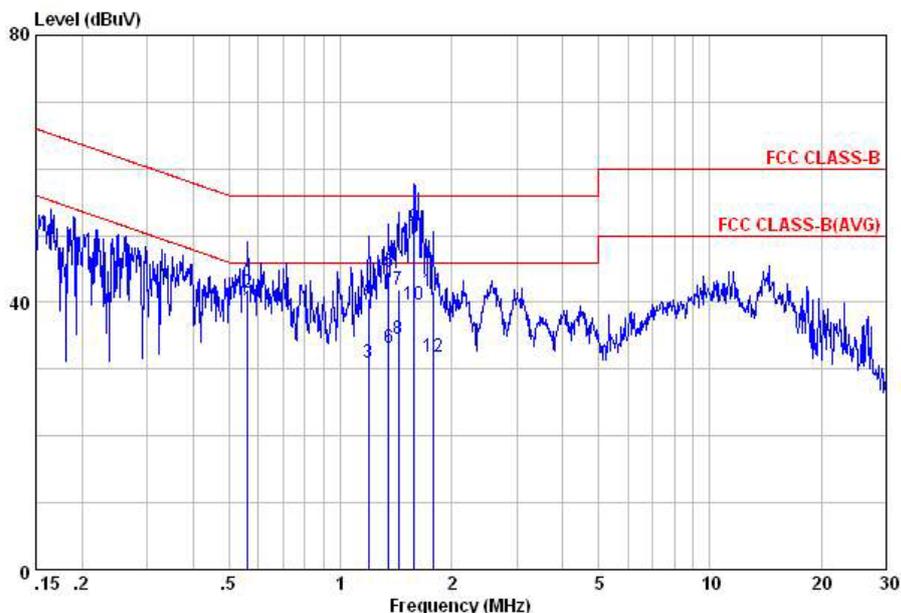
### 3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

|                 |   |                     |         |
|-----------------|---|---------------------|---------|
| Test Mode :     | Mode 1  | Temperature :       | 22~24°C |
| Test Engineer : | Eligah Wang   | Relative Humidity : | 35~40%  |
| Test Voltage :  | 120Vac / 60Hz   | Phase :             | Line    |
| Function Type : | CDMA2000 BC0 Idle + Adapter + WLAN 2.4GHz Idle + LAN Link + Phone Link + GPS Rx |                     |         |

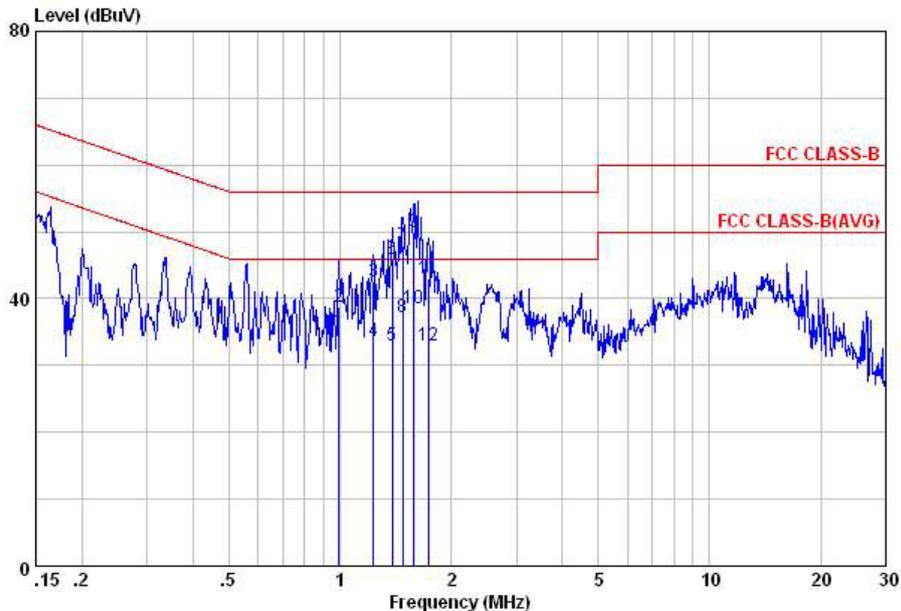


Site : C001-KS  
 Condition: FCC CLASS-B LISN-L20130306 LINE  
 Project : (FC) 450602  
 mode : Mode 1

|    | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark  |
|----|------|-------|------------|------------|------------|-------------|------------|---------|
|    | MHz  | dBuV  | dB         | dBuV       | dBuV       | dB          | dB         |         |
| 1  | 0.56 | 39.05 | -6.95      | 46.00      | 28.60      | 0.20        | 10.25      | Average |
| 2  | 0.56 | 41.35 | -14.65     | 56.00      | 30.90      | 0.20        | 10.25      | QP      |
| 3  | 1.19 | 30.88 | -15.12     | 46.00      | 20.60      | 0.10        | 10.18      | Average |
| 4  | 1.19 | 40.58 | -15.42     | 56.00      | 30.30      | 0.10        | 10.18      | QP      |
| 5  | 1.35 | 44.58 | -11.42     | 56.00      | 34.30      | 0.10        | 10.18      | QP      |
| 6  | 1.35 | 33.18 | -12.82     | 46.00      | 22.90      | 0.10        | 10.18      | Average |
| 7  | 1.43 | 41.89 | -14.11     | 56.00      | 31.60      | 0.10        | 10.19      | QP      |
| 8  | 1.43 | 34.59 | -11.41     | 46.00      | 24.30      | 0.10        | 10.19      | Average |
| 9  | 1.59 | 51.19 | -4.81      | 56.00      | 40.90      | 0.10        | 10.19      | QP      |
| 10 | 1.59 | 39.59 | -6.41      | 46.00      | 29.30      | 0.10        | 10.19      | Average |
| 11 | 1.78 | 41.59 | -14.41     | 56.00      | 31.30      | 0.10        | 10.19      | QP      |
| 12 | 1.78 | 31.89 | -14.11     | 46.00      | 21.60      | 0.10        | 10.19      | Average |



|                 |   |                     |         |
|-----------------|---|---------------------|---------|
| Test Mode :     | Mode 1  | Temperature :       | 22~24°C |
| Test Engineer : | Eligah Wang   | Relative Humidity : | 35~40%  |
| Test Voltage :  | 120Vac / 60Hz   | Phase :             | Neutral |
| Function Type : | CDMA2000 BC0 Idle + Adapter + WLAN 2.4GHz Idle + LAN Link + Phone Link + GPS Rx |                     |         |



Site : C001-KS  
 Condition: FCC CLASS-B LISN-N20130306 NEUTRAL  
 Project : (FC) 450602  
 mode : Mode 1

|    | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark  |
|----|------|-------|------------|------------|------------|-------------|------------|---------|
|    | MHz  | dBuV  | dB         | dBuV       | dBuV       | dB          | dB         |         |
| 1  | 0.99 | 35.18 | -10.82     | 46.00      | 24.90      | 0.10        | 10.18      | Average |
| 2  | 0.99 | 38.88 | -17.12     | 56.00      | 28.60      | 0.10        | 10.18      | QP      |
| 3  | 1.23 | 42.58 | -13.42     | 56.00      | 32.30      | 0.10        | 10.18      | QP      |
| 4  | 1.23 | 33.58 | -12.42     | 46.00      | 23.30      | 0.10        | 10.18      | Average |
| 5  | 1.38 | 33.08 | -12.92     | 46.00      | 22.80      | 0.10        | 10.18      | Average |
| 6  | 1.38 | 45.88 | -10.12     | 56.00      | 35.60      | 0.10        | 10.18      | QP      |
| 7  | 1.48 | 47.89 | -8.11      | 56.00      | 37.60      | 0.10        | 10.19      | QP      |
| 8  | 1.48 | 37.19 | -8.81      | 46.00      | 26.90      | 0.10        | 10.19      | Average |
| 9  | 1.59 | 49.89 | -6.11      | 56.00      | 39.60      | 0.10        | 10.19      | QP      |
| 10 | 1.59 | 38.59 | -7.41      | 46.00      | 28.30      | 0.10        | 10.19      | Average |
| 11 | 1.73 | 43.09 | -12.91     | 56.00      | 32.80      | 0.10        | 10.19      | QP      |
| 12 | 1.73 | 33.09 | -12.91     | 46.00      | 22.80      | 0.10        | 10.19      | Average |

## 3.2. Test of Radiated Emission Measurement

### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 30 – 88         | 100                               | 3                             |
| 88 – 216        | 150                               | 3                             |
| 216 - 960       | 200                               | 3                             |
| Above 960       | 500                               | 3                             |

### 3.2.2. Measuring Instruments

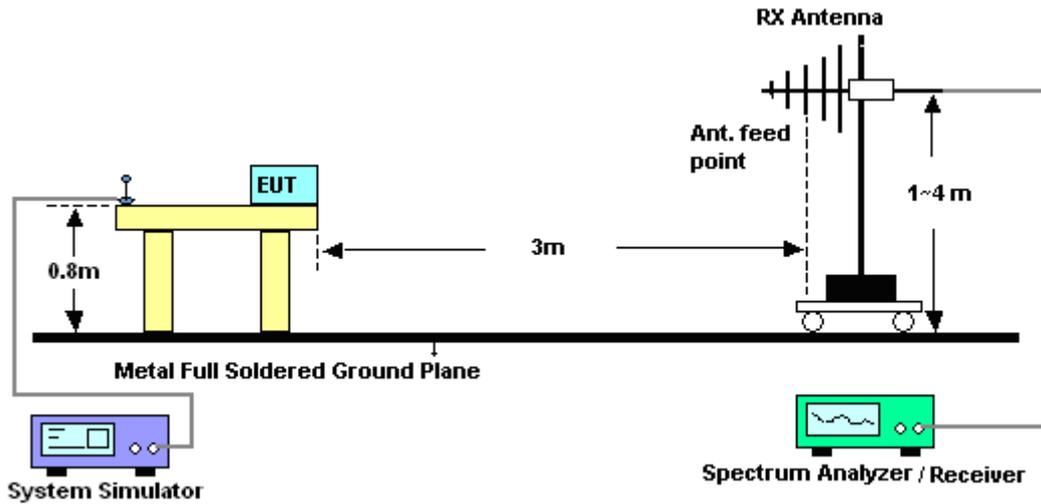
The measuring equipment is listed in the section 4 of this test report.

### 3.2.3. Test Procedures

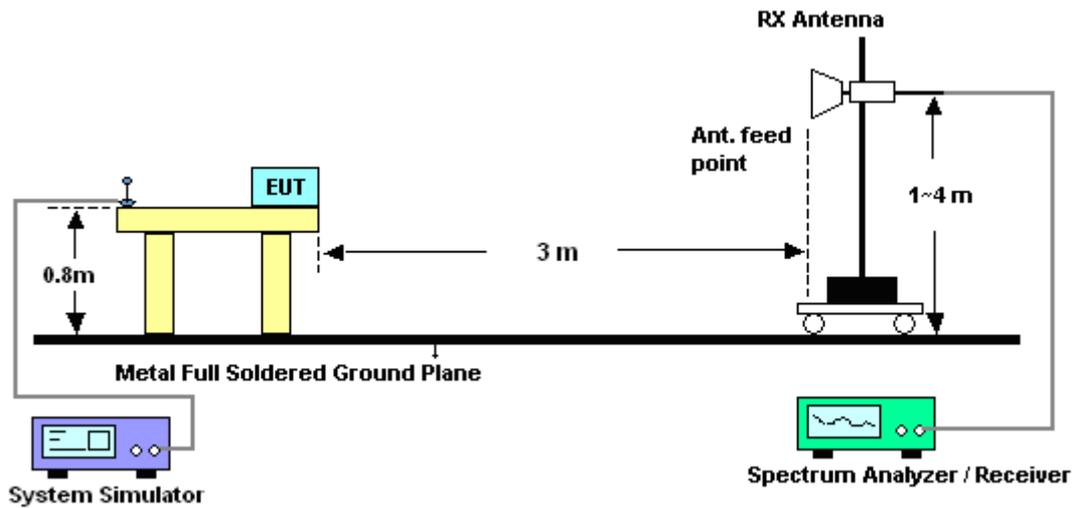
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



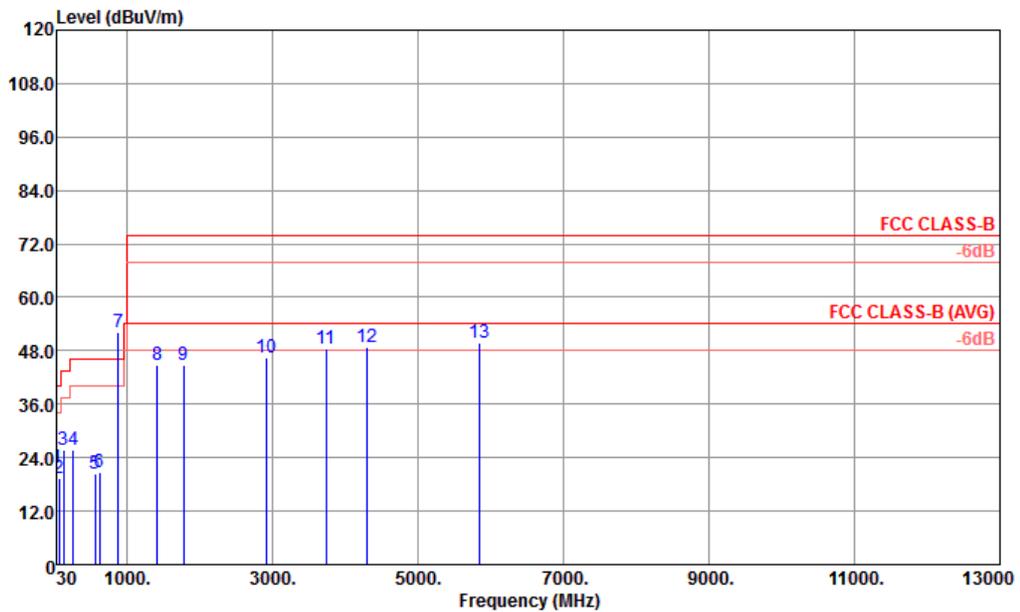
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

|                 |   |                     |            |
|-----------------|---|---------------------|------------|
| Test Mode :     | Mode 1  | Temperature :       | 22-23°C    |
| Test Engineer : | Jun liu   | Relative Humidity : | 40-41%     |
| Test Distance : | 3m  | Polarization :      | Horizontal |
| Function Type : | CDMA2000 BC0 Idle + Adapter + WLAN 2.4GHz Idle + LAN Link + Phone Link + GPS Rx |                     |            |
| Remark :        | #7 is system simulator signal which can be ignored.                             |                     |            |



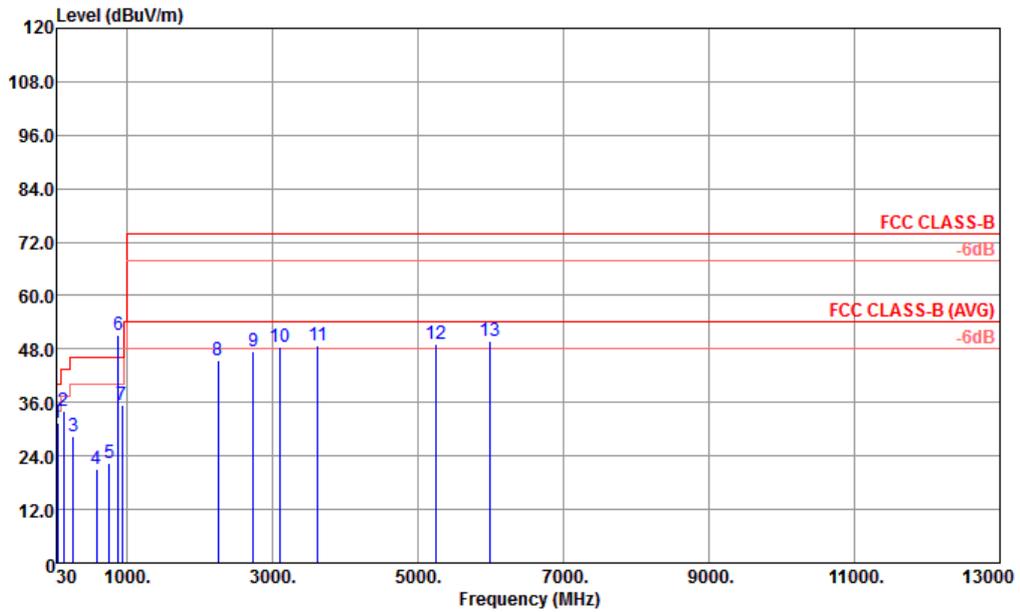
Site : 03CH01-KS  
 Condition : FCC CLASS-B 3m LF\_ANT\_100803 HORIZONTAL

Mode : mode 1

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark |      |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|--------|------|
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg    |      |
| 1   | 30.00   | 21.68  | -18.32 | 40.00  | 36.77       | 18.00 | 0.48   | 33.57 | ---   | ---    | Peak |
| 2   | 63.95   | 19.39  | -20.61 | 40.00  | 47.01       | 5.22  | 0.75   | 33.59 | ---   | ---    | Peak |
| 3   | 128.94  | 25.78  | -17.72 | 43.50  | 46.62       | 11.71 | 1.04   | 33.59 | 100   | 201    | Peak |
| 4   | 258.92  | 25.65  | -20.35 | 46.00  | 45.46       | 12.14 | 1.48   | 33.43 | ---   | ---    | Peak |
| 5   | 561.56  | 20.53  | -25.47 | 46.00  | 32.85       | 18.52 | 2.16   | 33.00 | ---   | ---    | Peak |
| 6   | 626.55  | 20.78  | -25.22 | 46.00  | 32.69       | 18.76 | 2.28   | 32.95 | ---   | ---    | Peak |
| 7 * | 881.66  | 52.21  |        |        | 61.58       | 20.47 | 2.68   | 32.52 | ---   | ---    | Peak |
| 8   | 1416.00 | 44.89  | -29.11 | 74.00  | 45.43       | 29.89 | 2.78   | 33.21 | ---   | ---    | Peak |
| 9   | 1780.00 | 44.89  | -29.11 | 74.00  | 43.15       | 31.73 | 3.11   | 33.10 | ---   | ---    | Peak |
| 10  | 2926.00 | 46.35  | -27.65 | 74.00  | 42.28       | 33.63 | 4.00   | 33.56 | ---   | ---    | Peak |
| 11  | 3740.00 | 48.34  | -25.66 | 74.00  | 42.70       | 34.73 | 4.56   | 33.65 | ---   | ---    | Peak |
| 12  | 4298.00 | 48.91  | -25.09 | 74.00  | 42.71       | 35.05 | 4.87   | 33.72 | ---   | ---    | Peak |
| 13  | 5846.00 | 49.91  | -24.09 | 74.00  | 42.28       | 35.56 | 5.77   | 33.70 | ---   | ---    | Peak |



|                 |   |                     |          |
|-----------------|---|---------------------|----------|
| Test Mode :     | Mode 1  | Temperature :       | 22-23°C  |
| Test Engineer : | Jun liu   | Relative Humidity : | 40-41%   |
| Test Distance : | 3m  | Polarization :      | Vertical |
| Function Type : | CDMA2000 BC0 Idle + Adapter + WLAN 2.4GHz Idle + LAN Link + Phone Link + GPS Rx |                     |          |
| Remark :        | #6 is system simulator signal which can be ignored.                             |                     |          |



Site : 03CH01-KS  
 Condition : FCC CLASS-B 3m LF\_ANT\_100803 VERTICAL

Mode : mode 1

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | A/Pos  | T/Pos | Remark  |
|-----|---------|--------|--------|--------|-------------|--------|--------|--------|-------|---------|
|     | MHz     | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | cm    | deg     |
|     |         |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     |       |         |
| 1   | 42.61   | 31.58  | -8.42  | 40.00  | 54.11       | 10.48  | 0.62   | 33.63  | 100   | 61 Peak |
| 2   | 128.94  | 34.15  | -9.35  | 43.50  | 54.99       | 11.71  | 1.04   | 33.59  | ---   | ---     |
| 3   | 256.98  | 28.42  | -17.58 | 46.00  | 48.27       | 12.10  | 1.48   | 33.43  | ---   | ---     |
| 4   | 583.87  | 20.97  | -25.03 | 46.00  | 33.17       | 18.57  | 2.20   | 32.97  | ---   | ---     |
| 5   | 752.65  | 22.27  | -23.73 | 46.00  | 32.67       | 19.90  | 2.47   | 32.77  | ---   | ---     |
| 6 * | 881.66  | 51.17  |        |        | 60.54       | 20.47  | 2.68   | 32.52  | ---   | ---     |
| 7   | 935.98  | 35.60  | -10.40 | 46.00  | 44.57       | 20.67  | 2.80   | 32.44  | ---   | ---     |
| 8   | 2248.00 | 45.62  | -28.38 | 74.00  | 42.71       | 32.64  | 3.46   | 33.19  | ---   | ---     |
| 9   | 2738.00 | 47.61  | -26.39 | 74.00  | 43.78       | 33.43  | 3.84   | 33.44  | ---   | ---     |
| 10  | 3096.00 | 48.31  | -25.69 | 74.00  | 44.03       | 33.78  | 4.11   | 33.61  | ---   | ---     |
| 11  | 3624.00 | 48.84  | -25.16 | 74.00  | 43.44       | 34.57  | 4.51   | 33.68  | ---   | ---     |
| 12  | 5250.00 | 49.04  | -24.96 | 74.00  | 42.10       | 35.28  | 5.41   | 33.75  | ---   | ---     |
| 13  | 5986.00 | 49.93  | -24.07 | 74.00  | 42.15       | 35.60  | 5.88   | 33.70  | ---   | ---     |



### 4. List of Measuring Equipment

| Instrument                        | Manufacturer | Model No. | Serial No.       | Characteristics            | Calibration Date | Test Date    | Due Date      | Remark                |
|-----------------------------------|--------------|-----------|------------------|----------------------------|------------------|--------------|---------------|-----------------------|
| EMI Receiver                      | R&S          | ESCI7     | 100768           | 9kHz~7GHz                  | May 04, 2014     | May 30, 2014 | May 03, 2015  | Conduction (CO01-KS)  |
| AC LISN                           | MessTec      | AN3016    | 060103           | 9kHz~30MHz                 | Dec. 10, 2013    | May 30, 2014 | Dec. 09, 2014 | Conduction (CO01-KS)  |
| AC LISN (for auxiliary equipment) | MessTec      | AN3016    | 060105           | 9kHz~30MHz                 | Dec. 10, 2013    | May 30, 2014 | Dec. 09, 2014 | Conduction (CO01-KS)  |
| AC Power Source                   | Chroma       | 61602     | ABP0000008<br>11 | AC 0V~300V,<br>45Hz~1000Hz | Nov. 12, 2013    | May 30, 2014 | Nov. 11, 2014 | Conduction (CO01-KS)  |
| EMI Test Receiver                 | R&S          | ESCI      | 100534           | 9kHz~3GHz                  | Nov. 05, 2013    | May 29, 2014 | Nov. 04, 2014 | Radiation (03CH01-KS) |
| Spectrum Analyzer                 | R&S          | FSP30     | 101399           | 9kHz~30GHz                 | May 04, 2014     | May 29, 2014 | May 03, 2015  | Radiation (03CH01-KS) |
| Bilog Antenna                     | SCHAFFNER    | CBL6112D  | 23182            | 25MHz~2GHz                 | Jan. 08, 2014    | May 29, 2014 | Jan. 07, 2015 | Radiation (03CH01-KS) |
| Double Ridge Horn Antenna         | ETS-Lindgren | 3117      | 75959            | 1GHz~18GHz                 | Jan. 08, 2014    | May 29, 2014 | Jan. 07, 2015 | Radiation (03CH01-KS) |
| Active Horn Antenna               | com-power    | AHA-118   | 701030           | 1GHz~18GHz                 | Nov. 18, 2013    | May 29, 2014 | Nov. 17, 2014 | Radiation (03CH01-KS) |
| SHF-EHF Horn                      | Schwarzbeck  | BBHA 9170 | BBHA170249       | 15GHz~40GHz                | Mar. 10, 2014    | May 29, 2014 | Mar. 09, 2015 | Radiation (03CH01-KS) |
| Amplifier                         | com-power    | PA-103A   | 161073           | 1MHz~1GHz                  | May 04, 2014     | May 29, 2014 | May 03, 2015  | Radiation (03CH01-KS) |
| Amplifier                         | Agilent      | 8449B     | 3008A02371       | 1GHz~26.5GHz               | Dec. 10, 2013    | May 29, 2014 | Dec. 09, 2014 | Radiation (03CH01-KS) |
| AC Power Source                   | Chroma       | 61601     | F104090004       | N/A                        | NCR              | May 29, 2014 | NCR           | Radiation (03CH01-KS) |
| Turn Table                        | MF           | MF7802    | N/A              | 0~360 degree               | NCR              | May 29, 2014 | NCR           | Radiation (03CH01-KS) |
| Antenna Mast                      | MF           | MF7802    | N/A              | 1 m~4 m                    | NCR              | May 29, 2014 | NCR           | Radiation (03CH01-KS) |

## 5. Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.26 |
|---|------|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.54 |
|---|------|