

Variant FCC RF Test Report

APPLICANT : HTC Corporation

EQUIPMENT : Smart Phone

MODEL NAME : PG32100

FCC ID : NM8PG32100

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

Report No.: FG112612-01

CDMA2000 BC1: 1851.25 ~ 1908.75 MHz /

1931.25 ~ 1988.75 MHz

MAX. ERP/EIRP POWER : <Battery 3>

> CDMA2000 BC0: 0.05 W CDMA2000 BC1: 0.20 W

<Battery 1 + Wireless Back Cover>

CDMA2000 BC0: 0.09 W CDMA2000 BC1: 0.24 W

This is a variant report which is only valid together with the original test report. The product was received on Nov. 23, 2010 and completely tested on Mar. 19, 2011. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by:

Anderson Chiu / Deputy Manager

nderson Chiu





SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: NM8PG32100

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG112612-01	Rev. 01	This is a variant report by adding one more thick battery (battery 3), thick back cover, and wireless back cover. All the test cases were performed on original report which can be referred to Sporton Report No. FG0N2344-01 as Appendix B. Base on original report, only the worst case of Effective Radiated Power, Equivalent Isotropic Radiated Power, and Field Strength of Spurious Radiation were verified.	Mar. 24, 2011

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.1	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.2	§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 ₁₀ (P[Watts])	PASS	Under limit 18.61 dB at 11280 MHz

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1 General Description

1.1 Applicant

HTC Corporation

1F., No. 6-3, Baoqiang Rd., Xindian City, Taipei, Taiwan

1.2 Manufacturer

HTC Corporation

1F., No. 6-3, Baoqiang Rd., Xindian City, Taipei, Taiwan

1.3 Feature of Equipment Under Test

Product Feature & Specification					
Equipment	Smart Phone				
Model Name	PG32100				
FCC ID	NM8PG32100				
Tx Frequency	CDMA2000 BC0 : 824 MHz ~ 849 MHz				
TX Trequency	CDMA2000 BC1 : 1850 MHz ~1910 MHz				
Dy Eroguenou	CDMA2000 BC0 : 869 MHz ~ 894 MHz				
Rx Frequency	CDMA2000 BC1 : 1930 MHz ~ 1990 MHz				
	<battery 3=""></battery>				
	CDMA2000 BC0: 0.05 W (16.88 dBm)				
Maximum ERP/EIRP	CDMA2000 BC1: 0.20 W (22.91 dBm)				
Maximum ERF/EIRF	<battery +="" 1="" back="" cover="" wireless=""></battery>				
	CDMA2000 BC0 : 0.09 W (19.73 dBm)				
	CDMA2000 BC1: 0.24 W (23.78 dBm)				
Antenna Type	Fixed Internal Antenna				
Type of Modulation	QPSK				
EUT Stage	Production Unit				

Remark:

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

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1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC.				
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,				
Took Cita Lagation	Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.				
Test Site Location	TEL: +886-3-327-3456				
	FAX: +886-3-328-4978				
Test Site No.	Sporton Site No.	FCC/IC Registration No.			
lest site No.	03CH06-HY	722060/4086B-1			

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:

- 1. 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

Item	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
2.	Earphone	Merry	RC E160	N/A	N/A	N/A

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Test Configuration of Equipment Under Test 2

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:

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

Test Modes					
Band	Radiated TCs				
CDMA2000 BC0	■ 1xRTT Link Mode + Battery 3 + Earphone + USB Cable 2 (Charging from Adaper 2) ■ 1xRTT Link Mode + Battery 1 + Earphone + Wireless Back Cover + USB Cable 2 (Charging from Adaper 2)				
CDMA2000 BC1	■ 1xRTT Link Mode + Battery 3 + Earphone + USB Cable 2 (Charging from Adaper 2) ■1xRTT Link Mode + Battery 1 + Earphone + Wireless Back Cover + USB Cable 2 (Charging from Adaper 2)				

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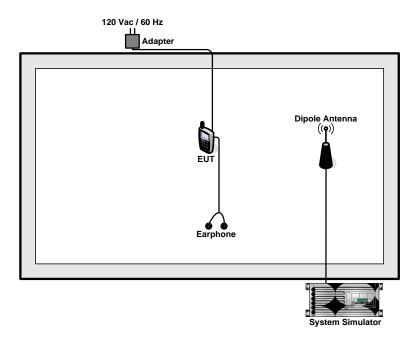
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2.2 Connection Diagram of Test System



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3 Test Result

3.1 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.1.1 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.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

- 1. The EUT was placed on a turntable with 1.0 meter height in a fully anechoic chamber.
- 2. The EUT was set at 1.2 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 radiated power.
- 4. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 5. Taking the record of maximum ERP/EIRP.
- 6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. The conducted power at the terminal of the dipole antenna is measured.
- 8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 9. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AF

Es = Rs + AF

AF (dB/m): Receive antenna factor

Rt: The highest received signal in spectrum analyzer for EUT.

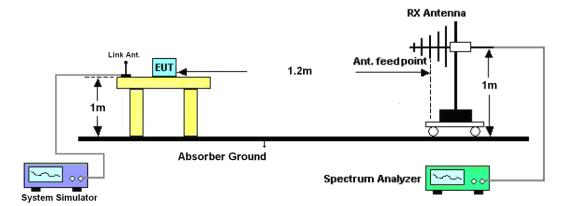
Rs: The highest received signal in spectrum analyzer for substitution antenna.

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3.1.4 Test Setup



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3.1.5 Test Result of ERP

	CDMA2000 BC0 1xRTT_RC3+OS55 Radiated Power ERP for Batter 3					
		Hori	zontal Polariza	ition		
Frequency	Rt	Rs	Ps	Gs	ERP	ERP
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)
824.70	-30.73	-48.12	0.00	-1.08	16.31	0.04
836.52	-30.55	-48.28	0.00	-0.93	16.80	0.05
848.31	-30.71	-48.35	0.00	-0.76	16.88	0.05
		Ve	rtical Polarizati	ion		
Frequency	Rt	Rs	Ps	Gs	ERP	ERP
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)
824.70	-42.49	-47.97	0.00	-1.08	4.40	0.00
836.52	-42.39	-48.01	0.00	-0.93	4.69	0.00
848.31	-43.69	-48.05	0.00	-0.76	3.60	0.00

CDMA200	CDMA2000 BC0 1xRTT_ RC3+OS55 Radiated Power ERP for Batter 1 + Wireless Back Cover					
		Hori	zontal Polariza	ation		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-27.50	-48.12	0.00	-1.08	19.54	0.09
836.52	-27.99	-48.28	0.00	-0.93	19.36	0.09
848.31	-27.86	-48.35	0.00	-0.76	19.73	0.09
		Ve	rtical Polarizati	ion		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-39.65	-47.97	0.00	-1.08	7.24	0.01
836.52	-40.45	-48.01	0.00	-0.93	6.63	0.00
848.31	-40.56	-48.05	0.00	-0.76	6.73	0.00

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3.1.6 Test Result of EIRP

	CDMA2000 BC1 1xRTT_ RC3+OS55 Radiated Power EIRP for Batter 3					
		Hori	zontal Polariza	tion		
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)
1851.25	-31.79	-51.88	0.00	1.96	22.05	0.16
1880.00	-32.27	-52.99	0.00	2.00	22.72	0.19
1908.75	-33.35	-54.28	0.00	1.98	22.91	0.20
		Ve	rtical Polarizati	on		
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)
1851.25	-35.13	-52.13	0.00	1.96	18.96	0.08
1880.00	-36.03	-53.17	0.00	2.00	19.14	0.08
1908.75	-37.03	-54.13	0.00	1.98	19.08	0.08

CDMA200	CDMA2000 BC1 1xRTT_ RC3+OS55 Radiated Power EIRP for Batter 1 + Wireless Back Cover					
		Hori	zontal Polariza	tion		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-30.72	-51.88	0.00	1.96	23.12	0.21
1880.00	-31.21	-52.99	0.00	2.00	23.78	0.24
1908.75	-32.63	-54.28	0.00	1.98	23.63	0.23
		Ve	rtical Polarizati	on		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-33.72	-52.13	0.00	1.96	20.37	0.11
1880.00	-35.12	-53.17	0.00	2.00	20.05	0.10
1908.75	-36.63	-54.13	0.00	1.98	19.48	0.09

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3.2 Field Strength of Spurious Radiation Measurement

3.2.1 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+10log₁₀(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 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.
- 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

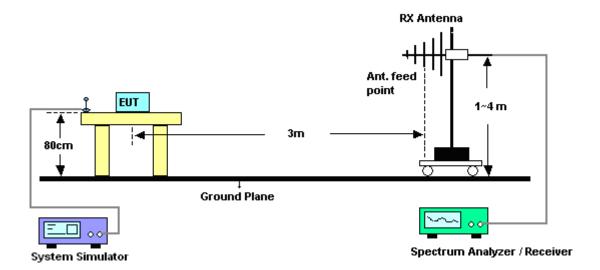
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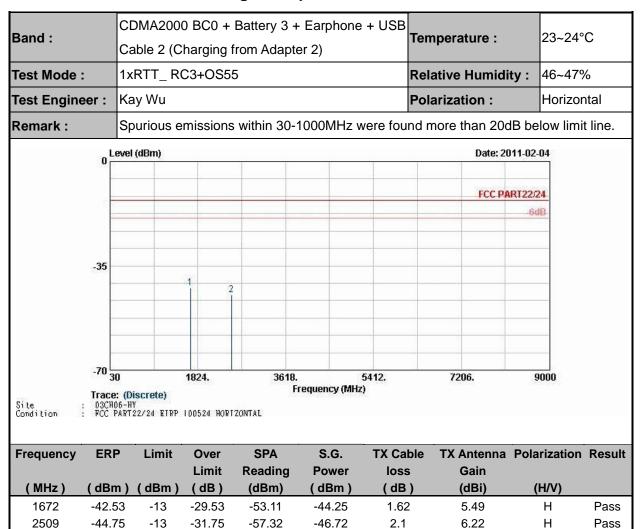
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3.2.4 Test Setup



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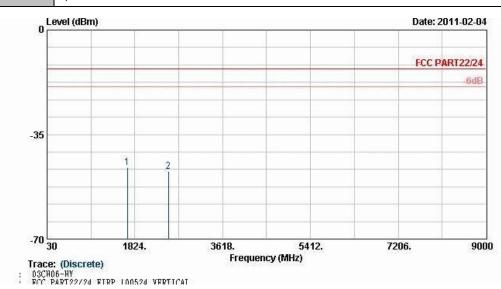
3.2.5 Test Result of Field Strength of Spurious Radiated



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Band :	CDMA2000 BC0 + Battery 3 + Earphone + USB	Temperature :	23~24°C
	Cable 2 (Charging from Adapter 2)	remperature .	23~24 0
Test Mode :	1xRTT_ RC3+OS55	Relative Humidity :	46~47%
Test Engineer :	Kay Wu	Polarization :	Vertical

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



Site Condition

Frequency	ERP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-45.93	-13	-32.93	-56.58	-47.65	1.62	5.49	V	Pass
2509	-47.41	-13	-34.41	-59.86	-49.38	2.1	6.22	V	Pass

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				+ Battery	•		_		40.0	
Band :				er + USB (Cable 2 (C	harging 1	Temperature :	23~2	4°C	
	fr	om Adapte	er 2)							
Test Mode :	1:	xRTT_ RC	3+OS5	5		F	Relative Humid	ity: 46~4	7%	
Test Engine	er: K	ay Wu				F	Polarization : Horizonta			
Remark :	S	purious er	missions	s within 30-	d more than 20	dB below lir	mit line			
	Leve	el (dBm)					Date: 2	011-03-10		
	= 0						FCC P	ART22/24		
								-6dB		
	-35		1							
	-70 30	-	1824.	3618.		5412.	7206.	9000		
Site :	03CH06-	Discrete)	AAFAJ NOD		requency (MHz	2)				
Condition :	PUC PAR	T22/24 ETRP_I	UUDZ4 HUK	LZUMTAE						
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cab	le TX Antenna	Polarization	n Res	
oquoo,				D	Dawas	1	0-1			
(MHz)	(dBm)) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)		

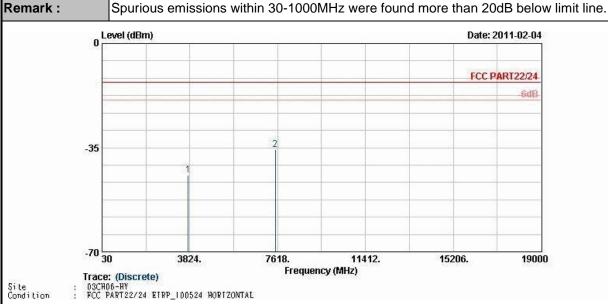
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FCC RF Test Report

Band :				er + USB (Cable 2 (C	harging	Temperatur	e:	23~24°	С
		from Adapt	er 2)							
Test Mode :		1xRTT_ R	C3+OS5	5		F	Relative Hu	46~47%	6	
Test Engine	er:	Kay Wu					Polarization : Vertical			
Remark :		Spurious e	missions	within 30-	1000MHz v	vere foun	nd more that	n 20dB be	elow limi	t line
	n Le	evel (dBm)		_			D	ate: 2011-03	-10	
	1250						F	CC PART22/	24	
								-60	18-	
	-35		1							
	-70 30	(Discrete)	1824.	3618. Fr	equency (MHz	5412.)	7206.	9	9000	
Site Condition :	03CH0		100524 YERT	TCAL						
Frequency	ERI	P Limit	Over	SPA	S.G.	TX Cab	le TX Anto	enna Pola	arization	Res
(MHz)	(dBr	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gaiı (dBi		(H/V)	
1672	-37.9	/ \ ' - /	-24.99	-49.44	-39.71	1.62	5.49	•	<u>(⊓/V)</u> ∨	Pas

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		Relative Humidity :	
Test Engineer :		,	Horizontal
J	Consider a milesiana within 20 4000MHz was few		

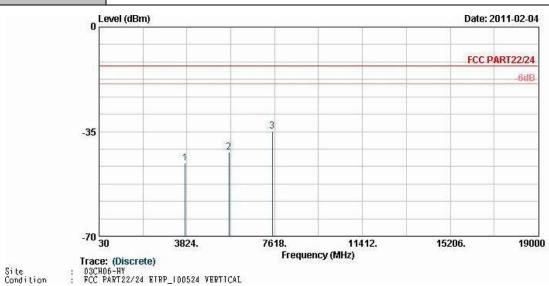


Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-44.24	-13	-31.24	-61.95	-50.49	2.56	8.81	Н	Pass
7520	25.66	12	22.66	62.1	11 56	2 22	12.12	⊔	Dacc

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FCC RF Test Report

Band :	CDMA2000 BC1 + Battery 3 + Earphone + USB Cable 2 (Charging from Adapter 2)	Temperature :	23~24°C				
Test Mode :	1xRTT_ RC3+OS55	Relative Humidity :	46~47%				
Test Engineer :	Kay Wu	Polarization :	Vertical				
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line						



Site Condition

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	-45.44	-13	-32.44	-63.39	-51.69	2.56	8.81	V	Pass
5636	-41.77	-13	-28.77	-64.47	-49.51	2.96	10.70	V	Pass
7520	-34.83	-13	-21.83	-62.13	-43.73	3.22	12.12	V	Pass

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	CDMA200	0 BC1 +	Battery 1 +	Earphone +				
Band :	Wireless B	ack Cove	er + USB Cabl	Temperature	:	23~24°C		
	from Adapt	ter 2)						
Test Mode :	1xRTT_R	C3+OS55			Relative Hun	46~47%		
Test Engineer :	Kay Wu			Polarization	:	Horizontal		
Remark :	Spurious e	Spurious emissions within 30-1000MHz were found more than 20dB b						
0 L	evel (dBm)				Dat	te: 2011-03	-10	
1250					FC	C PART22/	24	
						-60	18-	
-35			2					
		an i						
						-		
-70 ₃	_							
Trace	: (Discrete)	3824. 100524 HORTZ	122.003.5024	11412. ncy (MHz)	15206.	19	9000	
Frequency EIR	P Limit	Over	SPA S	S.G. TX Ca	ıble TX Anter	nna Pola	rization Res	

(dBm)

-53.64

-43.48

(dB)

2.56

3.22

(dBi)

8.81

12.12

(dB)

-34.39

-21.58

(dBm)

-61.55

-60.81

(dBm) (dBm)

-13

-13

-47.39

-34.58

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(MHz)

3760

7520

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(H/V)

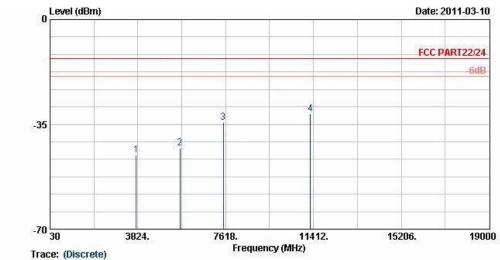
Н

Н

Pass

Pass

	CDMA2000 BC1 + Battery 1 + Earphone +		
Band :	Wireless Back Cover + USB Cable 2 (Charging	Temperature :	23~24°C
	from Adapter 2)		
Test Mode :	1xRTT_ RC3+OS55	Relative Humidity :	46~47%
Test Engineer :	Kay Wu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were fou	nd more than 20dB be	low limit line.
0 L	evel (dBm)	Date: 2011-03-	10
		FCC PART22/2	24.



Trace: (Discrete)
Site : 09CH06-HY
Condition : FCC PART22/24 EIRP 100524 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	-45.22	-13	-32.22	-59.37	-51.47	2.56	8.81	V	Pass
5636	-42.89	-13	-29.89	-63.82	-50.63	2.96	10.70	V	Pass
7520	-34.24	-13	-21.24	-60.47	-43.14	3.22	12.12	V	Pass
11280	-31.61	-13	-18.61	-61.99	-40.68	4.24	13.31	V	Pass

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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	100057	9KHz-40GHz	Oct. 25, 2010	Oct. 24, 2011	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/003	20MHz-1000MHz	Apr. 28, 2010	Apr. 27, 2011	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Oct. 31, 2010	Oct. 31, 2011	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz~18GHz	Aug. 02, 2010	Aug. 01, 2011	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Training Research	AH-0801	95119	8GHz~18GHz	Oct. 20, 2010	Oct. 19, 2011	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	15GHz- 40GHz	Oct. 18, 2010	Oct. 17, 2011	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1GHz- 26.5GHz	Apr. 15, 2010	Apr. 14, 2011	Radiation (03CH06-HY)
Amplifier	Agilent	310N	186713	9KHz~1GHz	Apr. 15, 2010	Apr. 14, 2011	Radiation (03CH06-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz~30 MHz	Jul. 29, 2010	Jul. 28, 2011	Radiation (03CH06-HY)
System Simulator	R&S	CMU200	116457	N/A	Jun. 08, 2009	Jun. 07, 2011	Radiation (03CH06-HY)

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5 Uncertainty of Evaluation

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

	Uncertai	inty of X _i		
Contribution	dB	Probability Distribution	u(X _i)	
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 _i			
Contribution	dB	Probability Distribution	u(X _i)	C _i	C _i * u(X _i)
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 Γ 1 = 0.197 Antenna VSWR Γ 2 = 0.194 Uncertainty = 20Log(1- Γ 1* Γ 2)	+0.34 / -0.35	U-Shape	0.244	1	0.244
Combined Standard Uncertainty Uc(y)		2.3	36		
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.72				

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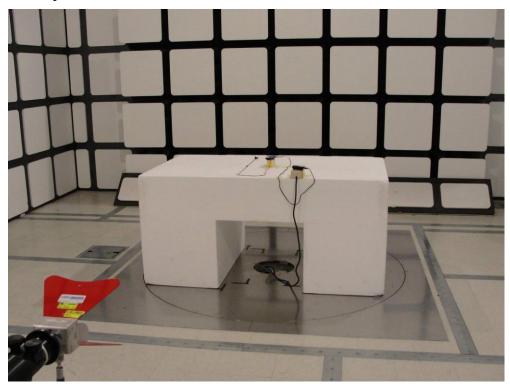
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Appendix A. Setup Photographs

<Radiated Emission> Battery 3

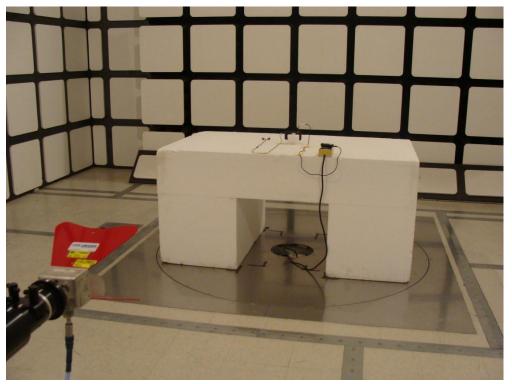


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Appendix B. Original Report

Please refer to Sporton report number FG0N2344-01 as below.

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FCC RF Test Report

APPLICANT : HTC Corporation

EQUIPMENT: Smart Phone

MODEL NAME : PG32100

FCC ID : NM8PG32100

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

Report No.: FG0N2344-01

CDMA2000 BC1: 1851.25 ~ 1908.75 MHz/

1931.25 ~ 1988.75 MHz

MAX. ERP/EIRP POWER : CDMA2000 BC0 : 0.14 W

CDMA2000 BC1: 0.25 W

EMISSION DESIGNATOR : 1M28F9W

The product was received on Nov. 23, 2010 and completely tested on Dec. 24, 2010. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by:

Anderson Chiu / Deputy Manager





SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG0N2344-01	Rev. 01	Initial issue of report	Jan. 14, 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 ₁₀ (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 ₁₀ (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 ₁₀ (P[Watts])	PASS	Under limit 14.60 dB at 1669 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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1 General Description

1.1 Applicant

HTC Corporation

1F., No. 6-3, Baoqiang Rd., Xindian City, Taipei, Taiwan

1.2 Manufacturer

HTC Corporation

1F., No. 6-3, Baoqiang Rd., Xindian City, Taipei, Taiwan

1.3 Feature of Equipment Under Test

Product Feature & Specification				
Equipment	Smart Phone			
Model Name	PG32100			
FCC ID	NM8PG32100			
Tx Frequency	CDMA2000 BC0 : 824 MHz ~ 849 MHz CDMA2000 BC1 : 1850 MHz ~1910 MHz			
Rx Frequency	CDMA2000 BC0 : 869 MHz ~ 894 MHz CDMA2000 BC1 : 1930 MHz ~ 1990 MHz			
Maximum Output Power to Antenna	CDMA2000 BC0 : 24.14 dBm CDMA2000 BC1 : 24.24 dBm			
Maximum ERP/EIRP	CDMA2000 BC0 : 0.14 W (21.35 dBm) CDMA2000 BC1 : 0.25 W (23.91 dBm)			
Antenna Type	Fixed Internal Antenna			
Type of Modulation	QPSK			
Type of Emission	1M28F9W			
EUT Stage	Production Unit			

Remark

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

SPORTON INTERNATIOINAL INC.

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1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC.				
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,				
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.					
Test Site Location	TEL: +886-3-327-3456				
Toot Site No.	Sporton Site No. FCC/IC Registration No.				
Test Site No. TH02-HY 03CH05-HY 722060/4086					

Report No.: FG0N2344-01

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:

- 1. 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

Iter	n 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
2.	Earphone	Merry	RC E160	N/A	N/A	N/A

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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.

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

Note:

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

The conducted power table is as follows:

Conducted Power (*Unit: dBm)							
Band	CI	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	24.02	24.00	23.97	24.10	24.19	23.95	
1xRTT RC3+SO55	24.05	24.14	24.00	24.12	24.24	24.09	
1xRTT RC3+SO32 (FCH)	24.02	24.09	23.90	24.08	24.23	23.97	
1xRTT RC3+SO32 (SCH)	24.00	24.01	23.87	23.06	23.24	23.96	
1xEVDO RTAP 153.6K	24.13	24.13	24.05	24.19	23.23	24.05	
1xEVDO RETAP 4096K	24.09	24.13	24.10	24.11	24.23	24.12	

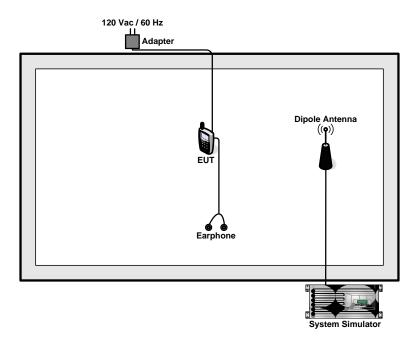
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2.2 Connection Diagram of Test System



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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.

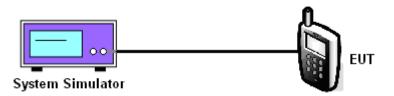
3.1.2 Measuring Instruments

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	st Mode Test Status Channel		Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)		
CDMA 2000 1xRTT	RC3+SO55	1013 (Low)	824.70	24.05	0.25		
		384 (Mid)	836.52	24.14	0.26		
		777 (High)	848.31	24.00	0.25		

CDMA2000 BC1							
Test Mode	Test Mode Test Status Channel		Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)		
CDMA 2000 1xRTT	RC3+SO55	25 (Low)	1851.25	24.12	0.26		
		600 (Mid)	1880.00	24.24	0.27		
		1175 (High)	1908.75	24.09	0.26		

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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

- 1. The EUT was placed on a turntable with 1.0 meter height in a fully anechoic chamber.
- 2. The EUT was set at 1.2 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 radiated power.
- 4. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 5. Taking the record of maximum ERP/EIRP.
- 6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. The conducted power at the terminal of the dipole antenna is measured.
- 8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 9. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AF

Es = Rs + AF

AF (dB/m): Receive antenna factor

Rt: The highest received signal in spectrum analyzer for EUT.

Rs: The highest received signal in spectrum analyzer for substitution antenna.

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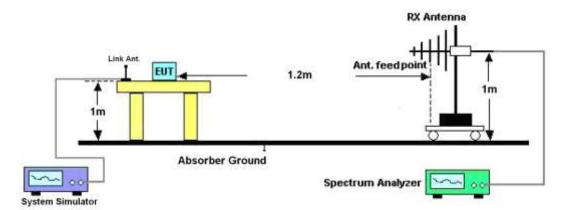
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3.2.4 Test Setup



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3.2.5 Test Result of ERP

	CDMA2000 BC0 1xRTT_RC3+SO55 Radiated Power ERP							
		Hori	zontal Polariza	ition				
Frequency	Rt	Rs	Ps	Gs	ERP	ERP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)		
824.70	-27.18	-48.12	0.00	-1.08	19.86	0.10		
836.52	-26.47	-48.28	0.00	-0.93	20.88	0.12		
848.31	-26.24	-48.35	0.00	-0.76	21.35	0.14		
		Ve	rtical Polarizati	ion				
Frequency	Rt	Rs	Ps	Gs	ERP	ERP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)		
824.70	-41.52	-47.97	0.00	-1.08	5.37	0.00		
836.52	-41.31	-48.01	0.00	-0.93	5.77	0.00		
848.31	-40.92	-48.05	0.00	-0.76	6.37	0.00		

3.2.6 Test Result of EIRP

	CDMA2000 BC1 1xRTT_RC3+SO55 Radiated Power EIRP							
		Hori	zontal Polariza	tion				
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)		
1851.25	-30.41	-51.88	0.00	1.96	23.43	0.22		
1880.00	-31.51	-52.99	0.00	2.00	23.48	0.22		
1908.75	-32.35	-54.28	0.00	1.98	23.91	0.25		
		Ve	rtical Polarizati	on				
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)		
1851.25	-34.46	-52.13	0.00	1.96	19.63	0.09		
1880.00	-35.44	-53.17	0.00	2.00	19.73	0.09		
1908.75	-36.24	-54.13	0.00	1.98	19.87	0.10		

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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.

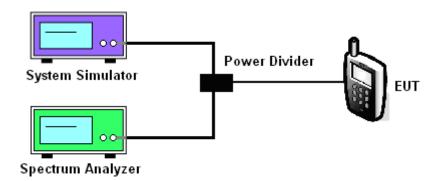
3.3.2 Measuring Instruments

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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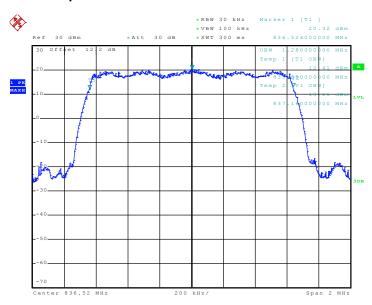


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3.3.5 Test Result (Plots) of Occupied Bandwidth

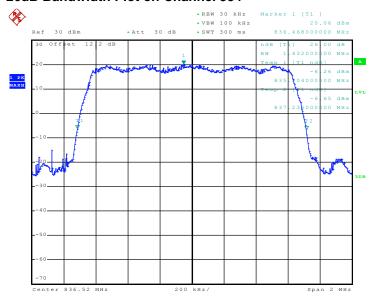
Band :	CDMA2000 BC0	Power Stage :	High
Test Mode :	1xRTT_RC3+SO55		

99% Occupied Bandwidth Plot on Channel 384



Date: 24.DEC.2010 20:43:36

26dB Bandwidth Plot on Channel 384



Date: 24.DEC.2010 20:51:00

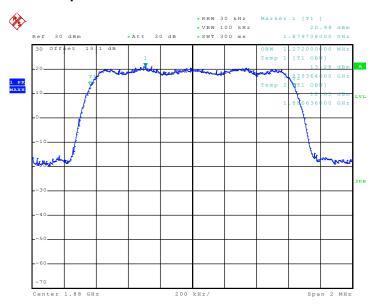
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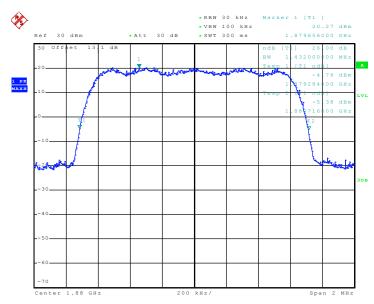
Band :	CDMA2000 BC1	A2000 BC1 Power Stage :	
Test Mode :	1xRTT_RC3+SO55		

99% Occupied Bandwidth Plot on Channel 600



Date: 24.DEC.2010 22:24:29

26dB Bandwidth Plot on Channel 600



Date: 24.DEC.2010 22:07:22

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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.

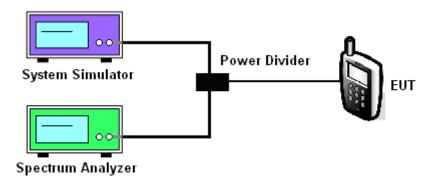
3.4.2 Measuring Instruments

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.
- 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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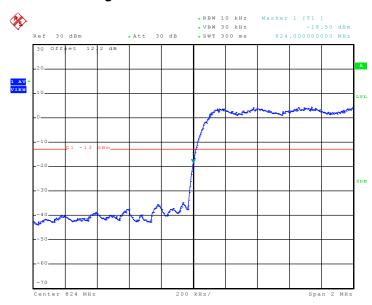


Report No.: FG0N2344-01

3.4.5 Test Result (Plots) of Conducted Band Edge

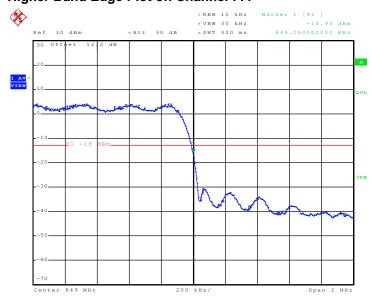
Band :	CDMA2000 BC0	Power Stage :	High
Test Mode :	1xRTT_RC3+SO55		

Lower Band Edge Plot on Channel 1013



Date: 24.DEC.2010 20:57:40

Higher Band Edge Plot on Channel 777



Date: 24.DEC.2010 20:54:50

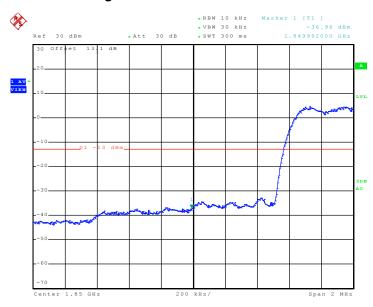
SPORTON INTERNATIONAL INC.

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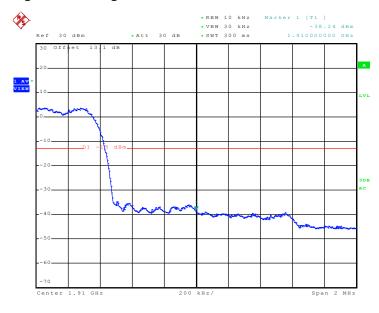
Band :	CDMA2000 BC1	A2000 BC1 Power Stage :	
Test Mode :	1xRTT_RC3+SO55		

Lower Band Edge Plot on Channel 25



Date: 24.DEC.2010 14:50:23

Higher Band Edge Plot on Channel 1175



Date: 24.DEC.2010 14:43:59

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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 10th harmonic.

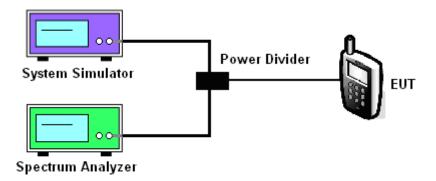
3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

- 1. 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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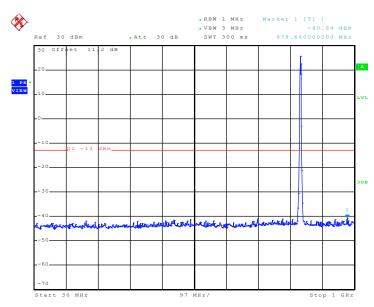


Report No.: FG0N2344-01

3.5.5 **Test Result (Plots) of Conducted Emission**

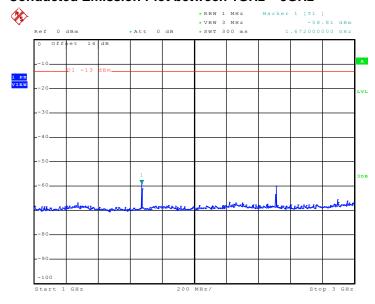
Band :	CDMA2000 BC0	Power Stage :	High
Test Mode :	1xRTT_RC3+SO55		

Conducted Emission Plot between 30MHz ~ 1GHz



Date: 24.DEC.2010 21:18:55

Conducted Emission Plot between 1GHz ~ 3GHz



Date: 24.DEC.2010 21:14:27

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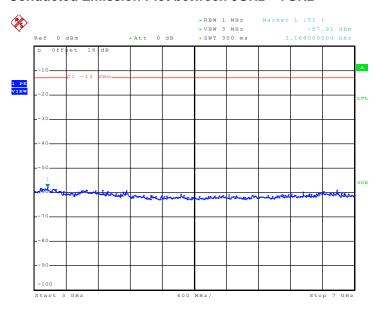
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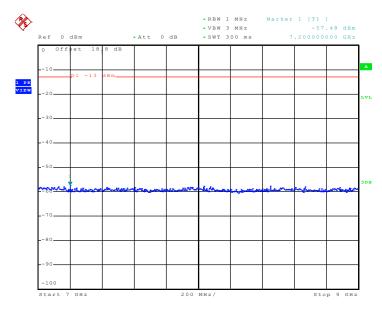
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Conducted Emission Plot between 3GHz ~ 7GHz



Date: 24.DEC.2010 21:16:20

Conducted Emission Plot between 7GHz ~ 9GHz



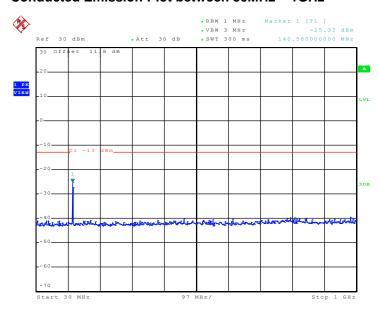
Date: 24.DEC.2010 21:17:13

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: NM8PG32100 Page Number : 22 of 37
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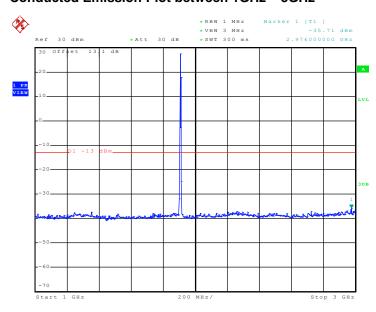
Band :	CDMA2000 BC1	A2000 BC1 Power Stage :	
Test Mode :	1xRTT_RC3+SO55		

Conducted Emission Plot between 30MHz ~ 1GHz



Date: 24.DEC.2010 22:19:03

Conducted Emission Plot between 1GHz ~ 3GHz



Date: 24.DEC.2010 22:12:36

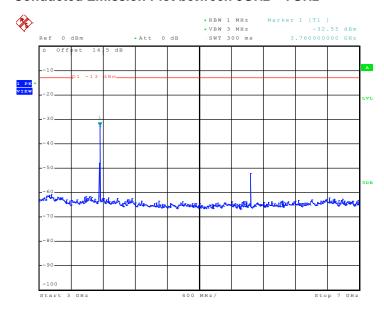
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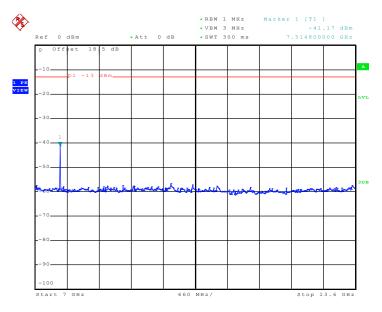
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Conducted Emission Plot between 3GHz ~ 7GHz



Date: 24.DEC.2010 22:14:26

Conducted Emission Plot between 7GHz ~ 13.6GHz



Date: 24.DEC.2010 22:16:32

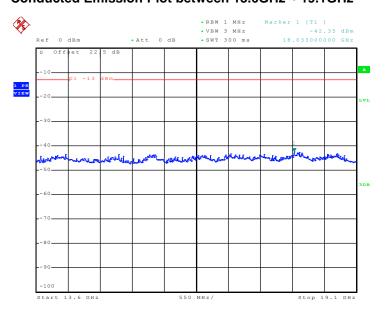
SPORTON INTERNATIOINAL INC.

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Conducted Emission Plot between 13.6GHz ~ 19.1GHz



Date: 24.DEC.2010 22:17:32

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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+10log₁₀(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.

Test Procedures 3.6.3

- 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.
- The table was rotated 360 degrees to determine the position of the highest spurious emission. 3.
- 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.
- Repeat step 7 to step 8 for another polarization. 9.
- EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- ERP (dBm) = EIRP 2.15

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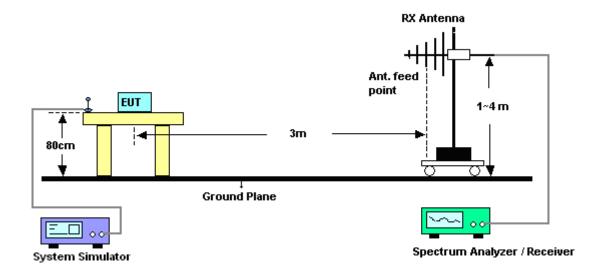
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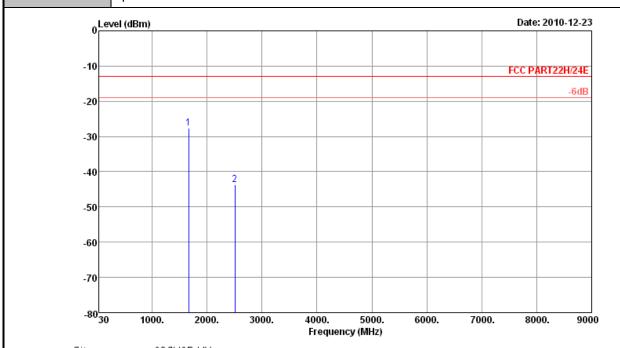
3.6.4 Test Setup



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3.6.5 Test Result of Field Strength of Spurious Radiated

Band :	CDMA2000 BC0	Temperature :	20~22°C	
Test Mode :	1xRTT_RC3+SO55	Relative Humidity :	47~51%	
Test Engineer :	Cona Huang	Polarization :	Horizontal	
Remark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit line			



Site : 03CH05-HY

Condition : FCC PART22H/24E HF_EIRP_101221 HORIZONTAL

Project : FG 0N2344-01

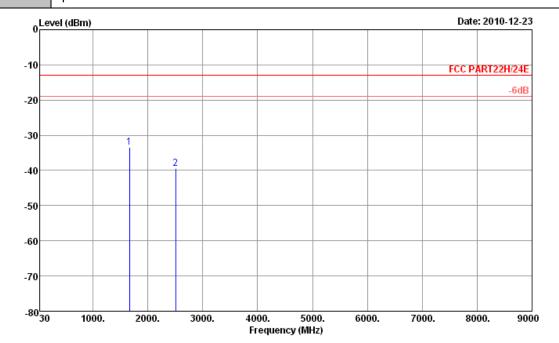
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1669	-27.60	-13	-14.60	-35.27	-28.79	2.15	5.49	Н	Pass
2509	-43.78	-13	-30.78	-54.9	-45.67	2.38	6.41	Н	Pass

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FCC RF Test Report

Band :	CDMA2000 BC0	Temperature :	20~22°C			
Test Mode :	1xRTT_RC3+SO55	Relative Humidity :	47~51%			
Test Engineer :	Cona Huang	Polarization :	Vertical			
Remark :	purious emissions within 30-1000MHz were found more than 20dB below limit line					



Site : 03CH05-HY

Condition : FCC PART22H/24E HF_EIRP_101221 VERTICAL

Project : FG 0N2344-01

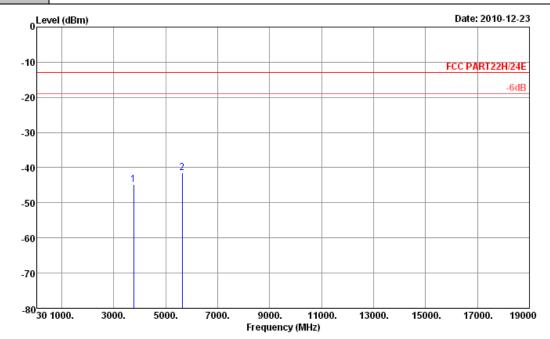
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1669	-33.44	-13	-20.44	-41.11	-34.63	2.15	5.49	V	Pass
2509	-39.39	-13	-26.39	-50.51	-41.28	2.38	6.41	V	Pass

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FCC RF Test Report

Band :	CDMA2000 BC1	Temperature :	20~22°C			
Test Mode :	1xRTT_RC3+SO55	Relative Humidity :	47~51%			
Test Engineer :	Cona Huang	Polarization :	Horizontal			
Remark ·	purious emissions within 30-1000MHz were found more than 20dB below limit line					



Site : 03CH05-HY

Condition : FCC PART22H/24E HF_EIRP_101221 HORIZONTAL

Project : FG 0N2344-01

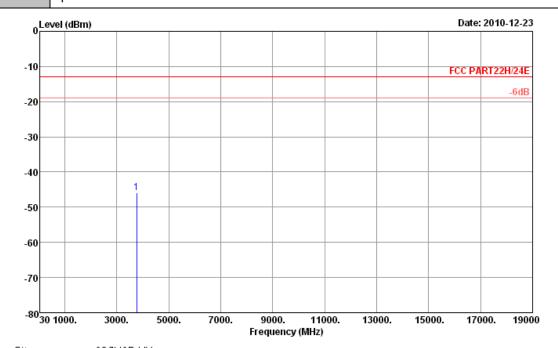
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-44.72	-13	-31.72	-59.9	-50.85	2.93	9.06	Н	Pass
5636	-41.44	-13	-28.44	-62.09	-48.36	3.91	10.83	Н	Pass

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FCC RF Test Report

Band :	CDMA2000 BC1	Temperature :	20~22°C				
Test Mode :	1xRTT_RC3+SO55	Relative Humidity :	47~51%				
Test Engineer :	Cona Huang	Polarization :	Vertical				
Remark :	purious emissions within 30-1000MHz were found more than 20dB below limit line						



Site : 03CH05-HY

Condition : FCC PART22H/24E HF_EIRP_101221 VERTICAL

Project : FG 0N2344-01

ı	Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
١				Limit	Reading	Power	loss	Gain		
-1	(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
	(= /	(42)	(("- /	(==:::)	(==)	(== /	()	(, -)	

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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

1. 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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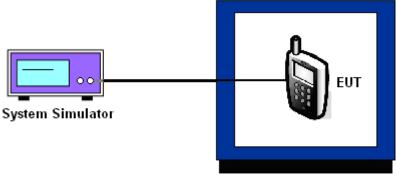
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3.7.5 Test Setup



Thermal Chamber

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3.7.6 Test Result of Temperature Variation

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

Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	33	0.04	
-20	34	0.04	
-10	28	0.03	
0	-26	-0.03	
10	-35	-0.04	DACC
20	26	0.03	PASS
30	27	0.03	
40	-39	-0.05	
50	39	0.05	
60	37	0.04	

Band:	CDMA2000 BC1		600
Test Mode :	1xRTT_RC3+SO55	Limit (ppm):	2.5

Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-33	-0.02	
-20	-16	-0.01	
-10	-27	-0.01	
0	14	0.01	
10	19	0.01	PASS
20	27	0.01	PASS
30	23	0.01	
40	-35	-0.02	
50	20	0.01	
60	20	0.01	

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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
		3.8	-33	-0.04		
CDMA2000 BC0 CH384	1xRTT RC3+SO55	BEP	-34	-0.04	2.5	PASS
01.001		4.2	35	0.04		
		3.8	-21	-0.01		
CDMA2000 BC1 CH600	1xRTT RC3+SO55	BEP	26	0.01	2.5	PASS
		4.2	31	0.02		

Note:

- 1. Normal Voltage = 3.8V.
- 2. Battery End Point (BEP) = 3.6 V.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
System Simulator	R&S	CMU200	117995	N/A	Mar. 19, 2009	Mar. 18, 2011	Conducted (TH02-HY)
Spectrum Analyzer	R&S	FSP30	101329	9kHz~30GHz	Apr. 26, 2010	Apr. 25, 2011	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D35P	TBN-930701	N/A	Jul. 30,2010	Jul. 29, 2011	Conducted (TH02-HY)
Spectrum Analyzer	R&S	FSP30	101352	9KHz-40GHz	Nov. 03, 2010	Nov. 02, 2011	Radiation (03CH05-HY)
Amplifier	COM-POWER	PA-103	161069	1KHz - 1GHz	Mar. 29, 2010	Mar. 28, 2011	Radiation (03CH05-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2725	30MHz ~ 1GHz	Nov. 06, 2010	Nov. 05, 2011	Radiation (03CH05-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	15GHz- 40GHz	Oct. 18, 2010	Oct. 17, 2011	Radiation (03CH05-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1GHz- 26.5GHz	Apr. 15, 2010	Apr. 14, 2011	Radiation (03CH05-HY)
Turn Table	HD	Deis HD 2000	420/611	0 - 360 degree	N/A	N/A	Radiation (03CH05-HY)
Antenna Mast	HD	MA 240	240/666	1 m - 4 m	N/A	N/A	Radiation (03CH05-HY)
Horn Antenna	ESCO	3117	00066584	1GHz ~ 18GHz	Aug. 05, 2010	Aug. 04, 2011	Radiation (03CH05-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz~30 MHz	Jul. 29, 2010	Jul. 28, 2011	Radiation (03CH05-HY)
System Simulator	R&S	CMU200	117995	N/A	Mar. 19, 2009	Mar. 18, 2011	Radiation (03CH05-HY)

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5 Uncertainty of Evaluation

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

Contribution	Uncerta			
	dB	Probability Distribution	u(X _i)	
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)

Contribution	Uncertainty of X _i					
	dB	Probability Distribution	u(X _i)	C _i	C _i * u(X _i)	
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 Γ 1 = 0.197 Antenna VSWR Γ 2 = 0.194 Uncertainty = 20Log(1- Γ 1* Γ 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					

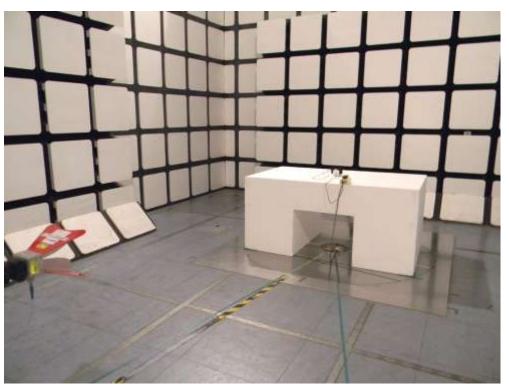
SPORTON INTERNATIOINAL INC.

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Appendix A. Setup Photographs

<Radiated Emission>



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