

Giant Telecom Ltd.

Application
For
Certification

Wifi Phone

(FCC ID: RAQCP300A)

07112951
KL/ac
July 14, 2007

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INTERTEK TESTING SERVICES

LIST OF EXHIBITS

INTRODUCTION

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- EXHIBIT 2:* System Test Configuration
- EXHIBIT 3:* Emission Results
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MEASUREMENT/TECHNICAL REPORT

Giant Telecom Ltd. - Model: CP300A
FCC ID: RAQCP300A

This report concerns (check one:) Original Grant Class II Change

Equipment Type : DXT - Cordless Telephone

Deferred grant requested per 47 CFR
0.457(d)(1)(ii)? Yes No

Company Name agrees to notify the Commission by:

date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37 ? Yes No

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [04-05-05]

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [04-05-05 Edition] Provision.

Report prepared by:

Lam Chun Cheong, Kenneth

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List of attached file

Exhibit type	File Description	filename
Cover Letter	Confidentiality Request	request.pdf
Test Report	Test Report	report.pdf
Operation Description	Technical Description	descri.pdf
Test Setup Photo	Radiated & Conducted Emission for Base	config photos.doc
Test Setup Photo	Radiated Emission for Handset	
Test Report	Emission Plot	emission.pdf
Test Report	Conducted Emission Test Result	conduct.pdf
External Photo	External Photo	external photos.doc
Internal Photo	Internal Photo	internal photos.doc
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
ID Label/Location	Label Artwork and Location	label.pdf
ID Label/Location	Label Location Justification	justification.pdf
User Manual	User Manual	manual.pdf

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EXHIBIT 1
GENERAL DESCRIPTION

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1.0 General Description

1.1 Product Description

The CP300A is a 2.4GHz WiFi Phone. It operates with wireless LAN to make voice-over-IP calls to the other IP phone.

It is targeted for IEEE802.11b, 1, 2, 5.5 and 11 Mbps DSSS high rate standards. It is also targeted for IEEE 802.11g, 6, 9, 12, 18, 24, 36, 48 and 54 Mbps OFDM high rate standards. The modulation used is DSSS or OFDM.

The internal power supply's isolation is accomplished through a power transformer having an adequate dielectric rating. The unit can be powered by rechargeable battery or power adaptor.

The unit consists of a keypad with twelve standard keys (0,...9,*,#), and seven function keys (Left Soft Button, Right Soft Button, Up, Down, Left, Right, Select Soft Button). Send and End keys are provided to control pick and release calls respectively.

The antennas used in is integral, and the tested sample is a prototype.

The circuit description is saved with filename: descri.pdf

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1.2 Related Submittal(s) Grants

This is an Application for Certification of a DXT - Pt 15 Low Pwr Transceiver, Rx Verified. A transmitter is included in this Application. This specific report details the emission characteristics of the transmitter. The receiver is subject to the verification authorization process, in accordance with 15.101(b). A verification report has been prepared for the receiver section of the device.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2003). All measurements were performed in Open Area Test Sites. Preliminary scans were performed in the Open Area Test Sites only to determine worst case modes. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the **"Justification Section"** of this Application.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data and conducted data are located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. This test facility and site measurement data have been fully placed on file with the FCC.

EXHIBIT 2
SYSTEM TEST CONFIGURATION

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2.0 System Test Configuration

2.1 Justification

For emissions testing, the equipment under test (EUT) was setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The handset was powered by a fully charged battery or/and power adaptor.

For the measurements, the EUT is attached to a plastic stand if necessary and placed on the wooden turntable. In order to produce the maximum emission, all data rates (1, 2, 5.5, 11 Mbps for DSSS; 6, 9, 12, 18, 24, 36, 42, 54 Mbps for OFDM) and modulations (DSSS, OFDM) are considered.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

2.2 EUT Exercising Software

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use.

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2.3 Support Equipment List and Description

The FCC ID's for all equipment, plus descriptions of all cables used in the tested system are:

HARDWARE:

An AC adaptor and a battery (provided with the unit) were used to power the device. Their description are listed below.

- (1) Charger: A switching mode adaptor (100-240VAC to 5.0VDC 1A, Model: KSAFB0500100W1US)
- (2) Handset: A "Li-ion" type rechargeable battery (3.7V 1200mAh)

CABLES:

There are no special accessories necessary for compliance of this product.

OTHERS:

- (1) A headset for telephone use with 1.2m unshielded cable permanently affixed. (Supplied by Intertek)

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2.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty test has been considered.

2.5 Equipment Modification

Any modifications installed previous to testing by Giant Telecom Ltd. will be incorporated in each production model sold/leased in the United States.

No modifications were installed by ETL Division, Intertek Testing Services Hong Kong Ltd.

All the items listed under section 2.0 of this report are confirmed by:

Confirmed by:

*Lam Chun Cheong, Kenneth
Assistant Supervisor
Intertek Testing Services
Agent for Giant Telecom Ltd.*



Signature

14 July, 2007 Date

EXHIBIT 3
EMISSION RESULTS

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3.0 Emission Results

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

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3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

where FS = Field Strength in $\text{dB}\mu\text{V}/\text{m}$

RA = Receiver Amplitude (including preamplifier) in $\text{dB}\mu\text{V}$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:-

$$FS = RR + LF$$

where FS = Field Strength in $\text{dB}\mu\text{V}/\text{m}$

RR = $RA - AG$ in $\text{dB}\mu\text{V}$

LF = $CF + AF$ in dB

Assume a receiver reading of 52.0 $\text{dB}\mu\text{V}$ is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 $\text{dB}\mu\text{V}/\text{m}$. This value in $\text{dB}\mu\text{V}/\text{m}$ was converted to its corresponding level in $\mu\text{V}/\text{m}$.

$$RA = 52.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$FS = RR + LF$$

$$FS = 23 + 9 = 32 \text{ dB}\mu\text{V}/\text{m}$$

$$RR = 23.0 \text{ dB}\mu\text{V}$$

$$LF = 9.0 \text{ dB}$$

$$\text{Level in } \mu\text{V}/\text{m} = \text{Common Antilogarithm } [(32 \text{ dB}\mu\text{V}/\text{m})/20] = 39.8 \mu\text{V}/\text{m}$$

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3.2 Radiated Emission Configuration Photograph

Worst Case Radiated Emission

at 600.000 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: config photos.doc

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3.3 Radiated Emission Data

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Judgement : Passed by 5.4 dB margin

TEST PERSONNEL:



Tester Signature

Jess Tang, Lead Engineer
Typed/Printed Name

14 July, 2007

Date

INTERTEK TESTING SERVICES

Company: Giant Telecom Ltd.

Date of Test: May 30-June 13, 2007

Model: CP300A

Mode : TX-Channel 1 (DSSS, data rate: 11Mbps)

Table 1
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m Peak Data (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2412.000	109.2	33	29.4	105.6	114.0	-8.4
H	*4824.000	40.1	33	34.9	42.0	74.0	-32.0
H	7236.000	39.2	33	37.9	44.1	74.0	-29.9
H	9648.000	38.1	33	40.4	45.5	74.0	-28.5
H	*12060.000	38.5	33	40.5	46.0	74.0	-28.0

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m Average Data (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2412.000	84.2	33	29.4	80.6	94.0	-13.4

NOTES: 1. Peak detector is used for the peak emission measurement.

2. Average detector is used for the average emission measurement.

3. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

4. Negative value in the margin column shows emission below limit.

5. Horn antenna is used for the emission over 1000MHz.

6. Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).

7. The harmonic emissions also meet corresponding permitted average limit with a peak detector function.

* Emission within the restricted band meets the requirement of part 15.205.

Test Engineer: Jess Tang

FCC ID: RAQCP300A

INTERTEK TESTING SERVICES

Company: Giant Telecom Ltd.

Date of Test: May 30-June 13, 2007

Model: CP300A

Mode : TX-Channel 6 (DSSS, data rate: 11Mbps)

Table 2
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m Peak Data (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2437.000	108.5	33	29.4	104.9	114.0	-9.1
H	*4874.000	41.0	33	34.9	42.9	74.0	-31.1
H	7311.000	39.7	33	37.9	44.6	74.0	-29.4
H	9748.000	37.9	33	40.4	45.3	74.0	-28.7
H	*12185.000	38.4	33	40.5	45.9	74.0	-28.1

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m Average Data (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2437.000	83.5	33	29.4	79.9	94.0	-14.1

NOTES: 1. Peak detector is used for the peak emission measurement.

2. Average detector is used for the average emission measurement.

3. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

4. Negative value in the margin column shows emission below limit.

5. Horn antenna is used for the emission over 1000MHz.

6. Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).

7. The harmonic emissions also meet corresponding permitted average limit with a peak detector function.

* Emission within the restricted band meets the requirement of part 15.205.

Test Engineer: Jess Tang

FCC ID: RAQCP300A

INTERTEK TESTING SERVICES

Company: Giant Telecom Ltd.

Date of Test: May 30-June 13, 2007

Model: CP300A

Mode : TX-Channel 11 (DSSS, data rate: 11Mbps)

Table 3
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m Peak Data (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2462.000	108.5	33	29.4	104.9	114.0	-9.1
H	*4924.000	41.2	33	34.9	43.1	74.0	-30.9
H	*7386.000	39.9	33	37.9	44.8	74.0	-29.2
H	9848.000	38.2	33	40.4	45.6	74.0	-28.4
H	*12310.000	38.8	33	40.5	46.3	74.0	-27.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m Average Data (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2462.000	83.5	33	29.4	79.9	94.0	-14.1

NOTES: 1. Peak detector is used for the peak emission measurement.

2. Average detector is used for the average emission measurement.

3. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

4. Negative value in the margin column shows emission below limit.

5. Horn antenna is used for the emission over 1000MHz.

6. Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).

7. The harmonic emissions also meet corresponding permitted average limit with a peak detector function.

* Emission within the restricted band meets the requirement of part 15.205.

Test Engineer: Jess Tang

FCC ID: RAQCP300A

INTERTEK TESTING SERVICES

Company: Giant Telecom Ltd.

Date of Test: May 30-June 13, 2007

Model: CP300A

Mode : TX-Channel 1 (OFDM, data rate: 54Mbps)

Table 4
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m Peak Data (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2412.000	107.7	33	29.4	104.1	114.0	-9.9
H	*4824.000	40.4	33	34.9	42.3	74.0	-31.7
H	7236.000	40.1	33	37.9	45.0	74.0	-29.0
H	9648.000	38.2	33	40.4	45.6	74.0	-28.4
H	*12060.000	39.4	33	40.5	46.9	74.0	-27.1

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m Average Data (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2412.000	77.7	33	29.4	74.1	94.0	-19.9

NOTES: 1. Peak detector is used for the peak emission measurement.

2. Average detector is used for the average emission measurement.

3. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

4. Negative value in the margin column shows emission below limit.

5. Horn antenna is used for the emission over 1000MHz.

6. Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).

7. The harmonic emissions also meet corresponding permitted average limit with a peak detector function.

* Emission within the restricted band meets the requirement of part 15.205.

Test Engineer: Jess Tang

FCC ID: RAQCP300A

INTERTEK TESTING SERVICES

Company: Giant Telecom Ltd.

Date of Test: May 30-June 13, 2007

Model: CP300A

Mode : TX-Channel 6 (OFDM, data rate: 54Mbps)

Table 5
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m Peak Data (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2437.000	106.5	33	29.4	102.9	114.0	-11.1
H	*4874.000	40.1	33	34.9	42.0	74.0	-32.0
H	7311.000	40.7	33	37.9	45.6	74.0	-28.4
H	9748.000	38.0	33	40.4	45.4	74.0	-28.6
H	*12185.000	39.5	33	40.5	47.0	74.0	-27.0

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m Average Data (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2437.000	76.5	33	29.4	72.9	94.0	-21.1

NOTES: 1. Peak detector is used for the peak emission measurement.

2. Average detector is used for the average emission measurement.

3. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

4. Negative value in the margin column shows emission below limit.

5. Horn antenna is used for the emission over 1000MHz.

6. Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).

7. The harmonic emissions also meet corresponding permitted average limit with a peak detector function.

* Emission within the restricted band meets the requirement of part 15.205.

Test Engineer: Jess Tang

FCC ID: RAQCP300A

INTERTEK TESTING SERVICES

Company: Giant Telecom Ltd.

Date of Test: May 30-June 13, 2007

Model: CP300A

Mode : TX-Channel 11 (OFDM, data rate: 54Mbps)

Table 6
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m Peak Data (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2462.000	106.4	33	29.4	102.8	114.0	-11.2
H	*4924.000	40.8	33	34.9	42.7	74.0	-31.3
H	*7386.000	40.4	33	37.9	45.3	74.0	-28.7
H	9848.000	38.5	33	40.4	45.9	74.0	-28.1
H	*12310.000	39.0	33	40.5	46.5	74.0	-27.5

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp (dB)	Antenna Factor (dB)	Net at 3m Average Data (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2462.000	76.4	33	29.4	72.8	94.0	-21.2

NOTES: 1. Peak detector is used for the peak emission measurement.

2. Average detector is used for the average emission measurement.

3. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

4. Negative value in the margin column shows emission below limit.

5. Horn antenna is used for the emission over 1000MHz.

6. Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).

7. The harmonic emissions also meet corresponding permitted average limit with a peak detector function.

* Emission within the restricted band meets the requirement of part 15.205.

Test Engineer: Jess Tang

FCC ID: RAQCP300A

INTERTEK TESTING SERVICES

3.4 Radiated Emission on the Bandedge

From the following plots, they show that the fundamental emissions are confined in the specified band (2400MHz and 2483.5MHz). In case of the fundamental emissions are within two standard bandwidths from the bandedge, the delta measurement technique is used for determining bandedge compliance. Standard bandwidth is the bandwidth specified by ANSI C63.4 (2003) for frequency being measured.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).

Please refer to the following plots for radiated emission on the bandedge:

Plot B1A*: DSSS - Low Channel Emissions

Plot B1B: DSSS - High Channel Emissions

Plot H2A**: OFDM - Low Channel Emissions

Plot H2B: OFDM - High Channel Emissions

For electronic filing, the above plots are saved with filename: emission.pdf

* Bandedge compliance is determined by applying marker-delta method, i.e.

$$\begin{aligned}\text{Peak resultant field strength} &= \text{Peak fundamental emission} - \text{delta from the plot} \\ &= (105.6 - 37.71) \text{ dB}\mu\text{V/m} \\ &= 67.89 \text{ dB}\mu\text{V/m}\end{aligned}$$

$$\begin{aligned}\text{Average resultant field strength} &= \text{Average fundamental emission} - \text{delta from the plot} \\ &= (80.6 - 37.71) \text{ dB}\mu\text{V/m} \\ &= 42.89 \text{ dB}\mu\text{V/m}\end{aligned}$$

** Bandedge compliance is determined by applying marker-delta method, i.e.

$$\begin{aligned}\text{Peak resultant field strength} &= \text{Peak fundamental emission} - \text{delta from the plot} \\ &= (104.1 - 31.16) \text{ dB}\mu\text{V/m} \\ &= 72.94 \text{ dB}\mu\text{V/m}\end{aligned}$$

$$\begin{aligned}\text{Average resultant field strength} &= \text{Average fundamental emission} - \text{delta from the plot} \\ &= (74.1 - 31.16) \text{ dB}\mu\text{V/m} \\ &= 42.94 \text{ dB}\mu\text{V/m}\end{aligned}$$

The peak and average resultant field strength meets the general radiated emission limits in section 15.209, which does not exceed 74dB μ V/m and 54dB μ V/m respectively.

INTERTEK TESTING SERVICES

3.5 Line Conducted Configuration Photograph

Worst Case Line-Conducted Configuration

at 0.525 MHz & 0.585 MHz

For electronic filing, the worst case line conducted configuration photographs are saved with filename: config photos.doc

INTERTEK TESTING SERVICES

3.6 Line Conducted Emission Data

The data on the following pages list the significant emission frequencies, the limit, and the margin of compliance.

Judgement : Passed by 8.5 dB margin

For electronic filing, the conducted emission test result is saved with filename: conduct.pdf

TEST PERSONNEL:



Tester Signature

Jess Tang, Lead Engineer
Typed/Printed Name

14 July, 2007

Date

INTERTEK TESTING SERVICES

Company: Giant Telecom Ltd.
Model: CP300A

Date of Test: May 30-June 13, 2007

3.7 Radiated Emissions from Digital Section of Transceiver (Transmitter), FCC Ref: 15.109

- Not required - No digital part
- Test results are attached
- Included in the separated DOC report.

INTERTEK TESTING SERVICES

Company: Giant Telecom Ltd.

Date of Test: May 30-June 13, 2007

Model: CP300A

Mode: Talking with Charging (DSSS)

Table 7

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	40.000	34.8	16	10.0	28.8	40.0	-11.2
H	120.005	34.6	16	14.0	32.6	43.5	-10.9
H	200.000	32.5	16	16.0	32.5	43.5	-11.0
H	300.001	23.4	16	22.0	29.4	46.0	-16.6
H	559.788	23.5	16	28.0	35.5	46.0	-10.5
H	600.000	27.0	16	29.0	40.0	46.0	-6.0

NOTES: 1. Quasi-peak detector is used for the emission below or equal to 1000 MHz.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

Test Engineer: Jess Tang

INTERTEK TESTING SERVICES

Company: Giant Telecom Ltd.

Date of Test: May 30-June 13, 2007

Model: CP300A

Mode: Talking with Charging (OFDM)

Table 8

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	40.000	34.3	16	10.0	28.3	40.0	-11.7
H	120.005	35.8	16	14.0	33.8	43.5	-9.7
H	200.000	33.5	16	16.0	33.5	43.5	-10.0
H	300.001	22.9	16	22.0	28.9	46.0	-17.1
H	559.788	23.5	16	28.0	35.5	46.0	-10.5
H	600.000	27.6	16	29.0	40.6	46.0	-5.4

NOTES: 1. Quasi-peak detector is used for the emission below or equal to 1000 MHz.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

Test Engineer: Jess Tang

INTERTEK TESTING SERVICES

EXHIBIT 4
EQUIPMENT PHOTOGRAPHS

INTERTEK TESTING SERVICES

4.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.doc & internal photos.doc

EXHIBIT 5
PRODUCT LABELLING

INTERTEK TESTING SERVICES

5.0 Product Labelling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf

The label location justification letter is saved as filename: justification.pdf

EXHIBIT 6
TECHNICAL SPECIFICATIONS

INTERTEK TESTING SERVICES

6.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

EXHIBIT 7
INSTRUCTION MANUAL

INTERTEK TESTING SERVICES

7.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf

The required FCC Information to the User is stated on P.3 of the Instruction Manual.

This manual will be provided to the end-user with each unit sold/leased in the United States.

EXHIBIT 8
CONFIDENTIALITY REQUEST

INTERTEK TESTING SERVICES

8.0 Confidentiality Request

For electronic filing, a preliminary copy of the Confidentiality Request is saved with filename: request.pdf