



# FCC 47 CFR PART 15 SUBPART B

## TEST REPORT

*For*

**Applicant :** **TeleEpoch Limited**

**Address :** **2/F, R2-A North Gate, Shenzhen High-Tech Industrial  
Nanshan District, Shenzhen, Guang Dong, China**

**Product Name :** **GSM Mobile Phone**

**Model Name :** **ZMAM120, A05, L10**

**Brand Name :** **Zonda**

**FCC ID :** **U46-ZMAM120**

**Report No. :** **SZSTS090619F1**

**Date of Issue :** **July 02, 2009**

**Issued by :** **Shenzhen Super Test Service Technology Co., Ltd.**

**Address :** **No. 813 Unit A, HuaMeiJu Business Center, Xinhu Road,  
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**1. VERIFICATION OF CONFORMITY**

**Equipment Under Test:** GSM Mobile Phone  
**Brand Name:** Zonda  
**Model Number:** ZMAM120  
**Series Model Name:** A05, L10  
**Series Model Difference description:** Model name displaying on the lens is different.  
**FCC ID:** U46-ZMAM120  
**Applicant:** TeleEpoch Limited  
2/F, R2-A North Gate, Shenzhen High-Tech Industria Nanshan District, Shenzhen, Guang Dong, China  
**Manufacturer:** TeleEpoch Limited  
2/F, R2-A North Gate, Shenzhen High-Tech Industria Nanshan District, Shenzhen, Guang Dong, China  
**Technical Standards:** FCC Part 15 B  
**File Number:** SZSTS090619F1  
**Date of test:** June.29 – July.02, 2009  
**Deviation:** None  
**Condition of Test Sample:** Normal  
**Test Result:** PASS

The above equipment was tested by Shenzhen Super Test Service Technology Co., Ltd. for compliance with the requirements set forth in FCC Part 15 and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested By Petter Ping 2009.7.2  
Petter Ping (STS Test Engineer) July.02, 2009  
Checked By July Wen 2009.7.2  
July Wen (STS Quality Engineer) July.02, 2009  
Authorized By Terry Yang 2009.7.2  
Terry Yang (STS General Manager) July.02, 2009



## 2. GENERAL INFORMATION

### 2.1 PRODUCT INFORMATION

| <b>EUT1- Mobile Phone</b>     |   |
|-------------------------------|---|
| Description:                  | GSM Mobile Phone                                |
| Model Name:                   | ZMAM120, A05, L10                               |
| Model Difference description: | Model name displaying on the lens is different. |
| Serial No.:                   | ---   |
| IMEI No.:                     | ---   |
| Frequency:                    | GSM 850MHz/1900MHz                              |
| Hardware Version:             | ME3 V0.3  |
| Software Version:             | ME3.MEXICO.4512.T.501.ES.V001                   |
| <b>EUT2- Battery</b>          |   |
| Description:                  | Lithium-ion Battery                             |
| Model Name:                   | 700-BA01  |
| Brand Name:                   | ORION   |
| Manufacturer:                 | BYD Company Limited                             |
| Capacitance:                  | 650 mAh   |
| Rated Voltage:                | 3.7   |
| Charge Limit:                 | 4.2   |
| <b>EUT3 – Power Supply</b>    |   |
| Description:                  | Travel Charger                                  |
| Model Name:                   | WYS-07  |
| Brand Name:                   | ORION   |
| Manufacturer:                 | WYS electronics corp.                           |
| Rated Input:                  | AC 100-240V,50/60HZ,0.15A                       |
| Rated Output:                 | DC 5.0V,550mA                                   |
| Length DC USB cable:          | 200 cm  |

**NOTE:**

1. The EUT is a model of GSM Portable Mobile Station (MS). It consists of **hand telephone set, lithium battery, USB Cable, Earphone and charger** as listed above.
2. Please refer to Appendix I for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

## 2.2 OBJECTIVE

Perform FCC Part 15 Subpart B tests for FCC Marking.

## 2.3 TEST STANDARDS AND RESULTS

Test items and the results are as bellow:

| EMISSION  |         |                    |        |                    |
|---|---------|--------------------|--------|--------------------|
| Standard  | Item    |                    | Result | Remarks            |
| FCC 47 CFR Part 15 Subpart B<br>(10-1-05 Edition) | §15.107 | Conducted Emission | PASS   | Meet Class B limit |
|   | §15.109 | Radiated Emission  | PASS   | Meet Class B limit |

*Note:* 1. The test result judgment is decided by the limit of measurement standard  
2. The information of measurement uncertainty is available upon the customer's request.

## 2.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

### 3. TEST FACILITY

Test Site: Shenzhen Most Technology Service Co.,ltd

Location: Add: No.5, Nangshan 2nd Rd., North Hi-Tech Industrial park ,Nanshan Shenzhen Guangdong ,China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 16 requirements. The FCC Registration Number is **490827**.

Site Filing: The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of measurement up to 1GHz.

#### 4. TEST EQUIPMENT LIST

**Instrumentation:** The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

| No. | Equipment                            | Manufacturer      | Model No.      | S/N         | Calculator due date |
|-----|--------------------------------------|-------------------|----------------|-------------|---------------------|
| 1   | Test Receiver                        | Rohde & Schwarz   | ESCI           | 100492      | 2010/03/14          |
| 2   | L.I.S.N.                             | Rohde & Schwarz   | ENV216         | 100093      | 2010/03/14          |
| 3   | Coaxial Switch                       | Anritsu Corp      | MP59B          | 6200283933  | 2010/03/14          |
| 4   | Terminator                           | Hubersuhner       | 50Ω            | No.1        | 2010/03/14          |
| 5   | RF Cable                             | SchwarzBeck       | N/A            | No.1        | 2010/03/14          |
| 6   | Test Receiver                        | Rohde & Schwarz   | ESPI           | 101202      | 2010/03/14          |
| 7   | Bilog Antenna                        | Sunol             | JB3            | A121206     | 2010/03/14          |
| 8   | Test Antenna - Horn                  | Schwarzbeck       | BBHA 9120C     | --          | 2010/03/14          |
| 9   | Test Antenna - Bi-Log                | Schwarzbeck       | VULB 9163      | --          | 2010/03/14          |
| 10  | Cable                                | Resenberger       | N/A            | NO.1        | 2010/03/14          |
| 11  | Cable                                | SchwarzBeck       | N/A            | NO.2        | 2010/03/14          |
| 12  | Cable                                | SchwarzBeck       | N/A            | NO.3        | 2010/03/14          |
| 13  | DC Power Filter                      | DuoJi             | DL2×30B        | N/A         | 2010/03/14          |
| 14  | Single Phase Power Line Filter       | DuoJi             | FNF 202B30     | N/A         | 2010/03/14          |
| 15  | 3 Phase Power Line Filter            | DuoJi             | FNF 402B30     | N/A         | 2010/03/14          |
| 16  | Test Receiver                        | Rohde & Schwarz   | ESCI           | 100492      | 2010/03/14          |
| 17  | Absorbing Clamp                      | Luthi             | MDS21          | 3635        | 2010/03/14          |
| 18  | Coaxial Switch                       | Anritsu Corp      | MP59B          | 6200283933  | 2010/03/14          |
| 19  | AC Power Source                      | Kikusui           | AC40MA         | LM003232    | 2010/03/14          |
| 20  | Test Analyzer                        | Kikusui           | KHA1000        | LM003720    | 2010/03/14          |
| 21  | Line Impedance Network               | Kikusui           | LIN40MA-PCR-L  | LM002352    | 2010/03/14          |
| 22  | ESD Tester                           | Kikusui           | KES4021        | LM003537    | 2010/03/14          |
| 23  | EMCPRO System                        | EM Test           | UCS-500-M4     | V0648102026 | 2010/03/14          |
| 24  | Signal Generator                     | IFR               | 2032           | 203002/100  | 2010/03/14          |
| 25  | Amplifier                            | A&R               | 150W1000       | 301584      | 2010/03/14          |
| 26  | CDN                                  | FCC               | FCC-801-M2-25  | 47          | 2010/03/14          |
| 27  | CDN                                  | FCC               | FCC-801-M3-25  | 107         | 2010/03/14          |
| 28  | EM Injection Clamp                   | FCC               | F-203I-23mm    | 403         | 2010/03/14          |
| 29  | RF Cable                             | MIYAZAKI          | N/A            | No.1/No.2   | 2010/03/14          |
| 30  | Universal Radio Communication Tester | ROHDE&SCHWARZ     | CMU200         | 0304789     | 2010/03/14          |
| 31  | Telecommunication Antenna            | European Antennas | PSA 75301R/170 | 0304213     | 2010/03/14          |

**NOTE:** Equipments listed above have been calibrated and are in the period of validation.

## 5. 47 CFR PART 15B REQUIREMENTS

### 5.1 GENERAL INFORMATION

#### EUT Function and Test Mode

##### Mode 1: Call Mode

Before the measurement, the lithium battery was completely discharge.

During the measurement, the lithium battery and the charger were installed, and the MS were in charging state. A communication link was established between the MS and a System Simulator (SS). The MS operated at GSM 900MHz mid ARFCN (62) and maximum output power (level 5).

The EUT configuration of the emission test was **MS + Battery+ Charge**.

##### Mode 2: Idle Mode

The MS was registered to the base station simulator but no call was set up.

The EUT configuration of the emission test was **MS + Battery+ Charge**.

##### Mode 3: FM Mode

During the test, the MS was playing the FM function continuously.

The EUT configuration of the emission test was **MS + Battery+ Earphone**.

##### Mode 4: USB Mode

During the test, the MS was connected with the notebook and made the data transmission function continuously.

The EUT configuration of the emission test was **MS + Battery+ USB Cable+ Notebook** (HP6515b, SN: CNU7522LPW).

##### Mode 5: MP3/MP4 Mode

During the test, the MS was playing the MP3/MP4 function continuously.

The EUT configuration of the emission test was **MS + Battery + Earphone**.

##### Mode 6: Camera Mode

During the test, the MS was playing the camera function continuously.

The EUT configuration of the emission test was **MS + Battery**.

##### Mode 6: Bluetooth Mode

During the test, the MS was playing the bluetooth function continuously.

The EUT configuration of the emission test was **MS + Battery+ BT Earphone (CE approved)**.

## 6. LINE CONDUCTED EMISSION TEST

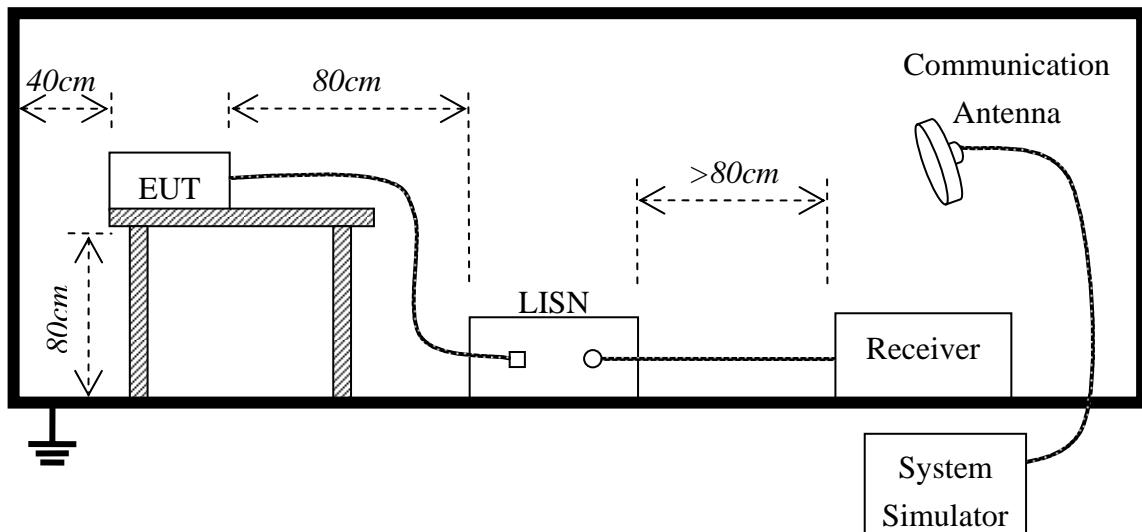
### 6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Frequency     | Maximum RF Line Voltage |                |
|---------------|-------------------------|----------------|
|               | Q.P.( dBuV)             | Average( dBuV) |
| 150kHz-500kHz | 66-56                   | 56-46          |
| 500kHz-5MHz   | 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

### 6.2. BLOCK DIAGRAM OF TEST SETUP



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

- 1) 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 FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is 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 FCC Part 15.
- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
- 6) The EUT 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 30 MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

| Preliminary Conducted Emission Test |            |                  |             |                                     |
|-------------------------------------|------------|------------------|-------------|-------------------------------------|
| Frequency Range Investigated        |            | 150KHz TO 30 MHz |             |                                     |
| Mode of operation                   | Date       | Report No.       | Data#       | Worst Mode                          |
| Call Mode                           | 2009-06-30 | SZSTS090619F1    | ZMAM_1(L,N) | <input checked="" type="checkbox"/> |
| Idle Mode                           | 2009-06-30 | SZSTS090619F1    | ZMAM_2(L,N) |                                     |
| FM Mode                             | 2009-06-30 | SZSTS090619F1    | ZMAM_3(L,N) |                                     |
| USB Mode                            | 2009-06-30 | SZSTS090619F1    | ZMAM_4(L,N) |                                     |
| MP3/MP4 Mode                        | 2009-06-30 | SZSTS090619F1    | ZMAM_5(L,N) |                                     |
| Camera Mode                         | 2009-06-30 | SZSTS090619F1    | ZMAM_6(L,N) |                                     |
| Bluetooth Mode                      | 2009-06-30 | SZSTS090619F1    | ZMAM_7(L,N) |                                     |

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

### 6.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

EUT and support equipment was set up on the test bench as per step 9 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.

The test data of the worst case condition(s) was reported on the Summary Data page.

## 6.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

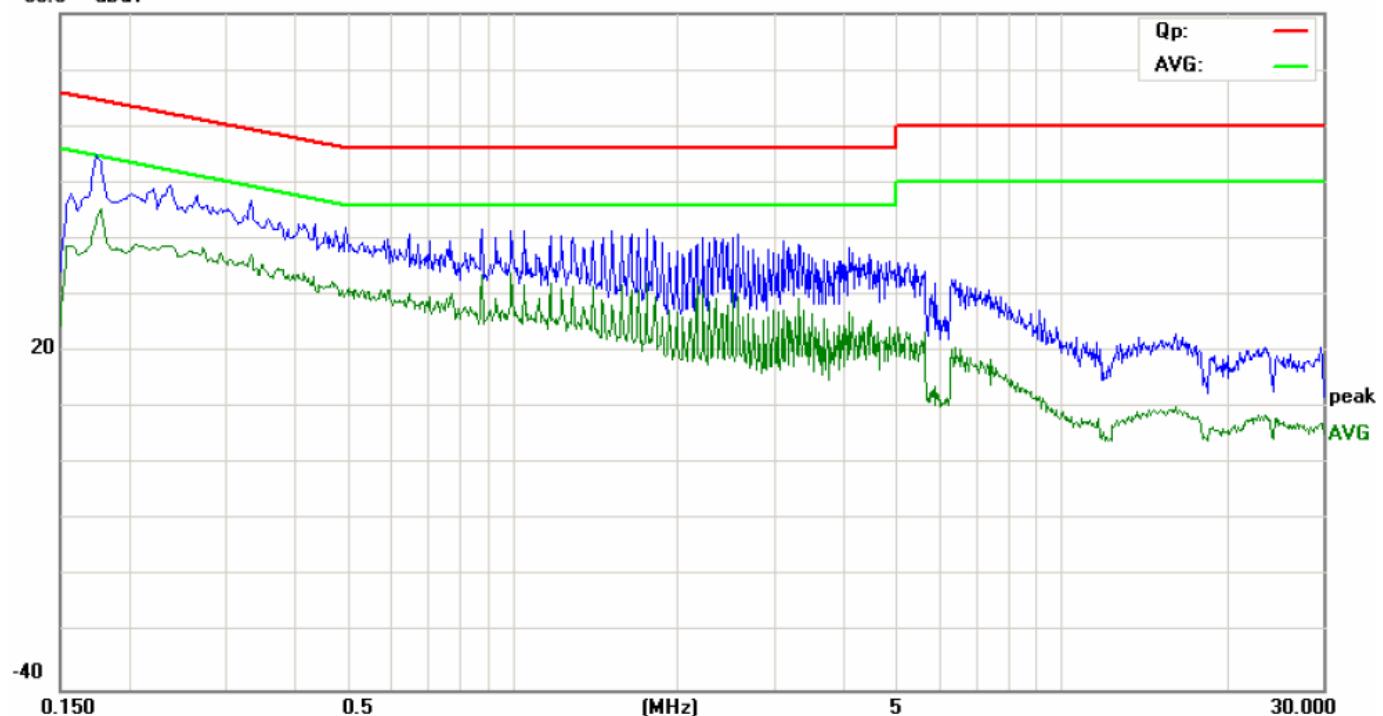
**EUT** : GSM Mobile Phone  
**M/N** : ZMAM120  
**Mode** : Call Mode

**Power** : AC 120V  
**Temperature** : 27 °C  
**Humidity** : 60%

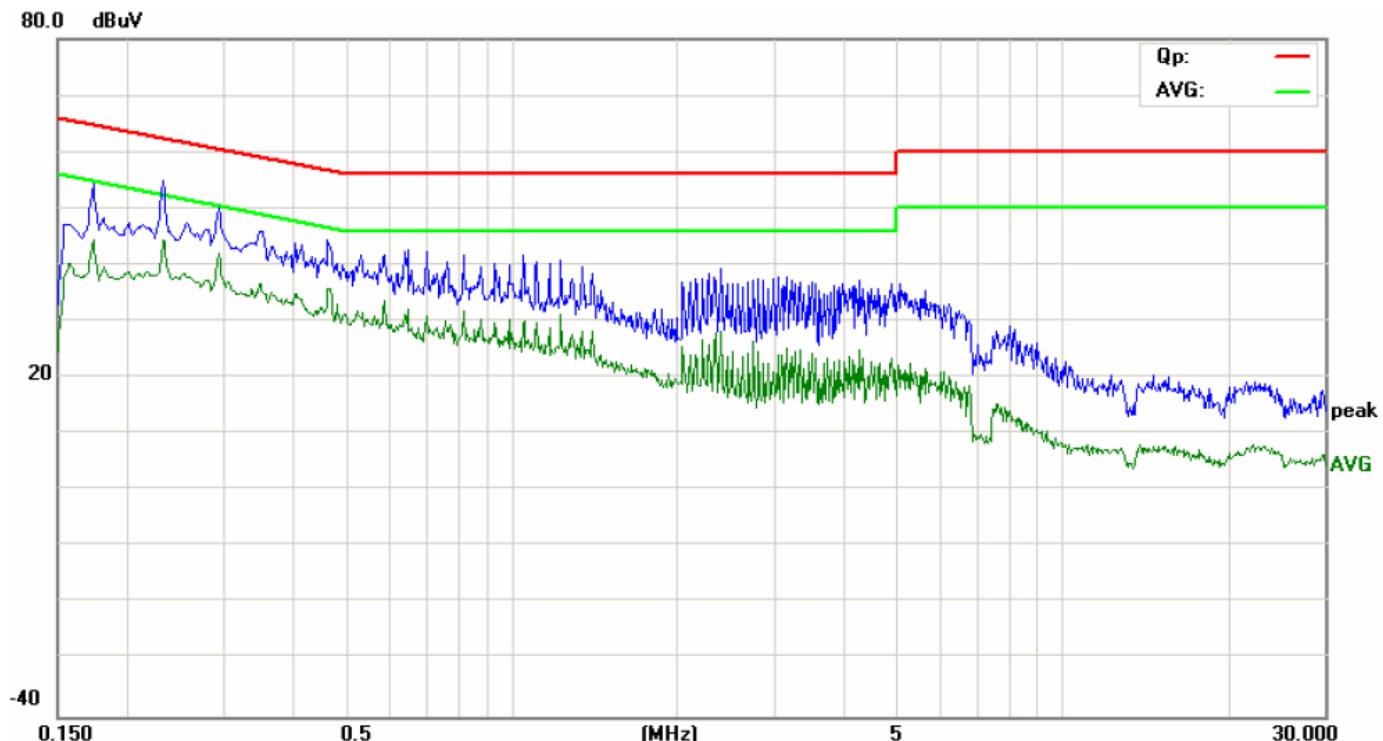
| FREQ  | PEAK  | Q.P.  | AVG   | Q.P.  | AVG   | Q.P.   | AVG    | NOTE |
|-------|-------|-------|-------|-------|-------|--------|--------|------|
| MHz   | RAW   | RAW   | RAW   | Limit | Limit | Margin | Margin |      |
|       | dBuV  | dBuV  | dBuV  | dBuV  | dBuV  | dB     | dB     |      |
| 0.174 | 55.79 | 53.07 | 44.26 | 64.76 | 54.76 | -11.69 | -10.50 | L    |
| 0.518 | 42.79 | 40.41 | 31.24 | 56.00 | 46.00 | -15.59 | -14.76 | L    |
| 0.578 | 41.97 | 39.85 | 30.56 | 56.00 | 46.00 | -16.15 | -15.44 | L    |
|       |       |       |       |       |       |        |        |      |
| 0.234 | 55.75 | 53.35 | 44.08 | 62.29 | 52.29 | -8.94  | -8.21  | N    |
| 0.486 | 46.05 | 44.85 | 34.03 | 56.23 | 46.23 | -11.38 | -12.20 | N    |
| 0.546 | 44.59 | 41.97 | 30.85 | 56.00 | 46.00 | -14.03 | -15.15 | N    |

|                |  |
|----------------|--|
| Freq.          | = Emission frequency in MHz  |
| Reading level  | = Uncorrected Analyzer/Receiver reading  |
| Factor         | = Cable loss + LISN inserting loss   |
| Emission level | = Reading level + Factor   |
| Limit          | = Limit stated in standard   |
| Margin         | = Reading in reference to limit  |
| “---”          | = The emission level complied with the Average limits, with at least 2 dB margin, so no further recheck. |

Line Conducted Emission Test Data----- L Line



Line Conducted Emission Test Data----- N Line



## 7. RADIATED EMISSION TEST

### 7.1. LIMITS OF RADIATED DISTURBANCES AT 3M DISTANCES FOR CLASS B

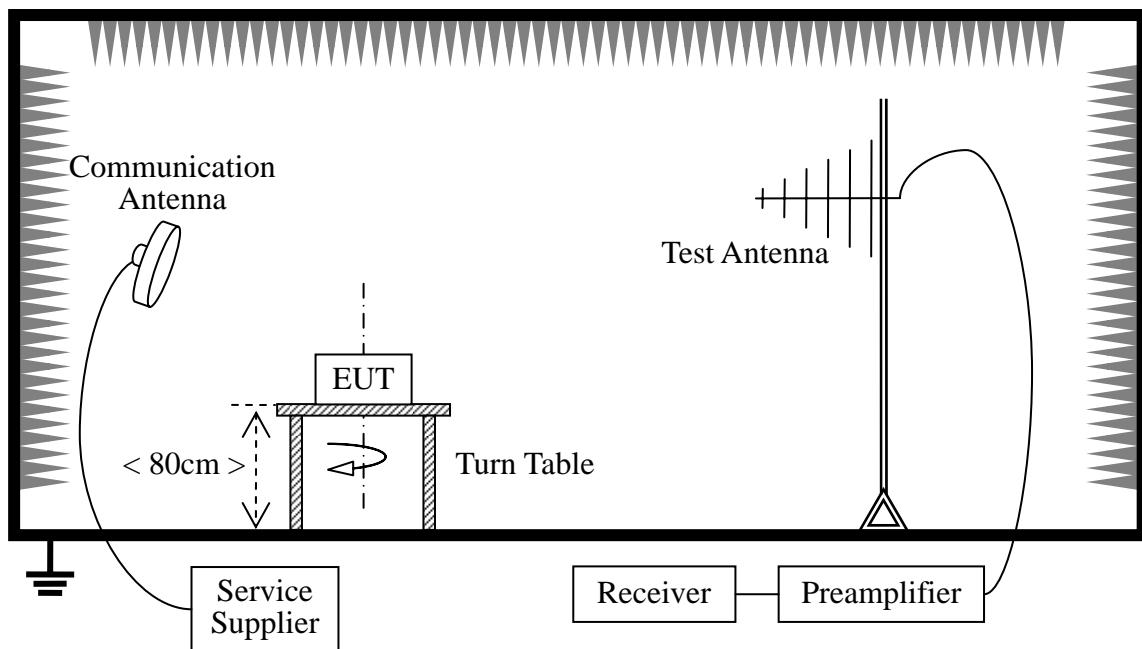
According to FCC section 15.109, except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength ( $\mu$ V/m) | Measurement Distance (m) |
|-----------------|-----------------------------|--------------------------|
| 30 - 88         | 100                         | 3                        |
| 88 - 216        | 150                         | 3                        |
| 216 - 960       | 200                         | 3                        |
| Above 960       | 500                         | 3                        |

For frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

### 7.2 TEST DESCRIPTION

#### Test Setup:



The EUT is powered by the Battery. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading. During the measurement, the EUT is activated and transmitting with the other Bluetooth device (Supply by the Applicant)

during the test.

For the Test Antenna:

- (a) In the frequency range of 9 kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- (b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

| Preliminary Radiated Emission Test |            |               |                    |                                     |
|------------------------------------|------------|---------------|--------------------|-------------------------------------|
| Frequency Range Investigated       |            |               | 30 MHz TO 1000 MHz |                                     |
| Mode of operation                  | Date       | Report No.    | Data#              | Worst Mode                          |
| Call Mode                          | 2009-06-30 | SZSTS090619F1 | ZMAM_1(H,V)        | <input checked="" type="checkbox"/> |
| Idle Mode                          | 2009-06-30 | SZSTS090619F1 | ZMAM_2(H,V)        |                                     |
| FM Mode                            | 2009-06-30 | SZSTS090619F1 | ZMAM_3(H,V)        |                                     |
| USB Mode                           | 2009-06-30 | SZSTS090619F1 | ZMAM_4(H,V)        |                                     |
| MP3/MP4 Mode                       | 2009-06-30 | SZSTS090619F1 | ZMAM_5(H,V)        |                                     |
| Camera Mode                        | 2009-06-30 | SZSTS090619F1 | ZMAM_6(H,V)        |                                     |
| Bluetooth Mode                     | 2009-06-30 | SZSTS090619F1 | ZMAM_7(H,V)        |                                     |

### 7.3 TEST RESULT

**EUT** : GSM Mobile Phone  
**M/N** : ZMAM120  
**Mode** : Call Mode

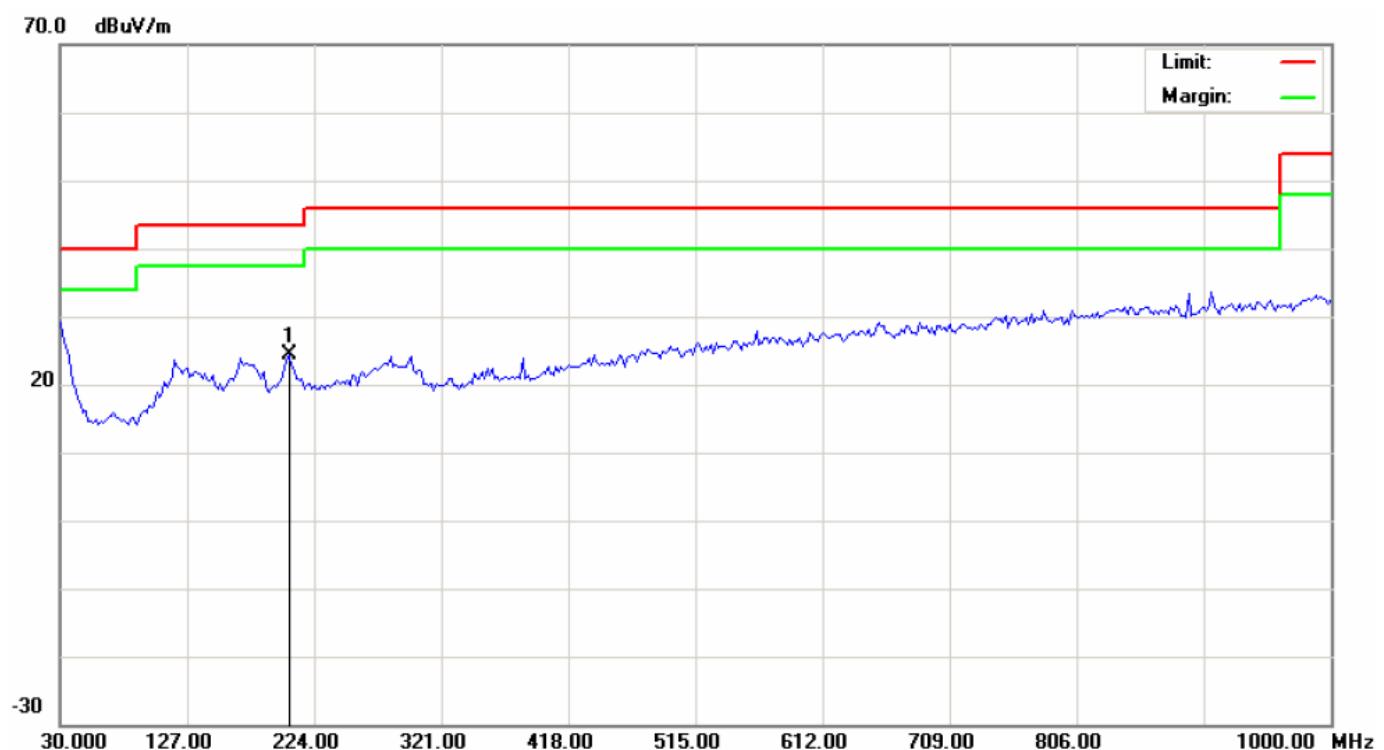
**Power** : AC 120V  
**Temperature** : 27 °C  
**Humidity** : 60%

| Frequency Range Investigated (30 MHz TO 1000 MHz) |                    |                      |                       |                     |                       |          |      |
|---|--------------------|----------------------|-----------------------|---------------------|-----------------------|----------|------|
| Freq. (MHz)                                       | Reading(RA) (dBuV) | Corr.Factor(CF) (dB) | Measured(FS) (dBuV/m) | Limits(QP) (dBuV/m) | Safe Margins (dBuV/m) | Ant. H/V | Mark |
| 204.600   | 7.17               | 7.17                 | 14.34                 | 33.50               | -19.16                | H        | Q    |
| 31.940  | 7.68               | 13.31                | 20.99                 | 30.00               | -9.01                 | V        | Q    |
| 113.420   | 10.38              | 6.72                 | 17.10                 | 33.50               | -16.40                | V        | Q    |
| 169.680   | 14.63              | 7.20                 | 21.83                 | 33.50               | -11.67                | V        | Q    |
| 908.820   | 5.96               | 17.58                | 23.54                 | 36.00               | -12.46                | V        | Q    |

*Note:*

*The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors.*

## Radiated Emission Test Data----- Horizontal



## Radiated Emission Test Data----- Vertical

