



FCC 47 CFR PART 15 SUBPART B

TEST REPORT

For

Applicant: COSMOCOM, SAC

Address: LUIS ARIAS SCHEREIBER, 215-LIMA-PERU

Product Name: Mobile Phone

Model Name: TZ8300

Brand Name: TZONTZEN

FCC ID: ZKB-TZ8300

Report No.: STS110423F1

Date of Issue: May. 18, 2011

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

**Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan,
Shenzhen, Guangdong, China**

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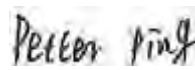
1. VERIFICATION OF CONFORMITY

Equipment Under Test: Mobile Phone
Brand Name: TZONTZEN
Model Number: TZ8300
Series Model Name: N/A
Series Model Difference description: N/A
FCC ID: ZKB-TZ8300
Applicant: COSMOCOM, SAC
LUIS ARIAS SCHEREIBER, 215-LIMA-PERU
Manufacturer: COSMOCOM, SAC
LUIS ARIAS SCHEREIBER, 215-LIMA-PERU
Technical Standards: FCC Part 15 B
File Number: STS110423F1
Date of test: May. 8, 2011 ~ May. 17, 2011
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.

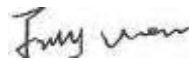
The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):



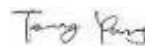
Petter Ping May. 18, 2011

Review by (+ signature):



July Wen May. 18, 2011

Approved by (+ signature):



Terry Yang May. 18, 2011

2. GENERAL INFORMATION

2.1 PRODUCT INFORMATION

| EUT1- Mobile Phone | |
|-------------------------------|---|
| Description: | Mobile Phone |
| Model Name: | TZ8300 |
| Serial No.: | N/A |
| Model Difference description: | N/A |
| IMEI No.: | 356840101117991 |
| Frequency: | GSM 850MHz/1900MHz, Bluetooth:2402 MHz -2480 MHz,WIFI:2412 MHz -2462 MHz |
| Hardware Version: | IQ820-MB-4.0.2 |
| Software Version: | IQ820-01-XX-D-0-01-110416 |
| EUT2- Battery | |
| Description: | Lithium-ion Battery |
| Model Name: | TZ8300 |
| Brand Name: | TZONTZEN |
| Manufacturer: | COSMOCOM, SAC |
| Capacitance: | 1500 mAh |
| Rated Voltage: | 3.7V |
| Charge Limit: | 4.2V |
| EUT3 – Power Supply | |
| Description: | Travel Charger |
| Model Name: | TZ8300 |
| Brand Name: | TZONTZEN |
| Manufacturer: | COSMOCOM, SAC |
| Rated Input: | AC 100-240V, 50/60Hz, 0.15A |
| Rated Output: | DC 5V, 0.5A |
| Length of USB cable: | 1.2m |

NOTE:

1. The EUT is a model of GSM Portable Mobile Station (MS). It consists of **hand telephone set, Lithium battery, headphone, USB cable** and **Charger** as listed above.
2. Please refer to Appendix 2 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 (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: | Most Technology Service Co.,Ltd. |
| Location: | No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China |
| Description: | <p>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 C63.4:2009 and CISPR 16 requirements. The FCC Registration Number is 490827.</p> <p>The CNAS Registration Number is CNAS L3573.</p> |
| 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 C63.4:2009 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 | Calibration due date |
|-----|--------------------------------------|-------------------|----------------|-------------|----------------------|
| 1 | Test Receiver | Rohde & Schwarz | ESCI | 100492 | 2012/03/14 |
| 2 | L.I.S.N. | Rohde & Schwarz | ENV216 | 100093 | 2012/03/14 |
| 3 | Coaxial Switch | Anritsu Corp | MP59B | 6200283933 | 2012/03/14 |
| 4 | Terminator | Hubersuhner | 50Ω | No.1 | 2012/03/14 |
| 5 | RF Cable | SchwarzBeck | N/A | No.1 | 2012/03/14 |
| 6 | Test Receiver | Rohde & Schwarz | ESPI | 101202 | 2012/03/14 |
| 7 | Bilog Antenna | Sunol | JB3 | A121206 | 2012/03/14 |
| 8 | Test Antenna - Horn | Schwarzbeck | BBHA 9120C | -- | 2012/03/14 |
| 9 | Test Antenna - Bi-Log | Schwarzbeck | VULB 9163 | -- | 2012/03/14 |
| 10 | Cable | Resenberger | N/A | NO.1 | 2012/03/14 |
| 11 | Cable | SchwarzBeck | N/A | NO.2 | 2012/03/14 |
| 12 | Cable | SchwarzBeck | N/A | NO.3 | 2012/03/14 |
| 13 | DC Power Filter | DuoJi | DL2×30B | N/A | 2012/03/14 |
| 14 | Single Phase Power Line Filter | DuoJi | FNF 202B30 | N/A | 2012/03/14 |
| 15 | 3 Phase Power Line Filter | DuoJi | FNF 402B30 | N/A | 2012/03/14 |
| 16 | Test Receiver | Rohde & Schwarz | ESCI | 100492 | 2012/03/14 |
| 17 | Absorbing Clamp | Luthi | MDS21 | 3635 | 2012/03/14 |
| 18 | Coaxial Switch | Anritsu Corp | MP59B | 6200283933 | 2012/03/14 |
| 19 | AC Power Source | Kikusui | AC40MA | LM003232 | 2012/03/14 |
| 20 | Test Analyzer | Kikusui | KHA1000 | LM003720 | 2012/03/14 |
| 21 | Line Impedence Network | Kikusui | LIN40MA-PCR-L | LM002352 | 2012/03/14 |
| 22 | ESD Tester | Kikusui | KES4021 | LM003537 | 2012/03/14 |
| 23 | EMC PRO System | EM Test | UCS-500-M4 | V0648102026 | 2012/03/14 |
| 24 | Signal Generator | IFR | 2032 | 203002/100 | 2012/03/14 |
| 25 | Amplifier | A&R | 150W1000 | 301584 | 2012/03/14 |
| 26 | CDN | FCC | FCC-801-M2-25 | 47 | 2012/03/14 |
| 27 | CDN | FCC | FCC-801-M3-25 | 107 | 2012/03/14 |
| 28 | EM Injection Clamp | FCC | F-203I-23mm | 403 | 2012/03/14 |
| 29 | RF Cable | MIYAZAKI | N/A | No.1/No.2 | 2012/03/14 |
| 30 | Universal Radio Communication Tester | ROHDE&SCHWARZ | CMU200 | 0304789 | 2012/03/14 |
| 31 | Telecommunication Antenna | European Antennas | PSA 75301R/170 | 0304213 | 2012/03/14 |

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: 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+ Charger**.

Mode 2: 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 850/1900MHz mid ARFCN and maximum output power.

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

Mode 3: GPRS Mode

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

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

Mode 4: Bluetooth Mode

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 EUT and the Bluetooth Earphone and a System Simulator (SS).

The MS operated at GSM 850/1900MHz mid and maximum output power.

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

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

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 + Charger+ Earphone..**

NP-R428-DS0YCN, SN: ZVC093FZ800422X).

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+ Charger**.

Mode 7: 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** (Samsung NP-R428-DS0YCN, SN: ZVC093FZ800422X).

Note: Due to the different configuration and test, in this list only some worse mode. The worst test data of the worse mode is reported by this report.

Mode 8: WIFI Mode

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

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

Mode 9: GPS Mode

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

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

6. LINE CONDUCTED EMISSION TEST

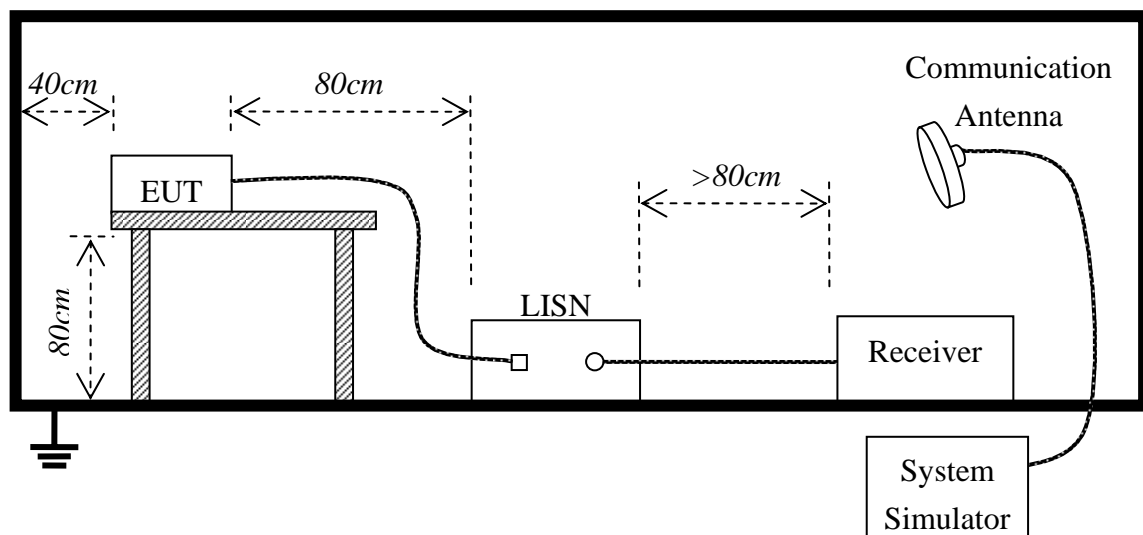
6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| 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 DC 5V by AC/DC adapter or USB port of notebook which 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 |
| Idle Mode | 2011-5-12 | STS110423F1 | TZ8300_1_(L, N) | <input type="checkbox"/> |
| Call Mode | 2011-5-12 | STS110423F1 | TZ8300_2_(L, N) | <input type="checkbox"/> |
| GPRS Mode | 2011-5-12 | STS110423F1 | TZ8300_3_(L, N) | <input type="checkbox"/> |
| Bluetooth Mode | 2011-5-12 | STS110423F1 | TZ8300_4_(L, N) | <input type="checkbox"/> |
| MP3/MP4 Mode | 2011-5-12 | STS110423F1 | TZ8300_5_(L, N) | <input type="checkbox"/> |
| Camera Mode | 2011-5-12 | STS110423F1 | TZ8300_6_(L, N) | <input checked="" type="checkbox"/> |
| USB Mode | 2011-5-12 | STS110423F1 | TZ8300_7_(L, N) | <input type="checkbox"/> |
| WIFI Mode | 2011-5-12 | STS110423F1 | TZ8300_8_(L, N) | <input type="checkbox"/> |
| GPS Mode | 2011-5-12 | STS110423F1 | TZ8300_9_(L, N) | <input type="checkbox"/> |

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.

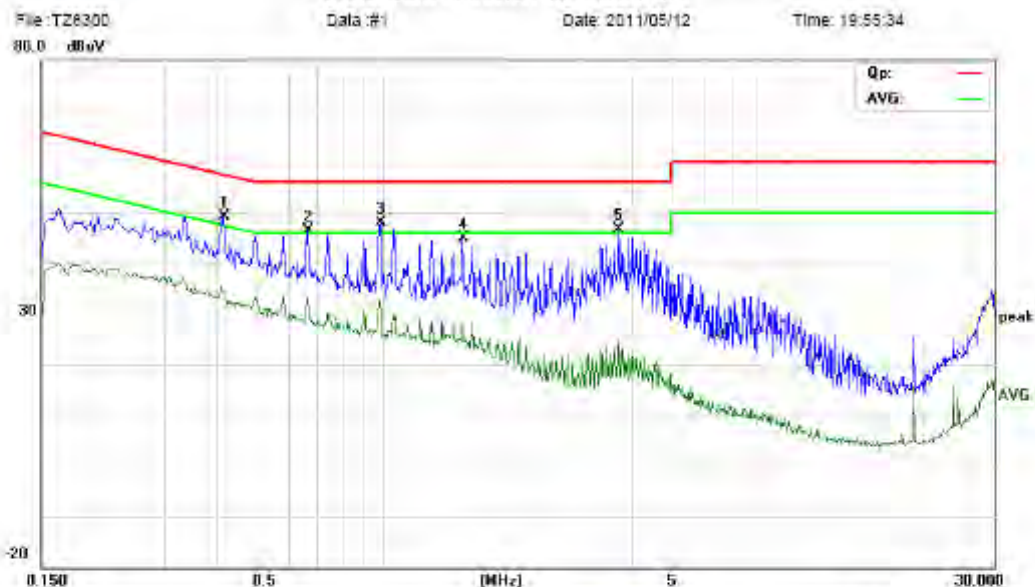
The test data of the worst case condition(s) was reported on the Summary Data page.

6.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement



Site: site #1

Phase: L1

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/50Hz

Humidity: 50 %

EUT: GSM MOBILE PHONE

MN: TZ8300

Mode: CAMERA

Note:

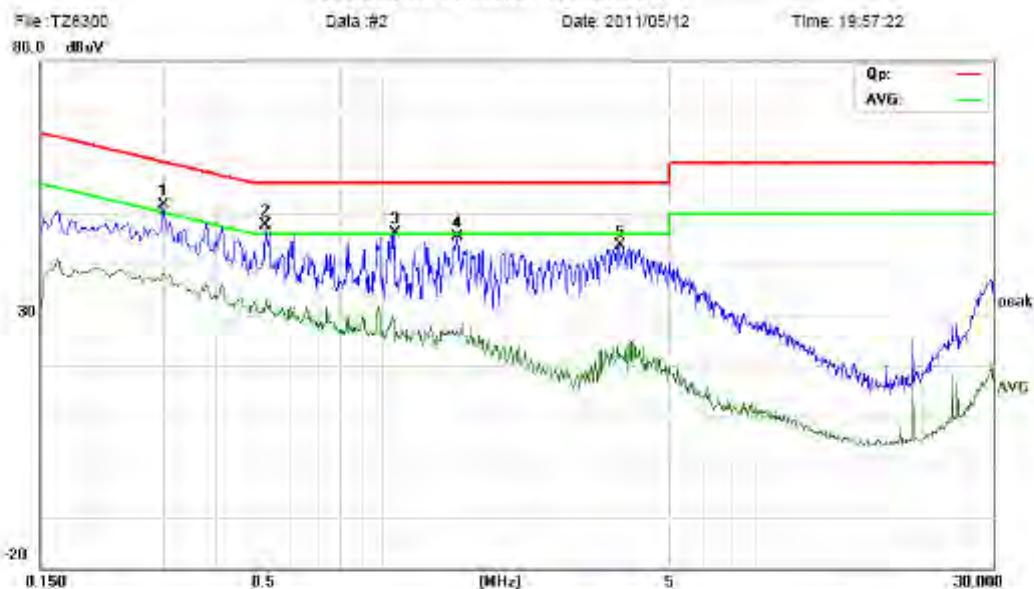
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.4140 | 38.68 | 10.57 | 49.25 | 57.57 | -8.32 | peak | |
| 2 | | 0.6580 | 36.26 | 10.00 | 46.26 | 56.00 | -9.74 | peak | |
| 3 | * | 0.9900 | 37.77 | 10.00 | 47.77 | 56.00 | -8.23 | peak | |
| 4 | | 1.5620 | 35.49 | 9.44 | 44.93 | 56.00 | -11.07 | peak | |
| 5 | | 3.7060 | 35.84 | 10.71 | 46.55 | 56.00 | -9.45 | peak | |

*:Maximum data x:Over limit !:over margin



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement



Site: site #1

Phase: N

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/50Hz

Humidity: 50 %

EUT: GSM MOBILE PHONE

MN: TZ8300

Mode: CAMERA

Note:

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.2980 | 40.16 | 11.35 | 51.51 | 60.30 | -8.79 | peak | |
| 2 | * | 0.5260 | 37.57 | 10.00 | 47.57 | 56.00 | -8.43 | peak | |
| 3 | | 1.0780 | 36.17 | 9.92 | 46.09 | 56.00 | -9.91 | peak | |
| 4 | | 1.5260 | 35.83 | 9.47 | 45.30 | 56.00 | -10.70 | peak | |
| 5 | | 3.7500 | 32.98 | 10.75 | 43.73 | 56.00 | -12.27 | peak | |

*:Maximum data x:Over limit !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
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Tel: 0755-86170306 Fax: 0755-86170310

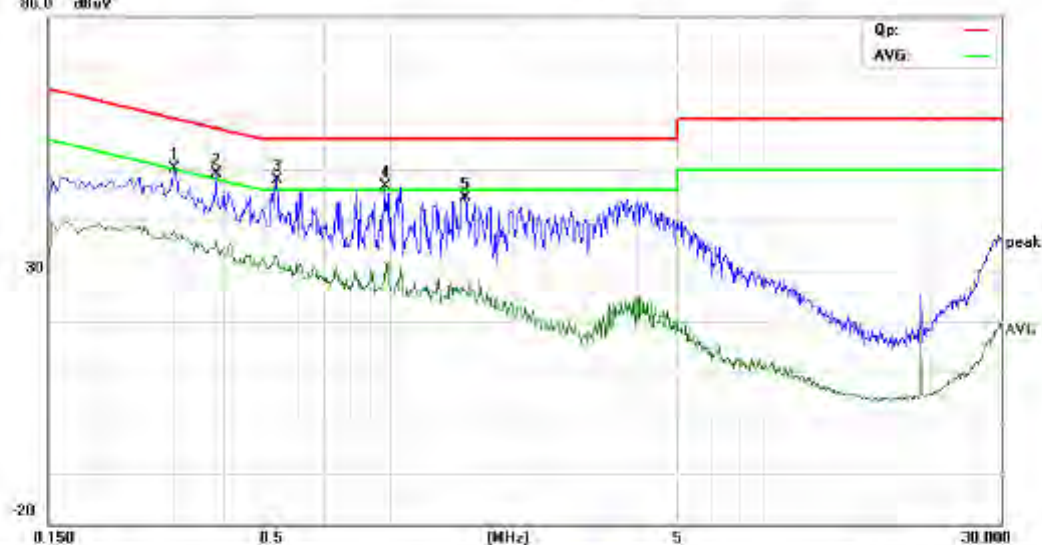
Conducted Emission Measurement

File: TZ8300
80.0 dBuV

Data: #3

Date: 2011/05/12

Time: 20:00:32



Site: site #1

Phase: N

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 50 %

EUT: GSM MOBILE PHONE

MN: TZ8300

Mode: WIFI

Note:

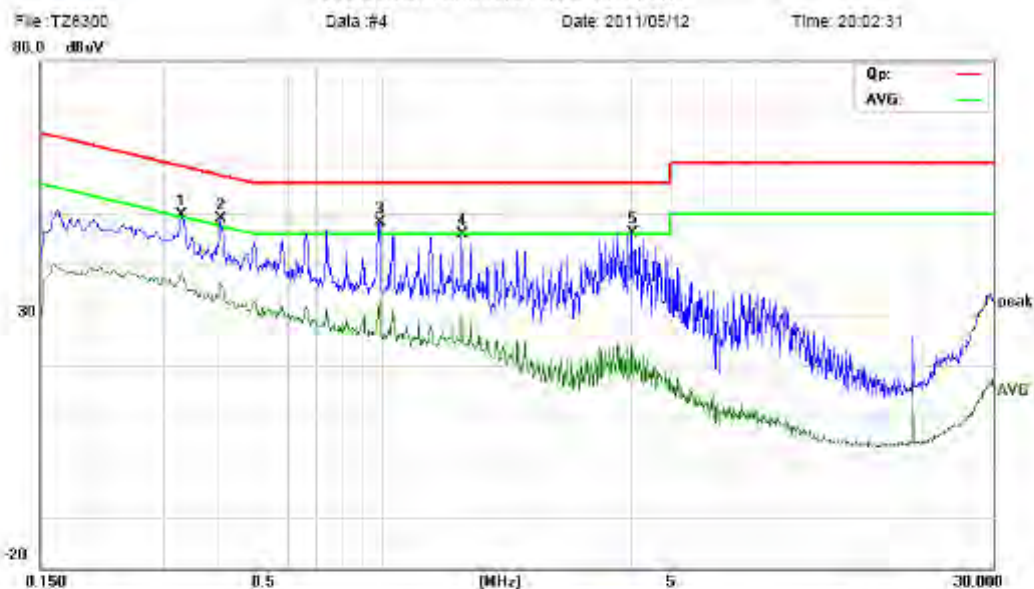
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.3020 | 38.91 | 11.32 | 50.23 | 60.19 | -9.96 | peak | |
| 2 | | 0.3820 | 38.26 | 10.79 | 49.05 | 58.24 | -9.19 | peak | |
| 3 | * | 0.5340 | 37.77 | 10.00 | 47.77 | 56.00 | -8.23 | peak | |
| 4 | | 0.9780 | 36.54 | 10.00 | 46.54 | 56.00 | -9.46 | peak | |
| 5 | | 1.5220 | 34.93 | 9.48 | 44.41 | 56.00 | -11.59 | peak | |

*:Maximum data x:Over limit !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement



Site: site #1

Phase: L1

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/50Hz

Humidity: 50 %

EUT: GSM MOBILE PHONE

MN: TZ8300

Mode: WIFI

Note:

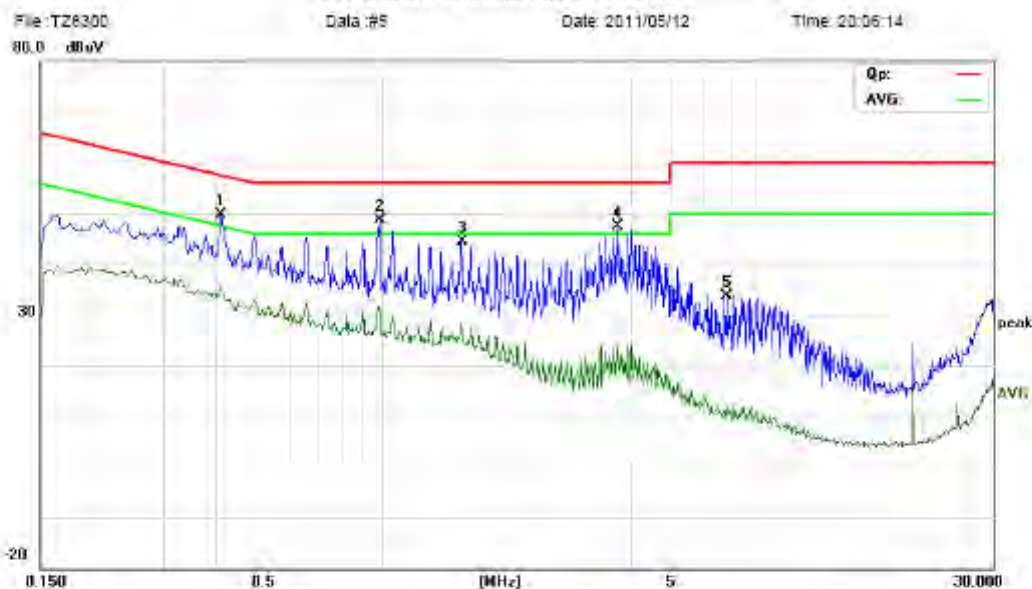
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.3300 | 38.41 | 11.13 | 49.54 | 59.45 | -9.91 | peak | |
| 2 | | 0.4100 | 38.36 | 10.60 | 48.96 | 57.65 | -8.69 | peak | |
| 3 | * | 0.9900 | 38.16 | 10.00 | 48.16 | 56.00 | -7.84 | peak | |
| 4 | | 1.5660 | 36.54 | 9.43 | 45.97 | 56.00 | -10.03 | peak | |
| 5 | | 4.0340 | 35.17 | 11.03 | 46.20 | 56.00 | -9.80 | peak | |

*:Maximum data x:Over limit !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement



Site: site #1

Phase: L1

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/50Hz

Humidity: 50 %

EUT: GSM MOBILE PHONE

M/N: TZ8300

Mode: BLUETOOTH

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.4100 | 39.07 | 10.60 | 49.67 | 57.65 | -7.98 | peak | |
| 2 | * | 0.9900 | 38.75 | 10.00 | 48.75 | 56.00 | -7.25 | peak | |
| 3 | | 1.5620 | 35.00 | 9.44 | 44.44 | 56.00 | -11.56 | peak | |
| 4 | | 3.7100 | 36.61 | 10.71 | 47.32 | 56.00 | -8.68 | peak | |
| 5 | | 6.8340 | 22.69 | 10.90 | 33.59 | 60.00 | -26.41 | peak | |

*:Maximum data x:Over limit !:over margin



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
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Tel: 0755-86170306 Fax: 0755-86170310

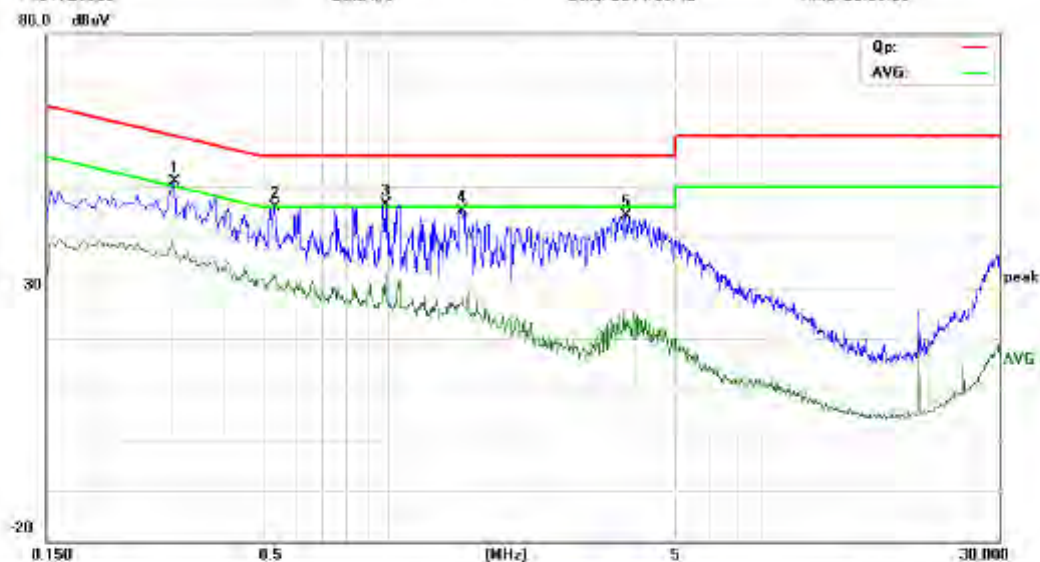
Conducted Emission Measurement

File: TZ8300

Data: #6

Date: 2011/05/12

Time: 20:08:05



Site: site #1

Phase: N

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/50Hz

Humidity: 50 %

EUT: GSM MOBILE PHONE

MN: TZ8300

Mode: BLUETOOTH

Note:

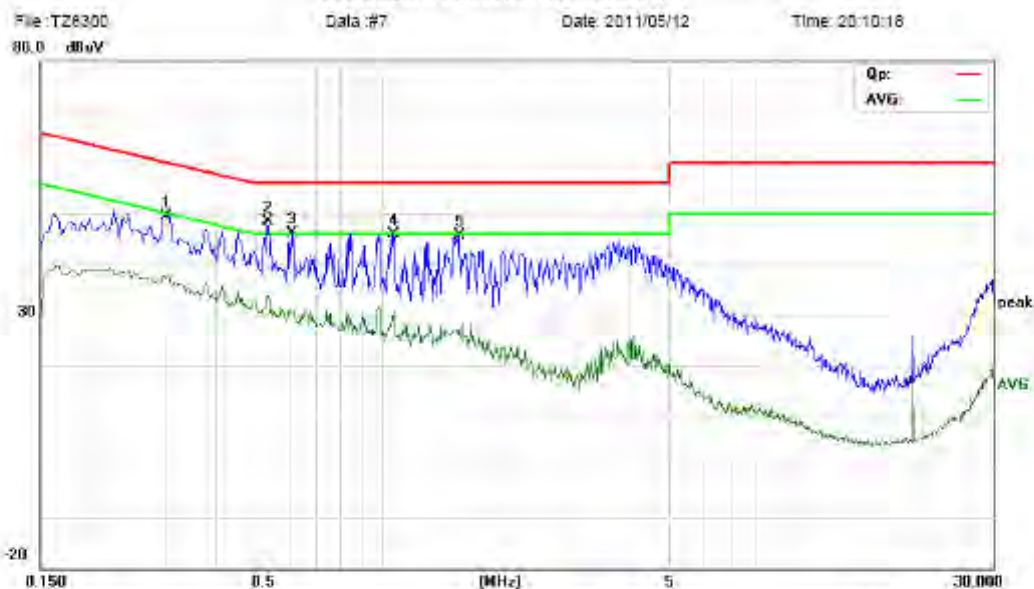
| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | | |
|-----|-----|--------|---------|---------|----------|-------|--------|----------|---------|
| | | MHz | Level | Factor | ment | | | Detector | Comment |
| | | | dBμV | dB | dBμV | dBμV | dB | | |
| 1 | * | 0.3060 | 39.52 | 11.29 | 50.81 | 60.06 | -9.27 | peak | |
| 2 | | 0.5340 | 35.95 | 10.00 | 45.95 | 56.00 | -10.05 | peak | |
| 3 | | 0.9940 | 36.44 | 10.00 | 46.44 | 56.00 | -9.56 | peak | |
| 4 | | 1.5100 | 35.66 | 9.49 | 45.15 | 56.00 | -10.85 | peak | |
| 5 | | 3.7700 | 33.28 | 10.77 | 44.05 | 56.00 | -11.95 | peak | |

*:Maximum data x:Over limit !:over margin



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement



Site: site #1
Limit: FCC Part15 B Class B QP
EUT: GSM MOBILE PHONE
MN: TZ8300
Mode: CALL
Note:

Phase: N
Power: AC 120V/50Hz

Temperature: 26
Humidity: 50 %

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBμV | dB | dBμV | dBμV | dB | | |
| 1 | | 0.3020 | 38.12 | 11.32 | 49.44 | 60.19 | -10.75 | peak | |
| 2 | * | 0.5300 | 38.37 | 10.00 | 48.37 | 56.00 | -7.63 | peak | |
| 3 | | 0.6100 | 36.12 | 10.00 | 46.12 | 56.00 | -9.88 | peak | |
| 4 | | 1.0660 | 36.05 | 9.93 | 45.98 | 56.00 | -10.02 | peak | |
| 5 | | 1.5380 | 36.13 | 9.46 | 45.59 | 56.00 | -10.41 | peak | |

*:Maximum data x:Over limit !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

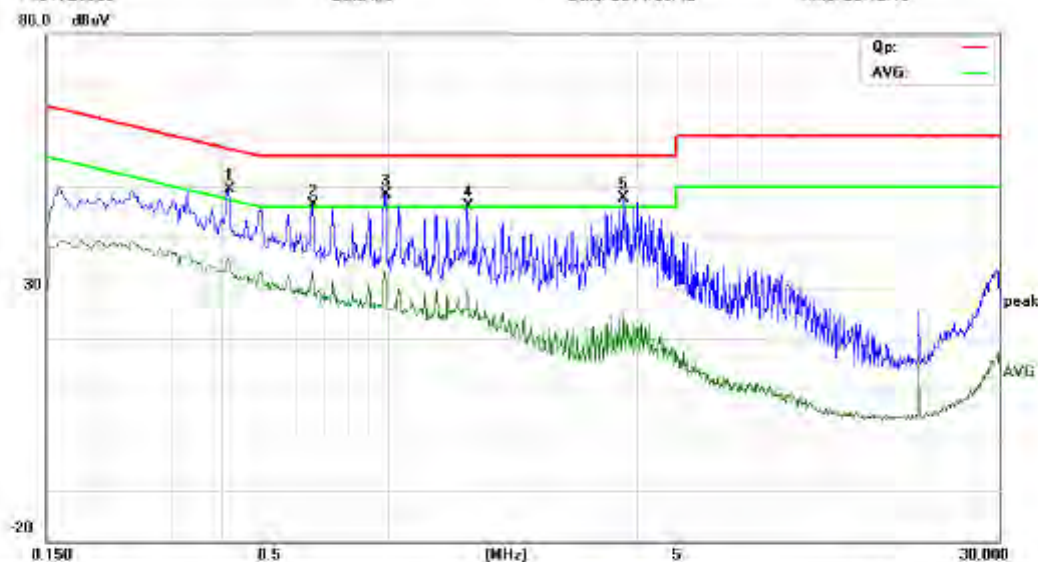
Conducted Emission Measurement

File: TZ8300

Data: #8

Date: 2011/05/12

Time: 20:12:18



Site: site #1

Phase: L1

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/50Hz

Humidity: 50 %

EUT: GSM MOBILE PHONE

MN: TZ8300

Mode: CALL

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|----------------|-------------|-------|-------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.4140 | 38.87 | 10.57 | 49.44 | 57.57 | -8.13 | peak | |
| 2 | | 0.6580 | 36.27 | 10.00 | 46.27 | 56.00 | -9.73 | peak | |
| 3 | * | 0.9860 | 38.37 | 10.00 | 48.37 | 56.00 | -7.63 | peak | |
| 4 | | 1.5620 | 36.72 | 9.44 | 46.16 | 56.00 | -9.84 | peak | |
| 5 | | 3.7180 | 37.02 | 10.72 | 47.74 | 56.00 | -8.26 | peak | |

*:Maximum data x:Over limit !:over margin

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:

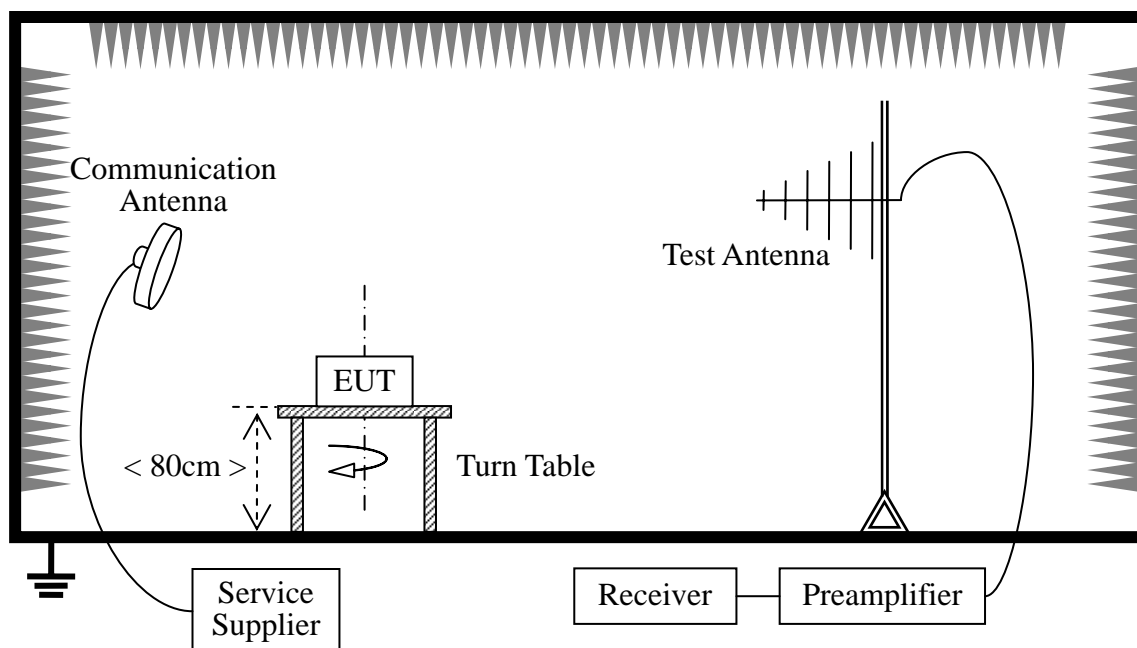
| Frequency (MHz) | Field Strength ($\mu\text{V/m}$) | Measurement Distance (m) |
|-----------------|------------------------------------|--------------------------|
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

NOTE:

1. Field Strength ($\text{dB}\mu\text{V/m}$) = $20 \cdot \log[\text{Field Strength } (\mu\text{V/m})]$.
2. In the emission tables above, the tighter limit applies at the band edges.

7.2 TEST DESCRIPTION

Test Setup:



The EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. 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 |
| Idle Mode | 2011-5-10 | STS110423F1 | TZ8300_1_(H, V) | <input type="checkbox"/> |
| Call Mode | 2011-5-10 | STS110423F1 | TZ8300_2_(H, V) | <input type="checkbox"/> |
| GPRS Mode | 2011-5-10 | STS110423F1 | TZ8300_3_(H, V) | <input type="checkbox"/> |
| Bluetooth Mode | 2011-5-10 | STS110423F1 | TZ8300_4_(H, V) | <input type="checkbox"/> |
| MP3/MP4Mode | 2011-5-10 | STS110423F1 | TZ8300_5_(H, V) | <input type="checkbox"/> |
| Camera Mode | 2011-5-10 | STS110423F1 | TZ8300_6_(H, V) | <input checked="" type="checkbox"/> |
| USB Mode | 2011-5-10 | STS110423F1 | TZ8300_7_(H, V) | <input type="checkbox"/> |
| WIFI Mode | 2011-5-10 | STS110423F1 | TZ8300_8_(H, V) | <input type="checkbox"/> |
| GPS Mode | 2011-5-10 | STS110423F1 | TZ8300_9_(H, V) | <input type="checkbox"/> |

7.3 TEST RESULT



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

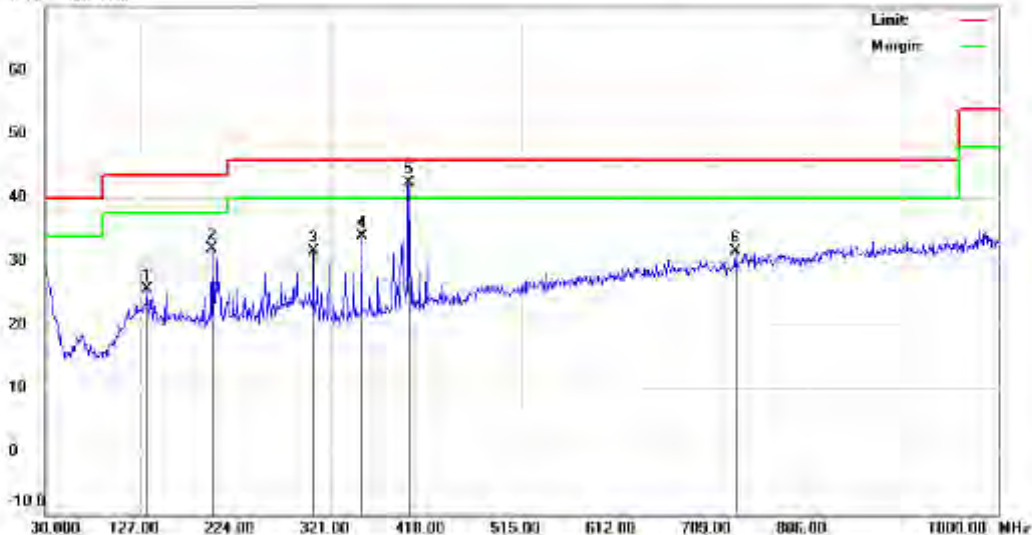
File: TZ8300

Data: #1

Date: 2011-5-10

Time: 22:03:54

70.0 dBuV/m



Site: site MOST 3M

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: GSM MOBILE PHONE

Distance:

MN: TZ8300

Mode: CAMERA

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | cm | degree | |
| 1 | | 133.7899 | 8.02 | 17.51 | 25.53 | 43.50 | -17.97 | peak | | |
| 2 | | 199.7500 | 14.58 | 17.37 | 31.95 | 43.50 | -11.55 | peak | | |
| 3 | | 302.5700 | 12.95 | 18.60 | 31.55 | 46.00 | -14.45 | peak | | |
| 4 | | 352.0400 | 15.92 | 17.96 | 33.88 | 46.00 | -12.12 | peak | | |
| 5 * | | 399.5700 | 23.65 | 18.69 | 42.34 | 46.00 | -3.66 | QP | | |
| 6 | | 732.2800 | 6.46 | 25.01 | 31.47 | 46.00 | -14.53 | peak | | |

*:Maximum data x:Over limit !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

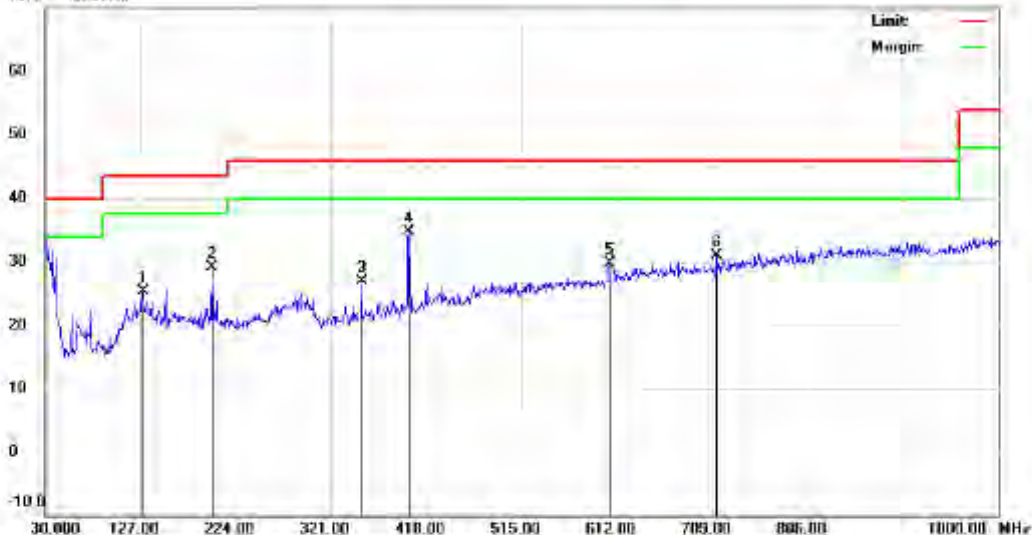
File: TZ8300

Data: #2

Date: 2011-5-10

Time: 22:09:54

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: GSM MOBILE PHONE

Distance:

MN: TZ8300

Mode: CAMERA

Note:

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Antenna Height cm | Table Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|-------------------------|-----------------|---------|
| 1 | | 128.9400 | 7.67 | 17.70 | 25.37 | 43.50 | -18.13 | peak | | | |
| 2 | | 199.7500 | 11.73 | 17.37 | 29.10 | 43.50 | -14.40 | peak | | | |
| 3 | | 352.0400 | 8.95 | 17.98 | 26.91 | 46.00 | -19.09 | peak | | | |
| 4 | * | 400.5400 | 16.03 | 18.71 | 34.74 | 46.00 | -11.26 | peak | | | |
| 5 | | 603.2700 | 6.67 | 23.13 | 29.80 | 46.00 | -16.20 | peak | | | |
| 6 | | 713.8500 | 6.24 | 24.66 | 30.90 | 46.00 | -15.10 | peak | | | |

*:Maximum data x:Over limit !:over margin



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

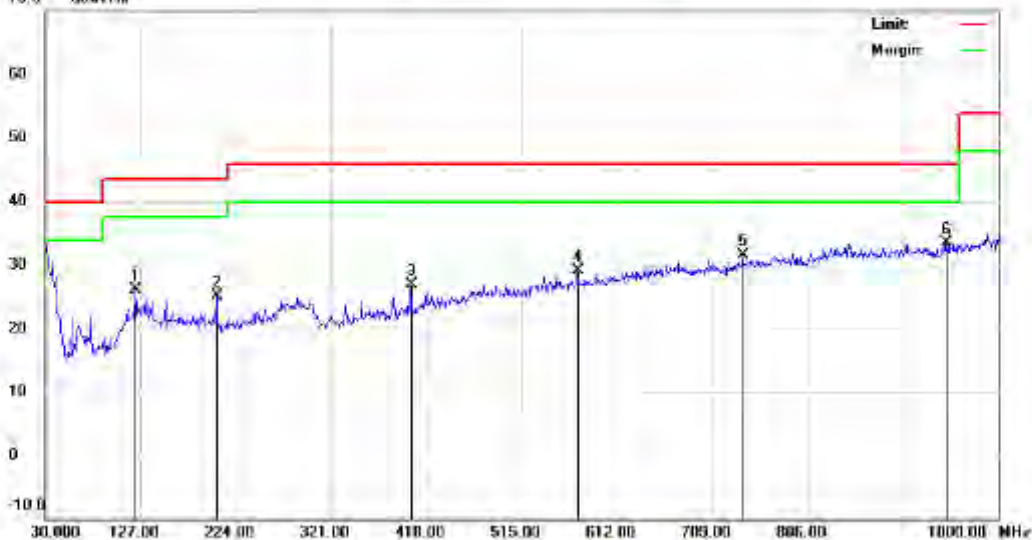
File: TZ8300

Data: #3

Date: 2011-5-10

Time: 22:12:27

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: GSM MOBILE PHONE

Distance:

MN: TZ8300

Mode: WIFI

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | |
|-----|-----|----------|---------|---------|----------|--------|--------|---------|--------|---------|
| | | MHz | Level | Factor | ment | | | Height | Degree | Comment |
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | cm | degree | |
| 1 | | 122.1500 | 8.45 | 17.59 | 26.04 | 43.50 | -17.46 | peak | | |
| 2 | | 204.6000 | 7.84 | 17.17 | 25.01 | 43.50 | -18.49 | peak | | |
| 3 | | 401.5100 | 8.23 | 18.73 | 26.96 | 46.00 | -19.04 | peak | | |
| 4 | | 571.2600 | 6.31 | 22.87 | 29.18 | 46.00 | -16.82 | peak | | |
| 5 | | 740.0400 | 5.96 | 25.50 | 31.46 | 46.00 | -14.54 | peak | | |
| 6 | * | 946.6500 | 5.74 | 27.77 | 33.51 | 46.00 | -12.49 | peak | | |

*:Maximum data x:Over limit !:over margin



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

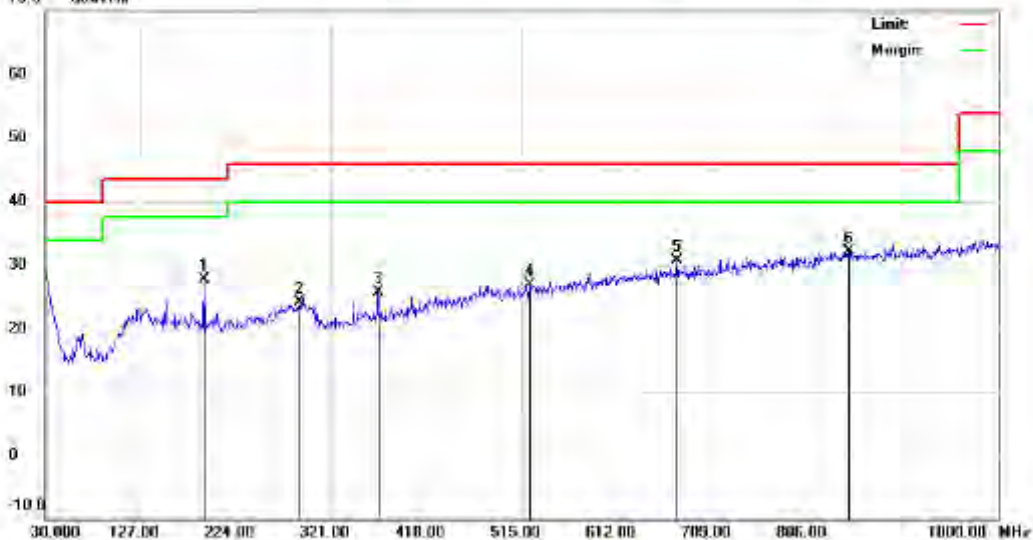
File: TZ8300

Data: #4

Date: 2011-5-10

Time: 22:14:47

70.0 dBuV/m



Site: site MOST 3M

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: GSM MOBILE PHONE

Distance:

MN: TZ8300

Mode: WIFI

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | |
|-----|-----|----------|---------|---------|----------|--------|--------|---------|--------|---------|
| | | MHz | Level | Factor | ment | | | Height | Degree | Comment |
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | cm | degree | |
| 1 | | 191.9900 | 10.95 | 16.70 | 27.65 | 43.50 | -15.85 | peak | | |
| 2 | | 288.9900 | 4.76 | 19.41 | 24.17 | 46.00 | -21.83 | peak | | |
| 3 | | 368.5299 | 7.49 | 18.21 | 25.70 | 46.00 | -20.30 | peak | | |
| 4 | | 522.7599 | 4.86 | 21.94 | 26.82 | 46.00 | -19.18 | peak | | |
| 5 | | 673.1100 | 6.12 | 24.53 | 30.65 | 46.00 | -15.35 | peak | | |
| 6 | * | 847.7100 | 5.07 | 27.13 | 32.20 | 46.00 | -13.80 | peak | | |

*:Maximum data x:Over limit !:over margin



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

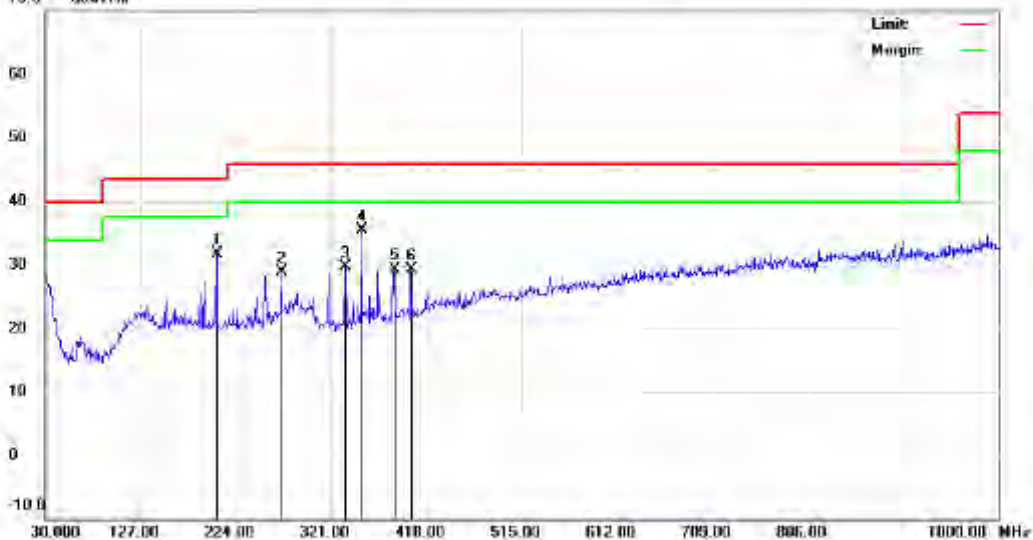
File: TZ8300

Data: #6

Date: 2011-5-10

Time: 22:17:26

70.0 dBuV/m



Site: site MOST 3M

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: GSM MOBILE PHONE

Distance:

MN: TZ8300

Mode: BLUETOOTH

Note:

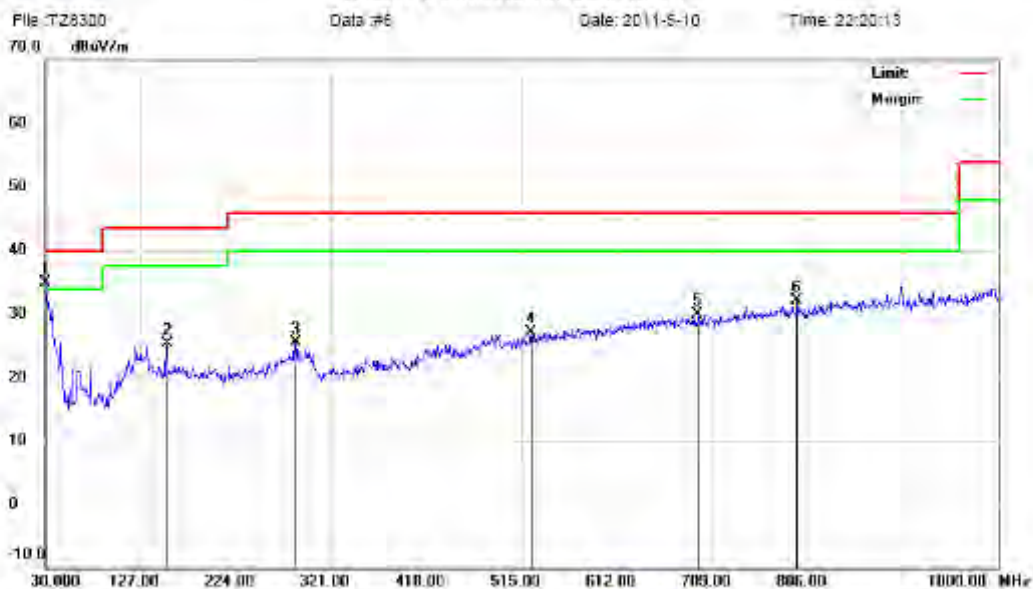
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Antenna Height cm | Table Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|-------------------------|-----------------|---------|
| 1 | | 204.6000 | 14.44 | 17.17 | 31.61 | 43.50 | -11.89 | peak | | | |
| 2 | | 270.5600 | 9.86 | 18.93 | 28.81 | 46.00 | -17.19 | peak | | | |
| 3 | | 335.5500 | 12.63 | 17.06 | 29.69 | 46.00 | -16.31 | peak | | | |
| 4 | * | 352.0400 | 17.51 | 17.96 | 35.47 | 46.00 | -10.53 | peak | | | |
| 5 | | 385.0200 | 11.07 | 18.20 | 29.27 | 46.00 | -16.73 | peak | | | |
| 6 | | 401.5100 | 10.49 | 18.73 | 29.22 | 46.00 | -16.78 | peak | | | |

*:Maximum data x:Over limit !:over margin



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement



Site: site MOST 3M

Polarization: Vertical

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61%

EUT: GSM MOBILE PHONE

Distance:

WN: TZ8300

Mode: BLUETOOTH

Note:

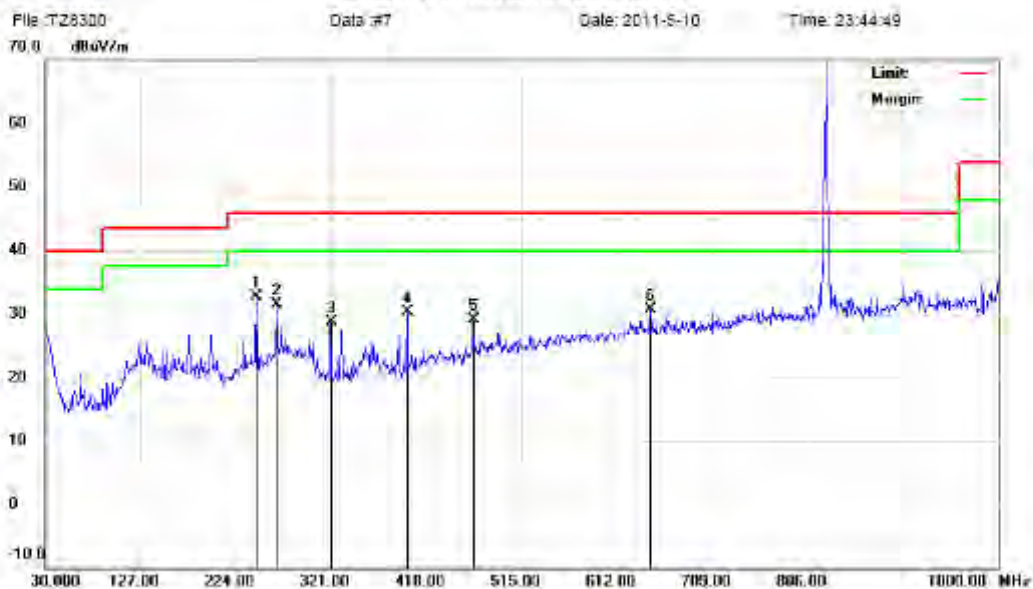
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Antenna Height cm | Table Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|-------------------------|-----------------|---------|
| 1 | * | 30.0000 | 10.10 | 24.80 | 34.90 | 40.00 | -5.10 | peak | | | |
| 2 | | 153.1900 | 8.68 | 16.69 | 25.37 | 43.50 | -18.13 | peak | | | |
| 3 | | 284.1400 | 6.07 | 19.44 | 25.51 | 46.00 | -20.49 | peak | | | |
| 4 | | 524.7000 | 5.15 | 22.04 | 27.19 | 46.00 | -18.81 | peak | | | |
| 5 | | 694.4500 | 5.35 | 24.53 | 29.88 | 46.00 | -16.12 | peak | | | |
| 6 | | 795.3300 | 6.07 | 25.94 | 32.01 | 46.00 | -13.99 | peak | | | |

*:Maximum data x:Over limit !:over margin



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement



Site: site MOST 3M

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61%

EUT: GSM MOBILE PHONE

Distance:

WN: TZ8300

Mode: CALL

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | |
|-----|-----|----------|---------|---------|----------|--------|--------|---------|--------|---------|
| | | MHz | Level | Factor | ment | | | Height | Degree | Comment |
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | cm | degree | |
| 1 | * | 245.3400 | 15.24 | 17.40 | 32.64 | 46.00 | -13.36 | peak | | |
| 2 | | 265.7099 | 13.11 | 18.35 | 31.46 | 46.00 | -14.54 | peak | | |
| 3 | | 320.0299 | 11.67 | 17.00 | 28.67 | 46.00 | -17.33 | peak | | |
| 4 | | 398.6000 | 11.56 | 18.66 | 30.22 | 46.00 | -15.78 | peak | | |
| 5 | | 465.5299 | 8.21 | 20.98 | 29.19 | 46.00 | -16.81 | peak | | |
| 6 | | 645.9500 | 6.60 | 24.06 | 30.66 | 46.00 | -15.34 | peak | | |

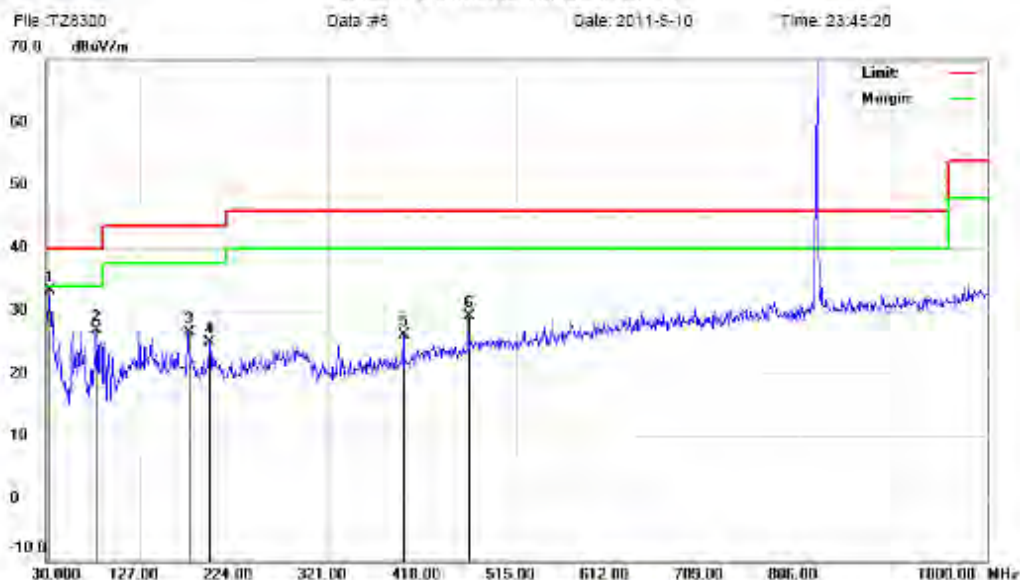
*:Maximum data x:Over limit !:over margin

Notes: The spikes which exceed the limit should be ignored because they are MS and SS carrier frequency.



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement



Site: site MOST 3M

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: GSM MOBILE PHONE

Distance:

MN: TZ8300

Mode: CALL

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | |
|-----|-----|----------|---------|---------|----------|--------|--------|---------|--------|---------|
| | | MHz | Level | Factor | ment | | | Height | Degree | |
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | cm | degree | Comment |
| 1 | * | 33.8800 | 11.26 | 21.81 | 33.07 | 40.00 | -6.93 | peak | | |
| 2 | | 82.3799 | 15.56 | 11.35 | 26.91 | 40.00 | -13.09 | peak | | |
| 3 | | 176.4699 | 9.54 | 16.88 | 26.42 | 43.50 | -17.08 | peak | | |
| 4 | | 198.7800 | 7.64 | 17.27 | 24.91 | 43.50 | -18.59 | peak | | |
| 5 | | 398.8000 | 7.53 | 18.66 | 26.19 | 46.00 | -19.81 | peak | | |
| 6 | | 465.5299 | 8.04 | 20.98 | 29.02 | 46.00 | -16.98 | peak | | |

*:Maximum data x:Over limit !:over margin

Notes: The spikes which exceed the limit should be ignored because they are MS and SS carrier frequency.

The worst test data above 1 GHz was showed as the follow:

Operation Mode: CALL(850MHz)

Test Date: May. 10, 2011

Temperature: 24°C

Tested by: Petter Ping

Humidity: 70 % RH

Polarity: Ver. / Hor.

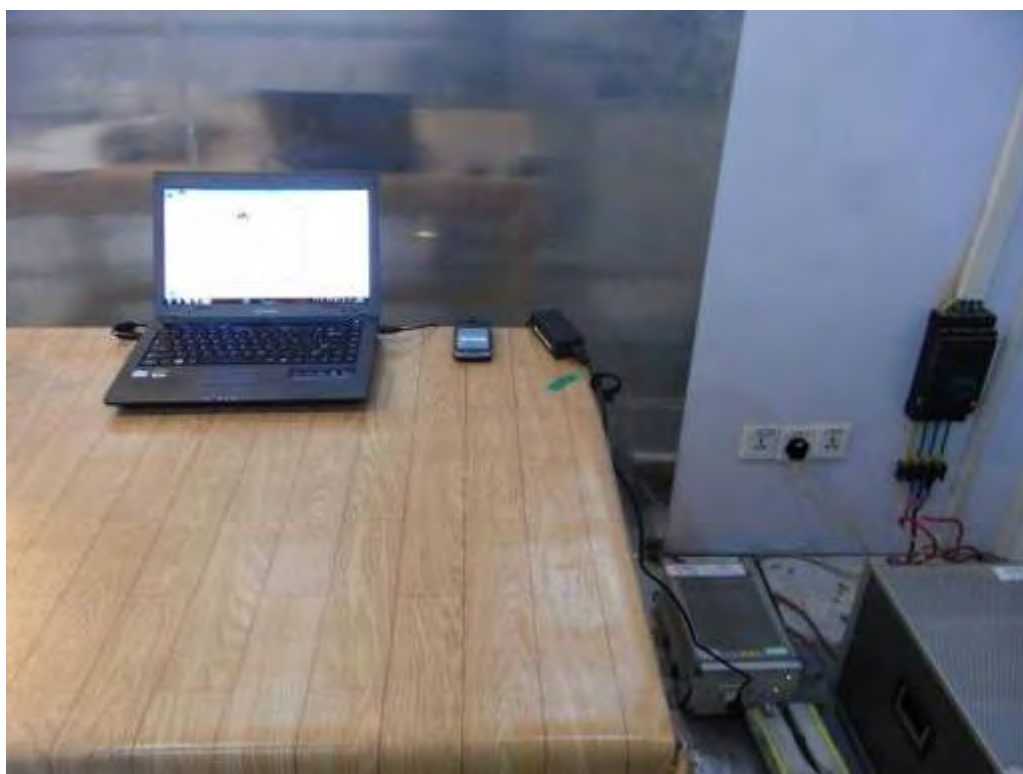
| Freq. (MHz) | Ant. H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant./CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Peak Margin (dB) | AV Margin (dB) |
|----------------|-------------|---------------------------|-------------------------|-----------------------|------------------|----------------|---------------------------|-------------------------|------------------------|----------------------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1717.50 | H | 56.32 | 39.45 | 9.06 | 65.38 | 48.51 | 74.00 | 54.00 | -8.62 | -5.49 |
| 2765.50 | H | 53.27 | 37.09 | 9.09 | 62.36 | 46.18 | 74.00 | 54.00 | -11.64 | -7.82 |
| N/A | | | | | | | | | | >20 |
| 1717.50 | V | 57.41 | 40.14 | 9.06 | 66.47 | 49.20 | 74.00 | 54.00 | -7.53 | -4.80 |
| 2765.00 | V | 53.83 | 36.95 | 9.09 | 62.92 | 46.04 | 74.00 | 54.00 | -11.08 | -7.96 |
| N/A | | | | | | | | | | >20 |

Notes:

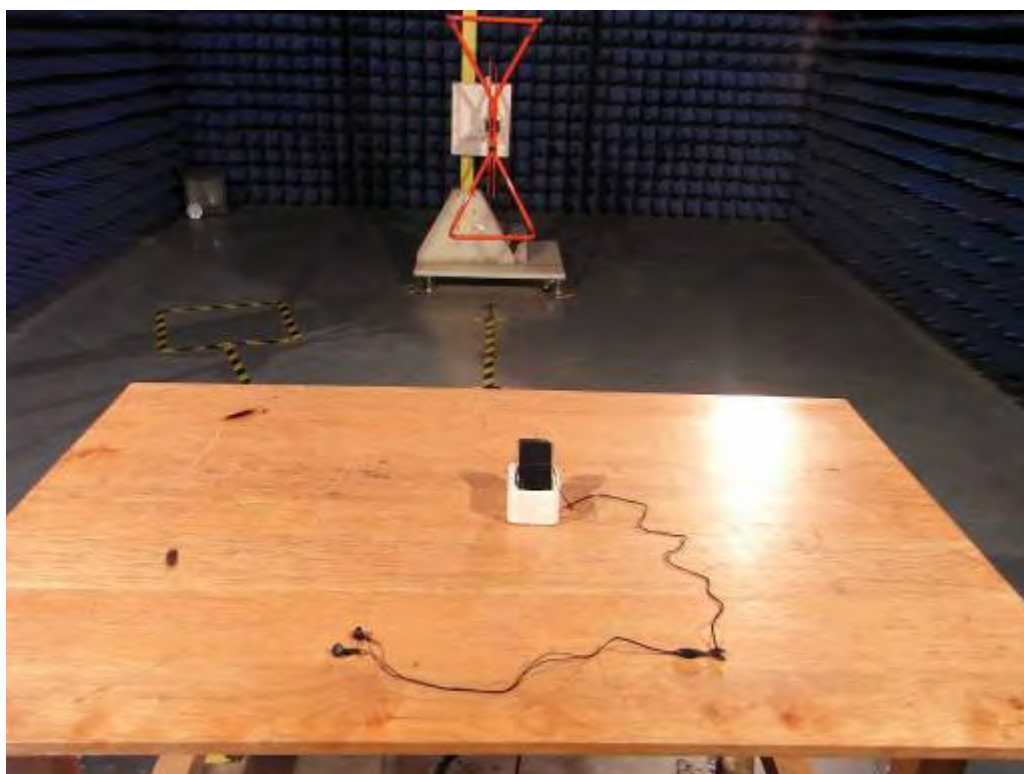
1. Measuring frequencies from 1 GHz to 6GHz.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
3. The frequency that above 3GHz is mainly from the environment noise.

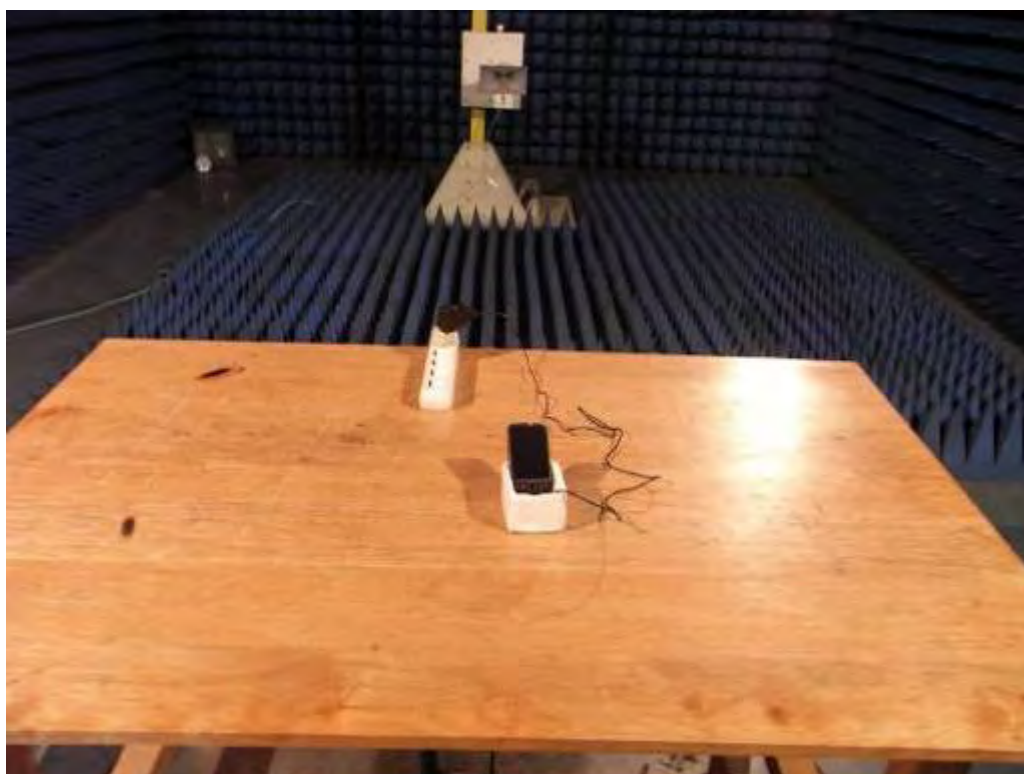
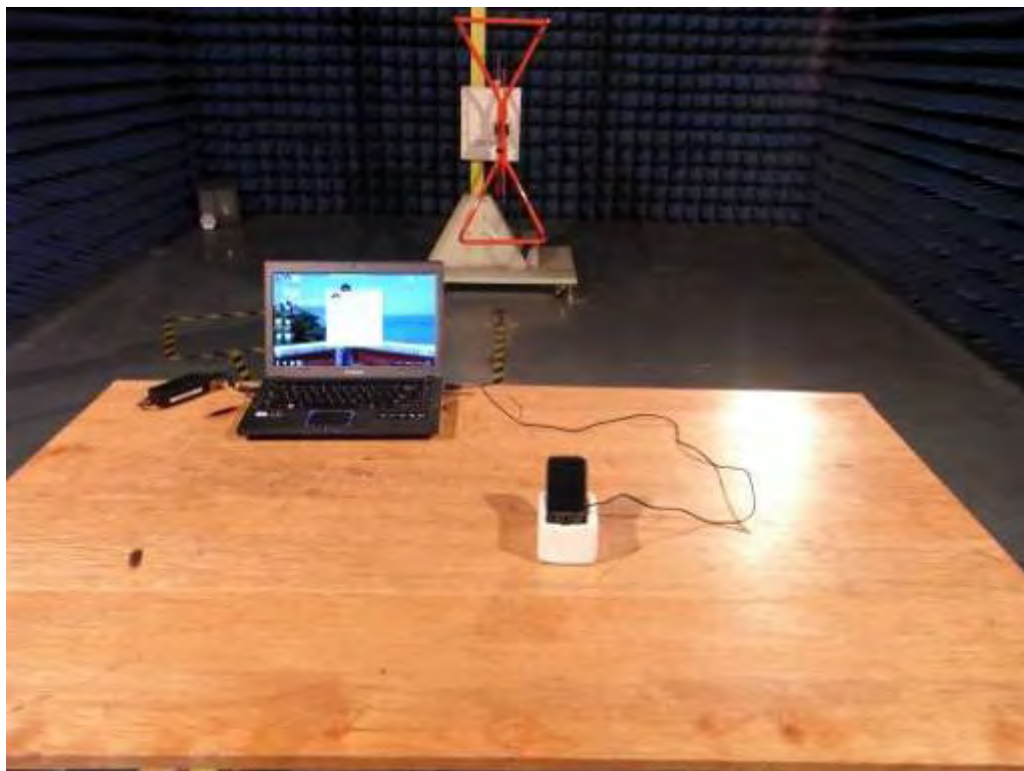
APPENDIX 1
PHOTOGRAPHS OF TEST SETUP

CE TEST SETUP



RE TEST SETUP





APPENDIX 2
PHOTOGRAPHS OF EUT

FRONT VIEW OF SAMPLE



BACK VIEW OF SAMPLE



LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



TOP VIEW OF SAMPLE



BOTTOM VIEW OF SAMPLE



PHOTO OF USB LINE



PHOTO OF EARPHONE



PHOTO OF POWER SUPPLY



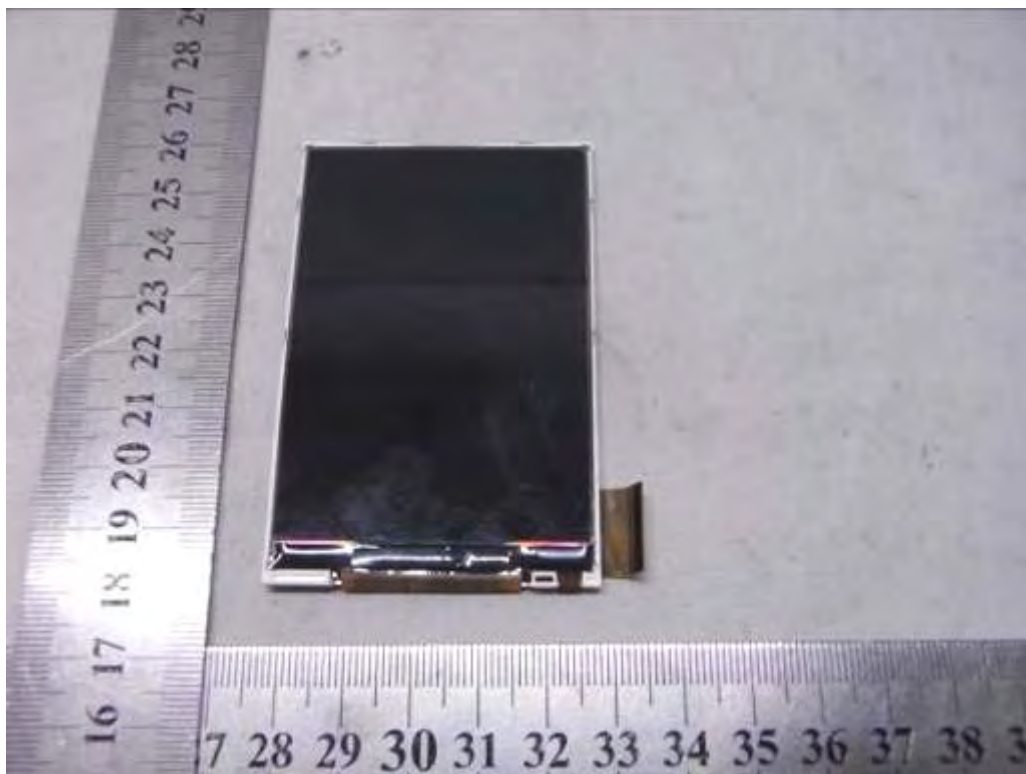
PHOTO OF BATTERY



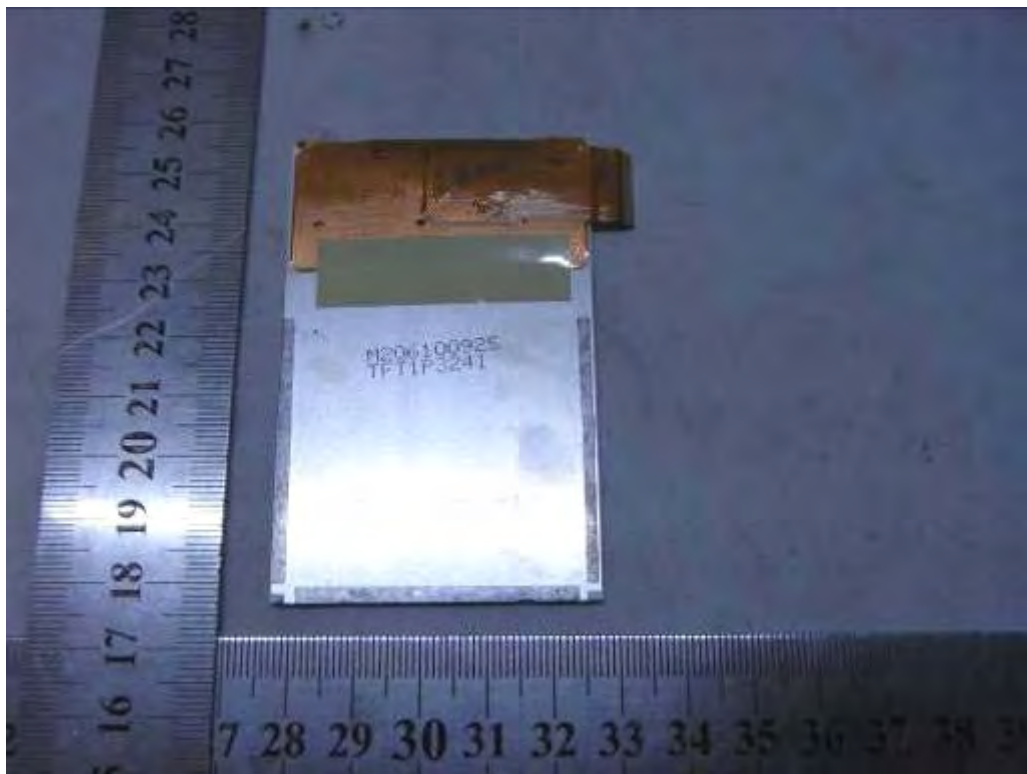
PHOTO OF THE ENTIRE SAMPLE



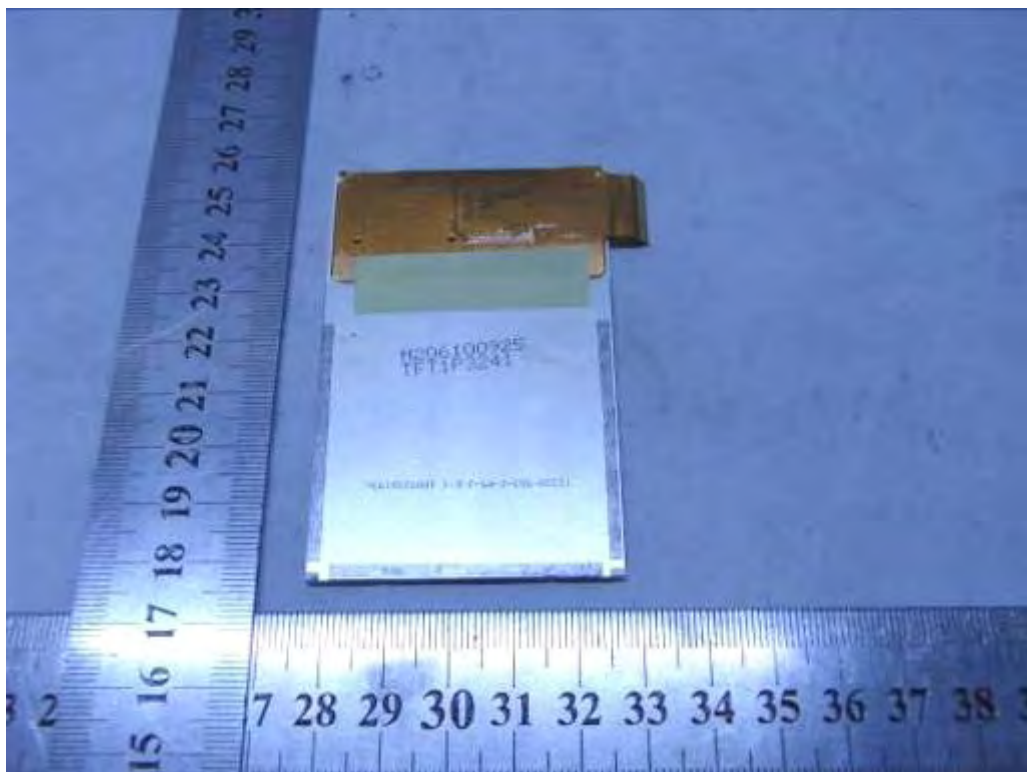
INTERNAL PHOTO OF SAMPLE – 1



INTERNAL PHOTO OF SAMPLE – 2



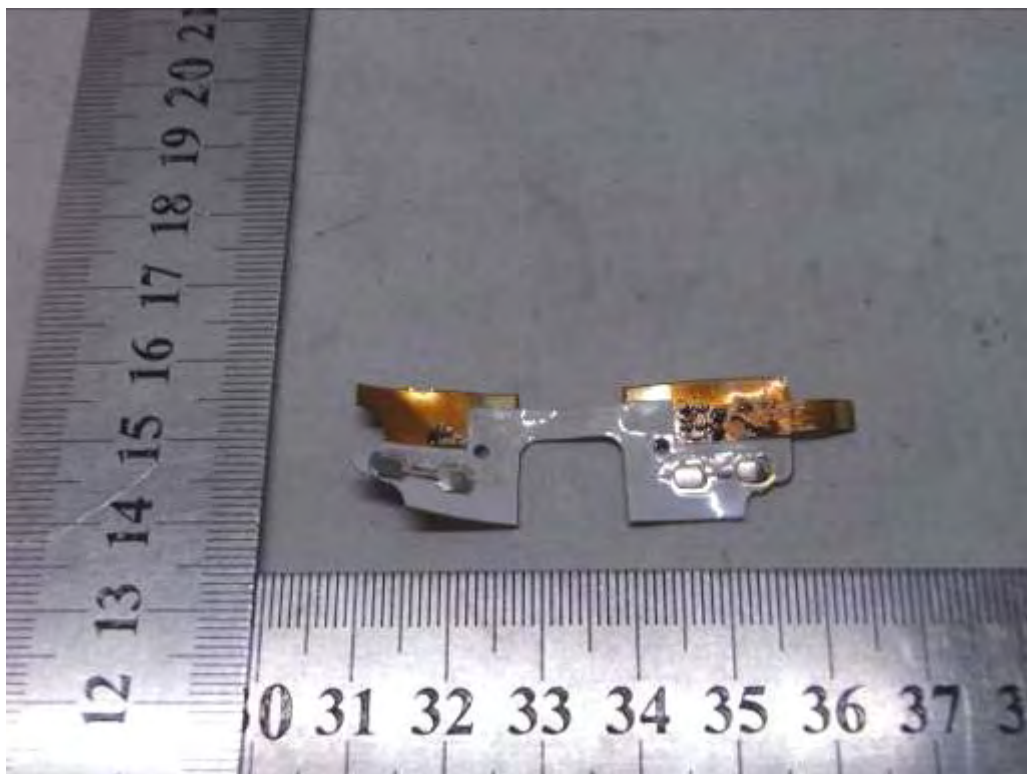
INTERNAL PHOTO OF SAMPLE –3



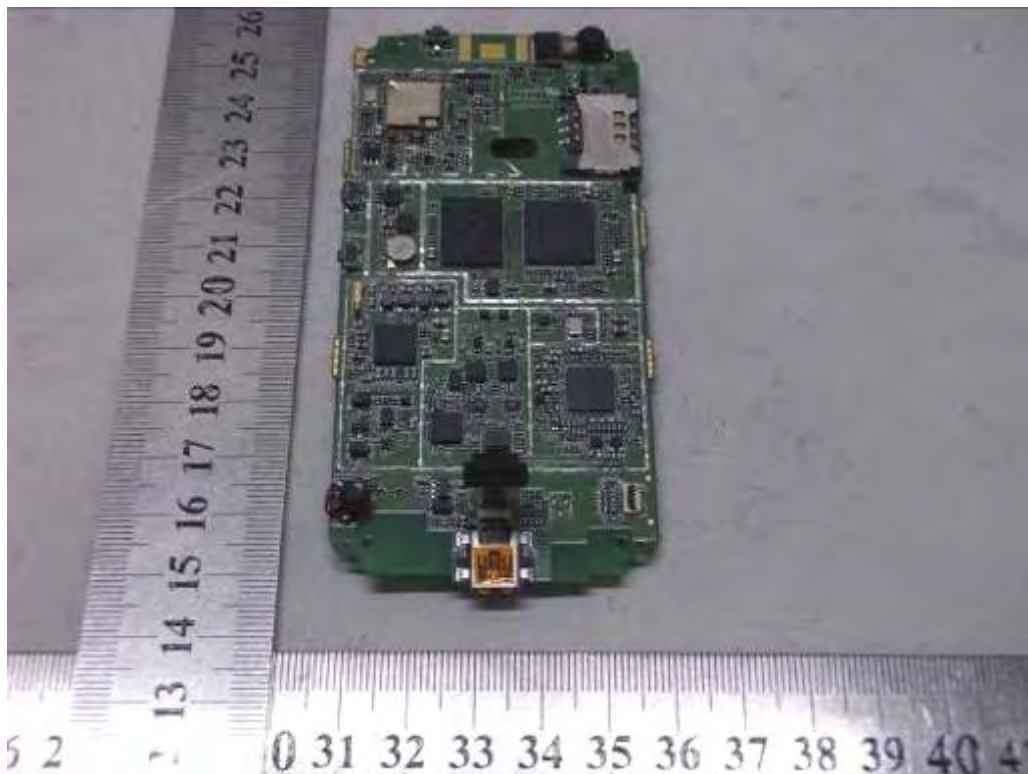
INTERNAL PHOTO OF SAMPLE -4



INTERNAL PHOTO OF SAMPLE -5



INTERNAL PHOTO OF SAMPLE -6



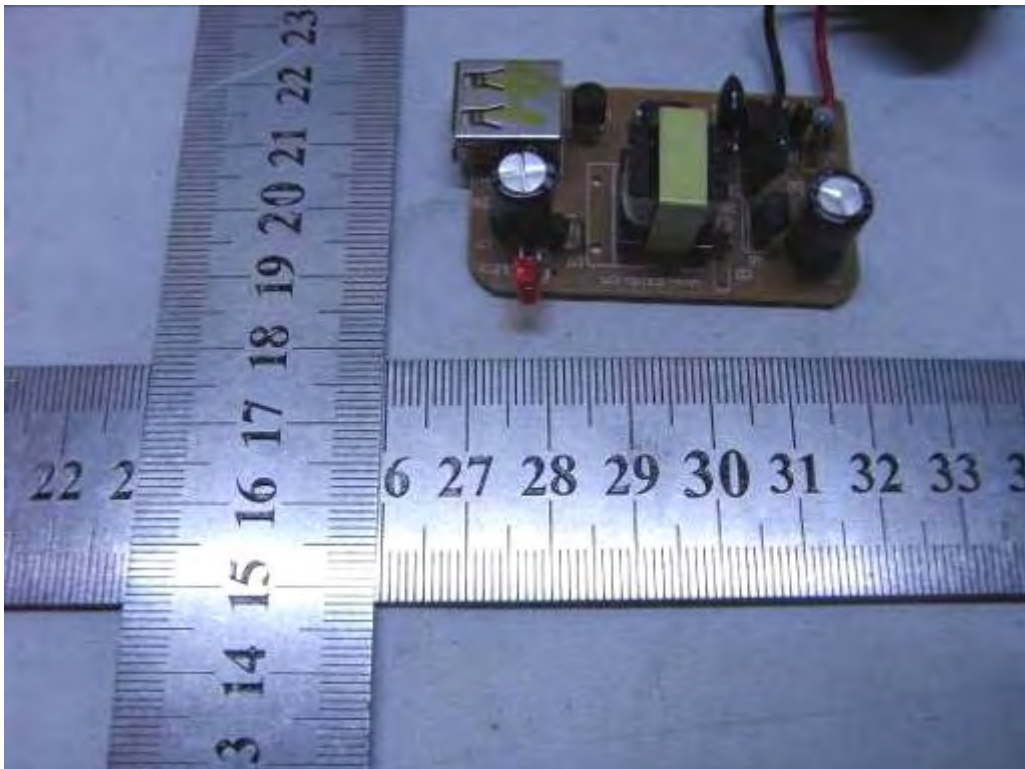
INTERNAL PHOTO OF SAMPLE -7



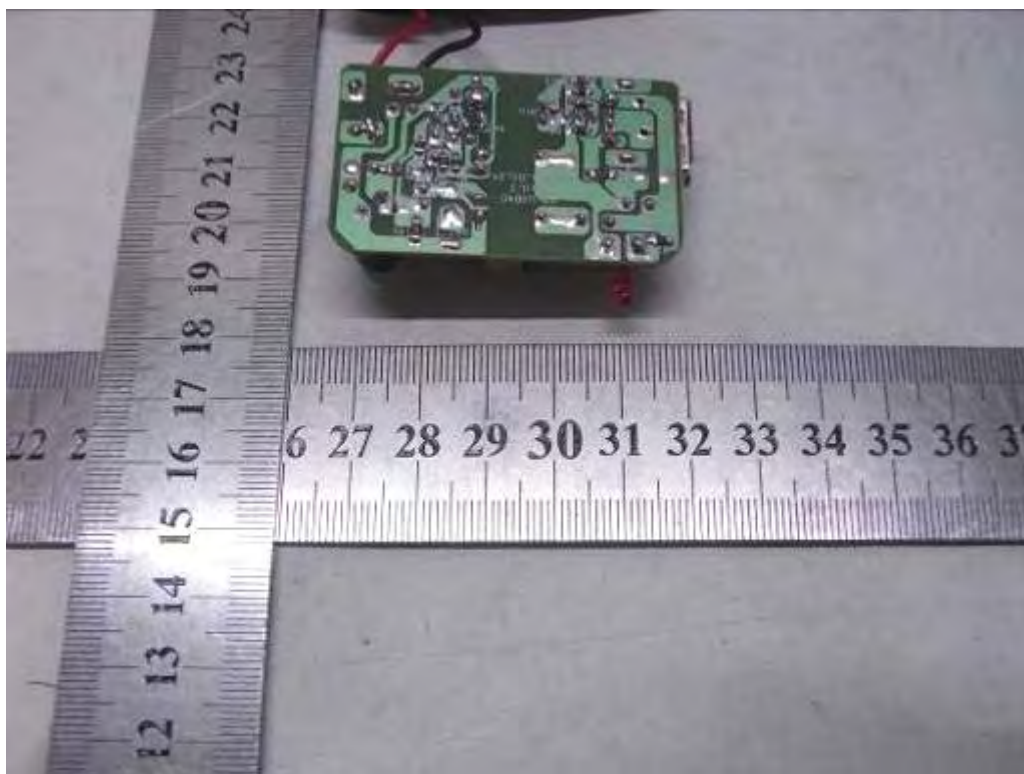
INTERNAL PHOTO OF SAMPLE -8



INTERNAL PHOTO OF POWER SUPPLY-1



INTERNAL PHOTO OF POWER SUPPLY-2



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