Report No.: KS110407B02-RP1

FCC ID: ZFT-K107

Date of Issue: April 14, 2011

FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E

TEST REPORT

For

Mobile Phone

Model: K107, P30D

Trade Name: B-mobile

Issued to

Global Mobile Communication (HK) Ltd.,

7/F,Kin On Commercial Building,49-51 Jervois Street,Sheung Wan,HongKong,China

Issued by

COMPLIANCE CERTIFICATION SERVICES (KUNSHAN) INC.

10#Weiye Rd, Innovation Park Eco. & Tec. Development Zone
Kunshan city JiangSu, (215300) CHINA

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Revision History

| Rev. | Issue Date | Revisions | Effect Page | Revised By |
|------|----------------|---------------|----------------|------------|
| 00 | April 14, 2011 | Initial Issue | ALL | Hadiif Hoo |
| | | | | |

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1. TEST RESULT CERTIFICATION

Applicant: Global Mobile Communication (HK) Ltd.,

7/F,Kin On Commercial Building,49-51 Jervois Street,Sheung

Wan, HongKong, China

Manufacturer: Water World Technology Co., Ltd

6 Floor, Block B, Digital Building, Garden City, No. 1079. Nanhai

Road, NanshanDistrict, Shenzhen, Guangdong, China

Equipment Under Test: Mobile Phone

Trade Name: B-mobile

Model Number: K107, P30D

Date of Test: April 12,2011-April 14,2011

| APPLICABLE STANDARDS | | | | |
|--|-------------------------|--|--|--|
| STANDARD TEST RESULT | | | | |
| FCC 47 CFR Part 22 Subpart H & Part 24 Subpart E | No non-compliance noted | | | |

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2009 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 Subpart H and PART 24 Subpart E.

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

Approved by:

Hadiif Hoo

RF Manager

Nachrit. 400

Compliance Certification Service Inc.

Reviewed by:

Sean Yu Test Engineer

Compliance Certification Service Inc.

Sean yu



Report No.: KS110407B02-RP1 FCC ID: ZFT-K107 Date of Issue: April 14, 2011

2. EUT DESCRIPTION

| Product | Mobile Phone |
|-----------------------------------|---|
| Trade Name | B-mobile |
| Model Number | K107, P30D |
| Model Discrepancy | Only a market segment |
| Power Supply | Powered from an AC/DC power adapter Input: 100-240VAC 50/60Hz, 0.2A Output: DC 5V, 0.5A Rechargeable battery Li-polymer 3.7V 600mAh |
| Frequency Range | GSM: 850: 824 ~ 849 MHz GSM: 1900: 1850 ~ 1910 MHz |
| Transmit Power (ERP & EIRP Power) | GSM 850: 31.46 dBm GSM 1900: 3€.29 dBm |
| Modulation Technique | GSM: GMSK |
| Antenna Gain 1 dBi | |
| Antenna Type | PIFA Antenna |

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- 2. This submittal(s) (test report) is intended for <u>FCC ID: ZFT-K107</u> filing to comply with Part 22 and Part 24 of the FCC 47 CFR Rules.



3. TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4: 2009, TIA/EIA-603-C: 2004 and FCC CFR 47, Part 2. PART 22 SUBPART H AND PART 24 SUBPART E

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4: 2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4: 2009.

3.4 DESCRIPTION OF TEST MODES

The EUT (model: Gobi2) had been tested under operating condition.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

EUT staying in continuous transmitting mode was programmed.

GSM

Channel Low (CH128), Channel Mid (CH190) and Channel High (CH251) were chosen for full testing.

GSM

Channel Low (CH512), Channel Mid (CH661) and Channel High (CH810) were chosen for full testing.



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4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

| Conducted Emissions Test Site | | | | | | | |
|-------------------------------|---------------|-----------|---------------|-----------------|--|--|--|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due | | | |
| Spectrum Analyzer | Agilent | E4446A | MY44020154 | 04/24/2011 | | | |
| DETECTOR NEGATIVE | Agilent | 8473B | MY42240176 | 10/05/2011 | | | |
| OSCILLOSCOPE | Agilent | DSO6104A | MY44002585 | 11/20/2011 | | | |
| Peak and Avg Power Sensor | Agilent | E9327A | US40441788 | 10/31/2011 | | | |
| EPM-P Series Power Meter | Agilent | E4416A | GB41292714 | 10/31/2011 | | | |
| Power SPLITTER | Mini-Circuits | ZN2PD-9G | SF078500430 | 07/29/2011 | | | |
| DC POWER SUPPLY | GW instek | GPS-3303C | E903131 | 10/18/2011 | | | |
| Temp. / Humidity Chamber | Kingson | THS-M1 | 242 | 11/16/2011 | | | |

| | 977 Chamber | | | | | | | |
|--------------------------------|--------------|-------------|---------------|-----------------|--|--|--|--|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due | | | | |
| Spectrum Analyzer | Agilent | E4446A | MY44020154 | 04/24/2011 | | | | |
| Spectrum Analyzer | Agilent | E4446A | US44300398 | 04/24/2011 | | | | |
| EMI Test Receiver | R&S | ESPI3 | 101026 | 04/24/2011 | | | | |
| Pre-Amplfier | MINI | ZFL-1000VH2 | d041703 | 02/28/2012 | | | | |
| Pre-Amplfier | Miteq | NSP4000-NF | 870731 | 02/28/2012 | | | | |
| Bilog Antenna | Sunol | JB1 | A110204-2 | 11/22/2011 | | | | |
| Horn-antenna | SCHWARZBECK | BBHA9120D | D:266 | 12/04/2011 | | | | |
| PSG Analog Signal Generator | Agilent | E8257C | MY43321570 | 04/24/2011 | | | | |
| Turn Table | СТ | CT123 | 4165 | N.C.R | | | | |
| Antenna Tower | СТ | CTERG23 | 3256 | N.C.R | | | | |
| Controller | СТ | CT100 | 95637 | N.C.R | | | | |
| Site NSA | CCS | N/A | N/A | 04/06/2012 | | | | |



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| Conducted Emission | | | | | | |
|-------------------------------------|--------------|-----------------------------|---------------|-----------------|--|--|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due | | |
| EMC Receiver | R&S | ESCI3 | 100781 | 04/24/2011 | | |
| V (V-LISN) | Schwarzbeck | NNLK 8129 | 8129-143 | 04/24/2011 | | |
| LISN (EUT) | FCC | FCC-LISN-50/250- 50-2-02 | SN:05012 | 04/24/2011 | | |
| TRANSIENT LIMITER | SCHAFFNER | CFL9206 | 1710 | 04/24/2011 | | |
| RF Current Probe | FCC | F-65A | 147 | 04/24/2011 | | |
| Programmable temp.&humidity chamber | KSON | THS-D2C-150 | 2982 | 03/12/2012 | | |

Remark: Each piece of equipment is scheduled for calibration once a year.

4.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETR 028:

| Measurement | | Frequency | Uncertainty |
|---------------------|-----|-----------------|-------------|
| Conducted emissions | | 9kHz~30MHz | +/- 3.43dB |
| | Н | 30MHz ~ 200MHz | +/- 4.72dB |
| Radiated | | 200MHz ~1000MHz | +/- 4.72dB |
| emissions | V | 30MHz ~ 200MHz | +/- 4.83dB |
| | V [| 200MHz ~1000MHz | +/- 4.70dB |

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

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5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

No.10Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA A2LA CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada Industry Canada VCCI

Taiwan BSMI
USA FCC

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsrf.com.



6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

| No. | Device Type | Brand | Model | FCC ID | Series No. | Data Cable | Power Cord |
|-----|-------------|-------|-------|--------|------------|------------|------------|
| N/A | | | | | | | |

Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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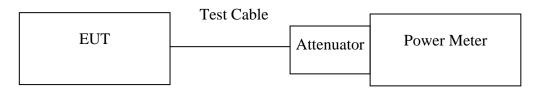
7. FCC PART 22 & 24 REQUIREMENTS

7.1 **PEAK POWER**

LIMIT

According to FCC §2.1046.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

TEST RESULTS

No non-compliance noted.

Test Data

| Test Mode | СН | Frequency (MHz) | Peak Power (dBm) |
|-----------|-----|--------------------|---------------------|
| | 128 | 824.20 | 30.77 |
| GSM 850 | 190 | 836.40 | 31.21 |
| | 251 | 848.80 | 31.41 |

| Test Mode | СН | Frequency (MHz) | Peak Power (dBm) |
|-----------|-----|--------------------|---------------------|
| | 512 | 1850.20 | <i>‱</i> |
| GSM 1900 | 661 | 1880.00 | 2J.04 |
| | 810 | 1910.00 | 27.94 |

Remark: The value of factor includes both the loss of cable and external attenuator



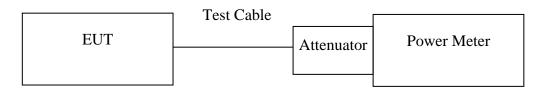
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7.2 AVERAGE POWER

<u>LIMIT</u>

For reporting purposes only.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

TEST RESULTS

No non-compliance noted.

TEST RESULTS

No non-compliance noted.

Test Data

| Test Mode | СН | Frequency (MHz) | AVG Power (dBm) |
|-----------|-----|--------------------|--------------------|
| | 128 | 824.20 | 30.11 |
| GSM 850 | 190 | 836.40 | 31.01 |
| | 251 | 848.80 | 31.22 |

| Test Mode | СН | Frequency (MHz) | AVG Power (dBm) |
|-----------|-----|--------------------|--------------------|
| | 512 | 1850.20 | 28.05 |
| GSM 1900 | 661 | 1880.00 | 28.00 |
| | 810 | 1910.00 | 27.89 |

Remark: The value of factor includes both the loss

of cable and external attenuator

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7.3 ERP & EIRP MEASUREMENT

LIMIT

According to FCC §2.1046

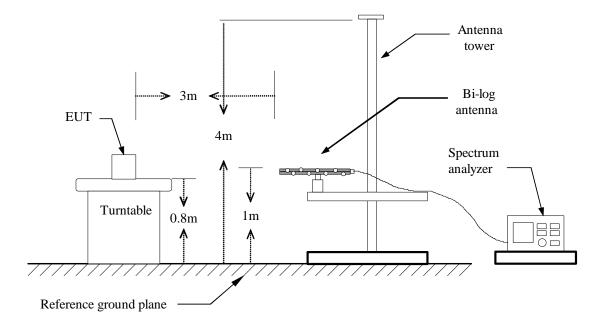
FCC 22.913(a): The Effective Radiated Power (ERP) of mobile transmitters must not exceed

7 Watts.

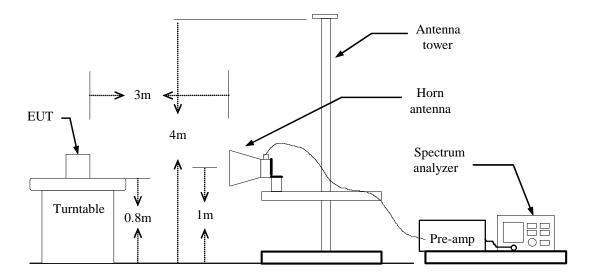
FCC 24.232(b): The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

Test Configuration

Below 1 GHz



Above 1 GHz

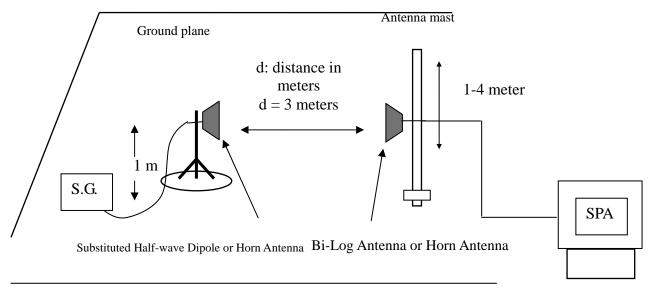




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For Substituted Method Test Set-UP



TEST PROCEDURE

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement of the EUT, the resolution bandwidth was set to 3MHz and the average bandwidth was set to 3MHz. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824-849MHz, and EIRP in frequency band 1851.25 –1910MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (824-849MHz) or horn antenna (1851.25-1910MHz) connected to a signal generator. The spectrum analyzer reading was recorded and ERP/EIRP was calculated as follows:

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)



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TEST RESULTS

No non-compliance noted.

GSM 850 TEST DATA

| Channel | Frequency (MHz) | Antenna Pol. | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|-----------------|----------------------------|------------------------------|----------------------------|----------------|----------------|
| 128 | 824.18 | V | -14.55 | 34.62 | 20.06 | 38.50 | -18.44 |
| 120 | 824.30 | Н | -3.19 | 34.65 | *31.46 | 38.50 | -7.04 |
| 100 | 836.66 | V | -17.44 | 34.53 | 17.09 | 38.50 | -21.41 |
| 190 | 836.78 | Н | -4.32 | 34.63 | 30.31 | 38.50 | -8.19 |
| 251 | 848.84 | V | -16.76 | 34.64 | 17.88 | 38.50 | -20.62 |
| 231 | 848.84 | Н | -5.53 | 34.75 | 29.22 | 38.50 | -9.28 |

GSM 1900 TEST DATA

| Channel | Frequency (MHz) | Antenna Pol. | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|-----------------|----------------------------|------------------------------|----------------------------|----------------|----------------|
| 512 | 1850.10 | V | -9.88 | 42.17 | *32.29 | 33.00 | -4.71 |
| 512 | 1850.00 | Н | -16.29 | 40.79 | 24.50 | 33.00 | -8.50 |
| 661 | 1880.00 | V | -9.99 | 42.23 | 32.24 | 33.00 | -4.76 |
| 661 | 1879.80 | Н | -17.55 | 41.14 | 23.59 | 33.00 | -9.41 |
| 940 | 1909.90 | V | -10.95 | 41.40 | 30.47 | 33.00 | -2.97 |
| 810 | 1909.90 | Н | -17.23 | 41.38 | 24.15 | 33.00 | -8.85 |



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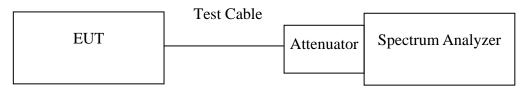
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7.4 OCCUPIED BANDWIDTH MEASUREMENT

LIMIT

According to §FCC 2.1049.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW is set to 3 times the RBW, -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

No non-compliance noted

Test Data

| Test Mode | СН | Frequency (MHz) | 99% Bandwidth (kHz) |
|-----------|-----|--------------------|------------------------|
| | 128 | 824.20 | 243.2002 |
| GSM 850 | 190 | 836.40 | 245.5719 |
| | 251 | 848.80 | 241.7270 |

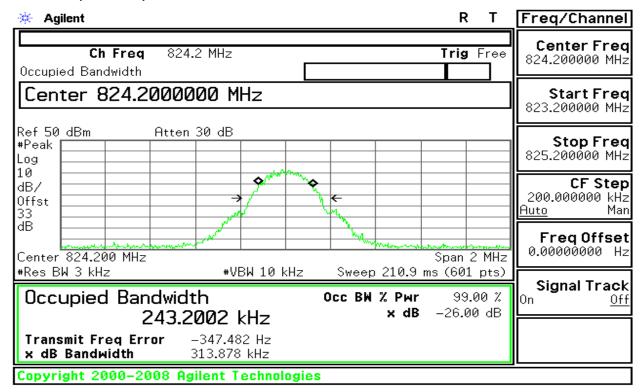
| Test Mode | СН | Frequency (MHz) | 99% Bandwidth (kHz) |
|-----------|-----|--------------------|------------------------|
| GSM 1900 | 512 | 1850.20 | 241.8673 |
| | 661 | 1880.00 | 239.4173 |
| | 810 | 1909.80 | 242.0453 |



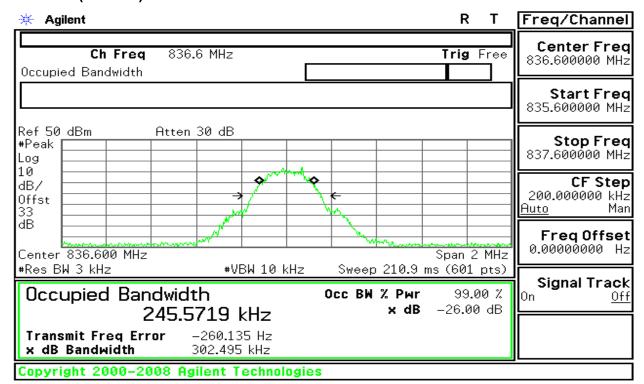
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Test Plot

GSM 850 (CH Low)



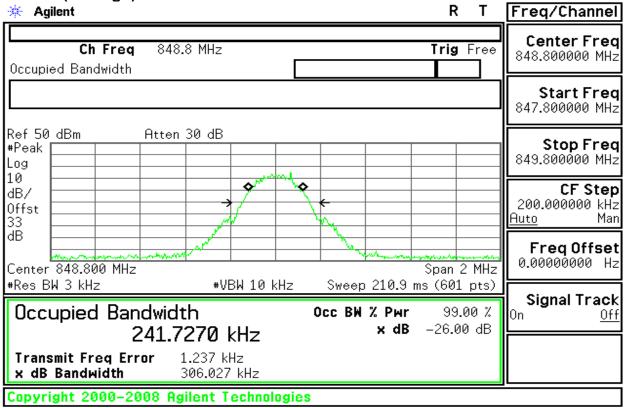
GSM 850 (CH Mid)



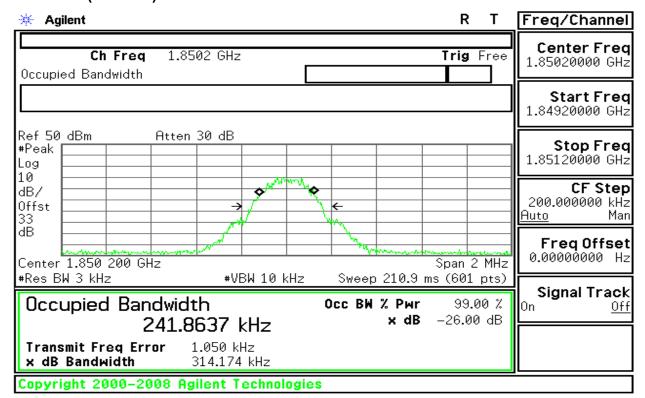


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GSM 850(CH High)



GSM 1900 (CH Low)



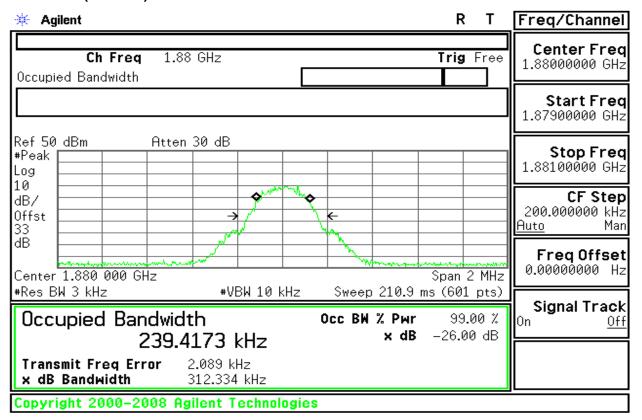


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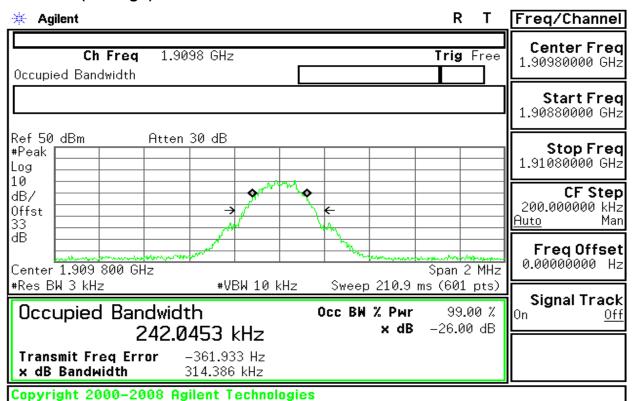
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GSM 1900 (CH Mid)



GSM 1900 (CH High)





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7.5 OUT OF BAND EMISSION AT ANTENNA TERMINALS

<u>LIMIT</u>

According to FCC §2.1051, FCC §22.917, FCC §24.238(a).

<u>Out of Band Emissions:</u> The mean power of emission must be attenuated below the mean power of the non-modulated carrier (P) on any frequency twice or more than twice the fundamental frequency by at lease 43 + 10 log P dB.

Mobile Emissions in Base Frequency Range:

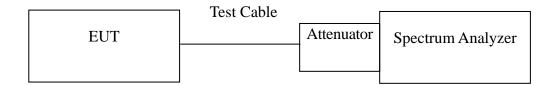
The mean power of any emissions appearing in the base station frequency range from cellular mobile transmitters operated must be attenuated to a level not exceed –80 dBm at the transmit antenna connector.

Band Edge Requirements:

In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at lease 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the Out of band Emission

Test Configuration

Out of band emission at antenna terminals:



TEST PROCEDURE

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm

Band Edge Requirements (824 MHz and 849 MHz /1850MHz and 1910MHz): In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.



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TEST RESULTS

No non-compliance noted.

Test Data

| Mode | СН | Location | Description |
|---------|-----|------------|---------------------|
| GSM 850 | 128 | Figure 3-1 | Band Edge emissions |
| | 251 | Figure 3-2 | Band Edge emissions |

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| Mode | СН | Location | Description |
|----------|-----|------------|---------------------|
| GSM 1900 | 512 | Figure 4-1 | Band Edge emissions |
| | 810 | Figure 4-2 | Band Edge emissions |

| Mode | СН | Location | Description | | |
|---------|-----|------------|---|--|--|
| GSM 850 | 128 | Figure 5-1 | Conducted spurious emissions, 30MHz - 20GHz | | |
| | 190 | Figure 5-2 | Conducted spurious emissions, 30MHz - 20GHz | | |
| | 251 | Figure 5-3 | Conducted spurious emissions, 30MHz - 20GHz | | |

| Mode | СН | Location | Description | |
|----------|----------------|------------|---|--|
| GSM 1900 | 512 Figure 6-1 | | Conducted spurious emissions, 30MHz - 20GHz | |
| | 661 | Figure 6-2 | Conducted spurious emissions, 30MHz - 20GHz | |
| | 810 | Figure 6-3 | Conducted spurious emissions, 30MHz - 20GHz | |

Test Plot

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GSM 850

Figure 3-1: Band Edge emissions – GSM CH Low

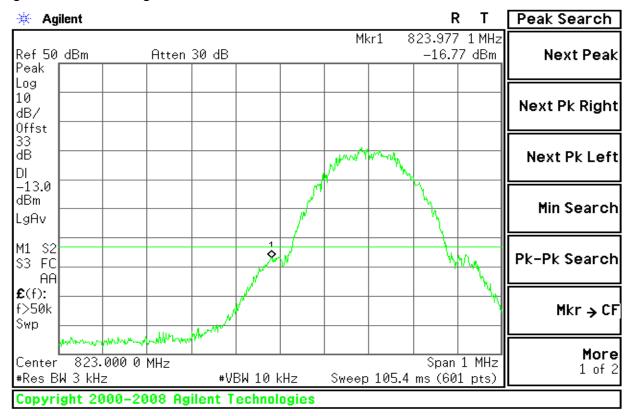
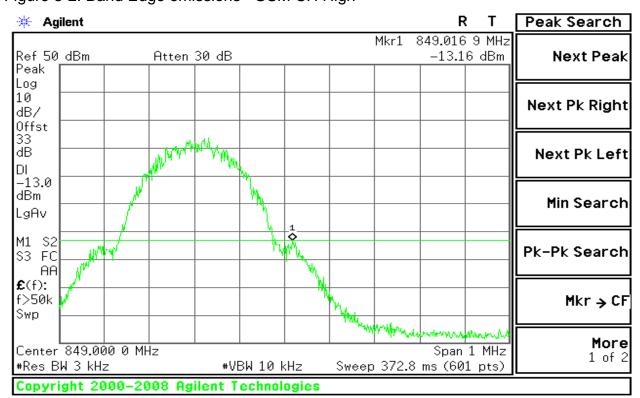


Figure 3-2: Band Edge emissions -GSM CH High





Report No.: KS110407B02-RP1 FCC ID: ZFT-K107

GSM 1900

Figure 4-1: Band Edge emissions – GSM CH Low

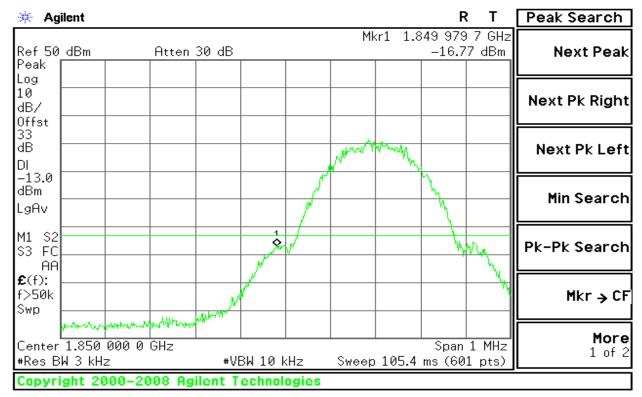
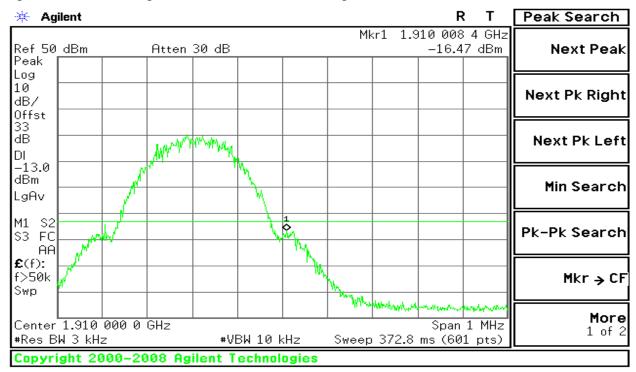


Figure 4-2: Band Edge emissions – GSM CH High



Date of Issue: April 14, 2011



Report No.: KS110407B02-RP1 FCC ID: ZFT-K107 Date of Issue: April 14, 2011

GSM 850

Figure 5-1: Out of Band emission at antenna terminals – GSM CH Low

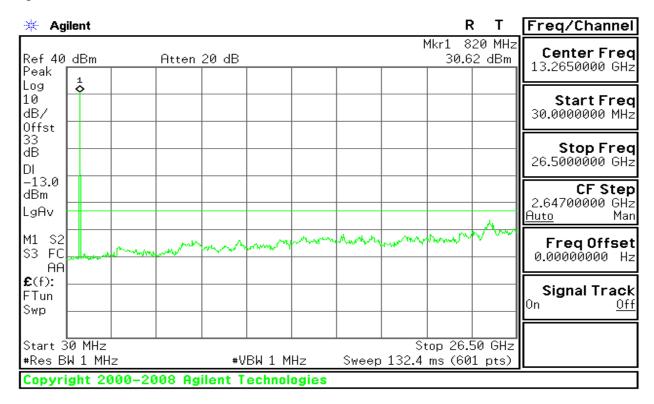
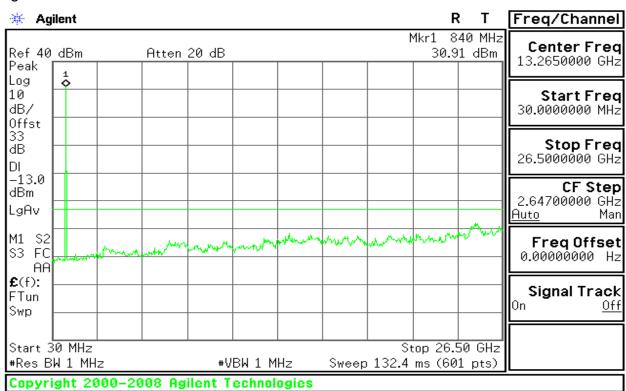


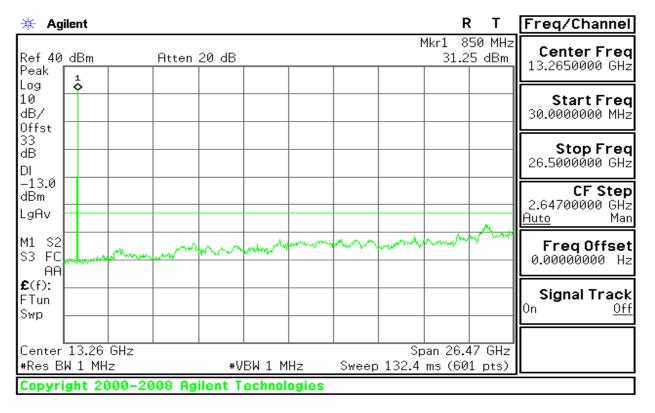
Figure 5-2: Out of Band emission at antenna terminals – GSM CH Mid





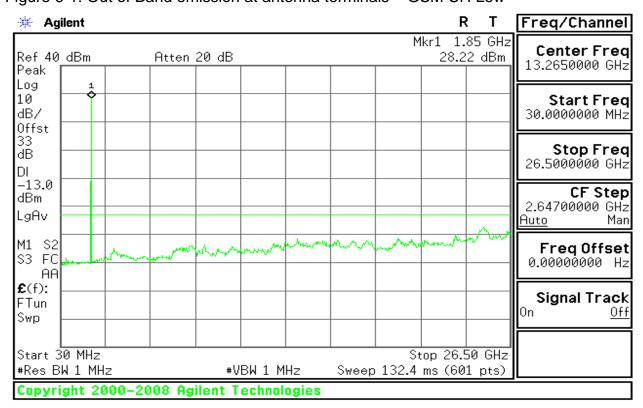
Report No.: KS110407B02-RP1 FCC ID: ZFT-K107 Date of Issue: April 14, 2011

Figure 5-3: Out of Band emission at antenna terminals – GSM CH High



GSM 1900

Figure 6-1: Out of Band emission at antenna terminals - GSM CH Low



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Report No.: KS110407B02-RP1 FCC ID: ZFT-K107 Date of Issue: April 14, 2011

Figure 6-2: Out of Band emission at antenna terminals - GSM CH Mid

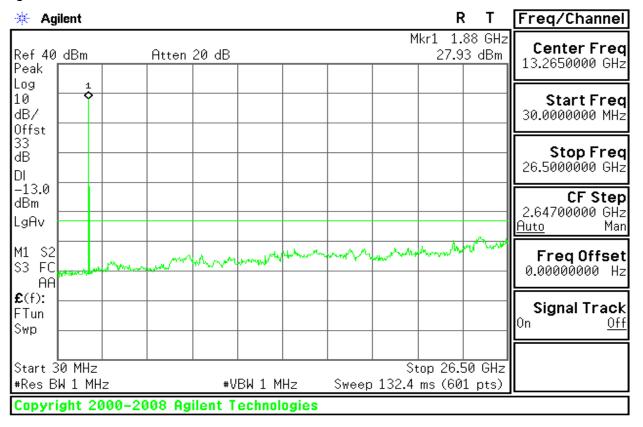
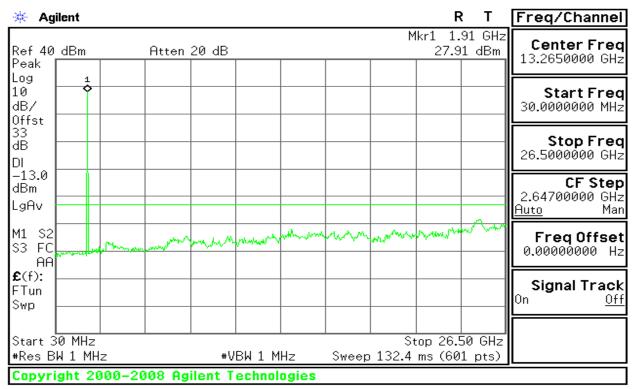


Figure 6-3: Out of Band emission at antenna terminals – GSM CH High



Report No.: KS110407B02-RP1

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Date of Issue: April 14, 2011

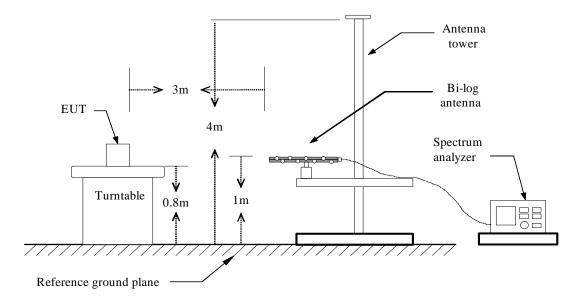
7.6 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

LIMIT

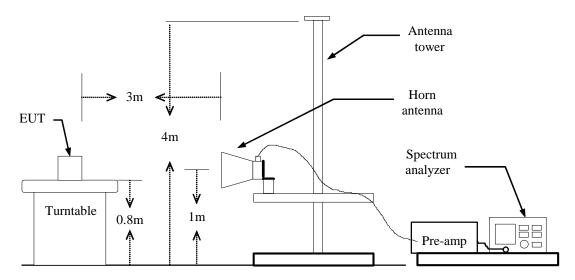
According to FCC §2.1053

Test Configuration

Below 1 GHz



Above 1 GHz



Substituted Method Test Set-up



Report No.: KS110407B02-RP1 FCC ID: ZFT-K107

Ground plane

d: distance in meters
d = 3 meters

I m

S.G.

Substituted Half-wave Dipole or Horn Antenna
Horn Antenna

Date of Issue: April 14, 2011

TEST PROCEDURE

The EUT was placed on a non-conductive, the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)



TEST RESULTS

Refer to the attached tabular data sheets.

Radiated Spurious Emission Measurement Result / Below 1GHz

Operation
Mode:

GSM 850 / TX / CH 128
Test Date: April 12,2011

Temperature: 23°C Tested by: Sean

Humidity: 51 % RH **Polarity:** Ver. / Hor.

| Frequency | Antenna | Reading | Correction Factor | Emission level | Limit | Margin |
|-----------|--------------|---------|--------------------------|-----------------------|--------|--------|
| (MHz) | Polarization | (dBm) | (dB) | (dBm) | (dBm) | (dB) |
| 98.99 | V | -46.77 | -17.68 | -64.45 | -13.00 | -51.45 |
| 241.88 | V | -48.75 | -14.02 | -62.77 | -13.00 | -49.77 |
| 262.71 | V | -74.71 | -13.71 | -88.42 | -13.00 | -75.42 |
| 400.24 | V | -55.12 | -11.22 | -66.34 | -13.00 | -53.34 |
| 498.47 | V | -52.71 | -8.38 | -61.09 | -13.00 | -48.09 |
| 698.71 | V | -52.74 | -6.25 | -58.99 | -13.00 | -45.99 |
| 98.41 | Н | -46.45 | -17.49 | -63.94 | -13.00 | -50.94 |
| 121.25 | Н | -54.24 | -13.57 | -67.81 | -13.00 | -54.81 |
| 264.71 | Н | -52.42 | -14.06 | -66.48 | -13.00 | -53.48 |
| 409.24 | Н | -53.71 | -10.59 | -64.30 | -13.00 | -51.30 |
| 500.75 | Н | -59.14 | -8.27 | -67.41 | -13.00 | -54.41 |
| 698.12 | Н | -57.17 | -6.18 | -63.35 | -13.00 | -50.35 |

- 1. The emission behaviour belongs to narrowband spurious emission.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Mode:

Compliance Certification Services Inc.

Report No.: KS110407B02-RP1 FCC ID: ZFT-K107 Date of Issue: April 14, 2011

Operation

GSM 850 / TX / CH 190

Test Date: December18,2010

Temperature: 23°C

Tested by: Sean

Humidity: 51 % RH

Polarity: Ver. / Hor.

| Frequency | Antenna | Reading | Correction Factor | Emission level | Limit | Margin |
|-----------|--------------|---------|--------------------------|-----------------------|--------|--------|
| (MHz) | Polarization | (dBm) | (dB) | (dBm) | (dBm) | (dB) |
| 131.74 | V | -45.35 | -12.34 | -57.69 | -13.00 | -44.69 |
| 264.74 | V | -48.46 | -13.71 | -62.17 | -13.00 | -49.17 |
| 401.41 | V | -45.35 | -11.17 | -56.52 | -13.00 | -43.52 |
| 697.27 | V | -57.45 | -6.25 | -63.70 | -13.00 | -50.70 |
| 798.47 | V | -58.44 | -4.98 | -63.42 | -13.00 | -50.42 |
| 966.25 | V | -61.54 | -3.03 | -64.57 | -13.00 | -51.57 |
| 129.77 | Н | -45.71 | -13.66 | -59.37 | -13.00 | -46.37 |
| 264.55 | Н | -53.14 | -14.06 | -67.20 | -13.00 | -54.20 |
| 399.62 | Н | -53.24 | -10.96 | -64.20 | -13.00 | -51.20 |
| 451.54 | Н | -54.72 | -9.64 | -64.36 | -13.00 | -51.36 |
| 697.71 | Н | -57.15 | -6.18 | -63.33 | -13.00 | -50.33 |
| 963.41 | Н | -59.72 | -3.10 | -62.82 | -13.00 | -49.82 |

Remark:

1. The emission behaviour belongs to narrowband spurious emission.

2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110407B02-RP1 FCC ID: ZFT-K107 Date of Issue: April 14, 2011

Operation

Mode:

GSM 850 / TX / CH 251

Test Date: April 12,2011

Temperature: 23°C

Tested by: Sean

Humidity: 51 % RH

Polarity: Ver. / Hor.

| Frequency | Antenna | Reading | Correction Factor | Emission level | Limit | Margin |
|-----------|--------------|---------|--------------------------|-----------------------|--------|--------|
| (MHz) | Polarization | (dBm) | (dB) | (dBm) | (dBm) | (dB) |
| 164.74 | V | -51.77 | -13.84 | -65.61 | -13.00 | -52.61 |
| 262.58 | V | -47.25 | -13.71 | -60.96 | -13.00 | -47.96 |
| 399.76 | V | -47.42 | -11.17 | -58.59 | -13.00 | -45.59 |
| 498.58 | V | -54.14 | -8.40 | -62.54 | -13.00 | -49.54 |
| 695.27 | V | -58.57 | -6.25 | -64.82 | -13.00 | -51.82 |
| 799.15 | V | -60.25 | -4.98 | -65.23 | -13.00 | -52.23 |
| 119.72 | Н | -55.55 | -13.90 | -69.45 | -13.00 | -56.45 |
| 161.24 | Н | -48.10 | -14.15 | -62.25 | -13.00 | -49.25 |
| 263.36 | Н | -52.75 | -14.06 | -66.81 | -13.00 | -53.81 |
| 400.24 | Н | -51.24 | -10.96 | -62.20 | -13.00 | -49.20 |
| 498.27 | Н | -59.72 | -8.28 | -68.00 | -13.00 | -55.00 |
| 695.12 | Н | -57.27 | -6.18 | -63.45 | -13.00 | -50.45 |

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Rev. 00



Report No.: KS110407B02-RP1 FCC ID: ZFT-K107 Date of Issue: April 14, 2011

Operation GSM 1900 / TX / CH 512

Test Date: April 12,2011 Mode:

21°C Temperature: Tested by: Sean

Humidity: 53 % RH Polarity: Ver. / Hor.

| Frequency | Antenna | Reading | Correction Factor | Emission level | Limit | Margin |
|-----------|--------------|---------|--------------------------|-----------------------|--------|--------|
| (MHz) | Polarization | (dBm) | (dB) | (dBm) | (dBm) | (dB) |
| 134.47 | V | -43.15 | -12.75 | -55.90 | -13.00 | -42.90 |
| 227.25 | V | -40.23 | -14.56 | -54.79 | -13.00 | -41.79 |
| 400.24 | V | -41.27 | -11.22 | -52.49 | -13.00 | -39.49 |
| 500.15 | V | -49.21 | -8.38 | -57.59 | -13.00 | -44.59 |
| 697.42 | V | -54.27 | -6.25 | -60.52 | -13.00 | -47.52 |
| 801.47 | V | -52.58 | -4.97 | -57.55 | -13.00 | -44.55 |
| 102.35 | Н | -35.41 | -16.71 | -52.12 | -13.00 | -39.12 |
| 194.27 | Н | -42.25 | -13.34 | -55.59 | -13.00 | -42.59 |
| 400.74 | Н | -46.71 | -10.96 | -57.67 | -13.00 | -44.67 |
| 460.25 | Н | -51.25 | -9.30 | -60.55 | -13.00 | -47.55 |
| 724.74 | Н | -54.41 | -6.03 | -60.44 | -13.00 | -47.44 |
| 801.26 | Н | -55.36 | -4.87 | -60.23 | -13.00 | -47.23 |

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental 1. frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110407B02-RP1 FCC ID: ZFT-K107 Date of Issue: April 14, 2011

Operation G

GSM 1900 / TX / CH 661

Test Date: April 12,2011

Temperature: 21°C

Tested by: Sean

Humidity: 53 % RH

Polarity: Ver. / Hor.

| Frequency | Antenna | Reading | Correction Factor | Emission level | Limit | Margin |
|-----------|--------------|---------|--------------------------|-----------------------|--------|--------|
| (MHz) | Polarization | (dBm) | (dB) | (dBm) | (dBm) | (dB) |
| 43.87 | V | -47.57 | -12.36 | -59.93 | -13.00 | -46.93 |
| 135.14 | V | -43.25 | -12.84 | -56.09 | -13.00 | -43.09 |
| 229.24 | V | -39.45 | -14.56 | -54.01 | -13.00 | -41.01 |
| 400.71 | V | -41.57 | -11.22 | -52.79 | -13.00 | -39.79 |
| 500.25 | V | -49.32 | -8.38 | -57.70 | -13.00 | -44.70 |
| 799.36 | V | -51.27 | -4.97 | -56.24 | -13.00 | -43.24 |
| 117.71 | Н | -37.14 | -13.90 | -51.04 | -13.00 | -38.04 |
| 191.21 | Н | -42.25 | -13.48 | -55.73 | -13.00 | -42.73 |
| 400.71 | Н | -46.71 | -10.87 | -57.58 | -13.00 | -44.58 |
| 501.62 | Н | -53.28 | -8.27 | -61.55 | -13.00 | -48.55 |
| 721.52 | Н | -50.36 | -6.14 | -56.50 | -13.00 | -43.50 |
| 800.12 | Н | -55.68 | -4.88 | -60.56 | -13.00 | -47.56 |

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110407B02-RP1 FCC ID: ZFT-K107 Date of Issue: April 14, 2011

Operation

Mode:

GSM 1900 / TX / CH 810

Test Date: April 12,2011

Temperature: 21°C

Tested by: Sean

Humidity: 53 % RH

Polarity: Ver. / Hor.

| Frequency | Antenna | Reading | Correction Factor | Emission level | Limit | Margin |
|-----------|--------------|---------|--------------------------|-----------------------|--------|--------|
| (MHz) | Polarization | (dBm) | (dB) | (dBm) | (dBm) | (dB) |
| 135.74 | V | -41.33 | -12.84 | -54.17 | -13.00 | -41.17 |
| 205.41 | V | -41.02 | -14.98 | -56.00 | -13.00 | -43.00 |
| 401.25 | V | -41.97 | -11.17 | -53.14 | -13.00 | -40.14 |
| 500.71 | V | -49.82 | -8.38 | -58.20 | -13.00 | -45.20 |
| 695.36 | V | -55.46 | -6.25 | -61.71 | -13.00 | -48.71 |
| 801.58 | V | 52.34 | -4.92 | 47.42 | -13.00 | 60.42 |
| 116.25 | Н | -38.79 | -14.09 | -52.88 | -13.00 | -39.88 |
| 194.62 | Н | -42.43 | -13.34 | -55.77 | -13.00 | -42.77 |
| 400.46 | Н | -46.43 | -10.96 | -57.39 | -13.00 | -44.39 |
| 500.72 | Н | -53.53 | -8.27 | -61.80 | -13.00 | -48.80 |
| 698.57 | Н | -52.35 | -6.18 | -58.53 | -13.00 | -45.53 |
| 799.68 | Н | -54.55 | -4.89 | -59.44 | -13.00 | -46.44 |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor



Above 1GHz

Operation Mode: GSM 850 / TX / CH 128 Test Date: April 12,2011

Temperature: 21°C Tested by: Sean

Humidity: 53 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------------------|---------------|------------------------|----------------------|-------------|-------------|
| 1651.32 | V | -57.46 | 0.69 | -56.77 | -13 | -43.77 |
| 3294.54 | V | -60.48 | 5.57 | -54.91 | -13 | -41.91 |
| | | | | | | |
| 2472.65 | Н | -60.34 | 3.78 | -56.56 | -13 | -43.56 |
| 6515.55 | Н | -60.54 | 12.14 | -48.4 | -13 | -35.4 |
| | | | | | | |
| | | | | | | |

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110407B02-RP1 FCC ID: ZFT-K107 Date of Issue: April 14, 2011

Operation GSM 850 / TX / CH 190 Mode:

Test Date: April 12,2011

21°C Temperature: Tested by: Sean

Humidity: 53 % RH Polarity: Ver. / Hor.

| Frequency | Antenna | Reading | Correction Factor | Emission level | Limit | Margin |
|-----------|--------------|---------|--------------------------|-----------------------|--------|--------|
| (MHz) | Polarization | (dBm) | (dB) | (dBm) | (dBm) | (dB) |
| 1675.75 | V | -51.74 | 0.73 | -51.01 | -13.00 | -38.01 |
| 6951.60 | V | -61.68 | 13.76 | -47.92 | -13.00 | -34.92 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 1670.36 | Н | -55.25 | 0.84 | -54.41 | -13.00 | -41.41 |
| 6675.72 | Н | -61.64 | 12.80 | -48.84 | -13.00 | -35.84 |
| | _ | | | | _ | _ |
| | | | | | | |
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| | | | | | | |

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110407B02-RP1 FCC ID: ZFT-K107 Date of Issue: April 14, 2011

Operation GSM 850 / TX / CH 251 Test Date: April 12,2011

Temperature: 21°C **Tested by:** Sean

Humidity: 53 % RH **Polarity:** Ver. / Hor.

| Frequency | Antenna | Reading | Correction Factor | Emission level | Limit | Margin |
|-----------|--------------|---------|--------------------------|-----------------------|--------|--------|
| (MHz) | Polarization | (dBm) | (dB) | (dBm) | (dBm) | (dB) |
| 1398.55 | V | -58.87 | 0.05 | -58.82 | -13.00 | -45.82 |
| 5688.65 | V | -60.26 | 9.95 | -50.31 | -13.00 | -37.31 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 1701.59 | Н | -52.62 | 0.90 | -51.72 | -13.00 | -38.72 |
| 5241.62 | Н | -60.52 | 10.22 | -50.30 | -13.00 | -37.30 |
| | | | | | | · |
| | | | | | | |
| | | | | | | |
| | | | | | | |

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



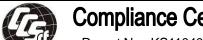
Operation GSM 1900 / TX / CH 512 Test Date: April 12,2011

Temperature: 21°C Tested by: Sean

Humidity: 53 % RH **Polarity:** Ver. / Hor.

| Frequency | Antenna | Reading | Correction Factor | Emission level | Limit | Margin |
|-----------|--------------|---------|--------------------------|-----------------------|--------|--------|
| (MHz) | Polarization | (dBm) | (dB) | (dBm) | (dBm) | (dB) |
| 5395.56 | V | -60.68 | 9.86 | -50.82 | -13.00 | -37.82 |
| 7133.68 | V | -62.65 | 14.34 | -48.31 | -13.00 | -35.31 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 5437.69 | Н | -61.45 | 10.24 | -51.21 | -13.00 | -38.21 |
| 7621.56 | Н | -62.26 | 16.14 | -46.12 | -13.00 | -33.12 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110407B02-RP1 FCC ID: ZFT-K107 Date of Issue: April 14, 2011

Operation GSM 1900 / TX / CH 661 Test Date: April 12,2011

Temperature: 21°C Tested by: Sean

Humidity: 53 % RH **Polarity:** Ver. / Hor.

| Frequency | Antenna | Reading | Correction Factor | Emission level | Limit | Margin |
|-----------|--------------|---------|--------------------------|-----------------------|--------|--------|
| (MHz) | Polarization | (dBm) | (dB) | (dBm) | (dBm) | (dB) |
| 5640.65 | V | -58.77 | 9.94 | -48.83 | -13.00 | -35.83 |
| 7348.25 | V | -62.34 | 14.97 | -47.37 | -13.00 | -34.37 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 5640.23 | Н | -59.74 | 10.28 | -49.46 | -13.00 | -36.46 |
| 6807.75 | Н | -61.33 | 13.34 | -47.99 | -13.00 | -34.99 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | · |

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation GSM 1900 / TX / CH 810 **Test Date:** Mode:

April 12,2011

21°C Temperature: Tested by: Sean

Humidity: 53 % RH **Polarity:** Ver. / Hor.

| Frequency | Antenna | Reading | Correction Factor | Emission level | Limit | Margin |
|-----------|--------------|---------|--------------------------|-----------------------|--------|--------|
| (MHz) | Polarization | (dBm) | (dB) | (dBm) | (dBm) | (dB) |
| 4761.46 | V | -60.36 | 8.99 | -51.37 | -13.00 | -38.37 |
| 7075.26 | V | -59.62 | 14.17 | -45.45 | -13.00 | -32.45 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 5192.59 | Н | -60.44 | 10.22 | -50.22 | -13.00 | -37.22 |
| 7033.26 | Н | -60.65 | 14.23 | -46.42 | -13.00 | -33.42 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

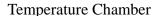
7.7 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

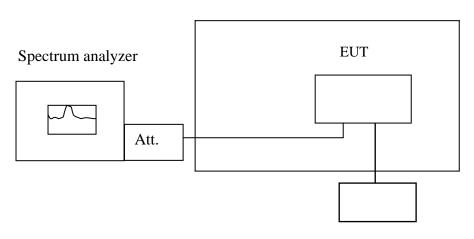
LIMIT

According to FCC §2.1055, FCC §22.355, .FCC §24.235.

Frequency Tolerance: 2.5 ppm

Test Configuration





Variable Power Supply

Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.



TEST RESULTS

No non-compliance noted.

| Refere | Reference Frequency: GSM Mid Channel 836.6 MHz @ 20°C | | | | | | |
|---------------------|---|-------------------|---------------|---------------|--|--|--|
| | Limit: ± 2. | 5 ppm = 2091.5 H | z | | | | |
| Power Supply Vdc | Environment Temperature (°C) | Frequency (Hz) | Delta (Hz) | Limit (Hz) | | | |
| | 50 | 836600027 | 27 | | | | |
| | 40 | 836600031 | 31 | | | | |
| | 30 | 836600023 | 23 | | | | |
| 3.7 | 20 | 836599985 | 0 | 2091.5 | | | |
| 3.7 | 10 | 836600026 | 26 | 2091.5 | | | |
| | 0 | 836600027 | 27 | | | | |
| | -5 | 836600036 | 36 | | | | |
| | -10 | 836600038 | 38 | | | | |

| Refere | Reference Frequency: GSM Mid Channel 1880 MHz @ 20°C | | | | | |
|---------------------|--|---------------------|---------------|---------------|--|--|
| | Limit: ± 2 | 2.5 ppm = 4700 Hz | 2 | | | |
| Power Supply Vdc | Environment Temperature (°C) | Frequency (Hz) | Delta (Hz) | Limit (Hz) | | |
| | 50 | 1879999983 | -17 | | | |
| | 40 | 1879999983 | -17 | | | |
| | 30 | 1879999979 | -21 | | | |
| 3.7 | 20 | 1880000015 | 0 | 4700 | | |
| 3.7 | 10 | 1879999991 | -9 | 4700 | | |
| | 0 | 1879999977 | -23 | | | |
| | -5 | 1879999982 | -18 | | | |
| | -10 | 1879999986 | -14 | | | |



7.8 POWERLINE CONDUCTED EMISSIONS

<u>LIMIT</u>

For an intentional radiator which 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 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

| Frequency Range (MHz) | Limits (dBµV) | | | | |
|------------------------|---------------|----------|--|--|--|
| Trequency Range (Minz) | Quasi-peak | Average | | | |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 | | | |
| 0.50 to 5 | 56 | 46 | | | |
| 5 to 30 | 60 | 50 | | | |

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.



TEST RESULTS

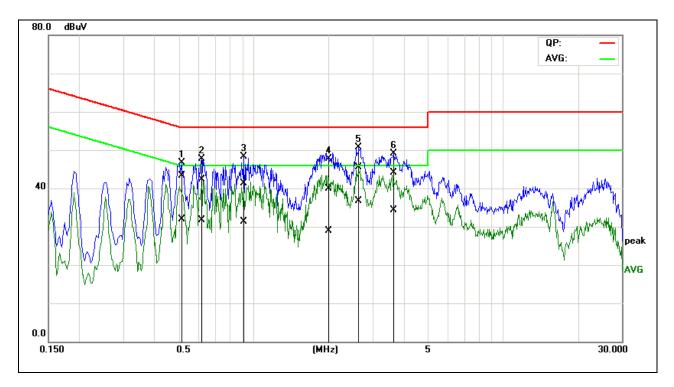
The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Operation Mode: Normal Link Test Date: April 12,2011

Temperature: 23°C **Tested by:** Sean

Humidity: 50% RH

Conducted emissions (L1)

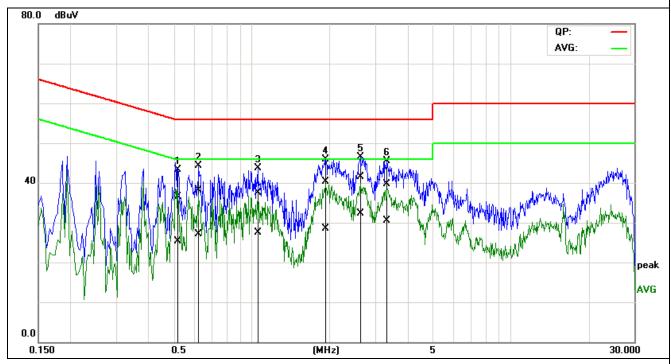


| No. | Frequency | QuasiPeak reading | Average reading | Correction factor | QuasiPeak result | Average result | QuasiPeak limit | Average limit | QuasiPeak margin | Average margin | Remark |
|-----|-----------|----------------------|-----------------|-------------------|---------------------|----------------|--------------------|------------------|---------------------|-------------------|--------|
| | (MHz) | (dBuV) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dB) | (dB) | |
| 1 | 0.5145 | 32.54 | 20.98 | 10.83 | 43.37 | 31.81 | 56.00 | 46.00 | -12.63 | -14.19 | Pass |
| 2 | 0.6181 | 31.46 | 20.86 | 10.89 | 42.35 | 31.75 | 56.00 | 46.00 | -13.65 | -14.25 | Pass |
| 3 | 0.9122 | 30.32 | 20.28 | 11.01 | 41.33 | 31.29 | 56.00 | 46.00 | -14.67 | -14.71 | Pass |
| 4 | 2.0215 | 28.76 | 17.80 | 11.09 | 39.85 | 28.89 | 56.00 | 46.00 | -16.15 | -17.11 | Pass |
| 5* | 2.6285 | 34.45 | 25.65 | 11.13 | 45.58 | 36.78 | 56.00 | 46.00 | -10.42 | -9.22 | Pass |
| 6 | 3.6507 | 32.97 | 23.20 | 11.16 | 44.13 | 34.36 | 56.00 | 46.00 | -11.87 | -11.64 | Pass |



Report No.: KS110407B02-RP1 FCC ID: ZFT-K107 Date of Issue: April 14, 2011

Conducted emissions (L2)



| No · | Frequenc y | QuasiPea k reading | Averag e reading | Correctio n factor | QuasiPea k result | Averag e result | QuasiPea k limit | Averag e limit | QuasiPea k margin | Averag e margin | Rem ark |
|---------|---------------|--------------------------|------------------------|--------------------------|-------------------------|-----------------------|------------------------|----------------------|-------------------------|-----------------------|------------|
| | (MHz) | (dBuV) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dB) | (dB) | |
| 1 | 0.5233 | 26.39 | 15.11 | 10.14 | 36.53 | 25.25 | 56.00 | 46.00 | -19.47 | -20.75 | Pass |
| 2 | 0.6242 | 27.98 | 16.88 | 10.14 | 38.12 | 27.02 | 56.00 | 46.00 | -17.88 | -18.98 | Pass |
| 3 | 1.0405 | 27.35 | 17.31 | 10.22 | 37.57 | 27.53 | 56.00 | 46.00 | -18.43 | -18.47 | Pass |
| 4 | 1.9115 | 29.84 | 17.91 | 10.54 | 40.38 | 28.45 | 56.00 | 46.00 | -15.62 | -17.55 | Pass |
| 5* | 2.6044 | 30.85 | 21.69 | 10.68 | 41.53 | 32.37 | 56.00 | 46.00 | -14.47 | -13.63 | Pass |
| 6 | 3.2824 | 28.85 | 19.75 | 10.78 | 39.63 | 30.53 | 56.00 | 46.00 | -16.37 | -15.47 | Pass |

- 1. Measuring frequencies from 0.15 MHz to 30MHz.
- 2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3. The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
- 4. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)
- 5. "-" means Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessa