# FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E
# (Class II Permissive Change)

# TEST REPORT

## For

## Gobi2000™ Module PCI Express Mini Card
in support of Class II Permissive Change adding host Lenovo® model S10-3t, 20040, 0651

## Marketing Name: Lenovo IdeaPad S10-3t

## Model: 20040XXXX, 0651XXXX (X=0~9, A~ Z or blank)

## Trade Name: Qualcomm

*Issued to*

**Qualcomm Incorporated**
**5775 Morehouse Dr.San Diego, CA 92121, U.S.A**

*Issued by*

**Compliance Certification Services Inc.**
**No. 11, Wu-Gong 6th Rd., Wugu Industrial Park,**
**Taipei Hsien 248, Taiwan (R.O.C.)**
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**service@ccsrf.com**

Testing Laboratory
1309

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# 1. TEST RESULT CERTIFICATION

| | |
|---|---|
| **Applicant:** | Qualcomm Incorporated<br>5775 Morehouse Dr.San Diego, CA 92121, U.S.A |
| **Equipment Under Test:** | Gobi2000™ Module PCI Express Mini Card |
| **Trade Name:** | Qualcomm |
| **Marketing Name:** | Lenovo IdeaPad S10-3t |
| **Model:** | 20040XXXX, 0651XXXX (X=0~9, A~ Z or blank) |
| **Date of Test:** | May 22 ~ June 4, 2010 |

| APPLICABLE STANDARDS | |
|---|---|
| **STANDARD** | **TEST RESULT** |
| FCC 47 CFR Part 22 Subpart H &<br>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 TIA/EIA-603-C: 2004 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:*

Rex Lai
Section Manager
Compliance Certification Services Inc.

*Reviewed by:*

Gina Lo
Section Manager
Compliance Certification Services Inc.

# 2. EUT DESCRIPTION

| | |
|---|---|
| **Product** | Gobi2000™ Module PCI Express Mini Card |
| **Trade Name** | Qualcomm |
| **Marketing Name** | Lenovo IdeaPad S10-3t |
| **Model Number** | 20040XXXX, 0651XXXX (X=0~9, A~ Z or blank) |
| **Model Discrepancy** | All the above models are identical except for the designation of model numbers.<br>The suffix of "XXXX" (X= 0~9, A~Z or Blank) on model number is just for marketing purpose only. |
| **Power Supply** | Powered by host device |
| **Frequency Range** | GSM / GPRS / EDGE: 850: 824.2 ~ 848.8 MHz<br>GSM / GPRS / EDGE: 1900: 1850.2 ~ 1909.8 MHz |
| **Modulation Technique** | GSM: GMSK<br>GPRS: GMSK<br>EDGE: 8PSK |
| **Antenna Gain** | GSM / GPRS / EDGE 850 MHz: 0.6 dBi<br>GSM / GPRS / EDGE 1900 MHz: -0.1 dBi |
| **Antenna Type** | PIFA Antenna |
| **Class II Permissive Change** | Add portable category for the Lenovo Bixby platform<br>Product name: Notebook / Brand name: lenovo<br>Model: Lenovo IdeaPad S10-3t 20040, 0651 |

***Remark:***

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 FCC ID: **J9CGOBI2000-L** 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: 2003, 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: 2003.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: 2003.

## 3.4 DESCRIPTION OF TEST MODES

The EUT (model: 20040XXXX, 0651XXXX (X=0~9, A~ Z or blank)) 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 / GPRS / EDGE 850:
Channel Low (CH128), Channel Mid (CH190) and Channel High (CH251) were chosen for full testing.

GSM / GPRS / EDGE 1900:
Channel Low (CH512), Channel Mid (CH661) and Channel High (CH810) were chosen for full testing.

# 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

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

| 3M Semi Anechoic Chamber | | | | |
|---|---|---|---|---|
| **Name of Equipment** | **Manufacturer** | **Model** | **Serial Number** | **Calibration Due** |
| Spectrum Analyzer | Agilent | E4446A | US42510252 | 10/26/2010 |
| EMI Test Receiver | R&S | ESCI | 100064 | 02/04/2011 |
| Pre-Amplifier | Mini-Circults | ZFL-1000LN | SF350700823 | 01/13/2011 |
| Pre-Amplifier | MITEQ | AFS44-00102650-42-10P-44 | 1415367 | 11/20/2010 |
| Bilog Antenna | Sunol Sciences | JB3 | A030105 | 09/11/2010 |
| Horn Antenna | EMCO | 3117 | 00055165 | 12/07/2010 |
| Loop Antenna | EMCO | 6502 | 8905/2356 | 05/27/2011 |
| Turn Table | CCS | CC-T-1F | N/A | N.C.R |
| Antenna Tower | CCS | CC-A-1F | N/A | N.C.R |
| Controller | CCS | CC-C-1F | N/A | N.C.R |
| Site NSA | CCS | N/A | N/A | 12/31/2010 |
| Test S/W | EZ-EMC (CCS-3A1RE) | | | |

## 4.3 MEASUREMENT UNCERTAINTY

| PARAMETER | UNCERTAINTY |
|---|---|
| 3M Semi Anechoic Chamber / 30M~200M | +/- 4.0606 |
| 3M Semi Anechoic Chamber / 200M~1000M | +/- 3.9979 |
| 3M Semi Anechoic Chamber / 1G~8G | +/- 2.5790 |
| 3M Semi Anechoic Chamber / 8G~18G | +/- 2.5928 |
| 3M Semi Anechoic Chamber / 18G~26G | +/- 2.7212 |
| 3M Semi Anechoic Chamber / 26G~40G | +/- 2.9520 |

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

# 5. FACILITIES AND ACCREDITATIONS

## 5.1 FACILITIES

☐ No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

☒ No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

☐ No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan
Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, 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 TABLE OF ACCREDITATIONS AND LISTINGS

| Country | Agency | Scope of Accreditation | Logo |
|---|---|---|---|
| USA | FCC | 3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements | FCC MRA: TW1039 |
| Taiwan | TAF | LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310<br>IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12,2,<br>ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328,<br>ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893,<br>ETSI EN 301 489-1/3/7/17<br>FCC OET Bulletin 65 + Supplement C,<br>EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385,<br>EN 50392, IEC 62209, CNS 14958-1, CNS 14959<br>FCC Method –47 CFR Part 15 Subpart B<br>IEC / EN 61000-3-2, IEC / EN 61000-3-3,<br>IEC / EN 61000-4-2/3/4/5/6/8/11 | TAF Testing Laboratory 1309 |
| Canada | Industry Canada | 3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform | Canada<br>IC 2324G-1<br>IC 2324G-2 |

** No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.*

# 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 |
|---|---|---|---|---|---|---|---|
| 1 | Universal Radio Communication Tester (Remote) | R&S | CMU200 | 101245 | N/A | N/A | Unshielded, 1.8m |

***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.*

# 7. FCC PART 22 & 24 REQUIREMENTS

## 7.1 ERP & EIRP MEASUREMENT

## LIMIT

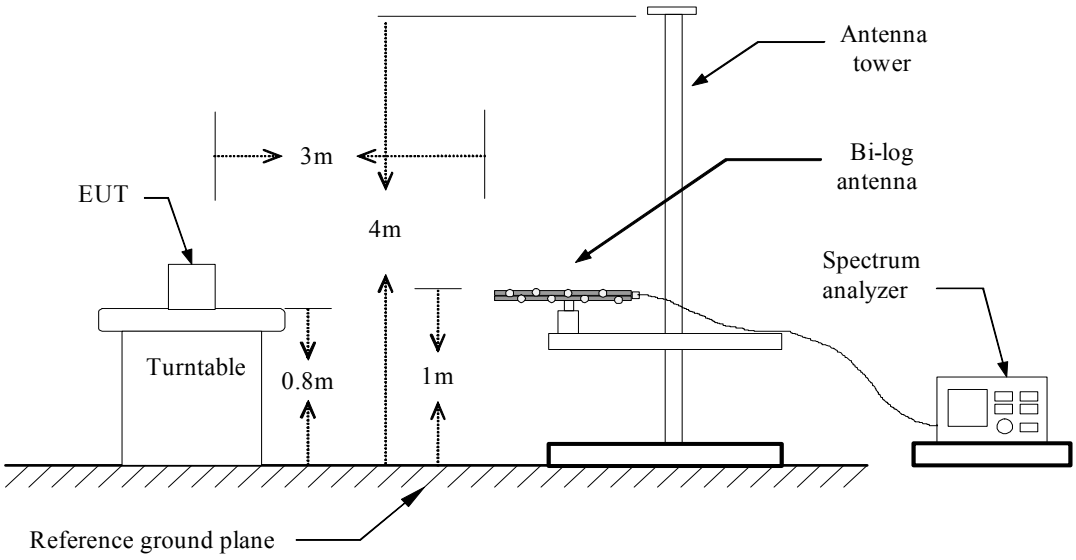
According to FCC §2.1046

FCC 22.913(a): The Effective Radiated Power (ERP) of mobile transmitters must not exceed 7 Watts.

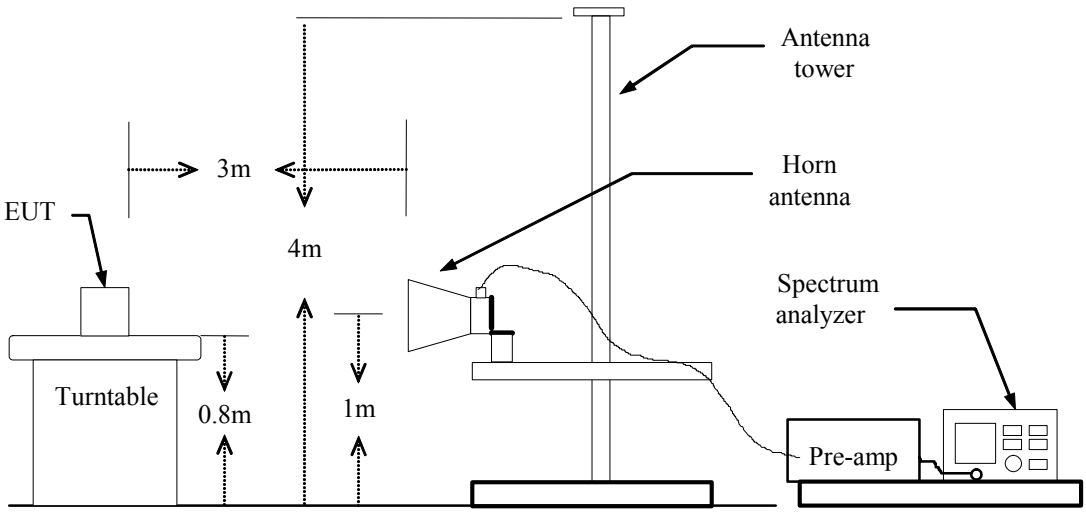
FCC 24.232(b): The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

**Test Configuration**

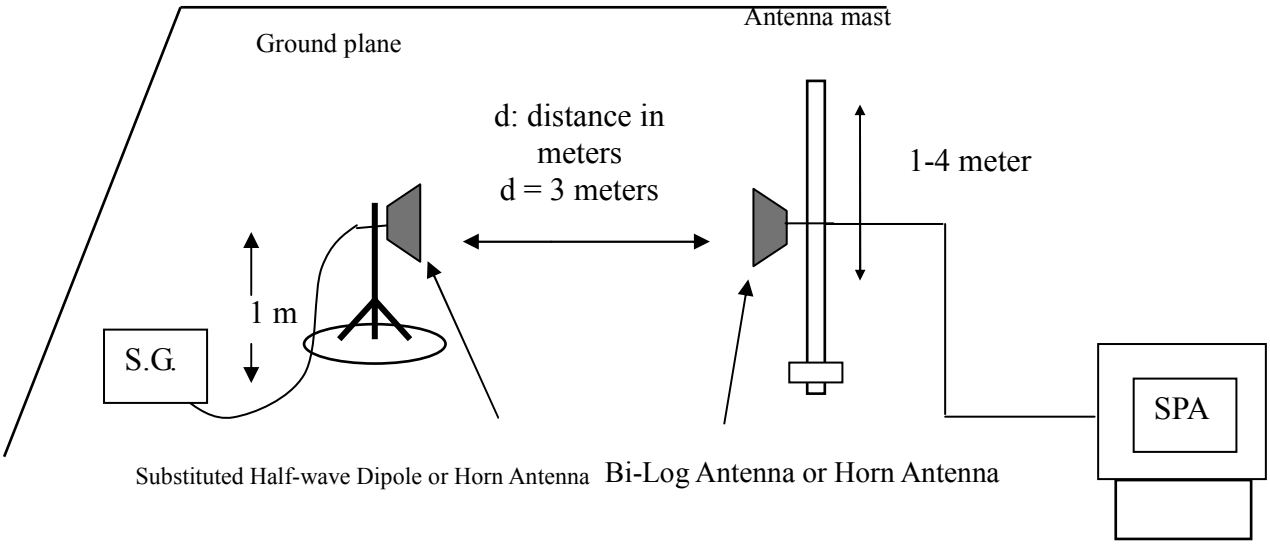
**Below 1 GHz**




**Above 1 GHz**



**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)

## TEST RESULTS

*No non-compliance noted.*

## GSM 850 TEST DATA (CLASS B)

| Channel | Frequency (MHz) | Antenna Pol. | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| 128 | 824.20 | V | -3.24 | 34.62 | 31.38 | 38.45 | -7.07 |
| | 824.20 | H | -2.55 | 34.65 | 32.09 | 38.45 | -6.36 |
| 190 | 836.40 | V | -3.98 | 34.53 | 30.55 | 38.45 | -7.9 |
| | 836.40 | H | -2.67 | 34.63 | 31.97 | 38.45 | -6.48 |
| 251 | 848.80 | V | -6.86 | 34.64 | 27.77 | 38.45 | -10.68 |
| | 848.80 | H | -3.69 | 34.75 | 31.06 | 38.45 | -7.39 |

## GPRS 850 TEST DATA (CLASS 10)

| Channel | Frequency (MHz) | Antenna Pol. | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| 128 | 824.20 | V | -3.42 | 34.62 | 31.20 | 38.45 | -7.25 |
| | 824.20 | H | -2.45 | 34.65 | 32.20 | 38.45 | -6.25 |
| 190 | 836.40 | V | -3.90 | 34.53 | 30.63 | 38.45 | -7.82 |
| | 836.40 | H | -2.50 | 34.63 | 32.14 | 38.45 | -6.31 |
| 251 | 848.80 | V | -7.05 | 34.64 | 27.59 | 38.45 | -10.86 |
| | 848.80 | H | -3.71 | 34.75 | 31.04 | 38.45 | -7.41 |

## GSM 1900 TEST DATA (CLASS B)

| Channel | Frequency (MHz) | Antenna Pol. | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| 512 | 1850.20 | V | -12.30 | 41.17 | 28.87 | 33.00 | -4.13 |
| | 1850.20 | H | -18.94 | 40.79 | 21.85 | 33.00 | -11.15 |
| 661 | 1880.00 | V | -13.09 | 41.23 | 28.14 | 33.00 | -4.86 |
| | 1880.00 | H | -19.77 | 41.14 | 21.37 | 33.00 | -11.63 |
| 810 | 1909.80 | V | -12.81 | 41.30 | 28.49 | 33.00 | -4.51 |
| | 1909.80 | H | -19.86 | 41.38 | 21.52 | 33.00 | -11.48 |

## GPRS 1900 TEST DATA (CLASS 10)

| Channel | Frequency (MHz) | Antenna Pol. | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| 512 | 1850.20 | V | -12.28 | 41.17 | 28.89 | 33.00 | -4.11 |
| | 1850.20 | H | -18.85 | 40.79 | 21.94 | 33.00 | -11.06 |
| 661 | 1880.00 | V | -13.10 | 41.23 | 28.13 | 33.00 | -4.87 |
| | 1880.00 | H | -19.34 | 41.14 | 21.80 | 33.00 | -11.20 |
| 810 | 1909.80 | V | -12.94 | 41.30 | 28.36 | 33.00 | -4.64 |
| | 1909.80 | H | -19.47 | 41.38 | 21.91 | 33.00 | -11.09 |

## EDGE 850 Test Data (Class 12)

| Channel | Frequency (MHz) | Antenna Pol. | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| 128 | 824.27 | V | -8.84 | 34.62 | 25.78 | 38.45 | -12.67 |
| | 824.27 | H | -8.26 | 34.65 | 26.39 | 38.45 | -12.06 |
| 190 | 836.64 | V | -9.23 | 34.53 | 25.29 | 38.45 | -13.16 |
| | 836.64 | H | -8.22 | 34.63 | 26.42 | 38.45 | -12.03 |
| 251 | 848.79 | V | -10.83 | 34.64 | 23.81 | 38.45 | -14.64 |
| | 848.79 | H | -9.29 | 34.75 | 25.46 | 38.45 | -12.99 |

## EDGE 1900 Test Data (Class 12)

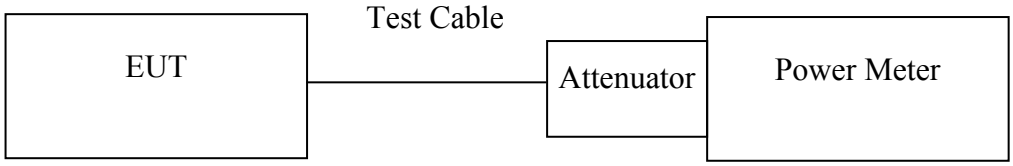
| Channel | Frequency (MHz) | Antenna Pol. | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| 512 | 1850.16 | V | -15.55 | 41.17 | 25.62 | 33.00 | -7.38 |
| | 1849.98 | H | -22.15 | 40.79 | 18.64 | 33.00 | -14.36 |
| 661 | 1879.86 | V | -16.66 | 41.23 | 24.57 | 33.00 | -8.43 |
| | 1879.86 | H | -23.30 | 41.15 | 17.84 | 33.00 | -15.16 |
| 810 | 1910.01 | V | -16.53 | 41.30 | 24.77 | 33.00 | -8.23 |
| | 1910.01 | H | -23.29 | 41.38 | 18.08 | 33.00 | -14.92 |

## 7.2 AVERAGE POWER

## LIMIT

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 | CH | Frequency (MHz) | AVG Power (dBm) | Output Power (W) |
|---|---|---|---|---|
| GSM 850 (Class B) | 128 | 824.20 | 32.20 | 1.6596 |
| | 190 | 836.40 | 32.10 | 1.6218 |
| | 251 | 848.80 | 31.80 | 1.5136 |
| GPRS 850 (Class 12) | 128 | 824.20 | 32.10 | 1.6218 |
| | 190 | 836.40 | 32.00 | 1.5849 |
| | 251 | 848.80 | 31.70 | 1.4791 |
| EDGE 850 (Class 12) | 128 | 824.20 | 27.70 | 0.5888 |
| | 190 | 836.40 | 27.50 | 0.5623 |
| | 251 | 848.80 | 27.30 | 0.5370 |

| Test Mode | CH | Frequency (MHz) | AVG Power (dBm) | Output Power (W) |
|---|---|---|---|---|
| GSM 1900 (Class B) | 512 | 1850.20 | 29.00 | 0.7943 |
| | 661 | 1880.00 | 28.90 | 0.7762 |
| | 810 | 1909.80 | 29.10 | 0.8128 |
| GPRS 1900 (Class 12) | 512 | 1850.20 | 28.90 | 0.7762 |
| | 661 | 1880.00 | 28.80 | 0.7586 |
| | 810 | 1909.80 | 29.00 | 0.7943 |
| EDGE 1900 (Class 12) | 512 | 1850.20 | 25.50 | 0.3548 |
| | 661 | 1880.00 | 25.40 | 0.3467 |
| | 810 | 1909.80 | 25.60 | 0.3631 |

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

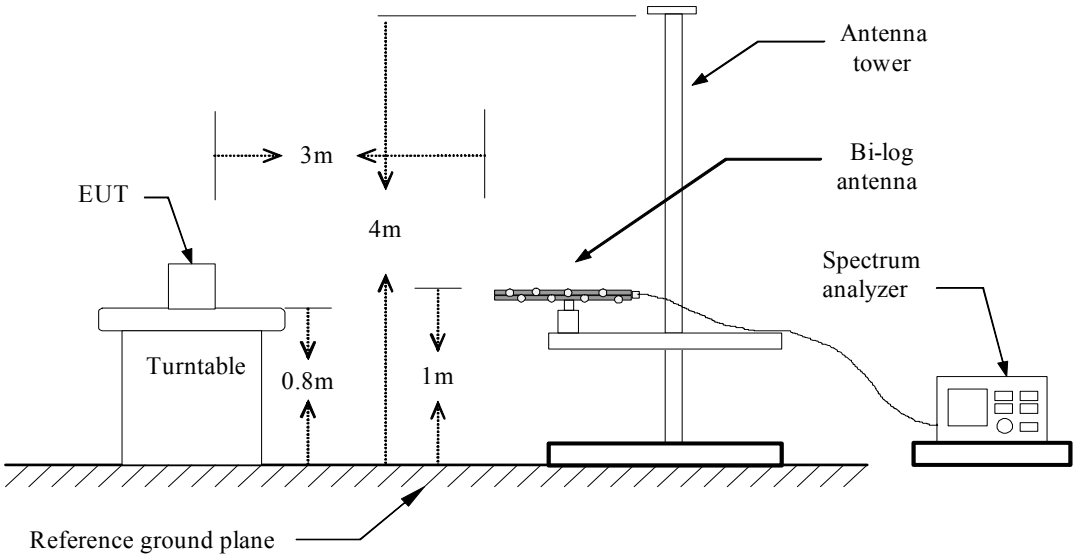
# 7.3 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

## LIMIT

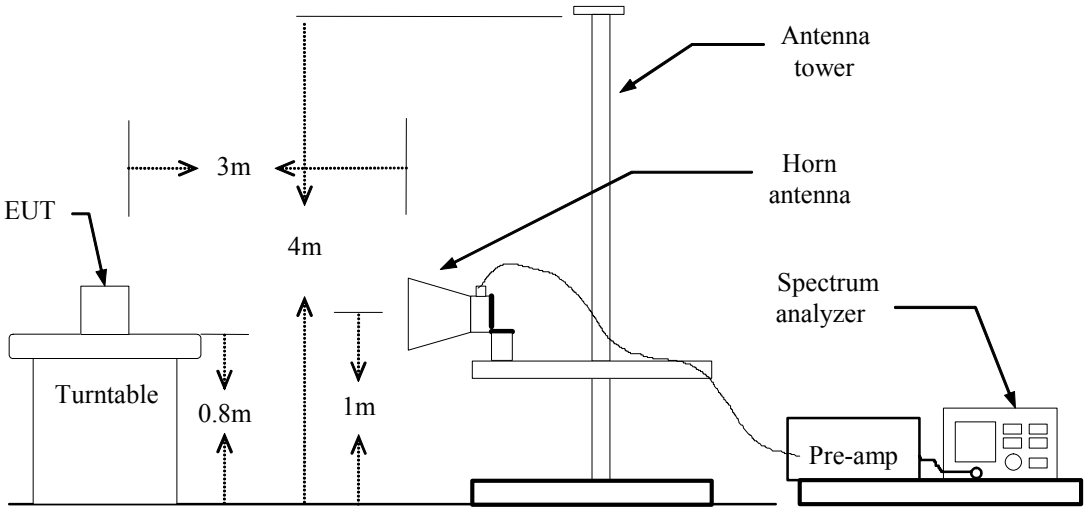
According to FCC §2.1053

**Test Configuration**

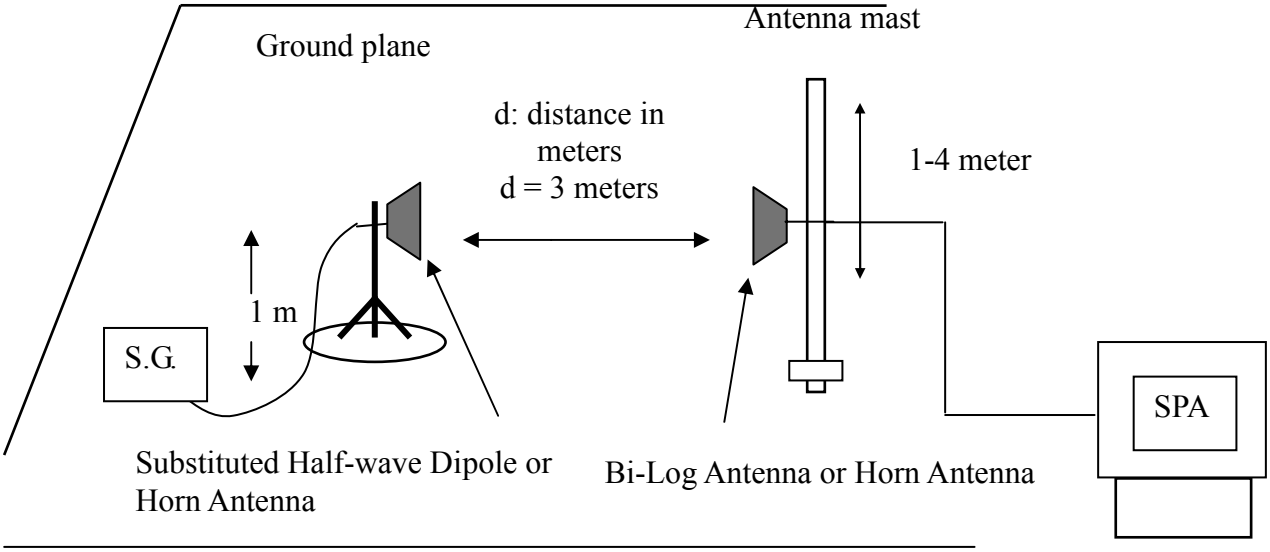
**Below 1 GHz**




**Above 1 GHz**



**Substituted Method Test Set-up**




## 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:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 99.84 | V | -46.11 | -18.10 | -64.20 | -13.00 | -51.20 |
| 191.99 | V | -53.17 | -15.13 | -68.31 | -13.00 | -55.31 |
| 399.57 | V | -55.35 | -12.10 | -67.45 | -13.00 | -54.45 |
| 408.30 | V | -53.71 | -11.56 | -65.27 | -13.00 | -52.27 |
| 682.81 | V | -60.48 | -6.57 | -67.05 | -13.00 | -54.05 |
| 703.18 | V | -60.53 | -6.42 | -66.95 | -13.00 | -53.95 |
| | | | | | | |
| 99.84 | H | -46.40 | -18.04 | -64.44 | -13.00 | -51.44 |
| 191.99 | H | -57.38 | -14.14 | -71.52 | -13.00 | -58.52 |
| 399.57 | H | -55.73 | -11.72 | -67.45 | -13.00 | -54.45 |
| 408.30 | H | -53.31 | -11.22 | -64.53 | -13.00 | -51.53 |
| 512.09 | H | -60.45 | -8.65 | -69.10 | -13.00 | -56.10 |
| 681.84 | H | -61.02 | -6.57 | -67.59 | -13.00 | -54.59 |

***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.*

**Operation Mode:** GSM 850 / TX / CH 190 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 130.88 | V | -46.78 | -12.79 | -59.57 | -13.00 | -46.57 |
| 191.99 | V | -53.31 | -15.13 | -68.45 | -13.00 | -55.45 |
| 288.02 | V | -58.06 | -12.08 | -70.14 | -13.00 | -57.14 |
| 453.89 | V | -54.85 | -9.93 | -64.78 | -13.00 | -51.78 |
| 523.73 | V | -60.75 | -8.40 | -69.15 | -13.00 | -56.15 |
| 967.99 | V | -60.56 | -3.14 | -63.70 | -13.00 | -50.70 |
| | | | | | | |
| 130.88 | H | -46.51 | -14.14 | -60.66 | -13.00 | -47.66 |
| 191.99 | H | -57.72 | -14.14 | -71.86 | -13.00 | -58.86 |
| 322.94 | H | -57.21 | -14.16 | -71.37 | -13.00 | -58.37 |
| 453.89 | H | -54.58 | -9.83 | -64.41 | -13.00 | -51.41 |
| 523.73 | H | -61.46 | -8.50 | -69.97 | -13.00 | -56.97 |
| 967.99 | H | -60.39 | -3.31 | -63.70 | -13.00 | -50.70 |

***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.*

**Operation Mode:** GSM 850 / TX / CH 251 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 161.92 | V | -48.60 | -14.34 | -62.94 | -13.00 | -49.94 |
| 191.99 | V | -53.24 | -15.13 | -68.38 | -13.00 | -55.38 |
| 322.94 | V | -56.26 | -13.59 | -69.85 | -13.00 | -56.85 |
| 585.81 | V | -61.11 | -7.87 | -68.99 | -13.00 | -55.99 |
| 644.98 | V | -61.78 | -6.67 | -68.46 | -13.00 | -55.46 |
| 706.09 | V | -60.76 | -6.36 | -67.12 | -13.00 | -54.12 |
| | | | | | | |
| 160.95 | H | -48.45 | -14.37 | -62.83 | -13.00 | -49.83 |
| 322.94 | H | -57.69 | -14.16 | -71.85 | -13.00 | -58.85 |
| 498.51 | H | -60.45 | -8.82 | -69.27 | -13.00 | -56.27 |
| 585.81 | H | -60.16 | -7.83 | -67.99 | -13.00 | -54.99 |
| 645.95 | H | -60.93 | -6.63 | -67.57 | -13.00 | -54.57 |
| 706.09 | H | -64.61 | -6.49 | -71.10 | -13.00 | -58.10 |

***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.*

**Operation Mode:** GPRS 850 / TX / CH 128 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 191.99 | V | -52.14 | -15.13 | -67.27 | -13.00 | -54.27 |
| 322.94 | V | -52.76 | -13.59 | -66.35 | -13.00 | -53.35 |
| 353.01 | V | -51.79 | -13.22 | -65.01 | -13.00 | -52.01 |
| 408.30 | V | -53.40 | -11.56 | -64.96 | -13.00 | -51.96 |
| 682.81 | V | -60.30 | -6.57 | -66.87 | -13.00 | -53.87 |
| 703.18 | V | -60.23 | -6.42 | -66.65 | -13.00 | -53.65 |
| | | | | | | |
| 99.84 | H | -46.35 | -18.04 | -64.40 | -13.00 | -51.40 |
| 322.94 | H | -54.06 | -14.16 | -68.22 | -13.00 | -55.22 |
| 352.04 | H | -54.38 | -13.36 | -67.74 | -13.00 | -54.74 |
| 408.30 | H | -52.53 | -11.22 | -63.76 | -13.00 | -50.76 |
| 512.09 | H | -62.31 | -8.65 | -70.97 | -13.00 | -57.97 |
| 681.84 | H | -60.03 | -6.57 | -66.60 | -13.00 | -53.60 |

***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.*

**Operation Mode:** GPRS 850 / TX / CH 190 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 130.88 | V | -46.27 | -12.79 | -59.05 | -13.00 | -46.05 |
| 322.94 | V | -52.45 | -13.59 | -66.04 | -13.00 | -53.04 |
| 353.01 | V | -50.57 | -13.22 | -63.79 | -13.00 | -50.79 |
| 452.92 | V | -54.45 | -9.95 | -64.40 | -13.00 | -51.40 |
| 706.09 | V | -60.38 | -6.36 | -66.75 | -13.00 | -53.75 |
| 967.02 | V | -60.47 | -3.16 | -63.63 | -13.00 | -50.63 |
| | | | | | | |
| 130.88 | H | -46.47 | -14.14 | -60.62 | -13.00 | -47.62 |
| 191.99 | H | -56.83 | -14.14 | -70.97 | -13.00 | -57.97 |
| 322.94 | H | -55.02 | -14.16 | -69.18 | -13.00 | -56.18 |
| 452.92 | H | -54.54 | -9.87 | -64.41 | -13.00 | -51.41 |
| 522.76 | H | -60.74 | -8.52 | -69.25 | -13.00 | -56.25 |
| 967.02 | H | -61.92 | -3.33 | -65.24 | -13.00 | -52.24 |

***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.*

**Operation Mode:** GPRS 850 / TX / CH 251 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 161.92 | V | -48.38 | -14.34 | -62.72 | -13.00 | -49.72 |
| 191.99 | V | -52.12 | -15.13 | -67.25 | -13.00 | -54.25 |
| 322.94 | V | -52.80 | -13.59 | -66.39 | -13.00 | -53.39 |
| 352.04 | V | -52.44 | -13.25 | -65.69 | -13.00 | -52.69 |
| 585.81 | V | -60.19 | -7.87 | -68.07 | -13.00 | -55.07 |
| 705.12 | V | -59.48 | -6.38 | -65.86 | -13.00 | -52.86 |
| | | | | | | |
| 160.95 | H | -47.70 | -14.37 | -62.08 | -13.00 | -49.08 |
| 191.99 | H | -56.22 | -14.14 | -70.36 | -13.00 | -57.36 |
| 322.94 | H | -54.52 | -14.16 | -68.68 | -13.00 | -55.68 |
| 352.04 | H | -56.52 | -13.36 | -69.88 | -13.00 | -56.88 |
| 585.81 | H | -60.11 | -7.83 | -67.94 | -13.00 | -54.94 |
| 644.98 | H | -61.95 | -6.63 | -68.58 | -13.00 | -55.58 |

***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.*

**Operation Mode:** GSM 1900 / TX / CH 512 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 36.79 | V | -43.37 | -14.41 | -57.78 | -13.00 | -44.78 |
| 60.07 | V | -42.65 | -16.07 | -58.72 | -13.00 | -45.72 |
| 115.36 | V | -42.52 | -14.79 | -57.31 | -13.00 | -44.31 |
| 352.04 | V | -45.80 | -13.25 | -59.05 | -13.00 | -46.05 |
| 602.30 | V | -53.63 | -7.60 | -61.24 | -13.00 | -48.24 |
| 704.15 | V | -52.04 | -6.40 | -58.44 | -13.00 | -45.44 |
| | | | | | | |
| 36.79 | H | -51.49 | -13.71 | -65.21 | -13.00 | -52.21 |
| 86.26 | H | -40.66 | -21.26 | -61.92 | -13.00 | -48.92 |
| 113.42 | H | -45.34 | -15.47 | -60.82 | -13.00 | -47.82 |
| 322.94 | H | -47.61 | -14.16 | -61.77 | -13.00 | -48.77 |
| 352.04 | H | -49.21 | -13.36 | -62.57 | -13.00 | -49.57 |
| 703.18 | H | -56.98 | -6.51 | -63.49 | -13.00 | -50.49 |

***Remark:***

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 Mode:** GSM 1900 / TX / CH 661 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 37.76 | V | -42.58 | -13.86 | -56.44 | -13.00 | -43.44 |
| 86.26 | V | -39.56 | -20.48 | -60.04 | -13.00 | -47.04 |
| 114.39 | V | -42.84 | -15.01 | -57.86 | -13.00 | -44.86 |
| 352.04 | V | -46.57 | -13.25 | -59.82 | -13.00 | -46.82 |
| 603.27 | V | -53.01 | -7.57 | -60.58 | -13.00 | -47.58 |
| 704.15 | V | -52.83 | -6.40 | -59.24 | -13.00 | -46.24 |
| | | | | | | |
| 86.26 | H | -40.69 | -21.26 | -61.95 | -13.00 | -48.95 |
| 115.36 | H | -46.21 | -15.05 | -61.26 | -13.00 | -48.26 |
| 191.99 | H | -51.57 | -14.14 | -65.71 | -13.00 | -52.71 |
| 322.94 | H | -48.25 | -14.16 | -62.41 | -13.00 | -49.41 |
| 352.04 | H | -47.57 | -13.36 | -60.93 | -13.00 | -47.93 |
| 705.12 | H | -55.83 | -6.50 | -62.32 | -13.00 | -49.32 |

***Remark:***

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 Mode:** GSM 1900 / TX / CH 810 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 36.79 | V | -43.53 | -14.41 | -57.94 | -13.00 | -44.94 |
| 116.33 | V | -42.90 | -14.58 | -57.48 | -13.00 | -44.48 |
| 191.99 | V | -47.97 | -15.13 | -63.10 | -13.00 | -50.10 |
| 352.04 | V | -46.17 | -13.25 | -59.42 | -13.00 | -46.42 |
| 604.24 | V | -54.28 | -7.53 | -61.81 | -13.00 | -48.81 |
| 704.15 | V | -53.95 | -6.40 | -60.35 | -13.00 | -47.35 |
| | | | | | | |
| 36.79 | H | -53.06 | -13.71 | -66.78 | -13.00 | -53.78 |
| 86.26 | H | -41.06 | -21.26 | -62.32 | -13.00 | -49.32 |
| 118.27 | H | -46.84 | -14.40 | -61.24 | -13.00 | -48.24 |
| 191.99 | H | -51.95 | -14.14 | -66.09 | -13.00 | -53.09 |
| 353.01 | H | -48.59 | -13.33 | -61.92 | -13.00 | -48.92 |
| 704.15 | H | -56.10 | -6.50 | -62.60 | -13.00 | -49.60 |

***Remark:***

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 Mode:** GPRS 1900 / TX / CH 512 **Test Date:** May 22, 2010

**Temperature**: 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 37.76 | V | -42.74 | -13.86 | -56.60 | -13.00 | -43.60 |
| 62.01 | V | -43.16 | -15.98 | -59.14 | -13.00 | -46.14 |
| 114.39 | V | -42.59 | -15.01 | -57.60 | -13.00 | -44.60 |
| 308.39 | V | -46.89 | -13.62 | -60.51 | -13.00 | -47.51 |
| 605.21 | V | -53.44 | -7.49 | -60.93 | -13.00 | -47.93 |
| 706.09 | V | -53.65 | -6.36 | -60.01 | -13.00 | -47.01 |
| | | | | | | |
| 86.26 | H | -40.80 | -21.26 | -62.06 | -13.00 | -49.06 |
| 116.33 | H | -45.36 | -14.83 | -60.19 | -13.00 | -47.19 |
| 195.87 | H | -51.81 | -13.76 | -65.57 | -13.00 | -52.57 |
| 312.27 | H | -48.72 | -14.24 | -62.95 | -13.00 | -49.95 |
| 574.17 | H | -56.19 | -7.84 | -64.03 | -13.00 | -51.03 |
| 703.18 | H | -57.49 | -6.51 | -64.01 | -13.00 | -51.01 |

***Remark:***

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 Mode:** GPRS 1900 / TX / CH 661 **Test Date:** May 22, 2010

**Temperature**: 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 37.76 | V | -42.15 | -13.86 | -56.01 | -13.00 | -43.01 |
| 60.07 | V | -43.20 | -16.07 | -59.26 | -13.00 | -46.26 |
| 114.39 | V | -42.62 | -15.01 | -57.63 | -13.00 | -44.63 |
| 280.26 | V | -47.90 | -12.13 | -60.02 | -13.00 | -47.02 |
| 603.27 | V | -52.81 | -7.57 | -60.38 | -13.00 | -47.38 |
| 706.09 | V | -52.80 | -6.36 | -59.16 | -13.00 | -46.16 |
| | | | | | | |
| 41.64 | H | -53.34 | -11.68 | -65.03 | -13.00 | -52.03 |
| 86.26 | H | -40.65 | -21.26 | -61.92 | -13.00 | -48.92 |
| 115.36 | H | -45.82 | -15.05 | -60.86 | -13.00 | -47.86 |
| 191.99 | H | -51.28 | -14.14 | -65.43 | -13.00 | -52.43 |
| 322.94 | H | -49.06 | -14.16 | -63.22 | -13.00 | -50.22 |
| 706.09 | H | -56.35 | -6.49 | -62.84 | -13.00 | -49.84 |

***Remark:***

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 Mode:** GPRS 1900 / TX / CH 810 **Test Date:** May 22, 2010

**Temperature**: 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 37.76 | V | -43.21 | -13.86 | -57.07 | -13.00 | -44.07 |
| 59.10 | V | -43.51 | -16.13 | -59.64 | -13.00 | -46.64 |
| 114.39 | V | -42.48 | -15.01 | -57.50 | -13.00 | -44.50 |
| 308.39 | V | -47.23 | -13.62 | -60.85 | -13.00 | -47.85 |
| 602.30 | V | -54.02 | -7.60 | -61.63 | -13.00 | -48.63 |
| 704.15 | V | -53.93 | -6.40 | -60.33 | -13.00 | -47.33 |
| 85.29 | H | -40.85 | -21.28 | -62.13 | -13.00 | -49.13 |
| 116.33 | H | -45.36 | -14.83 | -60.19 | -13.00 | -47.19 |
| 191.99 | H | -52.34 | -14.14 | -66.48 | -13.00 | -53.48 |
| 307.42 | H | -48.30 | -14.25 | -62.55 | -13.00 | -49.55 |
| 703.18 | H | -57.16 | -6.51 | -63.67 | -13.00 | -50.67 |
| 771.08 | H | -59.46 | -5.45 | -64.92 | -13.00 | -51.92 |

***Remark:***

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 Mode:** EDGE 850 / TX / CH 128 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 99.84 | V | -46.44 | -18.10 | -64.53 | -13.00 | -51.53 |
| 191.99 | V | -52.98 | -15.13 | -68.11 | -13.00 | -55.11 |
| 407.33 | V | -53.07 | -11.62 | -64.69 | -13.00 | -51.69 |
| 603.27 | V | -58.76 | -7.57 | -66.32 | -13.00 | -53.32 |
| 681.84 | V | -60.69 | -6.58 | -67.27 | -13.00 | -54.27 |
| 706.09 | V | -60.98 | -6.36 | -67.34 | -13.00 | -54.34 |
| | | | | | | |
| 99.84 | H | -46.64 | -18.04 | -64.68 | -13.00 | -51.68 |
| 191.99 | H | -57.52 | -14.14 | -71.66 | -13.00 | -58.66 |
| 398.60 | H | -55.53 | -11.73 | -67.26 | -13.00 | -54.26 |
| 407.33 | H | -53.58 | -11.28 | -64.86 | -13.00 | -51.86 |
| 512.09 | H | -61.61 | -8.65 | -70.27 | -13.00 | -57.27 |
| 681.84 | H | -61.02 | -6.57 | -67.59 | -13.00 | -54.59 |

***Remark:***

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 Mode:** EDGE 850 / TX / CH 190 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 130.88 | V | -46.31 | -12.79 | -59.10 | -13.00 | -46.10 |
| 191.99 | V | -52.78 | -15.13 | -67.91 | -13.00 | -54.91 |
| 322.94 | V | -55.23 | -13.59 | -68.82 | -13.00 | -55.82 |
| 452.92 | V | -57.38 | -9.95 | -67.34 | -13.00 | -54.34 |
| 603.27 | V | -59.80 | -7.57 | -67.36 | -13.00 | -54.36 |
| 967.02 | V | -60.69 | -3.16 | -63.85 | -13.00 | -50.85 |
| | | | | | | |
| 130.88 | H | -46.11 | -14.14 | -60.26 | -13.00 | -47.26 |
| 191.99 | H | -57.44 | -14.14 | -71.58 | -13.00 | -58.58 |
| 322.94 | H | -57.47 | -14.16 | -71.63 | -13.00 | -58.63 |
| 453.89 | H | -53.65 | -9.83 | -63.48 | -13.00 | -50.48 |
| 522.76 | H | -60.08 | -8.52 | -68.60 | -13.00 | -55.60 |
| 967.99 | H | -61.64 | -3.31 | -64.95 | -13.00 | -51.95 |

***Remark:***

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 Mode:** EDGE 850 / TX / CH 251 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 161.92 | V | -50.27 | -14.34 | -64.61 | -13.00 | -51.61 |
| 191.99 | V | -51.52 | -15.13 | -66.66 | -13.00 | -53.66 |
| 322.94 | V | -52.16 | -13.59 | -65.76 | -13.00 | -52.76 |
| 351.07 | V | -53.82 | -13.28 | -67.10 | -13.00 | -54.10 |
| 602.30 | V | -59.40 | -7.60 | -67.00 | -13.00 | -54.00 |
| 706.09 | V | -59.85 | -6.36 | -66.22 | -13.00 | -53.22 |
| | | | | | | |
| 160.95 | H | -49.23 | -14.37 | -63.60 | -13.00 | -50.60 |
| 191.99 | H | -57.37 | -14.14 | -71.51 | -13.00 | -58.51 |
| 322.94 | H | -55.55 | -14.16 | -69.71 | -13.00 | -56.71 |
| 387.93 | H | -61.40 | -11.91 | -73.31 | -13.00 | -60.31 |
| 585.81 | H | -64.50 | -7.83 | -72.33 | -13.00 | -59.33 |
| 644.98 | H | -62.35 | -6.63 | -68.99 | -13.00 | -55.99 |

***Remark:***

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 Mode:** EDGE 1900 / TX / CH 512 **Test Date:** May 22, 2010

**Temperature**: 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 37.76 | V | -42.90 | -13.86 | -56.77 | -13.00 | -43.77 |
| 112.45 | V | -42.44 | -15.45 | -57.89 | -13.00 | -44.89 |
| 305.48 | V | -46.30 | -13.63 | -59.93 | -13.00 | -46.93 |
| 353.01 | V | -48.13 | -13.22 | -61.36 | -13.00 | -48.36 |
| 603.27 | V | -53.63 | -7.57 | -61.20 | -13.00 | -48.20 |
| 704.15 | V | -52.83 | -6.40 | -59.23 | -13.00 | -46.23 |
| | | | | | | |
| 38.73 | H | -53.42 | -12.47 | -65.89 | -13.00 | -52.89 |
| 86.26 | H | -41.15 | -21.26 | -62.41 | -13.00 | -49.41 |
| 113.42 | H | -46.37 | -15.47 | -61.85 | -13.00 | -48.85 |
| 191.02 | H | -52.55 | -14.24 | -66.79 | -13.00 | -53.79 |
| 332.64 | H | -46.50 | -13.95 | -60.45 | -13.00 | -47.45 |
| 705.12 | H | -56.23 | -6.50 | -62.73 | -13.00 | -49.73 |

***Remark:***

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 Mode:** EDGE 1900 / TX / CH 661 **Test Date:** May 22, 2010

**Temperature**: 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 37.76 | V | -42.90 | -13.86 | -56.76 | -13.00 | -43.76 |
| 58.13 | V | -43.13 | -16.20 | -59.33 | -13.00 | -46.33 |
| 114.39 | V | -41.89 | -15.01 | -56.90 | -13.00 | -43.90 |
| 291.90 | V | -47.63 | -12.37 | -60.00 | -13.00 | -47.00 |
| 602.30 | V | -53.36 | -7.60 | -60.96 | -13.00 | -47.96 |
| 706.09 | V | -53.49 | -6.36 | -59.85 | -13.00 | -46.85 |
| | | | | | | |
| 37.76 | H | -52.47 | -13.09 | -65.56 | -13.00 | -52.56 |
| 86.26 | H | -40.19 | -21.26 | -61.46 | -13.00 | -48.46 |
| 115.36 | H | -45.98 | -15.05 | -61.02 | -13.00 | -48.02 |
| 191.99 | H | -50.71 | -14.14 | -64.85 | -13.00 | -51.85 |
| 315.18 | H | -48.99 | -14.23 | -63.22 | -13.00 | -50.22 |
| 703.18 | H | -56.50 | -6.51 | -63.02 | -13.00 | -50.02 |

***Remark:***

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 Mode:** EDGE 1900 / TX / CH 810 **Test Date:** May 22, 2010

**Temperature**: 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 37.76 | V | -43.43 | -13.86 | -57.30 | -13.00 | -44.30 |
| 61.04 | V | -43.70 | -16.02 | -59.72 | -13.00 | -46.72 |
| 115.36 | V | -43.23 | -14.79 | -58.02 | -13.00 | -45.02 |
| 280.26 | V | -47.53 | -12.13 | -59.66 | -13.00 | -46.66 |
| 605.21 | V | -53.55 | -7.49 | -61.04 | -13.00 | -48.04 |
| 706.09 | V | -52.37 | -6.36 | -58.73 | -13.00 | -45.73 |
| | | | | | | |
| 39.70 | H | -54.22 | -11.85 | -66.07 | -13.00 | -53.07 |
| 85.29 | H | -40.77 | -21.28 | -62.05 | -13.00 | -49.05 |
| 116.33 | H | -46.62 | -14.83 | -61.46 | -13.00 | -48.46 |
| 203.63 | H | -50.26 | -14.03 | -64.29 | -13.00 | -51.29 |
| 554.77 | H | -58.03 | -7.92 | -65.94 | -13.00 | -52.94 |
| 705.12 | H | -56.82 | -6.50 | -63.32 | -13.00 | -50.32 |

***Remark:***

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.*

**Above 1GHz**

**Operation Mode:** GSM 850 / TX / CH 128 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 1651.00 | V | -44.74 | 1.61 | -43.13 | -13.00 | -30.13 |
| 1812.00 | V | -54.13 | 1.71 | -52.42 | -13.00 | -39.42 |
| 2470.00 | V | -51.23 | 4.41 | -46.82 | -13.00 | -33.82 |
| N/A | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 1651.00 | H | -52.12 | 1.42 | -50.70 | -13.00 | -37.70 |
| 2470.00 | H | -48.17 | 4.43 | -43.74 | -13.00 | -30.74 |
| N/A | | | | | | |
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***Remark:***

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 Mode:** GSM 850 / TX / CH 190 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 1672.00 | V | -43.87 | 1.63 | -42.24 | -13.00 | -29.24 |
| 1812.00 | V | -56.09 | 1.71 | -54.37 | -13.00 | -41.37 |
| 2512.00 | V | -49.24 | 4.62 | -44.62 | -13.00 | -31.62 |
| 6691.00 | V | -59.15 | 13.85 | -45.29 | -13.00 | -32.29 |
| N/A | | | | | | |
| | | | | | | |
| | | | | | | |
| 1672.00 | H | -52.55 | 1.40 | -51.15 | -13.00 | -38.15 |
| 1840.00 | H | -57.78 | 1.28 | -56.50 | -13.00 | -43.50 |
| 2512.00 | H | -47.94 | 4.69 | -43.25 | -13.00 | -30.25 |
| N/A | | | | | | |
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***Remark:***

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 Mode:** GSM 850 / TX / CH 251 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 1700.00 | V | -47.54 | 1.64 | -45.89 | -13.00 | -32.89 |
| 2547.00 | V | -46.67 | 4.76 | -41.92 | -13.00 | -28.92 |
| N/A | | | | | | |
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| | | | | | | |
| 1700.00 | H | -54.31 | 1.38 | -52.93 | -13.00 | -39.93 |
| 1826.00 | H | -57.95 | 1.29 | -56.66 | -13.00 | -43.66 |
| 2547.00 | H | -48.90 | 4.82 | -44.07 | -13.00 | -31.07 |
| N/A | | | | | | |
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***Remark:***

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 Mode:** GPRS 850 / TX / CH 128 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 1651.00 | V | -44.48 | 1.61 | -42.86 | -13.00 | -29.86 |
| 2470.00 | V | -51.31 | 4.41 | -46.91 | -13.00 | -33.91 |
| 3296.00 | V | -59.25 | 8.35 | -50.90 | -13.00 | -37.90 |
| N/A | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 1651.00 | H | -53.16 | 1.42 | -51.74 | -13.00 | -38.74 |
| 2470.00 | H | -48.33 | 4.43 | -43.90 | -13.00 | -30.90 |
| N/A | | | | | | |
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***Remark:***

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 Mode:** GPRS 850 / TX / CH 190 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 1672.00 | V | -43.96 | 1.63 | -42.33 | -13.00 | -29.33 |
| 2512.00 | V | -48.71 | 4.62 | -44.09 | -13.00 | -31.09 |
| 6691.00 | V | -57.54 | 13.85 | -43.69 | -13.00 | -30.69 |
| N/A | | | | | | |
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| 1672.00 | H | -50.27 | 1.40 | -48.87 | -13.00 | -35.87 |
| 2512.00 | H | -48.87 | 4.69 | -44.18 | -13.00 | -31.18 |
| N/A | | | | | | |
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***Remark:***

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 Mode:** GPRS 850 / TX / CH 251 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 1651.00 | V | -44.48 | 1.61 | -42.86 | -13.00 | -29.86 |
| 2470.00 | V | -51.31 | 4.41 | -46.91 | -13.00 | -33.91 |
| 3296.00 | V | -59.25 | 8.35 | -50.90 | -13.00 | -37.90 |
| N/A | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 1651.00 | H | -53.16 | 1.42 | -51.74 | -13.00 | -38.74 |
| 2470.00 | H | -48.33 | 4.43 | -43.90 | -13.00 | -30.90 |
| N/A | | | | | | |
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***Remark:***

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 Mode:** GSM 1900 / TX / CH 512 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 3702.00 | V | -58.41 | 9.11 | -49.30 | -13.00 | -36.30 |
| 5550.00 | V | -58.46 | 10.32 | -48.14 | -13.00 | -35.14 |
| N/A | | | | | | |
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| N/A | | | | | | |
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***Remark:***

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 Mode:** GSM 1900 / TX / CH 661 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 3758.00 | V | -59.03 | 8.98 | -50.05 | -13.00 | -37.05 |
| 5641.00 | V | -60.24 | 10.40 | -49.84 | -13.00 | -36.84 |
| N/A | | | | | | |
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| N/A | | | | | | |
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***Remark:***

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 Mode:** GSM 1900 / TX / CH 810 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 3821.00 | V | -60.97 | 8.83 | -52.14 | -13.00 | -39.14 |
| 5732.00 | V | -52.20 | 10.48 | -41.72 | -13.00 | -28.72 |
| N/A | | | | | | |
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***Remark:***

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 Mode:** GPRS 1900 / TX / CH 512 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 3702.00 | V | -56.80 | 9.11 | -47.70 | -13.00 | -34.70 |
| 5550.00 | V | -59.51 | 10.32 | -49.19 | -13.00 | -36.19 |
| N/A | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 3702.00 | H | -61.22 | 8.89 | -52.33 | -13.00 | -39.33 |
| 5550.00 | H | -60.79 | 10.12 | -50.67 | -13.00 | -37.67 |
| N/A | | | | | | |
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***Remark:***

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 Mode:** GPRS 1900 / TX / CH 661 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 3758.00 | V | -60.08 | 8.98 | -51.10 | -13.00 | -38.10 |
| 5641.00 | V | -59.02 | 10.40 | -48.61 | -13.00 | -35.61 |
| N/A | | | | | | |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| 3758.00 | H | -60.06 | 8.76 | -51.30 | -13.00 | -38.30 |
| N/A | | | | | | |
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***Remark:***

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 Mode:** GPRS 1900 / TX / CH 810 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization | Reading level (dBuV) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 3821.00 | V | -59.51 | 8.83 | -50.68 | -13.00 | -37.68 |
| 5732.00 | V | -52.55 | 10.48 | -42.07 | -13.00 | -29.07 |
| N/A | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 3821.00 | H | -62.17 | 8.62 | -53.55 | -13.00 | -40.55 |
| 5732.00 | H | -59.46 | 10.33 | -49.13 | -13.00 | -36.13 |
| N/A | | | | | | |
| | | | | | | |
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***Remark:***

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 Mode:** EDGE 850 / TX / CH 128 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 1651.00 | V | -53.29 | 1.61 | -51.68 | -13.00 | -38.68 |
| 1826.00 | V | -57.53 | 1.72 | -55.81 | -13.00 | -42.81 |
| 2302.00 | V | -58.71 | 3.48 | -55.23 | -13.00 | -42.23 |
| N/A | | | | | | |
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| 2470.00 | H | -58.36 | 4.43 | -53.93 | -13.00 | -40.93 |
| N/A | | | | | | |
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***Remark:***

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 Mode:** EDGE 850 / TX / CH 190 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 1672.00 | V | -52.72 | 1.63 | -51.10 | -13.00 | -38.10 |
| 1833.00 | V | -55.64 | 1.73 | -53.92 | -13.00 | -40.92 |
| 2512.00 | V | -58.99 | 4.62 | -54.38 | -13.00 | -41.38 |
| N/A | | | | | | |
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| 1770.00 | H | -58.19 | 1.33 | -56.86 | -13.00 | -43.86 |
| 2512.00 | H | -57.19 | 4.69 | -52.50 | -13.00 | -39.50 |
| N/A | | | | | | |
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***Remark:***

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 Mode:** EDGE 850 / TX / CH 251 **Test Date:** May 22, 2010

**Temperature:** 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 1770.00 | V | -55.80 | 1.69 | -54.11 | -13.00 | -41.11 |
| 2547.00 | V | -57.80 | 4.76 | -53.04 | -13.00 | -40.04 |
| 2995.00 | V | -59.15 | 6.55 | -52.59 | -13.00 | -39.59 |
| N/A | | | | | | |
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| 1812.00 | H | -59.64 | 1.30 | -58.34 | -13.00 | -45.34 |
| 2547.00 | H | -59.96 | 4.82 | -55.13 | -13.00 | -42.13 |
| N/A | | | | | | |
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***Remark:***

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 Mode:** EDGE 1900 / TX / CH 512 **Test Date:** May 22, 2010

**Temperature**: 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 3702.00 | V | -58.92 | 9.11 | -49.82 | -13.00 | -36.82 |
| N/A | | | | | | |
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| N/A | | | | | | |
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***Remark:***

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 Mode:** EDGE 1900 / TX / CH 661 **Test Date:** May 22, 2010

**Temperature**: 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 3758.00 | V | -60.92 | 8.98 | -51.95 | -13.00 | -38.95 |
| N/A | | | | | | |
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***Remark:***

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 Mode:** EDGE 1900 / TX / CH 810 **Test Date:** May 22, 2010

**Temperature**: 25°C **Tested by:** Ming Chen

**Humidity:** 55 % RH **Polarity:** Ver. / Hor.

| Frequency (MHz) | Antenna Polarization (V/H) | Reading (dBm) | Correction Factor (dB) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|
| 5732.00 | V | -57.73 | 10.48 | -47.25 | -13.00 | -34.25 |
| N/A | | | | | | |
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***Remark:***

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.*