

FCC PART 22H, PART 24E MEASUREMENT AND TEST REPORT

For

Xiamen Yeastar Information Technology Co., Ltd.

4th Floor, NO 29 Wanghai Road, 2nd Software Park, Xiamen, China

FCC ID: Z7C-TG800

Report Type: **Product Type:** Original Report Gateway ean. Lau Dean Liu **Test Engineer:** Report Number: RXM150116051-00B **Report Date:** 2015-01-27 Sula Huang **Reviewed By:** RF Engineer Bay Area Compliance Laboratories Corp. (Dongguan) **Test Laboratory:** No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Xiamen Yeastar Information Technology Co., Ltd.'s product, model number: NeoGate TG800 (FCC ID: Z7C-TG800) (or the "EUT") in this report was a Gateway, which was measured approximately: 34 cm (L) x21.8 cm (W) x4.3 cm (H). rated input voltage: AC 120V/60Hz.

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* All measurement and test data in this report was gathered from production sample serial number: 150116051(Assigned by BACL Dongguan). The EUT was received on 2015-01-19.

Objective

This report is prepared on behalf of *Xiamen Yeastar Information Technology Co., Ltd.* in accordance with Part 2-Subpart J, Part 22-Subpart H, and Part 24-Subpart E of the Federal Communications Commission's rules.

The objective is to determine compliance with FCC rules for output power, modulation characteristic, occupied bandwidth, spurious emissions at antenna terminal, spurious radiated emission, frequency stability and band edge.

Related Submittal(s)/Grant(s)

FCC Part 15B JBP submissions with FCC ID: Z7C-TG800

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

Part 22 Subpart H – Public Mobile Services Part 24 Subpart E – Personal Communication Services

Applicable Standards: TIA/EIA 603-D-2010, ANSI C63.4-2003.

All radiated and conducted emissions measurements were performed at Bay Area Compliance Laboratories Corp.(Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 02, 2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Justification

The EUT was configured for testing according to TIA/EIA-603-D-2010.

The test items were performed with the EUT operating at testing mode.

Equipment Modifications

No modification was made to the EUT.

EUT Exercise Software

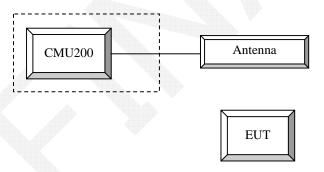
No exercise software was used in testing.

Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|--------------------------------------|--------|---------------|
| R&S | Universal Radio Communication Tester | CMU200 | 109038 |

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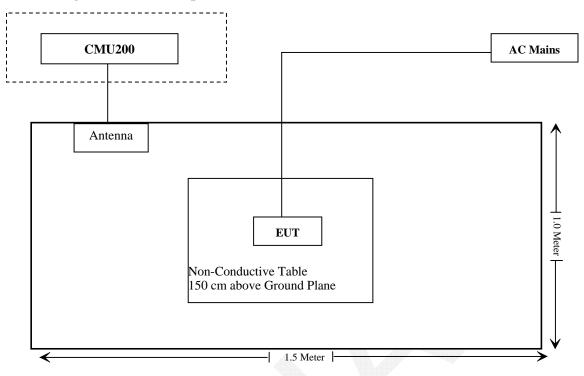
Configuration of Test Setup



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Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|--|---|-------------|
| §1.1310, §2.1091 | Maximum Permissible RF Exposure (MPE) Compliar | |
| \$2.1046; \$ 22.913 (a); \$ 24.232 (c) | RF Output Power | Compliance |
| § 2.1047 | Modulation Characteristics | Compliance* |
| \$ 2.1049; \$ 22.905 \$ 22.917; \$ 24.238 | Occupied Bandwidth | Compliance* |
| § 2.1051, § 22.917 (a); § 24.238 (a) | Spurious Emissions at Antenna Terminal | Compliance* |
| § 2.1053 § 22.917 (a); § 24.238 (a) | Field Strength of Spurious Radiation | Compliance |
| § 22.917 (a); § 24.238 (a) | Out of band emission, Band Edge | Compliance* |
| § 2.1055 § 22.355; § 24.235 | Frequency stability vs. temperature Frequency stability vs. voltage | Compliance* |

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Note:

Compliance*: the EUT has used 4 same certified modules (FCC ID: UDV-201314, certified on 2014-01-23), the test please refer to the module report.

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FCC §1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247(i) and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

| | (B) Limits for General Population/Uncontrolled Exposure | | | | | | | |
|--------------------------|---|--------|-----------|----|--|--|--|--|
| Frequency Range (MHz) | | | | | | | | |
| 0.3–1.34 | 614 | 1.63 | *(100) | 30 | | | | |
| 1.34–30 | 824/f | 2.19/f | *(180/f²) | 30 | | | | |
| 30–300 | 27.5 | 0.073 | 0.2 | 30 | | | | |
| 300–1500 | / | / | f/1500 | 30 | | | | |
| 1500-100,000 | / | / | 1.0 | 30 | | | | |

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

 $S = PG/4\pi R^2 = power density (in appropriate units, e.g. mW/cm^2);$

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_{i} \frac{S_{i}}{S_{Limit,i}} \leq 1$$

Calculated Data:

The device contains 8 same RF modules, the rated output power and antenna gain in the below table:

| Frequency Bands | Antenna Gain | | Max. Co Output | | P*G |
|-----------------|--------------|-----------|-------------------|---------|---------|
| | (dBi) | (numeric) | (dBm) | (mW) | (mW) |
| GSM 850 | 2.50 | 1.78 | 33.30 | 2137.96 | 3801.89 |
| PCS 1900 | 3.00 | 2.00 | 28.70 | 741.31 | 1479.11 |

Note: the Max. Conducted output power was the total power contained Max. tune-up tolerance.

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Power Density limit for GSM 850 is:

824.2/1500= 0.55 mW/cm2

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Power Density limit for PCS 1900 is:

1.0 mW/cm2

The 4 modules can transmit simultaneously,

$$\sum_{i} \frac{S_{i}}{S_{Limit,i}} \leq 1$$

The worst mode is all of the 8 module working at GSM850 band,

$$=>P_1*G_1/4\pi R^2+P_2*G_2/4\pi R^2+P_3*G_3/4\pi R^2+P_4*G_4/4\pi R^2+P_5*G_5/4\pi R^2+P_6*G_6/4\pi R^2+P_7*G_7/4\pi R^2+P_8*G_8/4\pi R^2<0.55$$

$$=> 8*(3801.89)/4\pi R^2 < 0.55$$

$$=> R^2 > 8*(3801.89)/(0.55*4\pi)$$

$$=> R > 66.35 \text{ cm}$$

Result: Result: The device meets MPE requirement for Devices Used by the General Public (Uncontrolled Environment) at the distance more than 66.35 cm.

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FCC § 2.1046, § 22.913 (a) & § 24.232 (c) - RF OUTPUT POWER

Applicable Standard

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

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According to FCC §2.1046 and §24.232 (C), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications...

Test Procedure

GSM

Menu select > GSM Mobile Station > GSM 850/1900

Press Connection control to choose the different menus

Press RESET > choose all the reset all settings

Press Signal Off to turn off the signal and change settings Connection

Network Support > GSM + only

MS Signal

> 33 dBm for GSM 850 > 30 dBm for GSM 1900

Enter the same channel number for TCH channel (test channel) and BCCH channel BS Signal

Frequency Offset > +0 Hz

Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stabe)

BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test

channel) and BCCH channel] Channel Type > Off P0 > 4 dB

TCH > choose desired test channel

Hopping > Off

Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input AF/RF

Press Signal on to turn on the signal and change settings Connection

GPRS

Menu select > GSM Mobile Station > GSM 850/1900 Function:

Press Connection control to choose the different menus

Press RESET > choose all the reset all settings

Press Signal Off to turn off the signal and change settings Connection

Network Support > GSM + GPRS or GSM + EGSM

Main Service > Packet Data

Service selection > Test Mode A – Auto Slot Config. off

MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting

> Slot configuration > Uplink/Gamma > 33 dBm for GPRS 850

> 30 dBm for GPRS 1900

BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel

Frequency Offset > +0 Hz

Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stabe)

BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test

channel) and BCCH channel]

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Channel Type > Off P0 > Slot Config > TCH > Hopping > 4 dB

Unchanged (if already set under MS signal) choose desired test channel Off

Main Timeslot >

Network Coding Scheme > CS4 (GPRS)

Bit Stream > 2E9-1 PSR Bit Stream

Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input Press Signal on to turn on the signal and change settings AF/RF

Connection

UMTS Rel 99

| | Mode | Rel99 |
|---------------|-------------------------|----------------|
| | Subtest | - |
| | Loopback Mode | Test Mode 1 |
| | Rel99 RMC | 12.2kbps RMC |
| | HSDPA FRC | Not Applicable |
| | HSUPA Test | Not Applicable |
| WCDMA General | Power Control Algorithm | Algorithm2 |
| Settings | βс | Not Applicable |
| Settings | βd | Not Applicable |
| | βес | Not Applicable |
| | βc/βd | 8/15 |
| | βhs | Not Applicable |
| | βed | Not Applicable |

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UMTS Rel 6 HSDPA

| | Mode | Rel6 HSDPA | Rel6 HSDPA | Rel6 HSDPA | Rel6 HSDPA | | |
|----------|--------------------------------------|----------------|------------|------------|------------|--|--|
| | Subtest | 1 | 2 | 3 | 4 | | |
| | Loopback Mode | Test Mode 1 | | 3 | 4 | | |
| | Rel99 RMC | 12.2kbps RMC | | | | | |
| | HSDPA FRC | H-Set1 | | | | | |
| | HSUPA Test | Not Applicable | | | | | |
| WCDMA | Power Control Algorithm | Algorithm 2 | | | | | |
| General | βc | 2/15 | 12/15 | 15/15 | 15/15 | | |
| Settings | βd | 15/15 | 15/15 | 8/15 | 4/15 | | |
| | βec | - | - | - | - | | |
| | βc/βd | 2/15 | 12/15 | 15/8 | 15/4 | | |
| | βhs | 4/15 | 24/15 | 30/15 | 30/15 | | |
| | βed | Not Applicable | | | • | | |
| | DACK | 8 | | | | | |
| | DNAK | 8 | | | | | |
| HSDPA | DCQI | 8 | | | | | |
| Specific | Ack-Nack repetition factor | r 3 | | | | | |
| Settings | CQI Feedback (Table 5.2B.4) | 4ms | | | | | |
| | CQI Repetition Factor (Table 5.2B.4) | 2 | | | | | |
| | Ahs = βhs/βc | 30/15 | | | | | |
| | | | | | | | |

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UMTS Rel 6 HSPA (HSDPA & HSUPA)

| | Mode | Rel6 HSUPA | Rel6 HSUPA | Rel6 HSUPA | Rel6 HSUPA | Rei6 HSUPA | | | |
|-------------------|------------------------------|--------------------------|---------------------------|-------------|--------------------------|------------|--|--|--|
| | Subtest | 1 | 2 | 3 | 4 | 5 | | | |
| | Loopback Mode | Test Mode 1 | • | • | • | | | | |
| | Rei99 RMC | 12.2kbps RMC | ; | | | | | | |
| | HSDPA FRC | H-Set1 | | | | | | | |
| | HSUPA Test | HSUPA Loopb | ack | | | | | | |
| | Power Control Algorithm | Algorithm2 | Algorithm2 | | | | | | |
| WCDMA General | βc | 11/15 | 6/15 | 15/15 | 2/15 | 15/15 | | | |
| Settings | βd | 15/15 | 15/15 | 9/15 | 15/15 | 0 | | | |
| Settings | βec | 209/225 | 12/15 | 30/15 | 2/15 | 5/15 | | | |
| | βc/βd | 11/15 | 6/15 | 15/9 | 2/15 | - | | | |
| | βhs | 22/15 | 12/15 | 30/15 | 4/15 | 5/15 | | | |
| | | | | 47/15 | | | | | |
| | βed | 1309/225 | 94/75 | 47/15 | 56/75 | 47/15 | | | |
| | DACK | 8 | • | • | | | | | |
| | DNAK | 8 | | | | | | | |
| HSDPA | DCQI | 8 | | | | | | | |
| Specific | Ack-Nack repetition factor | 3 | | | | | | | |
| Settings | CQI Feedback (Table 5.2B.4) | 4ms | | | | | | | |
| Settings | CQI Repetition Factor (Table | | | | | | | | |
| | 5.2B.4) | 2 | | | | | | | |
| | Ahs = βhs/βc | 30/15 | | | | | | | |
| | D E-DPCCH | 6 | 8 | 8 | 5 | 7 | | | |
| | DHARQ | 0 | 0 | 0 | 0 | 0 | | | |
| | AG Index | 20 | 12 | 15 | 17 | 12 | | | |
| | ETFCI (from 34.121 Table | | | | | | | | |
| | C.11.1.3) | 75 | 67 | 92 | 71 | 67 | | | |
| | Associated Max UL Data Rate | | | | | | | | |
| | kbps | 242.1 | 174.9 | 482.8 | 205.8 | 308.9 | | | |
| HSUPA Specific | | E-TFCI 11 E-TFCI PO 4 | | | E-TFCI 11 E-TFCI PO 4 | | | | |
| Settings | | E-TFCI 67 | | | E-TFCI 67 | | | | |
| | | E-TFCI PO 18 | E-TFCI PO 18 E-TFCI PO 18 | | | | | | |
| | Peference E TEOle | E-TFCI 71 | | | E-TFCI 71 | | | | |
| | Reference E_TFCIs | E-TFCI PO 23 | | E-TFCI 11 | E-TFCI PO 23 | | | | |
| | | E-TFCI 75 | | E-TFCI PO 4 | E-TFCI 75 | | | | |
| | | E-TFCI PO 26 | | E-TFCI 92 | E-TFCI PO 26 | | | | |
| | | E-TFCI 81 | | E-TFCI PO | E-TFCI 81 | | | | |
| | | E-TFCI PO 27 | | 18 | E-TFCI PO 27 | | | | |

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Radiated method:

ANSI/TIA 603-D section 2.2.17

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Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-------------------|------------------------------|------------|------------------|---------------------|-------------------------|
| R&S | EMI Test Receiver | ESCI | 100224 | 2014-05-09 | 2015-05-09 |
| Sunol Sciences | Antenna | JB3 | A060611-3 | 2014-07-28 | 2017-07-27 |
| HP | Amplifier | 8447E | 2434A02181 | 2014-09-01 | 2015-09-01 |
| R&S | Spectrum Analyzer | FSEM | DE31388 | 2014-05-09 | 2015-05-09 |
| ETS LINDGREN | Horn Antenna | 3115 | 000 527 35 | 2012-09-06 | 2015-09-06 |
| Mini-Circuit | Amplifier | ZVA-213-S+ | 054201245 | 2014-02-19 | 2015-02-19 |
| Giga | Signal Generator | 1026 | 320408 | 2014-05-09 | 2015-05-09 |
| EMCO | Adjustable Dipole Antenna | 3121C | 9109-753 | N/A | N/A |
| TDK RF | Horn Antenna | HRN-0118 | 130 084 | 2012-09-06 | 2015-09-06 |

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Test Data

Environmental Conditions

| Temperature: | 22 °C |
|--------------------|-----------|
| Relative Humidity: | 387 % |
| ATM Pressure: | 101.3 kPa |

The testing was performed by Dean Liu on 2015-01-24.

ERP & EIRP

| | | Dansiran | Substituted Method | | Abaaluta | | | |
|--------------------|----------------|-------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|
| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBµV) | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
| | | | | GSM 850 | | | | |
| 848.800 | Н | 102.90 | 28.1 | 0.0 | 1 | 27.1 | 38.45 | 11.35 |
| 848.800 | V | 103.86 | 32.2 | 0.0 | 1 | 31.2 | 38.45 | 7.25 |
| | PCS 1900 | | | | | | | |
| 1909.800 | Н | 84.67 | 13.3 | 11.8 | 1.4 | 23.7 | 33.0 | 9.3 |
| 1909.800 | V | 90.37 | 19.3 | 11.8 | 1.4 | 29.7 | 33.0 | 3.3 |

Note: Please refer to the certified module (FCC ID: UDV-201314) report for the antenna port output power.

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

FCC §2.1053, §22.917 & §24.238 - SPURIOUS RADIATED EMISSIONS

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Applicable Standard

FCC § 2.1053, §22.917 and § 24.238.

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in $dB = 10 \lg (TXpwr in Watts/0.001)$ – the absolute level

Spurious attenuation limit in $dB = 43 + 10 \text{ Log}_{10}$ (power out in Watts)

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date | | |
|-------------------|------------------------------|------------|------------------|---------------------|-------------------------|--|--|
| R&S | EMI Test Receiver | ESCI | 100224 | 2014-05-09 | 2015-05-09 | | |
| Sunol Sciences | Antenna | JB3 | A060611-3 | 2014-07-28 | 2017-07-27 | | |
| HP | Amplifier | 8447E | 2434A02181 | 2014-09-01 | 2015-09-01 | | |
| R&S | Spectrum Analyzer | FSEM | DE31388 | 2014-05-09 | 2015-05-09 | | |
| ETS LINDGREN | Horn Antenna | 3115 | 000 527 35 | 2012-09-06 | 2015-09-06 | | |
| Mini-Circuit | Amplifier | ZVA-213-S+ | 054201245 | 2014-02-19 | 2015-02-19 | | |
| Giga | Signal Generator | 1026 | 320408 | 2014-05-09 | 2015-05-09 | | |
| EMCO | Adjustable Dipole Antenna | 3121C | 9109-753 | N/A | N/A | | |
| TDK RF | Horn Antenna | HRN-0118 | 130 084 | 2012-09-06 | 2015-09-06 | | |

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

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Test Data

Environmental Conditions

| Temperature: | 20.4 °C | | | |
|--------------------|-----------|--|--|--|
| Relative Humidity: | 61 % | | | |
| ATM Pressure: | 101.3 kPa | | | |

The testing was performed by Dean Liu on 2015-01-24.

EUT Operation Mode: Transmitting

| | | Reading | Substituted Method | | | A3 3 4 | | | |
|--------------------------------------|----------------|---------|------------------------|------------------------------|--------------------|----------------------------|-------------|----------------|--|
| | Polar (H/V) | | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) | Margin (dB) | |
| GSM850, Test Frequency:836.600MHz | | | | | | | | | |
| 1673.200 | Н | 53.59 | -47.5 | 10.6 | 1.5 | -38.4 | -13.0 | 25.4 | |
| 1673.200 | V | 59.88 | -41.5 | 10.6 | 1.5 | -32.4 | -13.0 | 19.4 | |
| 2509.800 | Н | 50.14 | -47.9 | 13.1 | 2.8 | -37.6 | -13.0 | 24.6 | |
| 2509.800 | V | 55.68 | -41.4 | 13.1 | 2.8 | -31.1 | -13.0 | 18.1 | |
| 375.000 | Н | 32.53 | -65.9 | 0.0 | 0.6 | -66.5 | -13.0 | 53.5 | |
| 375.000 | V | 34.68 | -61.1 | 0.0 | 0.6 | -61.7 | -13.0 | 48.7 | |
| PCS 1900, Test Frequency:1880.000MHz | | | | | | | | | |
| 3760.000 | Н | 32.78 | -61.5 | 13.8 | 2.9 | -50.6 | -13.0 | 37.6 | |
| 3760.000 | V | 33.24 | -59.8 | 13.8 | 2.9 | -48.9 | -13.0 | 35.9 | |
| 415.000 | Н | 33.62 | -60.7 | 0.0 | 0.6 | -61.3 | -13.0 | 48.3 | |
| 415.000 | V | 35.87 | -56 | 0.0 | 0.6 | -56.6 | -13.0 | 43.6 | |

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Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = SG Level Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

***** END OF REPORT *****

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