### HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.



PRODUCT COMPLIANCE DIVISION SAN 136-1, AMI-RI , BUBAL-EUP, ICHEON-SI, KYOUNGKI-DO, 467-701, KOREA

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# CERTIFICATE OF COMPLIANCE

### FCC Part 24 & 22 Certification

UTStarcom, Inc.

1275 Harbor Bay Parkway Alameda, CA 94502 USA

FRN: 0005823877

Date of Issue: December 22, 2005
Test Report No.: HCT-SAR05-1210

Test Site: HYUNDAI CALIBRATION & CERTIFICATION

TECHNOLOGIES CO., LTD.

FRN: 0005866421

FCC ID : O6Y-CDM7025SP

APPLICANT : UTStarcom, Inc.

EUT Type: Tri-Mode Dual-Band Phone (AMPS/CDMA/ PCS CDMA) - Prototype
Tx Frequency: 824.04 — 848.97 MHz (AMPS) / 824.70 — 848.31 MHz (CDMA)

1851.25 — 1908.75 MHz (PCS CDMA)

Rx Frequency: 869.04 — 893.97 MHz (AMPS) / 869.70 — 893.31 MHz (CDMA)

1931.25 — 1988.75 MHz (PCS CDMA)

Max. RF Output Power: 0.362W ERP AMPS (25.6dBm) / 0.285W ERP CDMA (24.6dBm) /

0.299W EIRP PCS CDMA (24.8dBm)

Trade Name/Model(s): UTStarcom / CDM7025SP

FCC Classification: Licensed Portable Transmitter Held to Ear (PCE)

Application Type: Certification

FCC Rule Part(s): §24(E), §22(H), §2

Maximum SAR: 1.16 W/kg AMPS Brain SAR / 1.19 W/kg AMPS Body SAR /

0.953 W/kg CDMA Brain SAR / 1.07 W/kg CDMA Body SAR /

1.35 W/kg PCS CDMA Brain SAR / 0.943W/kg PCS CDMA Body SAR

Antenna Specifications: Manufacturer: SB Telecom Co., Ltd.

MODEL: CDM7025SP (Length= 97.8 mm  $\pm 1.0$ mm)

Emission Designator(s): 40K0F8W, 40K0F1D, 1M28F9W

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in  $\oint 2.947$ .

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Hyundai C-Tech Co., Ltd. Certifies that no party to this application has been denied FCC benefits pursuant to section 5301 of the Anti- Drug Abuse Act of 1998, 21 U.S. C. 853(a)

Report prepared by: Ki-Soo Kim

K 500

**Manager of Product Compliance Team** 

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# MEASUREMENT REPORT

### 1.1 SCOPE

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

### **General Information**

Company Name: UTStarcom, Inc.

33 Wood Avenue South 3rd, Floor Iselin, NEW JERSEY Address:

08830, United Stated

Attention: Mr. Rick Phung - UTStarcom, Inc. Project Manager

Tel. / Fax: (732)767-5263 / (732)548-1099

E-Mail: ablack@utstar.com

• FCC ID: O6Y-CDM7025SP

• Quantity: Quantity production is planned

• EUT Type: Tri-Mode Dual-Band Phone (AMPS/CDMA/PCS CDMA) - Prototype

• Trade Name: **UTStarcom** CDM7025SP Model(s):

O6YSP20051200001 • Serial Number(s):

40K0F8W, 40K0F1D, 1M28F9W • Emission Designator(s):

• Tx Frequency: 824.04 - 848.97 MHz (AMPS) / 824.70 - 848.31 MHz (CDMA)

1851.25 - 1908.75 MHz (PCS CDMA)

• Rx Frequency: 869.04 - 893.97 MHz (AMPS) / 869.70 - 893.31 MHz (CDMA)

1931.25 - 1988.75 MHz (PCS CDMA)

• Application Type: Certification

• FCC Classification: Licensed Portable Transmitter Held to Ear (PCE)

• FCC Rule Part(s): §24(E), §22(H), §2

Modulation(s): AMPS/ CDMA/ PCS CDMA

• Antenna Type: Retractable (Retracted/Extended)

• Max RF. Output Power: 0.362W ERP AMPS (25.6dBm) / 0.285W ERP CDMA (24.6dBm) /

0.299W EIRP PCS CDMA (24.8dBm)

• Date(s) of Tests: December 5, 2005 - December 7, 2005

• Place of Tests: Hyundai C-Tech. EMC Lab.

Icheon, Kyounki-Do, KOREA

HCT-SAR05-1210 • Report Serial No.:

DATE: December 22, 2005

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### 2.1 INTRODUCTION

#### **EUT DESCRIPTION**

The UTStarcom, Inc. CDM7025SP Tri-Mode Dual-Band Phone (AMPS/ CDMA/ PCS CDMA) phone. Its basic purpose is used for communications. It transmits from AMPS(824.04~848.97), CDMA(824.70~848.31), PCS CDMA(1851.25~1908.75)MHz and receives from AMPS(869.04~893.97), CDMA(869.70~893.31), PCS CDMA(1931.25~1988.75)MHz. The RF power is rated at AMPS (0.362W), CDMA (0.285W), PCS CDMA (0.299W).

#### 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.

### **Test Facility**

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1,Maekok-Ri, Hobup-Myun, Ichon-Si, Kyoungki-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 23, 2003(Registration Number: 90661)

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# 3.1 INSERTS

### **Function of Active Devices (Confidential)**

The Function of active devices are shown in Attachment K.

# **Block/Circuit Diagrams & Description (Confidential)**

The circuit diagrams & description are shown in Attachment J, and the block diagrams are shown in Attachment I.

### **Operating Instructions**

The instruction manual is shown in Attachment M.

### Parts List & Tune-Up Procedure (Confidential)

The parts list & tune-up procedure are shown in Attachment L.

# **Description of Freq. Stabilization Circuit (Confidential)**

The description of frequency stabilization circuit is shown in Attachment K.

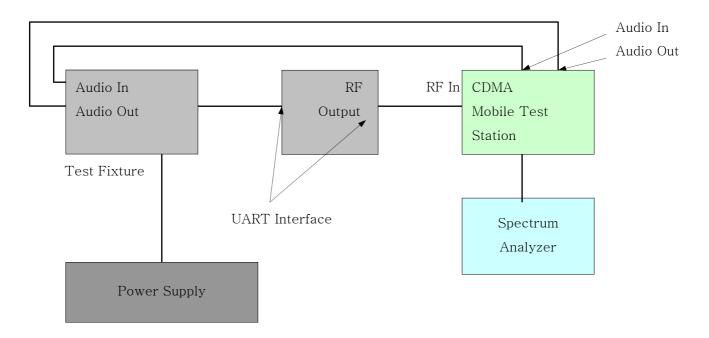
# <u>Description for Suppression of Spurious Radiation, for Limiting</u> <u>Modulation, and Harmonic Suppresion Circuits (Confidential)</u>

The description of suppression stabilization circuits are shown in Attachment K

# 4.1 DESCRIPTION OF TESTS

### 4.1 RF Power output.

### Test Set-up



UART Interface: The UART Interface has a serial communication link and RF Interface port that can be used to test, debug or upgrade the phone's functions and characteristics.

**EUT**: Equipment Under Test

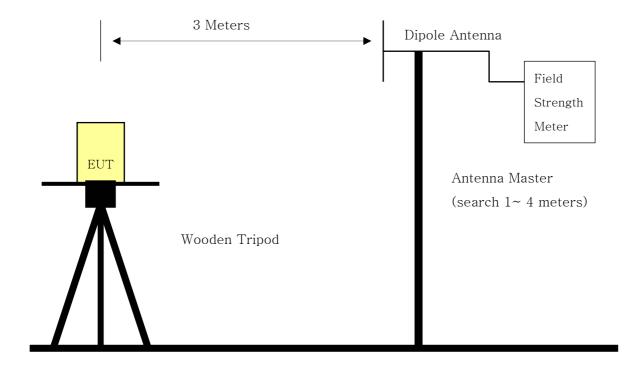
#### **Test Procedure**

The power is read at the specturm anlalyzer through the duplex port of CDMA mobile test station.

RF power output is measured at the RF output terminal (UART Interface) on the bottom side of the EUT.

### 4.2 Effective Radiated Power.

### Test Set-up



Open Field Test Site

#### **Test Procedure**

The measurement facsilities used for this test have been documented in previous filings with the commission pursuant to section 2.948.

The open field test site is situated in open field with ground screen whose site attenuation characteristics meet ANSI C63.4 –1992. A mast capable of lifting the receiving antenna from a height of one to four meters is used together with a rotable wooden platform mounted at three from the antenna mast.

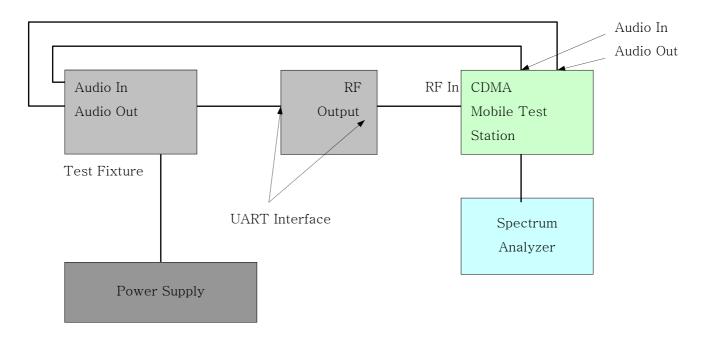
- 1) The EUT mounted on a wooden tripod is 0.8 meter above test site ground level.
- 2) During the test, the turn table is rotated and the antenna height is also varied from 1 to 4 meters until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with  $_{\lambda}$  / 2 dipole antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item(4).
- 6) The signal generator output level is the rating of effective radiated power(ERP).
- 7) The instrument settings used (RBW/ VBW) during ERP/ EIRP output power measurement are as Belows;
  - -. Below 1GHz: RBW 3MHz, VBW 3MHz

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### 4.3 Modulation Requirements.

# 4.3.1 Frequency response of the audio modulation circuit.

# Test Set-up

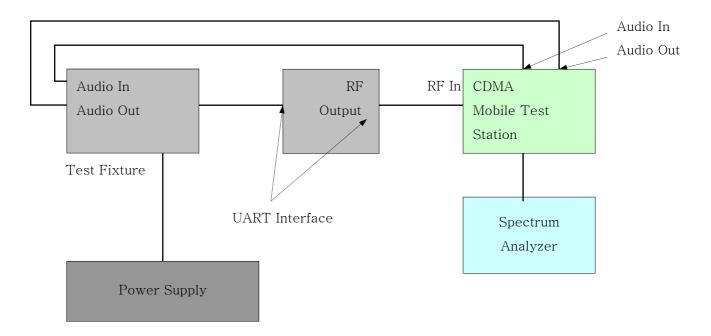


UART Interface: The UART Interface has a serial communication link that can be used to test, debug or upgrade the phone's functions and characteristics.

- 1) Set the frequency deviation  $\pm 2.9$ KHz at the audio tone by adjusting the audio generator and record the demod out level at 1KHz.
- 2) Change the frequency of audio generator from 300KHz to 3000Hz and record the demod out level relative to the level at 1KHz.
- 3) Adjust the audio input frequency to 1000KHz and adjust the input level to 20dB greater than that required to produce  $\pm 8$ KHz deviation.
- 4) Change the frequency of audio generator from 3000Hz to 30,000Hz and record the demod out level relative to the level at 1KHz.

# 4.3.2 Modulation levels and response of modulation limiting circuitry.

# Test Set-up

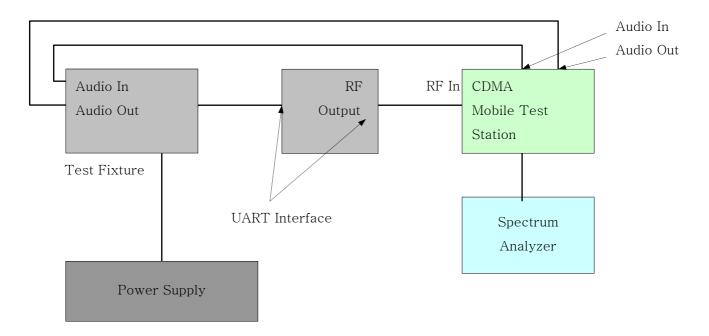


UART Interface: The UART Interface has a serial communication link that can be used to test, debug or upgrade the phone's functions and characteristics.

- 1) Set the frequency deviation  $\pm 7.2$ KHz at the audio tone by adjusting the audio generator. This level will be the 0 dB reference.
- 2) Increase the audio level from 0 dB reference to 30 dB in increments of 5 dB and record the frequency deviation.
- 3) This measurement is then repeated at 300Hz, 1004Hz and 3000Hz audio tone.

# 4.3.3 Levels of modulating signals.

# Test Set-up

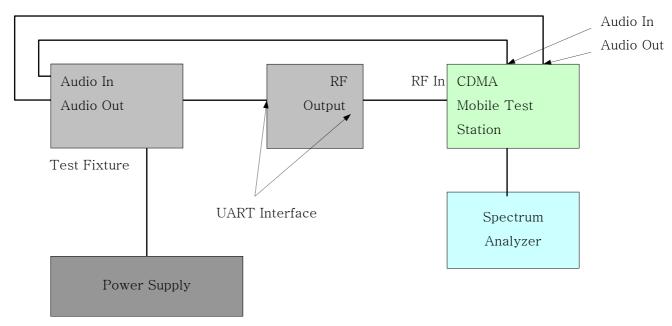


UART Interface: The UART Interface has a serial communication link that can be used to test, debug or upgrade the phone's functions and characteristics.

- 1) Select the supervisory audio tone test mode pursuant to "Tune up procedure" and record the frequency deviation on the modulation anlyzer.
- 2) Select the signalling tone test mode pursuant to "Tune up procedure" and record the frequency deviation on the modulation analyzer.
- 3) Select the TX data test mode pursuant to "Tune up procedure" and record the frequency deviation on the modulation analyzer .

### 4.3.4 Occupied bandwidth.

### Test Set-up

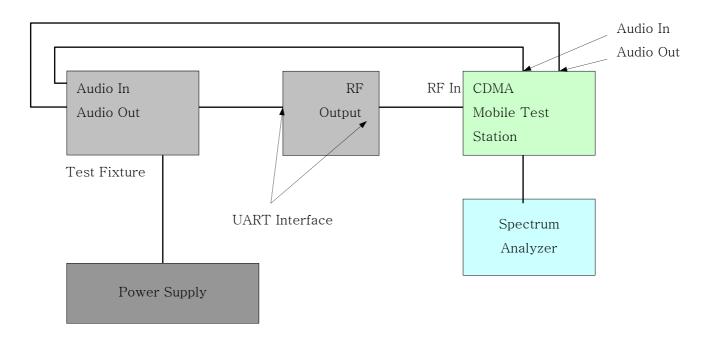


UART Interface: The UART Interface has a serial communication link that can be used to test, debug or upgrade the phone's functions and characteristics.

- 1. F3E radiotelelephony mode.
  - 1) The audio generator is set on the frequency of maximum audio response of the audio modulating circuit and its level adjusted for 50% modulation.
  - 2) Increase the audio level 16 dB greater than that necessary to produre 50 percent modulation and change the audio frequency to 2,500 Hz tone.
  - 3) The occupited bandwidth is drown from the spectrum analyzer display.
- 2. F1D wideband data mode.
  - 1) Select the TX data test mode pursuant to "Tune-up procedure".
  - 2) The occupied bandwidth is drawn from the spectrum analyzer display.
- 3. F3D supervisory audio tone mode.
  - 1) Select the supervisory tone test mode pursuant to "Tune-up procedure".
  - 2) The occupied bandwidth is drawn from the spectrum analyzer display.
- 4. F3D signalling tone mode.
  - 1) Select the signalling audio tone test mode pursuant to "Tune-up procedure".
  - 2) The occupied bandwidth is drawn from the spectrum analyzer display.

### 4.3.5 Spurious and Harmonic Emissions at Antenna Terminal.

### Test Set-up

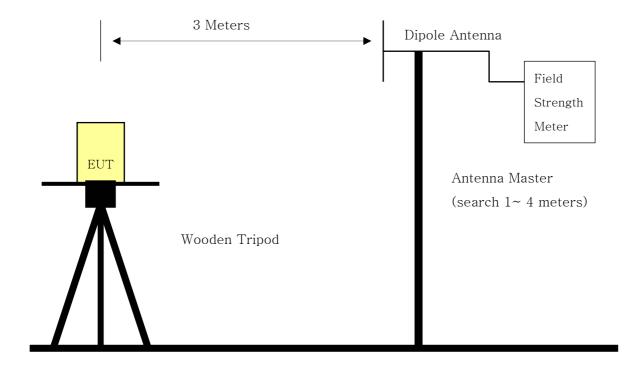


#### **Test Procedure**

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to 10 GHz. The transmitter is modulated with a 2500Hz tone at a level of 16dB greater than that required to provided 50% modulation. At the input terminals of the spectrum an analyzer, an isolator (RF circulator with on port terminated with 50 ohms) and an 870 MHz to 890 MHz bandpass filter is connected between the test transceiver (for conducted tests) or the receive antenna (for radiated tests) and the analyzer. The rejection of the bandpass filter to signals in the 825 — 845 MHz range is adequate to limit the transmit energy from the test transceiver which appears to a level which will allow the analyzer to measure signals less than —90dBm. Calibration of the test receiver is performed in the 870 — 890 MHz range to insure accuracy to allow variation in the bandpass filter insertion loss to be calibrated.

# 4.3.6 Field strength of spurious radiation.

### Test Set-up



Open Field Test Site

#### **Test Procedure**

The measurement facilities used for this test have been documented in previous filings with the commission pursuant to section 2.948.

The open field test site is situated in open field with ground screen whose site attenuation characteristics meet ANSI C63.4 –1992. A mast capable of lifting the receiving antenna from a height of one to four meters is used together with a rotable wooden platform mounted at three from the antenna mast.

- 1) The unit mounted on a wooden table 1.5m imes 1.0m imes 0.80  $\,$  is 0.8 meter above test site ground level.
- During the emission test, the turntable is rotated and the EUT is manipulated to find the configuration resulting in maximum emission under normal condition of installation and operation.
- 3) The antenna height and polarization are also varied from 1 to 4 meters until the maximum signal is found.
- 4) The spectrum shall be scanned up to the 10<sup>th</sup> harmonic of the fundamental frequency.
- 5) The instrument settings used (RBW/ VBW) during ERP/ EIRP output power measurement are as belows:
  - -. Below 1GHz : RBW 3MHz, VBW 3MHz
  - -. Above 1GHz: RBW 3MHz, VBW 3MHz

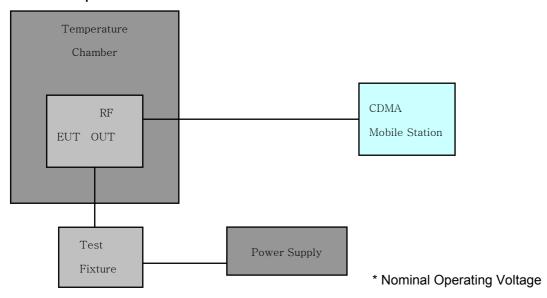
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### 4.3.7 Frequency stability.

# 4.3.7.1 Frequency stability with variation of ambient temperature.

### Test Set-up



#### **Test Procedure**

The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30 °C to +60 °C using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification — The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.0001 (±1 ppm) of the center frequency.

#### **Time Period and Procedure:**

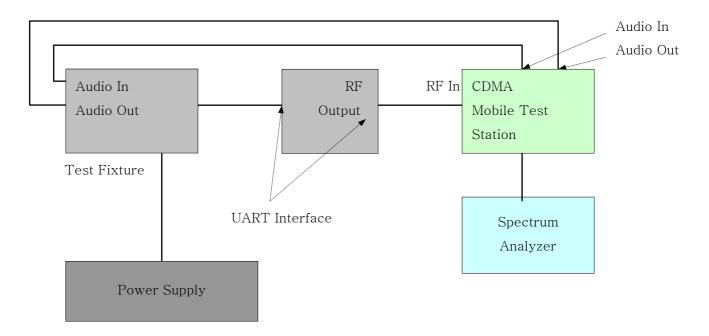
- 1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature (25 °C to 27 °C to provide a reference).
- 2. The equipment is subjected to an overnight "soak" at -30 °C without any power applied.
- 3. After the overnight "soak" at 30 °C (usually 14-16 hours), the equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter and the individual oscillators is made within a three minute interval after applying power to the transmitter.
- 4. Frequency measurements are made at 10 °C interval up to room temperature. At least a period of one and one half-hour is provided to allow stabilization of the equipment at each temperature level.
- 5. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
- 6. Frequency were made at 10 intervals starting at 30 °C up to +50 °C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after applying power to the transmitter.
- 7. The artificial load is mounted external to the temperature chamber.

NOTE: The EUT is tested down to the battery endpoint.

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# 4.3.7.2 Frequency stability with variation of primary supply voltage.

# Test Set-up



- 1) The primary supply is varied in steps of 5% from 85 to 115% of the nominal supply voltage, or reduce primary supply voltage to the battery operating end point.
- 2) The frequency is recorded each 5% step.



### 5.1 Test Data

### 5.2 Effective Radiated Power Output (AMPS)

Freq. Tuned	REF. LEVEL	POL	ERP	ERP	DATTERY
(MHz)	(dBm)	(H/V)	(W)	(dBm)	BATTERY
824.04	-22.1	V	0.324	25.1	Standard
836.49	-21.6	V	0.362	25.6	Standard
848.97	-21.8	V	0.343	25.4	Standard

#### NOTES:

Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW=VBW=3MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW=VBW=1MHz. A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.



# **5.1 Test Data (Continued)**

# 5.3 Effective Radiated Power Output (CDMA)

#### Radiated measurements at 3 meters

Modulation:	CDMA

Freq. Tuned	REF. LEVEL	POL	ERP	ERP	DATTERY
(MHz)	(dBm)	(H/V)	(W)	(dBm)	BATTERY
824.70	-22.7	V	0.279	24.5	Standard
835.89	-22.6	V	0.285	24.6	Standard
848.31	-22.9	V	0.266	24.3	Standard

#### NOTES:

Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW=VBW=3MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW=VBW=1MHz. A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.



# 6.1 Test Data (Continued)

# 6.1 Equivalent Isotropic Radiated Power (E.I.R.P.) PCS CDMA

#### Radiated measurements at 3 meters

Modulation: PCS CDMA

Freq. Tuned	RFF. LEVEL	POL	Azimuth	EIRP	EIRP	DATTERY
(MHz)	(dBm)	(H/V)	(0 angle)	(W)	(dBm)	BATTERY
1851.25	-28.8	V	50	0.299	24.8	Standard
1880.00	-29.0	V	50	0.286	24.6	Standard
1908.75	-28.9	V	50	0.292	24.7	Standard

#### NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW=VBW=3MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW=VBW=1MHz. A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

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# 7.1 Test Data (Continued)

# 7.2 AMPS Radiated Measurements

### Field Strength of SPURIOUS Radiation

■ OPERATING FREQUENCY: 824.04 MHz
 ■ CHANNEL: 0991 (Low)
 ■ MEASURED OUTPUT POWER: 25.6 dBm = 0.362 W
 ■ MODULATION SIGNAL: FM (Internal)
 ■ DISTANCE: 3 meters
 ■ LIMIT: -(43 + 10 log10 (W)) = -38.59 dBc

	LEVEL@	SUBSTITUTE	CORRECT		
Freq.	ANTENNA	ANTENNA	GENERATOR	POL	(dBc)
(MHz)	TERMINALS	GAIN	LEVEL	(H/V)	(0.20)
	(dBm)	(dBd)	(dBm)		
1648.08	-57.9	7.3	-50.6	V	-70.9
2472.12	-63.0	8.3	-54.7	V	-74.5
3296.16	-71.5	9.7	-61.8	V	-80.7

#### NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:



# 7.1 Test Data (Continued)

# 7.3 AMPS Radiated Measurements

### Field Strength of SPURIOUS Radiation

■ OPERATING FREQUENCY: 836.49 MHz
 ■ CHANNEL: 0383 (Mid)
 ■ MEASURED OUTPUT POWER: 25.6 dBm = 0.362 W
 ■ MODULATION SIGNAL: FM (Internal)
 ■ DISTANCE: 3 meters
 ■ LIMIT: -(43 + 10 log10 (W)) = -38.59 dBc

	LEVEL@	SUBSTITUTE	CORRECT		
Freq.	ANTENNA	ANTENNA	GENERATOR	POL	(dBc)
(MHz)	(dBm)	GAIN (dBd)	LEVEL (dBm)	(H/V)	
1672.98	-56.7	7.3	-49.4	V	-69.7
2509.47	-61.6	8.3	-53.3	V	-73.1
3345.96	-72.2	9.7	-62.5	V	-81.4

#### NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

Report No.: HCT-SAR05-1210 FCC ID: 06Y-CDM7025SP DATE: December 22, 2005

# 7.1 Test Data (Continued)

# 7.4 AMPS Radiated Measurements

### Field Strength of SPURIOUS Radiation

■ OPERATING FREQUENCY: 848.97 MHz
 ■ CHANNEL: 0799 (High)
 ■ MEASURED OUTPUT POWER: 25.6 dBm = 0.362 W
 ■ MODULATION SIGNAL: FM (Internal)
 ■ DISTANCE: 3 meters
 ■ LIMIT: -(43 + 10 log10 (W)) = -38.59 dBc

	LEVEL@	SUBSTITUTE	CORRECT		
Freq.	ANTENNA	ANTENNA	GENERATOR	POL	(dBc)
(MHz)	TERMINALS	GAIN	LEVEL	(H/V)	(dBC)
	(dBm)	(dBd)	(dBm)		
1697.94	-58.7	7.3	-51.4	V	-71.7
2546.91	-61.1	8.3	-52.8	V	-72.6
3395.88	-72.8	9.7	-63.1	V	-82.0

#### NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

Report No.: HCT-SAR05-1210 FCC ID: 06Y-CDM7025SP DATE: December 22, 2005

# 7.1 Test Data (Continued)

# 7.5 CELLULAR CDMA Radiated Measurements

### Field Strength of SPURIOUS Radiation

■ OPERATING FREQUENCY: 824.70 MHz
 ■ CHANNEL: 1013 (Low)
 ■ MEASURED OUTPUT POWER: 24.6 dBm = 0.285 W
 ■ MODULATION SIGNAL: CDMA (Internal)
 ■ DISTANCE: 3 meters
 ■ LIMIT: -(43 + 10 log10 (W)) = -37.55 dBc

Eron	LEVEL@ ANTENNA	SUBSTITUTE ANTENNA	CORRECT GENERATOR	<b>PO</b> I	
Freq. (MHz)	TERMINALS	GAIN	LEVEL	<b>POL</b> (H/V)	(dBc)
	(dBm)	(dBd)	(dBm)		
1649.40	-55.8	7.3	-48.5	V	-67.8
2474.10	-64.7	8.3	-56.4	V	-75.2
3298.80	-72.5	9.7	-62.8	V	-80.7

#### NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

DATE: December 22, 2005

7.1 Test Data (Continued)

# 7.6 CELLULAR CDMA Radiated Measurements

### Field Strength of SPURIOUS Radiation

■ OPERATING FREQUENCY: 835.89 MHz
 ■ CHANNEL: 0363 (Mid)
 ■ MEASURED OUTPUT POWER: 24.6 dBm = 0.285 W
 ■ MODULATION SIGNAL: CDMA (Internal)
 ■ DISTANCE: 3 meters
 ■ LIMIT: -(43 + 10 log10 (W)) = -37.55 dBc

	LEVEL@	SUBSTITUTE	CORRECT		
Freq.	ANTENNA	ANTENNA	GENERATOR	POL	(dBc)
(MHz)	TERMINALS	GAIN	LEVEL	(H/V)	, ,
	(dBm)	(dBd)	(dBm)		
1671.78	-57.1	7.3	-49.8	V	-69.1
2507.67	-64.0	8.3	-55.7	V	-74.5
3343.56	-73.9	9.7	-64.2	V	-82.1

#### NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

DATE: December 22, 2005



# 7.1 Test Data (Continued)

# 7.7 CELLULAR CDMA Radiated Measurements

### Field Strength of SPURIOUS Radiation

■ OPERATING FREQUENCY: 848.31 MHz
 ■ CHANNEL: 0777 (High)
 ■ MEASURED OUTPUT POWER: 24.6 dBm = 0.285 W
 ■ MODULATION SIGNAL: CDMA (Internal)
 ■ DISTANCE: 3 meters
 ■ LIMIT: -(43 + 10 log10 (W)) = -37.55 dBc

	LEVEL@	SUBSTITUTE	CORRECT		
Freq.	ANTENNA	ANTENNA	GENERATOR	POL	(dBc)
(MHz)	TERMINALS	GAIN	LEVEL	(H/V)	(dbc)
	(dBm)	(dBd)	(dBm)		
1696.62	-54.8	7.3	-47.5	V	-66.8
2544.93	-61.9	8.3	-53.6	V	-72.4
3393.24	-74.8	9.7	-65.1	V	-83.0

#### NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

Report No.: HCT-SAR05-1210 FCC ID: 06Y-CDM7025SP DATE: December 22, 2005

# 7.1 Test Data (Continued)

# 7.8 CELLULAR PCS CDMA Radiated Measurements

### Field Strength of SPURIOUS Radiation

■ OPERATING FREQUENCY: 1851.25 MHz
 ■ CHANNEL: 0025 (Low)
 ■ MEASURED OUTPUT POWER: 24.8 dBm = 0.299 W
 ■ MODULATION SIGNAL: CDMA (Internal)
 ■ DISTANCE: 3 meters
 ■ LIMIT: -(43 + 10 log10 (W)) = -37.76 dBc

	LEVEL@	SUBSTITUTE	CORRECT		
Freq.	ANTENNA	ANTENNA	GENERATOR	POL	(dBc)
(MHz)	TERMINALS	GAIN	LEVEL	(H/V)	(dbc)
	(dBm)	(dBi)	(dBm)		
3702.50	-63.6	12.4	-51.2	V	-66.6
5553.75	-70.1	11.7	-58.4	V	-75.0
7405.00	-72.7	11.5	-61.2	V	-78.5

#### NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:



# 7.1 Test Data (Continued)

# 7.9 CELLULAR PCS CDMA Radiated Measurements

### Field Strength of SPURIOUS Radiation

■ OPERATING FREQUENCY: 1880.00 MHz
 ■ CHANNEL: 0600 (Middle)
 ■ MEASURED OUTPUT POWER: 24.8 dBm = 0.299 W
 ■ MODULATION SIGNAL: CDMA (Internal)
 ■ DISTANCE: 3 meters
 ■ LIMIT: -(43 + 10 log10 (W)) = -37.76dBc

	LEVEL@	SUBSTITUTE	CORRECT		
Freq.	ANTENNA	ANTENNA	GENERATOR	POL	(dBc)
(MHz)	TERMINALS	GAIN	LEVEL	(H/V)	(dDC)
	(dBm)	(dBi)	(dBm)		
3760.00	-63.1	12.4	-50.7	V	-66.1
5640.00	-69.2	11.7	-57.5	V	-74.1
7520.00	-72.4	11.5	-60.9	V	-78.2

#### NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

Report No.: HCT-SAR05-1210 FCC ID: 06Y-CDM7025SP DATE: December 22, 2005

# 7.1 Test Data (Continued)

# 7.10 CELLULAR PCS CDMA Radiated Measurements

### Field Strength of SPURIOUS Radiation

■ OPERATING FREQUENCY: 1908.75 MHz
 ■ CHANNEL: 1175 (High)
 ■ MEASURED OUTPUT POWER: 24.8 dBm = 0.299 W
 ■ MODULATION SIGNAL: CDMA (Internal)
 ■ DISTANCE: 3 meters
 ■ LIMIT: -(43 + 10 log10 (W)) = -37.76dBc

	LEVEL@	SUBSTITUTE	CORRECT		
Freq.	ANTENNA	ANTENNA	GENERATOR	POL	(dBc)
(MHz)	TERMINALS	GAIN	LEVEL	(H/V)	(dbc)
	(dBm)	(dBi)	(dBm)		
3817.50	-62.0	12.4	-49.6	V	-65.0
5726.25	-68.5	11.7	-56.8	V	-73.4
7635.00	-73.7	11.5	-62.2	V	-79.5

#### NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:



# 8.1 Test Data

# 8.2 FREQUENCY STABILITY (AMPS)

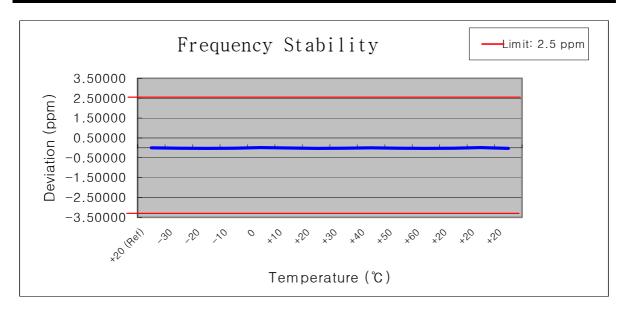
 OPERATING FREQUENCY:
 836,490,029 Hz

 CHANNEL:
 383

 REFERENCE VOLTAGE:
 3.7 VDC

 DEVIATION LIM IT:
 ± 0.00025 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Deviation	Deviation
(%)	(VDC)	(℃)	(Hz)	(%)	(ppm)
100		+20 (Ref)	836,490,029	0.000000	0.00000
100		-30	836,490,043	-0.000002	-0.01674
100		-20	836,490,051	-0.000003	-0.02630
100		-10	836,490,042	-0.000002	-0.01554
100		0	836,490,024	0.000001	0.00598
100	3.7	+10	836,490,039	-0.000001	-0.01195
100		+20	836,490,054	-0.000003	-0.02989
100		+30	836,490,049	-0.000002	-0.02391
100		+40	836,490,031	0.000000	-0.00239
100		+50	836,490,047	-0.000002	-0.02152
100		+60	836,490,052	-0.000003	-0.02750
85	3.15	+20	836,490,043	-0.000002	-0.01674
115	4.26	+20	836,490,019	0.000001	0.01195
BATT.END POINT	2.82	+20	836,490,058	-0.000003	-0.03467





# **8.1 Test Data(Continued)**

# 8.3 FREQUENCY STABILITY (PCS CDMA)

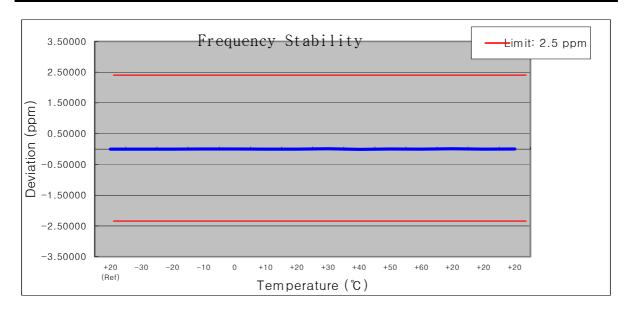
 OPERATING FREQUENCY:
 1,880,000,037 Hz

 CHANNEL:
 0600

 REFERENCE VOLTAGE:
 3.7 VDC

 DEVIATION LIM IT:
 ± 0.00025 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Deviation	Deviation
(%)	(VDC)	(℃)	(Hz)	(%)	(ppm)
100		+20 (Ref)	1,880,000,037	0.000000	0.00000
100		-30	1,880,000,046	0.000000	-0.00479
100		-20	1,880,000,041	0.000000	-0.00213
100		-10	1,880,000,028	0.000000	0.00479
100		0	1,880,000,032	0.000000	0.00266
100	3.7	+10	1,880,000,037	0.000000	0.00000
100		+20	1,880,000,042	0.000000	-0.00266
100		+30	1,880,000,019	0.000001	0.00957
100		+40	1,880,000,052	-0.000001	-0.00798
100		+50	1,880,000,028	0.000000	0.00479
100		+60	1,880,000,039	0.000000	-0.00106
85	3.15	+20	1,880,000,018	0.000001	0.01011
115	4.26	+20	1,880,000,047	-0.000001	-0.00532
BATT.END POINT	2.83	+20	1,880,000,025	0.000001	0.00638





# 9.1 PLOT(S) OF EMISSION

# (SEE ATTACHMENT D)

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# **10.1 LIST OF TEST EQUIPMENT**

Spectrum Analyzer (20Hz~40GHz) R&S ESI40         Dec. 05         1088.7410           Spectrum Analyzer (10Hz~2c.5GHz) R3273         April 05         J04821           Signal Generator HP8373ED (10MHz ~ 20GHz)         July 05         US8710152           Signal Generator MARCONI(10kHz ~ 2.7GHz)         Sep. 06         119331           Power Meter(A) HP 438A         July 05         2822A05909           Power Sensor(A) HP8481B         July 05         3318A08777           Power Sensor(B) HP8481A         Oct. 05         2437A00963           Power Sensor(B) HP8481A         Oct. 05         2349A37617           Power Amp A0825-4343-R(800~2.5GHz) +43dB         Sep. 05         A00450           Network Analyzer HP-8753D (30kHz ~ 3GHz)         Sep. 05         3401J02111           Modulation Analyzer HP8901A         June 05         3438A05231           Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         558           AMF-4D-001180-26-10P(18-26.5GHz)         Feb. 05         67624           AMF-4D-001180-26-10P(18-26.5GHz)         Feb. 05         671314           Audio Analyzer HP 8903A         Feb.	Type / Model	Calib. Date	S/N
Signal Generator HP8373ED (10MHz ~ 20GHz)         July 05         US8710152           Signal Generator MARCONI(10kHz ~ 2.7GHz)         Sep. 05         119331           Power Meter(A)         HP 438A         July 05         2822A05909           Power Sensor(A) HP8481B         July 05         3318A08777           Power Meter(B)         HP 438A         Nov. 05         2427A00963           Power Amp A0825-4343-R(800~2.5GHz) +43dB         Sep. 05         A00450           Network Analyzer HP-8753D (30kHz ~ 3GHz)         Sep. 05         3401J02111           Modulation Analyzer HP8901A         June 05         3438A05231           Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         667624           AMF-4D-001180-26-10P(0.1~18GHz)         Feb. 05         671009           AMF-4D-001180-26-10P(18~26-5GHz)         Feb. 05         671314           Audio Analyzer HP 8903A         Feb. 05         671314           Function Generator HP 8116A         Feb. 05         3001A08285           Horn Antenna BBHA 9120D(1~18GHz)         June 05         1099           Horn Antenna BBHA 9170(15~40GHz)         Feb. 05         BBHA9170124           CDMA Mobile St	Spectrum Analyzer (20Hz~40GHz) R&S ESI40	Dec. 05	1088.7410
Signal Generator MARCONI(10kHz ~ 2.7GHz)         Sep. 05         119331           Power Meter(A) HP 438A         July 05         2822A05909           Power Sensor(A) HP8481B         July 05         3318A08777           Power Meter(B) HP 438A         Nov. 05         2427A00963           Power Sensor(B) HP8481A         Oct. 05         2349A37617           Power Amp A0825-4343-R(800~2.5GHz) +43dB         Sep. 05         A00450           Network Analyzer HP-8753D (30kHz ~ 3GHz)         Sep. 05         3401J02111           Modulation Analyzer HP8901A         June 05         3438A05231           Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         558           AMF-4D-001180-26-10P(18~26.5GHz)         Feb. 05         671009           AMF-4D-001180-26-10P(26~40GHz)         Feb. 05         6724           AMF-4D-001180-26-10P(26~40GHz)         Feb. 05         671314           Audio Analyzer HP 8903A         Feb. 05         671314           Formation Generator HP 8116A         Feb. 05         301A08285           Horn Antenna BBHA 9120D(1~18GHz)         June 05         1099           Horn Antenna BBHA 9170(15~40GHz)         Feb. 05         BBHA9170124           CDMA Mobile Station Test Set HP8924C         Jun	Spectrum Analyzer(100Hz~26.5GHz) R3273	April 05	J04821
Power Meter(A)         HP 438A         July 05         2822A05909           Power Sensor(A)         HP8481B         July 05         3318A08777           Power Meter(B)         HP 438A         Nov. 05         2427A00963           Power Sensor(B)         HP8481A         Oct. 05         2349A37617           Power Amp A0825-4343-R(800~2.5GHz)         +43dB         Sep. 05         A00450           Network Analyzer HP-8753D (30kHz ~ 3GHz)         Sep. 05         3401J02111           Modulation Analyzer HP8901A         June 05         3438A05231           Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         558           AMF-4D-001180-26-10P(1-*18GHz)         Feb. 05         671009           AMF-4D-001180-26-10P(26~40GHz)         Feb. 05         67624           AMF-4D-001180-26-10P(26~40GHz)         Feb. 05         671314           Auf AD-001180-26-10P(26~40GHz)         Feb. 05         671314           Auf AD-001180-26-10P(26~40GHz)         Feb. 05         3001A08285           Function Generator HP 8116A         Feb. 05         3001A08285           Horn Antenna BBHA 9120D(1~18GHz)         June 05         1201           Horm Antenna BBHA 9170(15~40GHz)         Feb. 05         BBHA9170124	Signal Generator HP8373ED (10MHz ~ 20GHz)	July 05	US8710152
Power Sensor(A) HP8481B         July 05         3318A08777           Power Meter(B) HP 438A         Nov. 05         2427A00963           Power Sensor(B) HP8481A         Oct. 05         2349A37617           Power Amp A0825-4343-R(800~2.5GHz) +43dB         Sep. 05         A00450           Network Analyzer HP-8753D (30kHz ~ 3GHz)         Sep. 05         3401J02111           Modulation Analyzer HP8901A         June 05         3438A05231           Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         558           AMF-4D-001180-26-10P(0.1~18GHz)         Feb.05         671009           AMF-4D-001180-26-10P(18~26.5GHz)         Feb.05         67624           AMF-4D-001180-26-10P(26~40GHz)         Feb.05         671314           Audio Analyzer HP 8903A         Feb.05         671314           Audio Analyzer HP 8903A         Feb.05         3001A08285           Horn Antenna BBHA 9120D(1~18GHz)         June 05         1099           Horn Antenna BBHA 9120D(1~18GHz)         March 05         1201           Horn Antenna BBHA 9120D(1~8GHz)         Feb.05         BBHA9170124           CDMA Mobile Station Test Set HP8924C         June 05         US39063847           PCS Interface HP83236B 1.7 ~ 2.0GHz         June 05<	Signal Generator MARCONI(10kHz ~ 2.7GHz)	Sep. 05	119331
Power Meter(B)         HP 438A         Nov. 05         2427A00963           Power Sensor(B)         HP8481A         Oct. 05         2349A37617           Power Amp A0825-4343-R(800~2.5GHz) +43dB         Sep. 05         A00450           Network Analyzer HP-8753D (30kHz ~ 3GHz)         Sep. 05         3401J02111           Modulation Analyzer HP8901A         June 05         3438A05231           Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         558           AMF-4D-001180-26-10P(0.1~18GHz)         Feb. 05         671009           AMF-4D-001180-26-10P(0.1~18GHz)         Feb. 05         67624           AMF-4D-001180-26-10P(26~40GHz)         Feb. 05         677314           Audio Analyzer HP 8903A         Feb. 05         671314           Audio Analyzer HP 8116A         Feb. 05         67314           Horn Antenna BBHA 9120D(1~18GHz)         June 05         1099           Horn Antenna BBHA 9120D(1~18GHz)         March 05         1201           Horn Antenna BBHA 9170(15~40GHz)         Feb. 05         BBHA9170124           CDMA Mobile Station Test Set HP8924C         June 05         US39063847           PCS Interface HP83236B 1.7 ~ 2.0GHz         June 05         358.8017           EMI Test Receive	Power Meter(A) HP 438A	July 05	2822A05909
Power Sensor(B) HP8481A         Oct. 05         2349A37617           Power Amp A0825-4343-R(800~2.5GHz) +43dB         Sep. 05         A00450           Network Analyzer HP-8753D (30kHz ~ 3GHz)         Sep. 05         3401J02111           Modulation Analyzer HP8901A         June 05         3438A05231           Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         671009           AMF-4D-001180-26-10P(0.1~18GHz)         Feb.05         671009           AMF-4D-001180-26-10P(18~26.5GHz)         Feb.05         67624           AMF-4D-001180-26-10P(26~40GHz)         Feb.05         671314           Audio Analyzer HP 8903A         Feb.05         671314           Function Generator HP 8116A         Feb.05         3001A08285           Horn Antenna BBHA 9120D(1~18GHz)         June 05         1099           Horn Antenna BBHA 9120D(1~18GHz)         March 05         1201           Horn Antenna BBHA 9170(15~40GHz)         Feb.05         BBHA9170124           CDMA Mobile Station Test Set HP8924C         June 05         US39063847           PCS Interface HP83236B 1.7 ~ 2.0GHz         June 05         3711J04841           EMI Test Receiver Rohde & Schwarz ESVP         Feb. 05         354,3000           EMI Test Receiver Rohde & S	Power Sensor(A) HP8481B	July 05	3318A08777
Power Amp A0825-4343-R(800-2.5GHz) +43dB         Sep. 05         A00450           Network Analyzer HP-8753D (30kHz ~ 3GHz)         Sep. 05         3401J02111           Modulation Analyzer HP8901A         June 05         3438A05231           Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         558           AMF-4D-001180-26-10P(0.1~18GHz)         Feb.05         671009           AMF-4D-001180-26-10P(18~26.5GHz)         Feb.05         667624           AMF-4D-001180-26-10P(26~40GHz)         Feb.05         671314           Audio Analyzer HP 8903A         Feb.05         671314           Audio Analyzer HP 8116A         Feb.05         3001A08285           Horn Antenna BBHA 9120D(1~18GHz)         June 05         1099           Horn Antenna BBHA 9170(15~40GHz)         Feb.05         BBHA9170124           CDMA Mobile Station Test Set HP8924C         June 05         US39063847           PCS Interface HP83236B 1.7 ~ 2.0GHz         June 05         331J04841           EMI Test Receiver Rohde & Schwarz ESV3         June 05         354.3000           EMI Test Receiver Rohde & Schwarz ESV3         June 05         354.3000           EMI Test Receiver Rohde & Schwarz ESV3         July 05         3509A00155           LISN EMCO	Power Meter(B) HP 438A	Nov. 05	2427A00963
Network Analyzer HP-8753D (30kHz ~ 3GHz)         Sep. 05         3401J02111           Modulation Analyzer HP8901A         June 05         3438A05231           Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         558           AMF-4D-001180-26-10P(0.1~18GHz)         Feb.05         671009           AMF-4D-001180-26-10P(18~26.5GHz)         Feb.05         667624           AMF-4D-001180-26-10P(26~40GHz)         Feb.05         671314           Audio Analyzer HP 8903A         Feb.05         2433A04322           Function Generator HP 8116A         Feb.05         3001A08285           Horn Antenna BBHA 9120D(1~18GHz)         June 05         1099           Horn Antenna BBHA 9170(15~40GHz)         Feb.05         BBHA9170124           CDMA Mobile Station Test Set HP8924C         June 05         US39063847           PCS Interface HP83236B 1.7 ~ 2.0GHz         June 05         3711J04841           EMI Test Receiver Rohde & Schwarz ESH3         June 05         355.8017           EMI Test Receiver Rohde & Schwarz ESVS30         June 05         354.3000           Spectrum Analyzer HP 8591EM         July 05         3509A00155           LISN EMCO 3825/2         July 05         9706-1070           LISN Rohde & Schwarz ESH2-Z5 <td>Power Sensor(B) HP8481A</td> <td>Oct. 05</td> <td>2349A37617</td>	Power Sensor(B) HP8481A	Oct. 05	2349A37617
Modulation Analyzer HP8901A         June 05         3438A05231           Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         558           AMF-4D-001180-26-10P(0.1~18GHz)         Feb.05         671009           AMF-4D-001180-26-10P(18~26.5GHz)         Feb.05         667624           AMF-4D-001180-26-10P(26~40GHz)         Feb.05         671314           Audio Analyzer HP 8903A         Feb.05         2433A04322           Function Generator HP 8116A         Feb.05         3001A08285           Horn Antenna BBHA 9120D(1~18GHz)         June 05         1099           Horn Antenna BBHA 9120D(1~18GHz)         March 05         1201           Horn Antenna BBHA 9170(15~40GHz)         Feb.05         BBHA9170124           CDMA Mobile Station Test Set HP8924C         June 05         US39063847           PCS Interface HP83236B 1.7 ~ 2.0GHz         June 05         3711J04841           EMI Test Receiver Rohde & Schwarz ESH3         June 05         354.3000           EMI Test Receiver Rohde & Schwarz ESVP         Feb. 05         36006/013           Spectrum Analyzer HP 8591EM         July 05         3509A00155           LISN Rohde & Schwarz ESH2-25         July 05         9706-1070           LISN Rohde & Schwarz ESH2-25	Power Amp A0825-4343-R(800~2.5GHz) +43dB	Sep. 05	A00450
Dipole Antenna UHAP         June 05         557           Dipole Antenna UHAP         June 05         558           AMF-4D-001180-26-10P(0.1~18GHz)         Feb.05         671009           AMF-4D-001180-26-10P(18~26.5GHz)         Feb.05         667624           AMF-4D-001180-26-10P(26~40GHz)         Feb.05         671314           Audio Analyzer HP 8903A         Feb.05         2433A04322           Function Generator HP 8116A         Feb.05         3001A08285           Horn Antenna BBHA 9120D(1~18GHz)         June 05         1099           Horn Antenna BBHA 9170(15~40GHz)         Feb.05         BBHA9170124           CDMA Mobile Station Test Set HP8924C         June 05         US39063847           PCS Interface HP83236B 1.7 ~ 2.0GHz         June 05         3711J04841           EMI Test Receiver Rohde & Schwarz ESH3         June 05         354.3000           EMI Test Receiver Rohde & Schwarz ESVP         Feb. 05         354.3000           EMI Test Receiver Rohde & Schwarz ESVS30         June 05         36006/013           Spectrum Analyzer HP 8591EM         July 05         3509A00155           LISN ROHde & Schwarz ESH2-Z5         July 05         9706-1070           LISN Rohde & Schwarz ESH2-Z5         July 05         9706-1071           Amplifier Hewlett-Pack	Network Analyzer HP-8753D (30kHz ~ 3GHz)	Sep. 05	3401J02111
Dipole Antenna UHAP         June 05         558           AMF-4D-001180-26-10P(0.1~18GHz)         Feb.05         671009           AMF-4D-001180-26-10P(18~26.5GHz)         Feb.05         667624           AMF-4D-001180-26-10P(26~40GHz)         Feb.05         671314           Audio Analyzer HP 8903A         Feb.05         2433A04322           Function Generator HP 8116A         Feb.05         3001A08285           Horn Antenna BBHA 9120D(1~18GHz)         June 05         1099           Horn Antenna BBHA 9170(15~40GHz)         Feb.05         BBHA9170124           CDMA Mobile Station Test Set HP8924C         June 05         US39063847           PCS Interface HP83236B 1.7~2.0GHz         June 05         3711J04841           EMI Test Receiver Rohde & Schwarz ESH3         June 05         335.8017           EMI Test Receiver Rohde & Schwarz ESVP         Feb. 05         354.3000           EMI Test Receiver Rohde & Schwarz ESVS30         June 05         3509A00155           EIJSN EMCO 3825/2         July 05         3509A00155           LISN Rohde & Schwarz ESH2-Z5         July 05         9706-1070           Amplifier Hewlett-Packard 8447E         March 05         2805A03141           Biconical Antenna BBA-9106(30~1000MHz)         June 05         91071107           Ante	Modulation Analyzer HP8901A	June 05	3438A05231
AMF-4D-001180-26-10P(0.1~18GHz)       Feb.05       6671009         AMF-4D-001180-26-10P(18-26.5GHz)       Feb.05       667624         AMF-4D-001180-26-10P(26~40GHz)       Feb.05       671314         Audio Analyzer HP 8903A       Feb.05       2433A04322         Function Generator HP 8116A       Feb.05       3001A08285         Horn Antenna BBHA 9120D(1~18GHz)       June 05       1099         Horn Antenna BBHA 9120D(1~18GHz)       March 05       1201         Horn Antenna BBHA 9170(15~40GHz)       Feb.05       BBHA9170124         CDMA Mobile Station Test Set HP8924C       June 05       US39063847         PCS Interface HP83236B 1.7 ~ 2.0GHz       June 05       3711J04841         EMI Test Receiver Rohde & Schwarz ESH3       June 05       335.8017         EMI Test Receiver Rohde & Schwarz ESVP       Feb. 05       354.3000         EMI Test Receiver Rohde & Schwarz ESVS30       June 05       326006/013         Spectrum Analyzer HP 8591EM       July 05       3509A00155         LISN EMCO 3825/2       July 05       9706-1070         LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biocnical Antenna BBA-9106(30~1000MHz)       June 05       91071107	Dipole Antenna UHAP	June 05	557
AMF-4D-001180-26-10P(18-26.5GHz)       Feb.05       667624         AMF-4D-001180-26-10P(26~40GHz)       Feb.05       671314         Audio Analyzer HP 8903A       Feb.05       2433A04322         Function Generator HP 8116A       Feb.05       3001A08285         Horn Antenna BBHA 9120D(1~18GHz)       June 05       1099         Horn Antenna BBHA 9120D(1~18GHz)       March 05       1201         Horn Antenna BBHA 9170(15~40GHz)       Feb.05       BBHA9170124         CDMA Mobile Station Test Set HP8924C       June 05       US39063847         PCS Interface HP83236B 1.7 ~ 2.0GHz       June 05       3711J04841         EMI Test Receiver Rohde & Schwarz ESH3       June 05       335.8017         EMI Test Receiver Rohde & Schwarz ESVP       Feb. 05       354.3000         EMI Test Receiver Rohde & Schwarz ESVS30       June 05       826006/013         Spectrum Analyzer HP 8591EM       July 05       3509A00155         LISN EMCO 3825/2       July 05       9706-1070         LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107 <td>Dipole Antenna UHAP</td> <td>June 05</td> <td>558</td>	Dipole Antenna UHAP	June 05	558
AMF-4D-001180-26-10P(26~40GHz)       Feb.05       671314         Audio Analyzer HP 8903A       Feb.05       2433A04322         Function Generator HP 8116A       Feb.05       3001A08285         Horn Antenna BBHA 9120D(1~18GHz)       June 05       1099         Horn Antenna BBHA 9120D(1~18GHz)       March 05       1201         Horn Antenna BBHA 9170(15~40GHz)       Feb.05       BBHA9170124         CDMA Mobile Station Test Set HP8924C       June 05       US39063847         PCS Interface HP83236B 1.7 ~ 2.0GHz       June 05       3711J04841         EMI Test Receiver Rohde & Schwarz ESH3       June 05       335.8017         EMI Test Receiver Rohde & Schwarz ESVP       Feb. 05       354.3000         EMI Test Receiver Rohde & Schwarz ESVS30       June 05       3509A00155         LISN EMCO 3825/2       July 05       3509A00155         LISN EMCO 3825/2       July 05       9706-1070         LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241 <tr< td=""><td>AMF-4D-001180-26-10P(0.1~18GHz)</td><td>Feb.05</td><td>671009</td></tr<>	AMF-4D-001180-26-10P(0.1~18GHz)	Feb.05	671009
Audio Analyzer HP 8903A       Feb.05       2433A04322         Function Generator HP 8116A       Feb.05       3001A08285         Horn Antenna BBHA 9120D(1~18GHz)       June 05       1099         Horn Antenna BBHA 9120D(1~18GHz)       March 05       1201         Horn Antenna BBHA 9170(15~40GHz)       Feb.05       BBHA9170124         CDMA Mobile Station Test Set HP8924C       June 05       US39063847         PCS Interface HP83236B 1.7 ~ 2.0GHz       June 05       3711J04841         EMI Test Receiver Rohde & Schwarz ESH3       June 05       335.8017         EMI Test Receiver Rohde & Schwarz ESVP       Feb. 05       354.3000         EMI Test Receiver Rohde & Schwarz ESVS30       June 05       326006/013         Spectrum Analyzer HP 8591EM       July 05       3509A00155         LISN EMCO 3825/2       July 05       9706-1070         LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A <tr< td=""><td>AMF-4D-001180-26-10P(18~26.5GHz)</td><td>Feb.05</td><td>667624</td></tr<>	AMF-4D-001180-26-10P(18~26.5GHz)	Feb.05	667624
Function Generator HP 8116A         Feb.05         3001A08285           Horn Antenna BBHA 9120D(1~18GHz)         June 05         1099           Horn Antenna BBHA 9120D(1~18GHz)         March 05         1201           Horn Antenna BBHA 9170(15~40GHz)         Feb.05         BBHA9170124           CDMA Mobile Station Test Set HP8924C         June 05         US39063847           PCS Interface HP83236B 1.7 ~ 2.0GHz         June 05         3711J04841           EMI Test Receiver Rohde & Schwarz ESH3         June 05         335.8017           EMI Test Receiver Rohde & Schwarz ESVP         Feb. 05         354.3000           EMI Test Receiver Rohde & Schwarz ESVS30         June 05         826006/013           Spectrum Analyzer HP 8591EM         July 05         3509A00155           LISN EMCO 3825/2         July 05         9706-1070           LISN Rohde & Schwarz ESH2-Z5         July 05         9706-1071           Amplifier Hewlett-Packard 8447E         March 05         2805A03141           Biconical Antenna BBA-9106(30~1000MHz)         June 05         91071107           Antenna VULB9160 (25MHz~1800MHz)         June 05         91071107           Antenna Position Tower HD240         N.A         3241           Turn Table EMCO 1060-06         N.A         1253A	AMF-4D-001180-26-10P(26~40GHz)	Feb.05	671314
Horn Antenna BBHA 9120D(1~18GHz)       June 05       1099         Horn Antenna BBHA 9120D(1~18GHz)       March 05       1201         Horn Antenna BBHA 9170(15~40GHz)       Feb.05       BBHA9170124         CDMA Mobile Station Test Set HP8924C       June 05       US39063847         PCS Interface HP83236B 1.7 ~ 2.0GHz       June 05       3711J04841         EMI Test Receiver Rohde & Schwarz ESH3       June 05       335.8017         EMI Test Receiver Rohde & Schwarz ESVP       Feb. 05       354.3000         EMI Test Receiver Rohde & Schwarz ESVS30       June 05       826006/013         Spectrum Analyzer HP 8591EM       July 05       3509A00155         LISN EMCO 3825/2       July 05       9706-1070         LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A         AC Power Source PACIFIC Magnetic Module       N.A       45321	Audio Analyzer HP 8903A	Feb.05	2433A04322
Horn Antenna BBHA 9120D(1~18GHz)       March 05       1201         Horn Antenna BBHA 9170(15~40GHz)       Feb.05       BBHA9170124         CDMA Mobile Station Test Set HP8924C       June 05       US39063847         PCS Interface HP83236B 1.7 ~ 2.0GHz       June 05       3711J04841         EMI Test Receiver Rohde & Schwarz ESVB       June 05       335.8017         EMI Test Receiver Rohde & Schwarz ESVP       Feb. 05       354.3000         EMI Test Receiver Rohde & Schwarz ESVS30       June 05       826006/013         Spectrum Analyzer HP 8591EM       July 05       3509A00155         LISN EMCO 3825/2       July 05       9706-1070         LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A         AC Power Source PACIFIC Magnetic Module       N.A       45321	Function Generator HP 8116A	Feb.05	3001A08285
Horn Antenna BBHA 9170(15~40GHz)         Feb.05         BBHA9170124           CDMA Mobile Station Test Set HP8924C         June 05         US39063847           PCS Interface HP83236B 1.7 ~ 2.0GHz         June 05         3711J04841           EMI Test Receiver Rohde & Schwarz ESH3         June 05         335.8017           EMI Test Receiver Rohde & Schwarz ESVP         Feb. 05         354.3000           EMI Test Receiver Rohde & Schwarz ESVS30         June 05         826006/013           Spectrum Analyzer HP 8591EM         July 05         3509A00155           LISN EMCO 3825/2         July 05         9706-1070           LISN Rohde & Schwarz ESH2-Z5         July 05         9706-1071           Amplifier Hewlett-Packard 8447E         March 05         2805A03141           Biconical Antenna BBA-9106(30~1000MHz)         June 05         91071107           Antenna VULB9160 (25MHz~1800MHz)         June 05         91071107           Antenna Position Tower HD240         N.A         3241           Turn Table EMCO 1060-06         N.A         1253A           AC Power Source PACIFIC Magnetic Module         N.A         45321	Horn Antenna BBHA 9120D(1~18GHz)	June 05	1099
CDMA Mobile Station Test Set HP8924C       June 05       US39063847         PCS Interface HP83236B 1.7 ~ 2.0GHz       June 05       3711J04841         EMI Test Receiver Rohde & Schwarz ESH3       June 05       335.8017         EMI Test Receiver Rohde & Schwarz ESVP       Feb. 05       354.3000         EMI Test Receiver Rohde & Schwarz ESVS30       June 05       826006/013         Spectrum Analyzer HP 8591EM       July 05       3509A00155         LISN EMCO 3825/2       July 05       9706-1070         LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       D6901         Log-Periodic Antenna UHALP-9107(300~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A         AC Power Source PACIFIC Magnetic Module       N.A       45321	Horn Antenna BBHA 9120D(1~18GHz)	March 05	1201
PCS Interface HP83236B 1.7 ~ 2.0GHz       June 05       3711J04841         EMI Test Receiver Rohde & Schwarz ESVP       Feb. 05       354.3000         EMI Test Receiver Rohde & Schwarz ESVP       Feb. 05       354.3000         EMI Test Receiver Rohde & Schwarz ESVS30       June 05       826006/013         Spectrum Analyzer HP 8591EM       July 05       3509A00155         LISN EMCO 3825/2       July 05       9706-1070         LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       D6901         Log-Periodic Antenna UHALP-9107(300~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A         AC Power Source PACIFIC Magnetic Module       N.A       45321	Horn Antenna BBHA 9170(15~40GHz)	Feb.05	BBHA9170124
EMI Test Receiver Rohde & Schwarz ESVP       Feb. 05       335.8017         EMI Test Receiver Rohde & Schwarz ESVP       Feb. 05       354.3000         EMI Test Receiver Rohde & Schwarz ESVS30       June 05       826006/013         Spectrum Analyzer HP 8591EM       July 05       3509A00155         LISN EMCO 3825/2       July 05       9706-1070         LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       D6901         Log-Periodic Antenna UHALP-9107(300~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A         AC Power Source PACIFIC Magnetic Module       N.A       45321	CDMA Mobile Station Test Set HP8924C	June 05	US39063847
EMI Test Receiver Rohde & Schwarz ESVP       Feb. 05       354.3000         EMI Test Receiver Rohde & Schwarz ESVS30       June 05       826006/013         Spectrum Analyzer HP 8591EM       July 05       3509A00155         LISN EMCO 3825/2       July 05       9706-1070         LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       D6901         Log-Periodic Antenna UHALP-9107(300~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A         AC Power Source PACIFIC Magnetic Module       N.A       45321	PCS Interface HP83236B 1.7 ~ 2.0GHz	June 05	3711J04841
EMI Test Receiver Rohde & Schwarz ESVS30       June 05       826006/013         Spectrum Analyzer HP 8591EM       July 05       3509A00155         LISN EMCO 3825/2       July 05       9706-1070         LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       D6901         Log-Periodic Antenna UHALP-9107(300~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A         AC Power Source PACIFIC Magnetic Module       N.A       45321	EMI Test Receiver Rohde & Schwarz ESH3	June 05	335.8017
Spectrum Analyzer HP 8591EM       July 05       3509A00155         LISN EMCO 3825/2       July 05       9706-1070         LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       D6901         Log-Periodic Antenna UHALP-9107(300~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A         AC Power Source PACIFIC Magnetic Module       N.A       45321	EMI Test Receiver Rohde & Schwarz ESVP	Feb. 05	354.3000
LISN EMCO 3825/2       July 05       9706-1070         LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       D6901         Log-Periodic Antenna UHALP-9107(300~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A         AC Power Source PACIFIC Magnetic Module       N.A       45321	EMI Test Receiver Rohde & Schwarz ESVS30	June 05	826006/013
LISN Rohde & Schwarz ESH2-Z5       July 05       9706-1071         Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       D6901         Log-Periodic Antenna UHALP-9107(300~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A         AC Power Source PACIFIC Magnetic Module       N.A       45321	Spectrum Analyzer HP 8591EM	July 05	3509A00155
Amplifier Hewlett-Packard 8447E       March 05       2805A03141         Biconical Antenna BBA-9106(30~1000MHz)       June 05       D6901         Log-Periodic Antenna UHALP-9107(300~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A         AC Power Source PACIFIC Magnetic Module       N.A       45321	LISN EMCO 3825/2	July 05	9706-1070
Biconical Antenna BBA-9106(30~1000MHz)       June 05       D6901         Log-Periodic Antenna UHALP-9107(300~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A         AC Power Source PACIFIC Magnetic Module       N.A       45321	LISN Rohde & Schwarz ESH2-Z5	July 05	9706-1071
Log-Periodic Antenna UHALP-9107(300~1000MHz)       June 05       91071107         Antenna VULB9160 (25MHz~1800MHz)       June 05       91071107         Antenna Position Tower HD240       N.A       3241         Turn Table EMCO 1060-06       N.A       1253A         AC Power Source PACIFIC Magnetic Module       N.A       45321	Amplifier Hewlett-Packard 8447E	March 05	2805A03141
Antenna VULB9160 (25MHz~1800MHz)  Antenna Position Tower HD240  N.A  Turn Table EMCO 1060-06  N.A  AC Power Source PACIFIC Magnetic Module  N.A  91071107  N.A  1253A  45321	Biconical Antenna BBA-9106(30~1000MHz)	June 05	D6901
Antenna Position Tower HD240 N.A 3241 Turn Table EMCO 1060-06 N.A 1253A AC Power Source PACIFIC Magnetic Module N.A 45321	Log-Periodic Antenna UHALP-9107(300~1000MHz)	June 05	91071107
Turn Table EMCO 1060-06N.A1253AAC Power Source PACIFIC Magnetic ModuleN.A45321	Antenna VULB9160 (25MHz~1800MHz)	June 05	91071107
AC Power Source PACIFIC Magnetic Module N.A 45321	Antenna Position Tower HD240	N.A	3241
-	Turn Table EMCO 1060-06	N.A	1253A
AC Power Source PACIFIC 360AMX N.A 22B87	AC Power Source PACIFIC Magnetic Module	N.A	45321
	AC Power Source PACIFIC 360AMX	N.A	22B87

Report No.: HCT-SAR05-1210 FCC ID: 06Y-CDM7025SP DATE: December 22, 2005

# 11.1 SAMPLE CALCULATIONS

### A. ERP Sample Calculation

Freq. Tuned	LEVEL(1)	POL	ERP	ERP(2)	BATTERY
(MHz)	(dBm)	(H/V)	( W )	(dBm)	BAITERT
824.70	-29.73	Н	0.346	25.393	Standard

- 1) The EUT mounted on a wooden tripod is 0.8 meter above test site ground level.
- 2) During the test, the turn table is rotated and the antenna height is also varied from 1 to 4 meters until the maximum signal is found.
- 3) Record the field strength meter's level.(LEVEL)
- 4) Replace the EUT with dipole antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item(3).
- 6) The signal generator output level with cable loss is the rating of effective radiated power(ERP). (Cable loss means the factor between Signal Generator and Transmitting Antenna.)

For more details, please refer to the test set-up procedure.

# **B. Emission Designator**

#### **Emission Designator = 1M28F9W**

CDMA BW = 1.28 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

(Measured at the 99.75% power bandwidth)

#### Emission Designator = 40K0F1D

**Necessary Bandwidth:** 

Necessary Bandwidth (Bn), kHz = 40.0

(Measured at the 99.75% power bandwidth)

#### **Emission Designator = 40K0F8W**

**Necessary Bandwidth:** 

Necessary Bandwidth (Bn), kHz = 40.0

( Measured at the 99.75% power bandwidth)

DATE: December 22, 2005

# **12.1 CONCLUSION**

The data collected shows that the Tri-Mode Dual-Band Phone (AMPS/CDMA/ PCS CDMA)

FCC ID: O6Y-CDM7025SP complies with all the requirements of Parts 2 and 22, 24 of the FCC rules.