

# **FCC RF Test Report**

APPLICANT : TELEEPOCH Limited EQUIPMENT : CDMA Mobile Phone

BRAND NAME : OPEN MOBILE\PUBLIC MOBILE

MODEL NAME : M570

FCC ID : U46-M570A

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

Tx/Rx FREQUENCY RANGE : CDMA2000 BC0 : 824.70 ~ 848.31 MHz /

869.70 ~ 893.31 MHz

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CDMA2000 BC1: 1851.25 ~ 1908.75 MHz/

1931.25 ~ 1988.75 MHz

CDMA2000 BC14:1851.25 ~ 1913.75 MHz/

1931.25 ~ 1993.75 MHz

MAX. ERP/EIRP POWER : CDMA2000 BC0 : 0.69 W

CDMA2000 BC1 : 0.51 W CDMA2000 BC14 : 0.26W

EMISSION DESIGNATOR : 1M28F9W

The product was received on Apr. 19, 2011 and completely tested on May 10, 2011. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager



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SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.



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**REVISION HISTORY** 

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG0N0835-01	Rev. 01	Initial issue of report	May 26, 2011

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**SUMMARY OF TEST RESULT** 

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	N/A	Conducted Output Power	N/A	PASS	-
3.2	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	,
3.2	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.3	§2.1049 §22.917(a) §24.238(a)	N/A	Occupied Bandwidth	N/A	PASS	-
3.4	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Band Edge Measurement	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Conducted Emission	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
3.6	§2.1053 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Field Strength of Spurious Radiation	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 15.16 dB at 1674 MHz
3.7	§2.1055 §22.355 §24.235	RSS-132(4.3) RSS-133(6.3)	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

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#### **General Description** 1

## 1.1 Applicant

#### **TELEEPOCH Limited**

5A, B1 Building, Digital Tech Zone, High-Tech Park(South), Nanshan District, Shenzhen, Guangdong Province, China

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#### 1.2 Manufacturer

#### **TELEEPOCH Limited**

5A, B1 Building, Digital Tech Zone, High-Tech Park(South), Nanshan District, Shenzhen, Guangdong Province, China

## 1.3 Feature of Equipment Under Test

Product Feature & Specification					
Equipment	CDMA Mobile Phone				
Brand Name	OPEN MOBILE\PUBLIC MOBILE				
Model Name	M570				
FCC ID	U46-M570A				
Tx Frequency	CDMA2000 BC0 : 824 MHz ~ 849 MHz CDMA2000 BC1 : 1850 MHz ~1910 MHz CDMA2000 BC14 : 1850 MHz ~ 1915 MHz				
Rx Frequency	CDMA2000 BC0 : 869 MHz ~ 894 MHz CDMA2000 BC1 : 1930 MHz ~ 1990 MHz CDMA2000 BC14 : 1930 MHz ~ 1995 MHz				
Maximum Output Power to Antenna	CDMA2000 BC0 : 23.45 dBm CDMA2000 BC1 : 24.50 dBm CDMA2000 BC14 : 22.39 dBm				
Maximum ERP/EIRP	CDMA2000 BC0 : 0.69 W (28.38 dBm) CDMA2000 BC1 : 0.51 W (27.05 dBm) CDMA2000 BC14 : 0.26 W (24.18 dBm)				
Antenna Type	Fixed Internal Antenna				
HW Version	M570-MAIN-V1.3				
SW Version	AI2_PUBLIC_Bv7.66				
Type of Modulation	QPSK				
Type of Emission	1M28F9W				
EUT Stage	Production Unit				

#### Remark:

- For other wireless features of this EUT, the test report will be issued separately. 1.
- This test report recorded only product characteristics and test results of PCS Licensed Transmitter Held to Ear (PCE).
- The above EUT's information was declared by manufacturer. Please refer to the specifications or 3. user's manual for more detailed description.

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1.4 Testing Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.				
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.				
<b>Test Site Location</b> TEL: +86-0512-5790-0158					
	FAX: +86-0512-5790-0958				
Toot Site No	Sporton Site No.				
Test Site No.	TH01-KS	03CH01-KS			

# 1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- Preliminary Guidance for Receiving Applications for Certification of 3G Device. May 9, 2006.
- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- IC RSS-132 Issue 2
- IC RSS-133 Issue 5

#### Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B (DoC), recorded in a separate test report.

# 1.6 Ancillary Equipment List

ltem	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m

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# 2 Test Configuration of Equipment Under Test

## 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is as follows:

- 1. 30 MHz to 9000 MHz for CDMA2000 BC0.
- 2. 30 MHz to 19000 MHz for CDMA2000 BC1 and BC14.

Test Modes						
Band	Radiated TCs	Conducted TCs				
CDMA2000 BC0	■ 1xRTT Link Mode	■ 1xRTT Link Mode				
CDMA2000 BC1	■ 1xRTT Link Mode	■ 1xRTT Link Mode				
CDMA2000 BC14	■ 1xRTT Link Mode	■ 1xRTT Link Mode				

#### Note:

- 1. The maximum RF output power levels are 1xRTT RC3 + SO55 mode for CDMA2000 BC0, 1xRTT RC3 + SO32 (FCH) mode for CDMA2000 BC1, 1xRTT RC1 + SO55 mode for CDMA2000 BC14; only these modes were used for all tests.
- 2. Because there are individual antennas for each WWAN and Bluetooth, the co-location test modes are not required.

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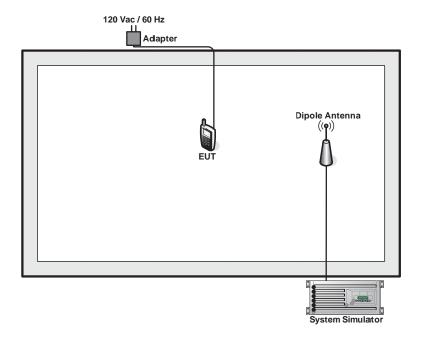


The conducted power table is as follows:

Conducted Power (*Unit: dBm)								
Band	Band CDMA2000 BC0				CDMA2000 BC1			
Channel	1013	384	777	25	600	1175		
Frequency	824.7	836.52	848.31	1851.25	1880	1908.75		
1xRTT RC1+SO55	23.32	23.40	23.14	24.12	24.25	24.44		
1xRTT RC3+SO55	23.33	23.45	23.22	24.19	24.27	24.39		
1xRTT RC3+SO32 (FCH)	23.30	23.33	23.25	24.20	24.45	<mark>24.50</mark>		
1xRTT RC3+SO32 (SCH)	23.29	23.25	23.23	24.17	24.40	24.46		

Conducted Power (*Unit: dBm)				
Band CDMA2000 BC1				
Channel	1275			
Frequency	1913.75			
1xRTT RC1+SO55	22.39			
1xRTT RC3+SO55	22.38			
1xRTT RC3+SO32 (FCH)	22.04			
1xRTT RC3+SO32 (SCH)	22.06			

# 2.2 Connection Diagram of Test System



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## 3 Test Result

## 3.1 Conducted Output Power Measurement

## 3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

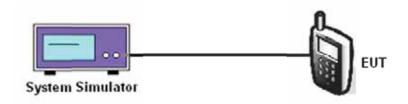
### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.1.3 Test Procedures

- 1. The transmitter output port was connected to base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different modulation.

## 3.1.4 Test Setup



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## 3.1.5 Test Result of Conducted Output Power

CDMA2000 BC0								
Test Mode Test Status		Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)			
00144 0000		1013 (Low)	824.70	23.33	0.22			
CDMA 2000	RC3+SO55	384 (Mid)	836.52	23.45	0.22			
1xRTT		777 (High)	848.31	23.22	0.21			

CDMA2000 BC1								
Test Mode	Test Status	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)			
CDMA 0000		25 (Low)	1851.25	24.20	0.26			
CDMA 2000 1xRTT	RC3+SO32 (FCH)	600 (Mid)	1880.00	24.45	0.28			
IXKII		1175 (High)	1908.75	24.50	0.28			

CDMA2000 BC14								
Test Mode	Test Status	Channel	Frequency (MHz)	Conducted Power	Conducted Power			
				(dBm)	(Watts)			
CDMA 2000		25 (Low)	1851.25	24.18	0.26			
1xRTT	RC1+SO55	600 (Mid)	1880.00	24.02	0.25			
IXNTT		1175 (High)	1908.75	22.39	0.17			

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3.2 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.2.1 Description of the ERP/EIRP Measurement

ERP/EIRP is measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

 The EUT was placed on an non-conductive rotating platform with 0.8 meter height in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW= 3MHz, VBW= 3MHz, and peak

detector settings.

 During the measurement, the EUT was enforced in maximum power and linked with a base station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1

to 4 meters in both horizontally and vertically polarized orientations.

3. Effective Isotropic Radiated Power(EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP= LVL +

Correction factor and ERP = EIRP - 2.15.

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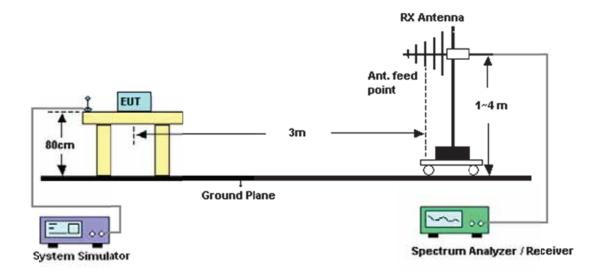
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## 3.2.4 Test Setup



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#### 3.2.5 Test Result of ERP

CDMA2000 BC0 1xRTT_RC3+SO55 Radiated Power ERP				
		Horizontal Polarization		
Frequency	LVL	Correction Factor	ERP	ERP
(MHz)	(dBm)	(dB)	(dBm)	(W)
824.70	-3.68	30.56	24.73	0.30
836.52	-2.57	29.88	25.16	0.33
848.31	-0.07	30.6	28.38	0.69
		Vertical Polarization		
Frequency	LVL	Correction Factor	ERP	ERP
(MHz)	(dBm)	(dB)	(dBm)	(W)
824.70	-14.86	33.86	16.85	0.05
836.52	-11.44	32.98	19.39	0.09
848.31	-11.03	33.07	19.89	0.10

<sup>\*</sup> ERP = LVL (dBm) + Correction Factor (dB) -2.15

#### 3.2.6 Test Result of EIRP

CDMA2	CDMA2000 BC1 1xRTT_RC3+SO32 (FCH) Radiated Power EIRP				
		Horizontal Polarization			
Frequency	LVL	Correction Factor	EIRP	EIRP	
(MHz)	(dBm)	(dB)	(dBm)	(W)	
1851.25	-17.51	37.79	20.28	0.11	
1880.00	-16.00	39.33	23.33	0.22	
1908.75	-13.92	38.27	24.35	0.27	
		Vertical Polarization			
Frequency	LVL	Correction Factor	EIRP	EIRP	
(MHz)	(dBm)	(dB)	(dBm)	(W)	
1851.25	-16.91	39.67	22.76	0.19	
1880.00	-16.04	39.23	23.19	0.21	
1908.75	-11.54	38.59	27.05	0.51	

<sup>\*</sup> EIRP = LVL (dBm) + Correction Factor (dB)

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CDMA2000 BC14 1xRTT_RC1+SO55 Radiated Power EIRP				
		Horizontal Polarization		
Frequency	LVL	Correction Factor	EIRP	EIRP
(MHz)	(dBm)	(dB)	(dBm)	(W)
1913.75	-17.19	37.74	20.55	0.11
		Vertical Polarization		
Frequency	LVL	Correction Factor	EIRP	EIRP
(MHz)	(dBm)	(dB)	(dBm)	(W)
1913.75	-13.35	37.1	23.75	0.24

<sup>\*</sup> EIRP = LVL (dBm) + Correction Factor (dB)

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## 3.3 Occupied Bandwidth Measurement

#### 3.3.1 Description of Occupied Bandwidth Measurement

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

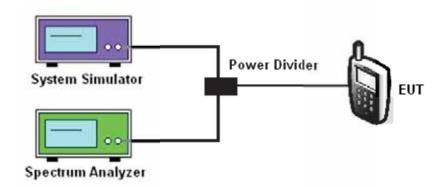
### 3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.3.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers were measured.

## 3.3.4 Test Setup



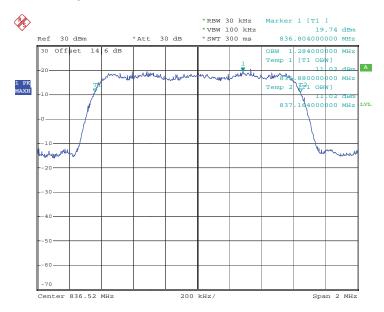
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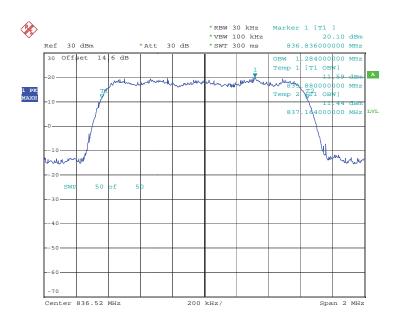


3.3.5 Test Result (Plots) of Occupied Bandwidth

Band:	CDMA2000 BC0	Power Stage :	High
Test Mode :	1xRTT_RC3+SO55		

#### 99% Occupied Bandwidth Plot on Channel 384



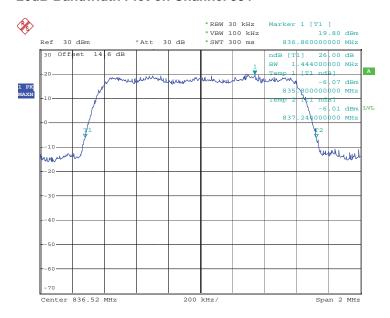


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#### 26dB Bandwidth Plot on Channel 384

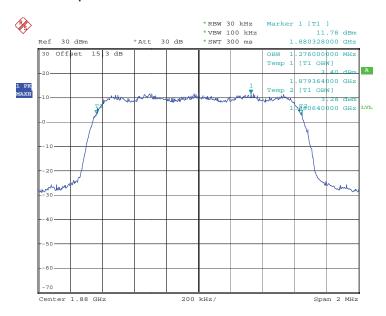


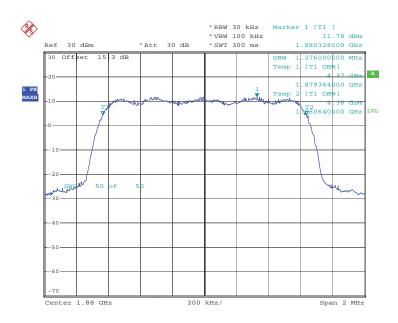
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Band:	CDMA2000 BC1	Power Stage :	High
Test Mode :	RC3+SO32 (FCH)		

#### 99% Occupied Bandwidth Plot on Channel 600

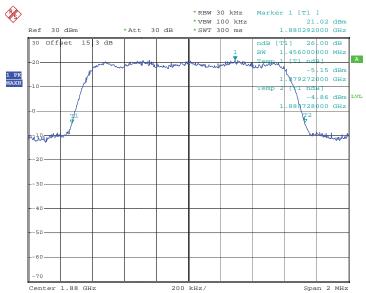




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#### 26dB Bandwidth Plot on Channel 600



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Band:	CDMA2000 BC14	Power Stage :	High
Test Mode:	RC1+SO55		

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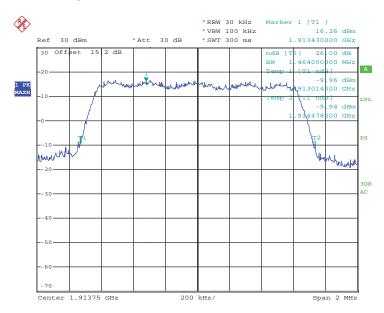
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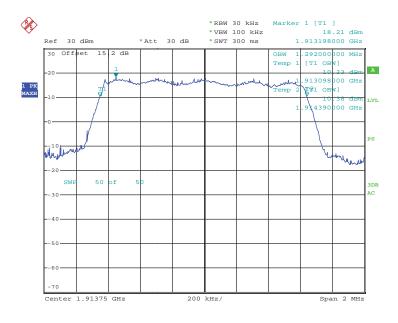
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#### 99% Occupied Bandwidth Plot on Channel 1275



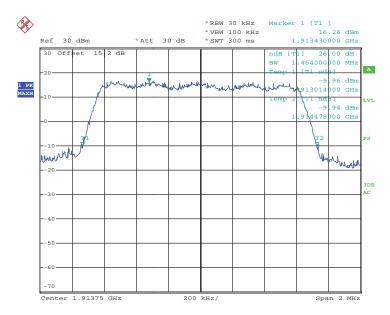


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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: U46-M570A



#### 26dB Bandwidth Plot on Channel 1275



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3.4 Band Edge Measurement

## 3.4.1 Description of Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

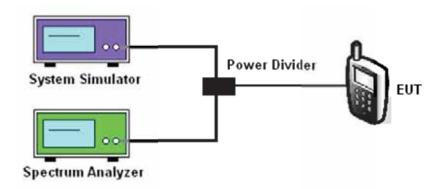
## 3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.4.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.
- The RBW was replaced by 10 kHz, due to the spectrum analyzer IF-Filter including an excess
  of the limit. A worst case correction factor of 10 log (1% BW/measurement RBW) was
  implemented.

#### 3.4.4 Test Setup



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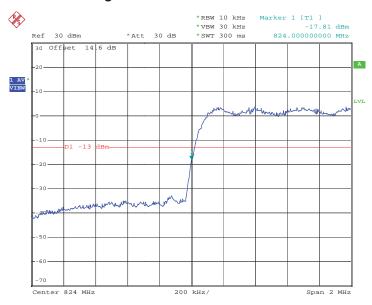
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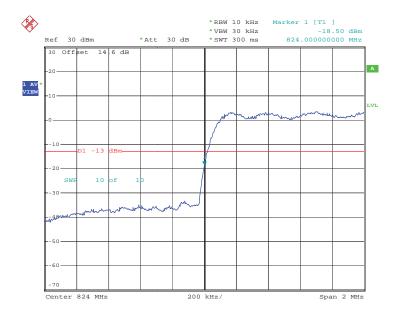


3.4.5 Test Result (Plots) of Conducted Band Edge

Band:	CDMA2000 BC0	Power Stage :	High
Test Mode :	1xRTT_RC3+SO55		

#### **Lower Band Edge Plot on Channel 1013**



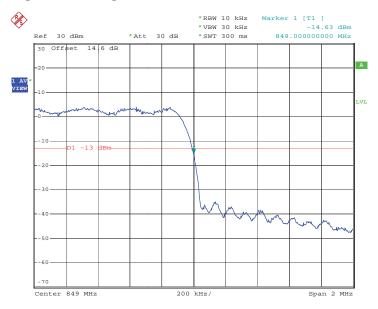


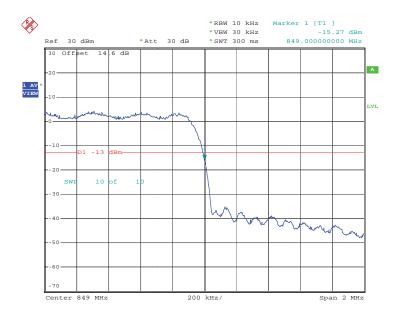
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#### **Higher Band Edge Plot on Channel 777**



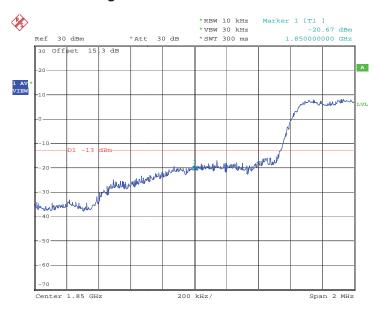


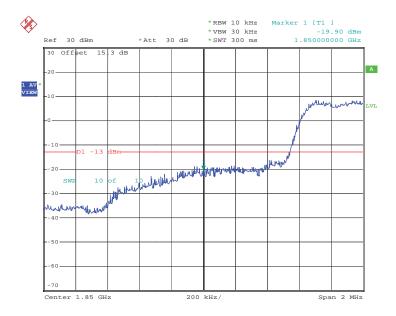
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Band:	CDMA2000 BC1	Power Stage :	High
Test Mode:	RC3+SO32 (FCH)		

#### **Lower Band Edge Plot on Channel 25**

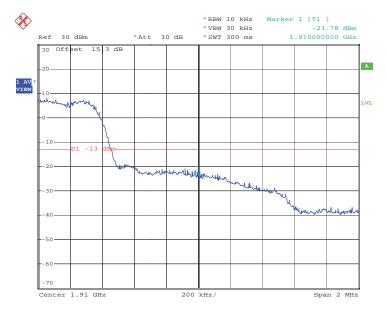


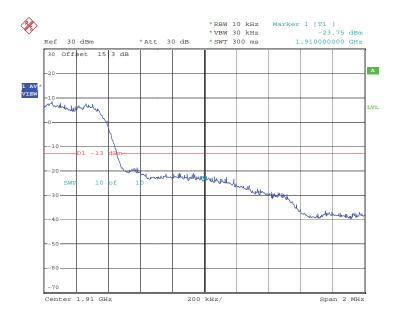


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## **Higher Band Edge Plot on Channel 1175**



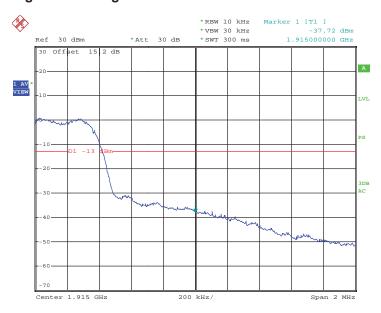


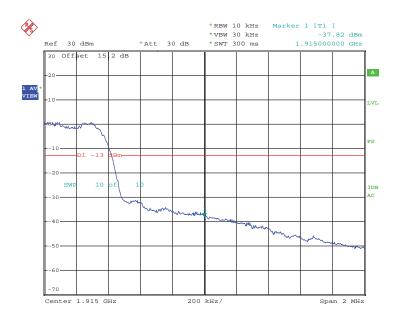
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Band:	CDMA2000 BC14	Power Stage :	High
Test Mode :	RC1+SO55		

## **Higher Band Edge Plot on Channel 1275**





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#### 3.5 Conducted Emission Measurement

#### 3.5.1 Description of Conducted Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

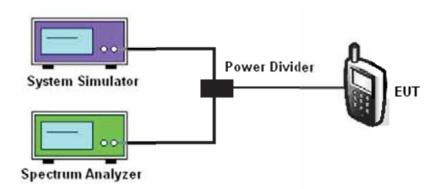
## 3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.5.3 Test Procedures

- The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The middle channel for the highest RF power within the transmitting frequency was measured.
- 3. The conducted spurious emission for the whole frequency range was taken.

#### 3.5.4 Test Setup



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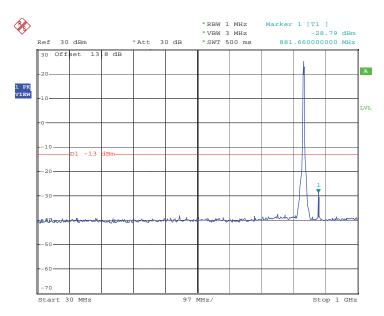
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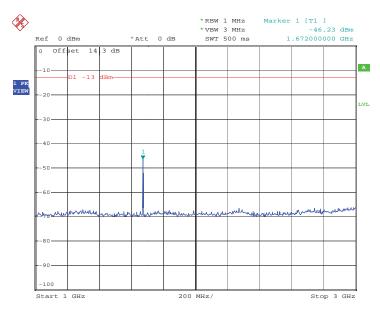
3.5.5 Test Result (Plots) of Conducted Emission

Band:	CDMA2000 BC0 CH384	Power Stage :	High
Test Mode :	1xRTT_RC3+SO55		

#### Conducted Emission Plot between 30MHz ~ 1GHz



#### Conducted Emission Plot between 1GHz ~ 3GHz

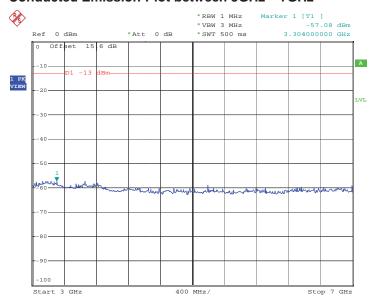


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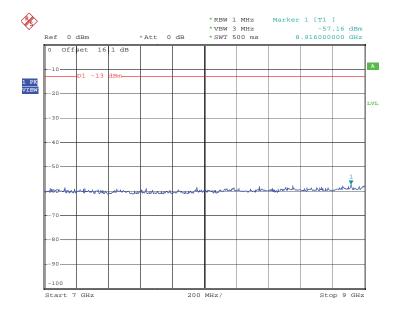


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#### Conducted Emission Plot between 3GHz ~ 7GHz



#### Conducted Emission Plot between 7GHz ~ 9GHz

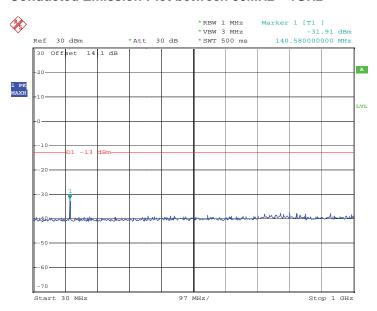


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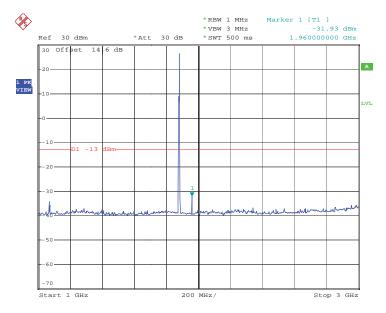


Band :	CDMA2000 BC1 CH600 and BC14 CH1275	Power Stage :	High
Test Mode :	RC3+SO32 (FCH) and RC1+SO55		

#### Conducted Emission Plot between 30MHz ~ 1GHz



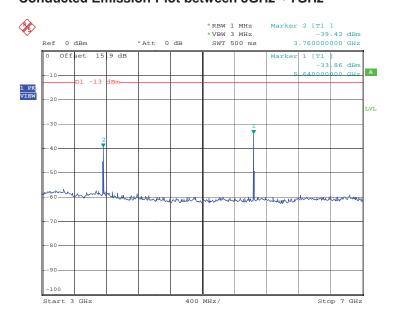
#### Conducted Emission Plot between 1GHz ~ 3GHz



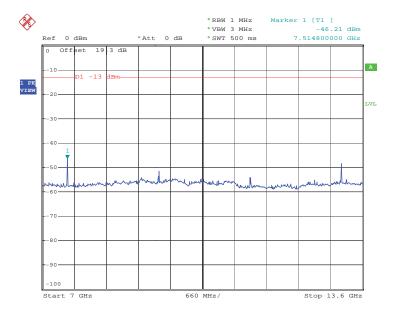
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## Conducted Emission Plot between 3GHz ~ 7GHz



#### Conducted Emission Plot between 7GHz ~ 13.6GHz

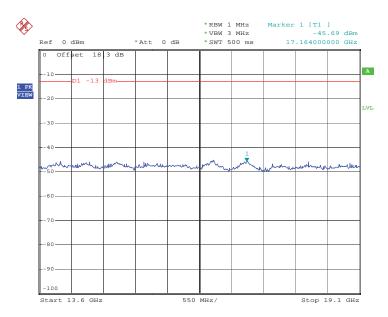


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#### Conducted Emission Plot between 13.6GHz ~ 19.1GHz



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## 3.6 Field Strength of Spurious Radiation Measurement

## 3.6.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43+10log<sub>10</sub>(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

## 3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.6.3 Test Procedures

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15

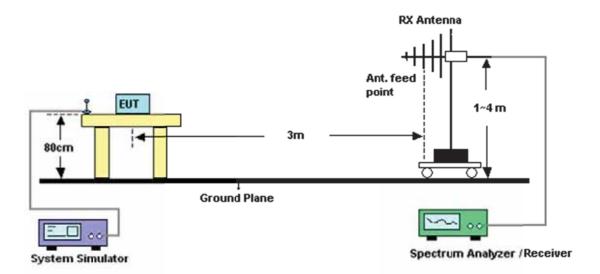
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## 3.6.4 Test Setup



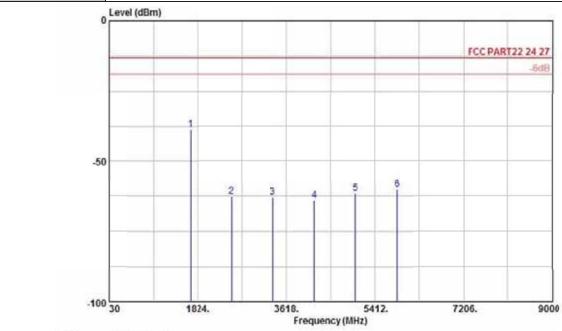
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# 3.6.5 Test Result of Field Strength of Spurious Radiated

Band :	CDMA2000 BC0	Temperature :	20~21°C
Test Mode :	1xRTT_RC3+SO55	Relative Humidity :	40~41%
Test Engineer :	Cloud Peng	Polarization :	Horizontal
Damark.	Spurious emissions within 20 1000MHz were found more than 20dD below limit line		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site : 03CH01-KS

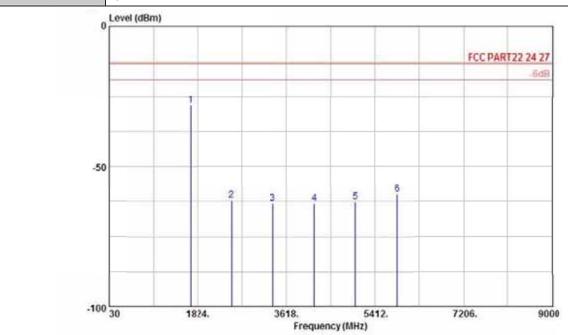
Condition: FCC PART22 24 27 HF EIRP FACTOR-09020 HORIZONTAL

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
1674	-38.58	-13	-25.58	-38.85	-39.23	0.57	3.37	Н	Pass
2509	-62.59	-13	-49.59	-64.84	-64.82	0.78	5.16	Н	Pass
3345	-63.09	-13	-50.09	-65.03	-66.73	0.87	6.66	Н	Pass
4182	-63.94	-13	-50.94	-66.68	-68.53	0.97	7.71	Н	Pass
5018	-61.43	-13	-48.43	-67.63	-67.10	1.09	8.91	Н	Pass
5854	-60.22	-13	-47.22	-68.93	-66.66	1.22	9.81	Н	Pass

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FCC RF Test Report	Report No. : FG0N0835-01

Band :	CDMA2000 BC0	Temperature :	20~21°C				
Test Mode :	1xRTT_RC3+SO55	Relative Humidity :	40~41%				
Test Engineer :	Cloud Peng	Polarization :	Vertical				
Damada	Paralle and a series in a suith in 20 4000MHz was found as on the a 00 dB balanchise it lies						



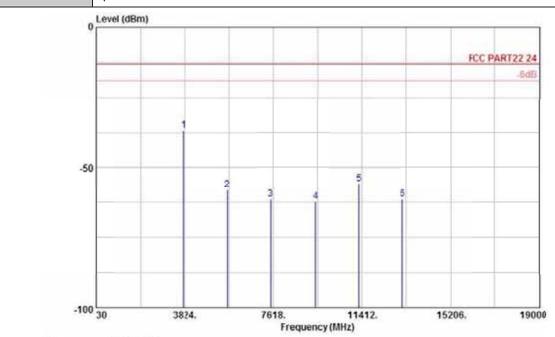
Site : 03CH01-K5

Condition: FCC PART22 24 27 HF EIRP FACTOR-09020 VERTICAL

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
1674	-28.16	-13	-15.16	-34.57	-28.81	0.57	3.37	V	Pass
2509	-62.11	-13	-49.11	-65.22	-64.34	0.78	5.16	V	Pass
3346	-63.13	-13	-50.13	-65.11	-66.77	0.87	6.66	V	Pass
4182	-63.10	-13	-50.10	-66.94	-67.69	0.97	7.71	V	Pass
5018	-62.59	-13	-49.59	-67.53	-68.26	1.09	8.91	V	Pass
5854	-59.87	-13	-46.87	-67.86	-66.31	1.22	9.81	V	Pass

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Band :	CDMA2000 BC1	Temperature :	22~23°C
Test Mode :	1xRTT_RC3+SO32 (FCH)	Relative Humidity:	40~41%
Test Engineer :	Cloud Peng	Polarization :	Horizontal



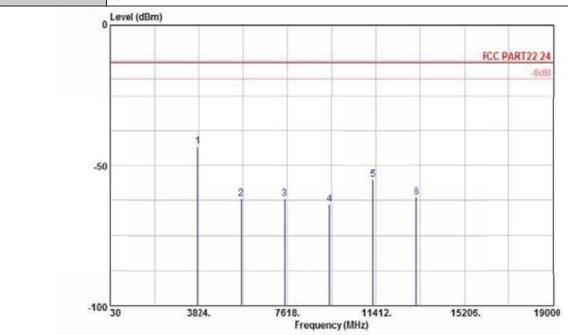
Site : 03CH01-K5

Condition: FCC PARI22 24 HF EIRP FACTOR-09020 HORIZONTAL

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3760	-36.74	-13	-23.74	-43.88	-43.12	0.78	7.16	Н	Pass
5640	-57.95	-13	-44.95	-62.13	-66.49	1.04	9.58	Н	Pass
7520	-61.22	-13	-48.22	-66.35	-71.33	1.35	11.46	Н	Pass
9400	-62.14	-13	-49.14	-65.40	-73.20	1.75	12.81	Н	Pass
11280	-55.65	-13	-42.65	-67.14	-66.74	2	13.09	Н	Pass
13160	-61.42	-13	-48.42	-72.72	-73.13	2.04	13.75	Н	Pass

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Band :	CDMA2000 BC1	Temperature :	22~23°C
Test Mode :	1xRTT_RC3+SO32 (FCH)	Relative Humidity :	40~41%
Test Engineer :	Cloud Peng	Polarization :	Vertical



Site : 03CH01-KS

Condition: FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL

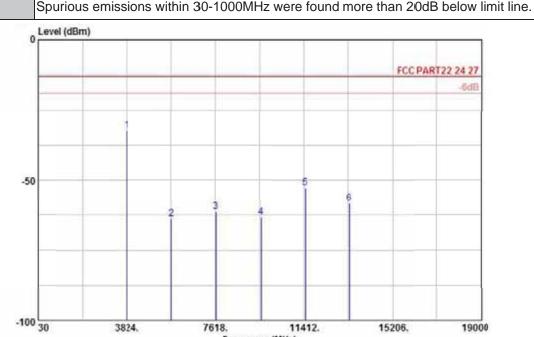
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3760	-43.15	-13	-30.15	-50.83	-49.53	0.78	7.16	V	Pass
5640	-61.84	-13	-48.84	-65.06	-70.38	1.04	9.58	V	Pass
7520	-61.94	-13	-48.94	-66.43	-72.05	1.35	11.46	V	Pass
9400	-63.74	-13	-50.74	-64.96	-74.80	1.75	12.81	V	Pass
11280	-54.83	-13	-41.83	-66.07	-65.92	2	13.09	V	Pass
13160	-61.23	-13	-48.23	-72.42	-72.94	2.04	13.75	V	Pass

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Band :	CDMA2000 BC14	Temperature :	20~21°C
Test Mode :	1xRTT_RC1+SO55	Relative Humidity:	40~41%
Test Engineer :	Cloud Peng	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were fou	nd more than 20dB be	low limit line.



Frequency (MHz)

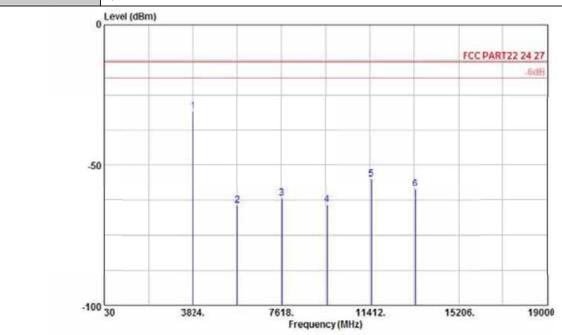
Site : 03CH01-KS

Condition: FCC PART22 24 27 HF EIRP FACTOR-09020 HORIZONTAL

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3822	-32.32	-13	-19.32	-39.80	-38.70	0.78	7.16	Н	Pass
5732	-63.84	-13	-50.84	-68.02	-72.38	1.04	9.58	Н	Pass
7643	-61.30	-13	-48.30	-66.43	-71.41	1.35	11.46	Н	Pass
9554	-63.21	-13	-50.21	-66.47	-74.27	1.75	12.81	Н	Pass
11469	-52.73	-13	-39.73	-64.22	-63.82	2	13.09	Н	Pass
13368	-58.21	-13	-45.21	-69.51	-69.92	2.04	13.75	Н	Pass

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Band :	CDMA2000 BC14	Temperature :	20~21°C
Test Mode :	1xRTT_RC1+SO55	Relative Humidity :	40~41%
Test Engineer :	Cloud Peng	Polarization :	Vertical
_			



Site : 03CH01-KS

Condition: FCC FART22 24 27 HF EIRP FACTOR-09020 VERTICAL

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3822	-30.90	-13	-17.90	-41.94	-37.28	0.78	7.16	V	Pass
5732	-64.42	-13	-51.42	-67.64	-72.96	1.04	9.58	V	Pass
7643	-61.76	-13	-48.76	-66.25	-71.87	1.35	11.46	V	Pass
9554	-63.93	-13	-50.93	-65.15	-74.99	1.75	12.81	V	Pass
11469	-54.79	-13	-41.79	-66.03	-65.88	2	13.09	V	Pass
13375	-58.47	-13	-45.47	-69.66	-70.18	2.04	13.75	V	Pass

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3.7 Frequency Stability Measurement

3.7.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of

the center frequency.

3.7.2 Measuring Instruments

See list of measuring instruments of this test report.

3.7.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.

2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one

minute.

3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change

was recorded within one minute.

4. If the EUT can not be turned on at -30°C, the testing lowest temperature will be raised in 10°C

step until the EUT can be turned on.

3.7.4 Test Procedures for Voltage Variation

The EUT was placed in a temperature chamber at 25±5° C and connected with the base

station.

2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value

measured at the input to the EUT.

3. The variation in frequency was measured for the worst case.

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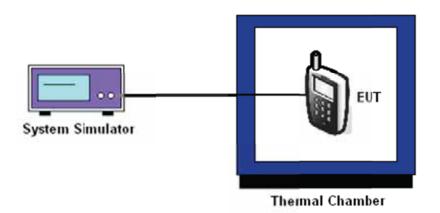
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## 3.7.5 Test Setup



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## 3.7.6 Test Result of Temperature Variation

Band :	CDMA2000 BC0	Channel:	384
Test Mode :	1xRTT_RC3+SO55	Limit (ppm):	2.5

Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-	-	
-20	-	-	
-10	-15	-0.02	
0	-14	-0.02	
10	-13	-0.02	PASS
20	-16	-0.02	
30	-14	-0.02	
40	-17	-0.02	
50	-15	-0.02	

#### Note:

- 1. The EUT stops transmitting at temperatures -20°C and -30°C.
- 2. The manufacturer declared that the EUT could work properly between temperatures -15°C~50°C.

Band :	CDMA2000 BC1	Channel:	600
Test Mode :	1xRTT_RC3+SO32 (FCH)	Limit (ppm):	2.5

Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-	-	
-20	-	-	
-10	-36	-0.02	
0	-39	-0.02	
10	36	-0.02	PASS
20	-35	-0.02	
30	-38	-0.02	
40	-35	-0.02	
50	-37	-0.02	

#### Note:

- 1. The EUT stops transmitting at temperatures -20°C and -30°C.
- 2. The manufacturer declared that the EUT could work properly between temperatures -15°C~50°C.

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# FCC RF Test Report

Band :	CDMA2000 BC14	Channel:	1275
Test Mode :	1xRTT_RC1+SO55	Limit (ppm):	2.5

Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-	-	
-20	-	-	
-10	33	0.02	
0	30	0.02	
10	-38	-0.02	PASS
20	48	0.03	
30	25	0.01	
40	19	0.01	
50	-44	-0.02	

#### Note:

- 1. The EUT stops transmitting at temperatures -20°C and -30°C.
- 2. The manufacturer declared that the EUT could work properly between temperatures -15°C~50°C.

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## 3.7.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
		3.7	-16	-0.02		
CDMA2000 BC0 CH384	1xRTT RC3+SO55	BEP	-14	-0.02	2.5	PASS
		4.2	-15	-0.02		
CDMA2000 BC1 CH600		3.7	-37	-0.02		
	RC3+SO32 (FCH)	BEP	-38	-0.02	2.5	PASS
		4.2	-36	-0.02		
		3.7	34	0.02		
CDMA2000 BC14 CH1275	RC1+SO55	BEP	-42	-0.02	2.5	PASS
		4.2	45	0.02		

#### Note:

- 1. Normal Voltage = 3.7V.
- 2. Battery End Point (BEP) = 3.4 V.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Jan. 07, 2011	Jan. 06, 2012	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 28, 2010	Dec. 27, 2011	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 16, 2010	Nov. 15, 2011	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Jan. 07, 2011	Jan. 06, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2010	Dec. 06, 2011	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 07, 2011	Jan. 06, 2012	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060004	30MHz~2GHz	Dec. 09, 2010	Dec. 08, 2011	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Jan. 07, 2011	Jan. 06, 2012	Radiation (03CH01-KS)
Actice hore antenna	com-power	AHA-118	701023	1G-18GHz	Nov. 09, 2010	Nov. 08, 2011	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz~40GHz	Jan. 06, 2011	Jan. 05, 2012	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15-40GHz	Oct. 15, 2010	Oct.14, 2011	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz~30 MHz	Jul. 29, 2010	Jul. 28, 2011	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	837587/066	Full-Band	Jan. 07, 2011	Jan. 06, 2012	-

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# 5 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

	Uncerta		
Contribution	dB	Probability Distribution	u(X <sub>i</sub> )
Receiver Reading	0.41	Normal (k=2)	0.21
Antenna Factor Calibration	0.83	Normal (k=2)	0.42
Cable Loss Calibration	0.25	Normal (k=2)	0.13
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14
RCV/SPA Specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site Imperfection	1.43	Rectangular	0.83
Mismatch	+0.39 / -0.41	U-Shape	0.28
Combined Standard Uncertainty Uc(y)	1.27		
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.54		

### **Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)**

	Uncertai	nty of X <sub>i</sub>			
Contribution	dB	Probability Distribution	u(X <sub>i</sub> )	C <sub>i</sub>	C <sub>i</sub> * u(X <sub>i</sub> )
Receiver Reading	±0.10	Normal (k=2)	0.10	1	0.10
Antenna Factor Calibration	±1.70	Normal (k=2)	0.85	1	0.85
Cable Loss Calibration	±0.50	Normal (k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site Imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma$ 1 = 0.197 Antenna VSWR $\Gamma$ 2 = 0.194 Uncertainty = 20Log(1- $\Gamma$ 1* $\Gamma$ 2)	+0.34 / -0.35	U-Shape	0.244	1	0.244
Combined Standard Uncertainty Uc(y)	2.36				
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.72				

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# Appendix A. Photographs of EUT

Please refer to Sporton report number EP0N0835 as below.

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