

HCT CO., LTD.

CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name: Pantech Co., Ltd. Address:		Date of Issue: August 14, 2012 Test Site/Location: HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon,
Pantech Bldg, I-2, DMC, San	gam-dong, Mapo-gu,	Icheon-si, Kyunggi-Do, Korea
Seoul, 121-792, Korea		Report No.: HCTR1208FR14
		HCT FRN: 0005866421
FCC ID	: JYCCDMAPTL21	
APPLICANT	: Pantech Co., Ltd	I.
FCC Model(s):	CDMA PTL21	
EUT Type:	GSM/WCDMA/CDMA Phor	ne with Bluetooth/WLAN/NFC
Tx Frequency:	824.70 — 848.31 MHz (CD	MA)
Rx Frequency:	869.70 — 893.31 MHz (CD	MA)
Max. RF Output Power:	0.218 W ERP CDMA (23.3	8 dBm)/ 0.248 W CDMA EVDO (23.94 dBm)
Emission Designator(s):	1M27F9W (CDMA)/ 1M27F	9W (CDMA EVDO)
FCC Classification:	Licensed Non-Broadcast T	RANSMITTER Held to Ear (TNE)
FCC Rule Part(s):	§22, §2	

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. **HCT CO., LTD.** Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

Report prepared by : Jae Chul Shin Test engineer of RF Team

Approved by : Chang Seok Choi Manager of RF Team

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HCTR1208FR14	August 14, 2012	EUT Type: GSM/WCDMA/CDMA Phone with Bluetooth/WLAN/NFC	JYCCDMAPTL21



<u>Version</u>

TEST REPORT NO.	DATE	DESCRIPTION
HCTR1208FR14	August 14, 2012	- First Approval Report

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	Pantech Co., Ltd.
Address:	Pantech Bldg, I-2, DMC, Sangam-dong, Mapo-gu, Seoul, 121-792, Korea
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Application Type:	Certification
FCC Classification:	Licensed Non-Broadcast TRANSMITTER Held to Ear (TNE)
FCC Rule Part(s):	§22, §2
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FCC Model(s):	CDMA PTL21
Tx Frequency:	824.70 — 848.31 MHz (CDMA)
Rx Frequency:	869.70 — 893.31 MHz (CDMA)
Max. RF Output Power:	0.218 W ERP CDMA (23.38 dBm)/ 0.248 W CDMA EVDO (23.94 dBm)
Emission Designator(s):	1M27F9W (CDMA)/ 1M27F9W (CDMA EVDO)
Date(s) of Tests:	July 13, 2012 ~ August 10, 2012
Antenna Specification	Manufacturer: ARRO CO.LTD
	Antenna type: INTERNAL Antenna
	Peak Gain: -0.65 dBi

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2. INTRODUCTION

2.1. EUT DESCRIPTION

The CDMA PTL21 GSM/WCDMA/CDMA Phone with Bluetooth/WLAN/NFC consists of Cellular CDMA, 1xRTT and EVDO Rev.0,A.

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 105-1, Jangam-ri, Majang-Myeon, Icheon-si, Kyunggi-Do, 467-811, Korea. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated March 02, 2011 (Registration Number: 90661)

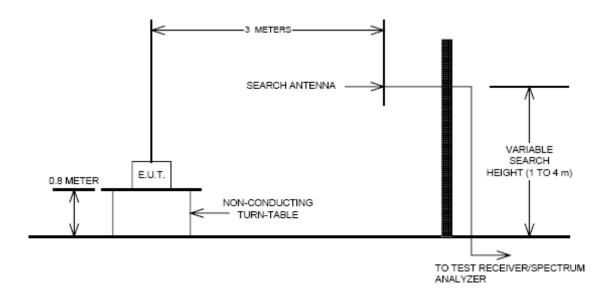
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3. DESCRIPTION OF TESTS

3.1 EFFECTIVE RADIATED POWER/EQUIVALENT ISOTROPIC RADIATED POWER

Test Set-up



Test Procedure

emission measurements were performed at an Fully-anechoic chamber.

The equipment under test is placed on a non-conductive table 3-meters from the receive antenna. A turntable was rotated 360° and the receiving antenna scanned from 1-4m in order to capture the maximum emission. A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the previously recorded signal was duplicated.

The maximum EIRP was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried out with the receiving antenna in both vertical and horizontal polarization. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration

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3.2 PEAK- TO- AVERAGE RATIO

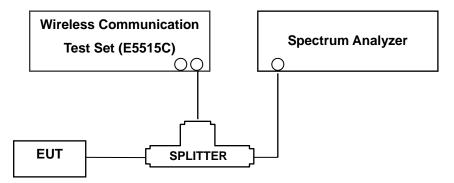
A peak to average ratio measurement is performed at the conducted port of the EUT. For CDMA and WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. Plots of the EUT's Peak- to- Average Ratio are shown herein.

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3.3 OCCUPIED BANDWIDTH.

Test set-up



(Configuration of conducted Emission measurement)

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

Test Procedure

The EUT makes a call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels(low, middle and high operational range.)

The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

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3.4 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.

Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer.

The EUT was setup to maximum output power at its lowest channel. The Resolution BW of the analyzer is set to < 1 % of the emission bandwidth to show compliance with the – 13 dBm limit, in the 1 MHz bands immediately outside and adjacent to the edge of the frequency block. The 1 MHz RBW was used to scan from 10 MHz to 10 GHz. (GSM1900 Mode: 10 MHz to 20 GHz). A display line was placed at – 13 dBm to show compliance. The high, lowest and a middle channel were tested for out of band measurements.

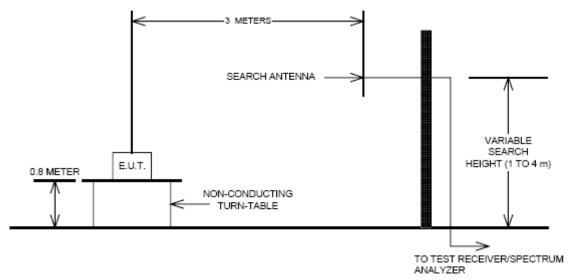
- Band Edge Requirement : In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

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3.5 RADIATED SPURIOUS AND HARMOMIC EMISSIONS

Test Set-up



The measurement facilities used for this test have been documented in previous filings with the commission pursuant to section § 2.948. The Fully-anechoic chamber meets requirements in ANSI C63.4 –2003. A mast capable of lifting the receiving antenna from a height of one to four meters is used together with a rotatable platform mounted at three from the antenna mast.

- 1) The unit mounted on a turntable 1.5 m × 1.0 m × 0.80 m is 0.8 meter above test site ground level.
- 2) During the emission test, the turntable is rotated and the EUT is manipulated to find the configuration resulting in maximum emission under normal condition of installation and operation.
- 3) The antenna height and polarization are also varied from 1 to 4 meters until the maximum signal is found.
- 4) The spectrum shall be scanned up to the 10th harmonic of the fundamental frequency.

Test Procedure

The equipment under test is placed on a non-conductive table 3-meters from the receive antenna. A turntable was rotated 360° and the receiving antenna scanned from 1-4m in order to capture the maximum emission. A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the previously recorded signal was duplicated.

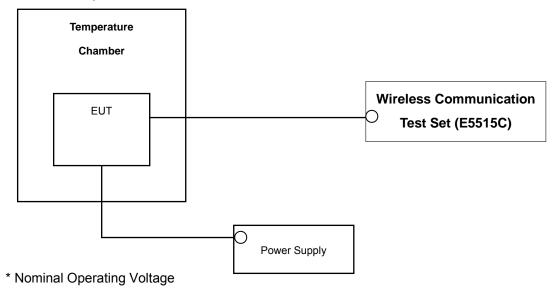
The maximum EIRP was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried out with the receiving antenna in both vertical and horizontal polarization. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.

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3.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

Test Set-up



Test Procedure

The frequency stability of the transmitter is measured by:

a.) **Temperature:** The temperature is varied from - 30 °C to + 50 °C using an environmental chamber.

b.) **Primary Supply Voltage:** The primary supply voltage is varied from battery end point to 115 % of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification — the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within \pm 0.000 25 %(\pm 2.5 ppm) of the center frequency.

Time Period and Procedure:

The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference). 1. The equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.

2. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one halfhour is provided to allow stabilization of the equipment at each temperature level. **NOTE: The EUT is tested down to the battery endpoint.**

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4. LIST OF TEST EQUIPMENT

Manufacture	Model/ Equipment	Serial Number	Calibration Interval	Calibration Due
Agilent	N9020A	MY51110020	Annual	09/23/2012
Agilent	E9327A/ Power Sensor	MY4442009	Annual	05/02/2013
R&S	CMW500/ Base Station	1201.0002K50_116858	Annual	01/17/2013
MITEQ	AMF-6D-001180-35-20P/AMP	1081666	Annual	09/24/2012
Wainwright	WHK1.2/15G-10EF/H.P.F	2	Annual	05/02/2013
Wainwright	WHK3.3/18G-10EF/H.P.F	1	Annual	05/02/2013
Hewlett Packard	11667B / Power Splitter	10126	Annual	11/04/2012
Digital	EP-3010/ Power Supply	3110117	Annual	11/07/2012
Schwarzbeck	UHAP/ Dipole Antenna	557	Biennial	03/11/2013
Schwarzbeck	UHAP/ Dipole Antenna	558	Biennial	03/11/2013
Korea Engineering	KR-1005L / Chamber	KRAB05063-3CH	Annual	11/07/2012
Schwarzbeck	BBHA 9120D/ Horn Antenna	296	Biennial	02/20/2014
Agilent	E4440A/Spectrum Analyzer	US45303008	Annual	05/02/2013
WEINSCHEL	ATTENUATOR	BR0592	Annual	11/07/2012
REOHDE&SCHWARZ	FSP30/Spectrum Analyzer	839117/011	Annual	02/09/2013
Agilent	8960 (E5515C)/ Base Station	GB44400269	Annual	02/10/2013

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5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result
2.1049, 22.917(a)	Occupied Bandwidth	N/A		PASS
2.1051, 22.917(a)	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	< 43 + 10log ₁₀ (P[Watts]) at Band Edge and for all out-of-band emissions	CONDUCTED	PASS
2.1046	Conducted Output Power	N/A		PASS
2.1055, 22.355	Frequency stability / variation of ambient temperature	< 2.5 ppm		PASS
22.913(a)(2)	Effective Radiated Power	< 7 Watts max. ERP	RADIATED	PASS
2.1053, 22.917(a)	Radiated Spurious and Harmonic< 43 + 10log10 (P[Watts]) for all out-of band emissions			PASS

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6. SAMPLE CALCULATION

A. ERP Sample Calculation

Mode	Ch./ Freq.		Measured	Substitude Ant. Gain		C.L	Pol.	EF	RP
Mode	channel	Freq.(MHz)	Level(dBm)	LEVEL(dBm)	Ant. Gain	U.L	FOI.	w	dBm
CDMA	384	836.52	-10.96	24.81	2.50	1.19	Н	0.41	26.12

ERP = SubstitudeLEVEL(dBm) + Ant. Gain – CL(Cable Loss)

1) The EUT mounted on a non-conductive tuntable is 0.8 meter above test site ground level.

2) During the test, the turn table is rotated and the antenna height is also varied from 1 to 4 meters until the maximum signal is found.

3) Record the field strength meter's level.

4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.

5) Increase the signal generator output till the field strength meter's level is equal to the item (3).

6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power (**ERP**).

B. Emission Designator CDMA Emission Designator

Emission Designator = 1M27F9W

CDMA BW = 1.27 MHz (Measured at the 99% power bandwidth)

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

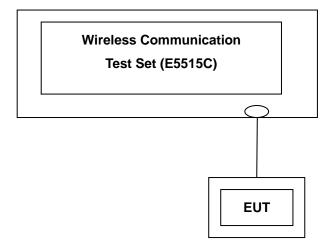
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7. TEST DATA

7.1 CONDUCTED OUTPUT POWER

A base station simulator was used to establish communication with The EUT. The base station simulator parameters were set to produce the maximum power from the EUT. This device was tested under all configurations and the highest power is reported. Conducted Output Powers of EUT are reported below.



David	Ohamaal	SO2	SO2	SO55	SO55	TDSO SO32	1xEvDO Rev.O	1xEvDO Rev.O	1xEvDO Rev.1	1xEvDO Rev.1
Band	Channel	RC1/1 (dBm)	RC3/3 (dBm)	RC1/1 (dBm)	RC3/3 (dBm)	RC3/3 (dBm)	(FTAP)	(RTAP)	(FETAP)	(RETAP)
	1013	23.94	23.91	23.95	23.94	23.90	23.87	23.93	23.88	23.85
CDMA	384	23.92	23.90	23.98	23.91	23.89	23.85	23.87	23.87	23.82
	777	23.85	23.82	23.91	23.84	23.83	23.83	23.80	23.73	23.80

(Maximum Conducted Output Powers)

Note : Detecting mode is average.

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7.2 OCCUPIED BANDWIDTH

Band	Channel	Frequency(MHz)	Data (MHz)
	1013	824.70	1.2688
CDMA	384	836.52	1.2696
	777	848.31	1.2724
CDMA EVDO	777	848.31	1.2731

- Plots of the EUT's Occupied Bandwidth are shown Page 21 ~ 22.

7.3 CONDUCTED SPURIOUS EMISSIONS

Band	Channel	Frequency of Maximum Harmonic (GHz)	Maximum Data (dBm)
	1013	7.0875	-38.12
CDMA	384	1.6730	-36.60
	777	7.0250	-38.16

- Plots of the EUT's Conducted Spurious Emissions are shown Page 27 ~ 29.

7.3.1 Band Edge

- Plots of the EUT's Band Edge are shown Page 23 ~ 26.

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7.4 EFFECTIVE RADIATED POWER OUTPUT

(CDMA Mode)

	Ch.	/ Freq.	Measured	Substitude	Ant.			EF	۲P
Mode channel	Freq.(MHz)	Level(dBm)	LEVEL (dBm)	Gain	C.L	Pol.	W	dBm	
	1013	824.70	-13.37	35.53	-10.54	1.61	V	0.218	23.38
CDMA	384	836.52	-13.40	35.52	-10.50	1.67	V	0.216	23.35
	777	848.31	-14.39	34.67	-10.47	1.64	V	0.180	22.56
	1013	824.70	-12.94	35.96	-10.54	1.61	V	0.240	23.81
EVDO	384	836.52	-12.81	36.11	-10.50	1.67	V	0.248	23.94
	777	848.31	-14.02	35.04	-10.47	1.64	V	0.196	22.93

Note: Standard batteries are the only options for this phone. And a peak detector is used.

NOTES:

Effective Radiated Power Output Measurements by Substitution Method

according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a non-conductive styrofoam resin table table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

This device was tested under all configurations and the highest power is reported. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. The worst case of the EUT is in y plane in CDMA mode. Also worst case of detecting Antenna is in vertical polarization in CDMA mode.

The EVDO mode testing were performed using RETAP on Rev.A because RETAP on Rev.A is highest power in EVDO mode.

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7.5 RADIATED SPURIOUS EMISSIONS 7.5.1 RADIATED SPURIOUS EMISSIONS (CDMA Mode)

- MEASURED OUTPUT POWER: _____23.94 dBm = 0.248 W
- MODULATION SIGNAL:
 CDMA EVDO Mode

DISTANCE:

- 3 meters
- LIMIT: (43 + 10 log10 (W)) = <u>-36.94 dBc</u>

Ch.	Freq.(MHz)	Measured Level	Ant. Gain	<u>Substitute</u> Level [dBm]	C.L	Pol.	ERP (dBm)	dBc
	1,649.40	-51.03	9.69	-60.32	1.71	V	-52.34	-76.28
1013	2,474.10	-45.15	10.56	-50.99	2.08	V	-42.51	-66.45
	3,298.80	-54.97	11.84	-61.11	2.45	V	-51.72	-75.66
	1,673.04	-47.18	9.82	-56.79	1.74	Н	-48.71	-72.65
384	2,509.56	-46.55	10.57	-52.52	2.11	V	-44.06	-68.00
	3,346.08	-55.05	11.96	-61.71	2.48	Н	-52.23	-76.17
	1,696.62	-46.38	10.01	-55.80	1.70	V	-47.49	-71.43
777	2,544.93	-44.54	10.60	-50.32	2.13	V	-41.85	-65.79
	3,393.24	-54.19	12.09	-60.81	2.53	Н	-51.25	-75.19

 NOTES: <u>1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method</u> according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:
 2. The magnitude of enurious emissions attenuated more than 20dR below the limit above 5th Harmonia for

2. The magnitude of spurious emissions attenuated more than 20dB below the limit above 5th Harmonic for <u>all channel.</u>

3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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7.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE 7.6.1 FREQUENCY STABILITY (CDMA)

- OPERATING FREQUENCY: 836,520,000 Hz
- CHANNEL:

_____384_

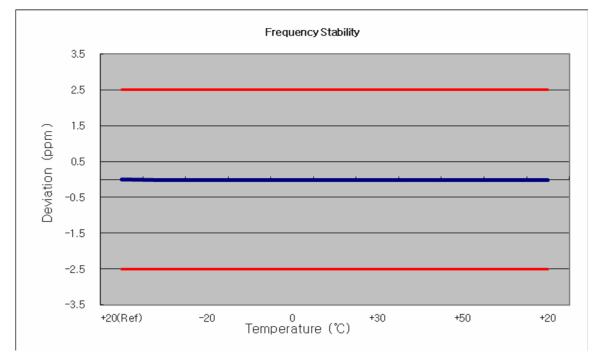
REFERENCE VOLTAGE:

■DEVIATION LIM IT:

± 0.000 25 % or 2.5 ppm

3.7 VDC

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	836 520 009	0	0.000 000	0.000
100%		-30	836 519 990	-18.36	-0.000 002	-0.022
100%		-20	836 519 997	-12.19	-0.000 001	-0.015
100%		-10	836 519 992	-16.61	-0.000 002	-0.020
100%	3.700	0	836 519 992	-16.97	-0.000 002	-0.020
100%		+10	836 519 992	-17.10	-0.000 002	-0.020
100%		+30	836 519 990	-18.66	-0.000 002	-0.022
100%		+40	836 519 996	-13.18	-0.000 002	-0.016
100%		+50	836 519 998	-10.49	-0.000 001	-0.013
115%	4.255	+20	836 519 991	-17.79	-0.000 002	-0.021
Batt. Endpoint	3.400	+20	836 519 996	-12.78	-0.000 002	-0.015



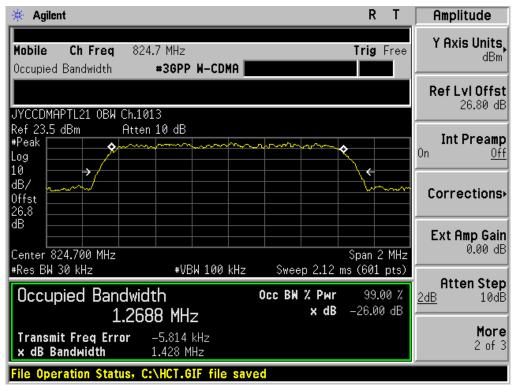
FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:		FCC ID:	
HCTR1208FR14	August 14, 2012	EUT Type: GSM/WCDMA/CDMA Phone with Bluetooth/WLAN/NFC	JYCCDMAPTL21	



8. TEST PLOTS

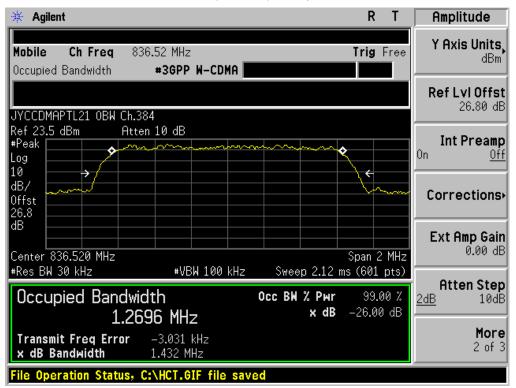
Test Report No. Date of Issue: EUT Type: GSM/WCDMA/CDMA Phone with Bluetooth/WLAN/NFC	FCC CERTIFICATION REPORT				
EUT Type: GSM/WCDMA/CDMA Phone with Bluetooth/WLAN/NFC	Test Report No.	Date of Issue:		FCC ID:	
HCTR1208FR14 August 14, 2012 JYCCDMAP1L2	HCTR1208FR14	August 14, 2012	EUT Type: GSM/WCDMA/CDMA Phone with Bluetooth/WLAW/NFC	JYCCDMAPTL21	





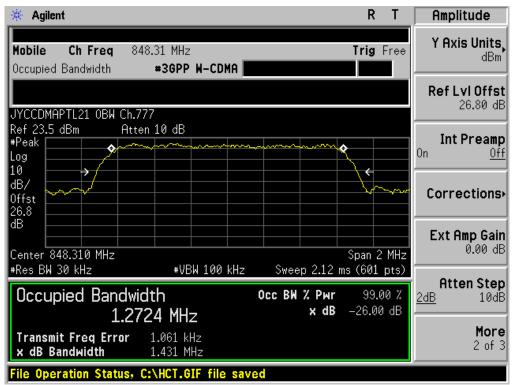
■ CDMA MODE (1013 CH.) Occupied Bandwidth

■ CDMA MODE (384 CH.) Occupied Bandwidth



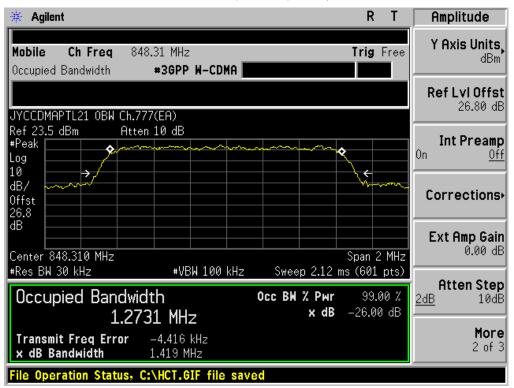
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Test Report No. HCTR1208FR14	Date of Issue: August 14, 2012	EUT Type: GSM/WCDMA/CDMA Phone with Bluetooth/WLAN/NFC	FCC ID: JYCCDMAPTL21		
		Bage 2 1 of 20			





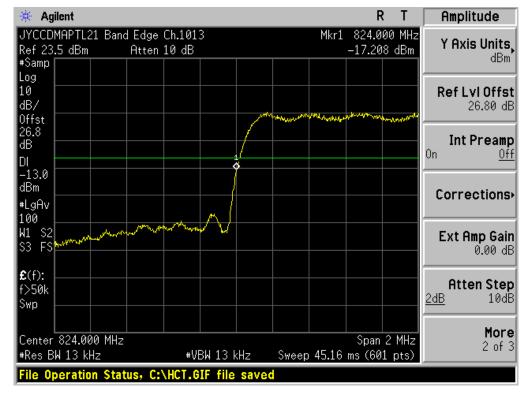
■ CDMA MODE (777 CH.) Occupied Bandwidth

■ CDMA EVDO MODE (777 CH.) Occupied Bandwidth



FCC CERTIFICATION REPORT				
Test Report No. HCTR1208FR14	Date of Issue: August 14, 2012	EUT Type: GSM/WCDMA/CDMA Phone with Bluetooth/WLAN/NFC	FCC ID: JYCCDMAPTL21	
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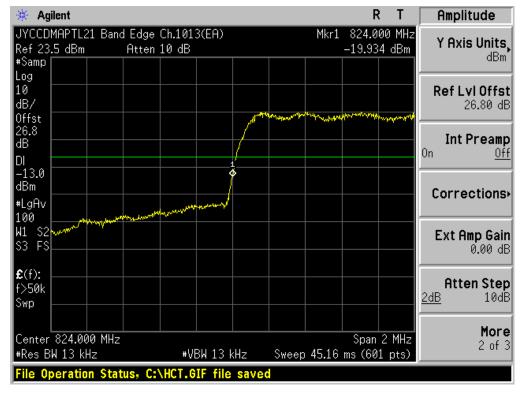
CDMA MODE (1013 CH.) Block Edge

■ CDMA MODE (777 CH.) Block Edge



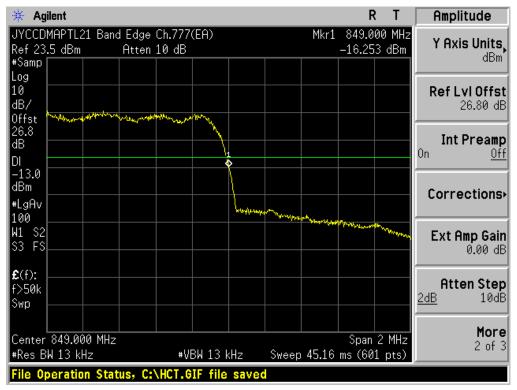
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Test Report No.	Date of Issue:		FCC ID:	
HCTR1208FR14	August 14, 2012	EUT Type: GSM/WCDMA/CDMA Phone with Bluetooth/WLAN/NFC	JYCCDMAPTL21	
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■ CDMA EVDO MODE (1013 CH.) Block Edge

CDMA EVDO MODE (777 CH.) Block Edge



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	August 14, 2012	Page 2.4 of 20	JYCCDMAPTL21





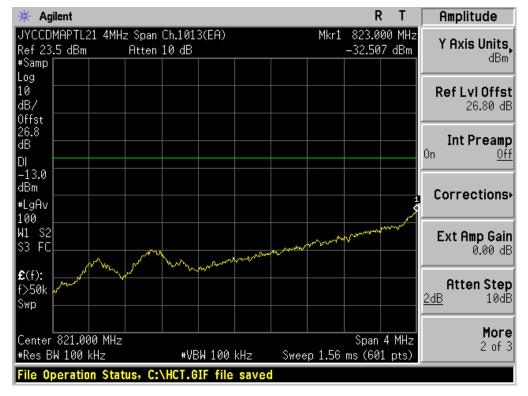
CDMA MODE (1013 CH.) 4 MHz Span

CDMA MODE (777 CH.) 4 MHz Span



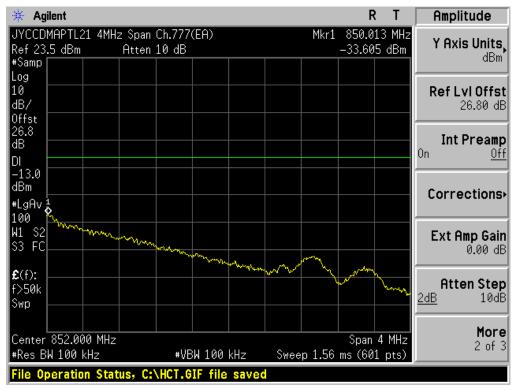
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.		EUT Type: GSM/WCDMA/CDMA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1208FR14			JYCCDMAPTL21





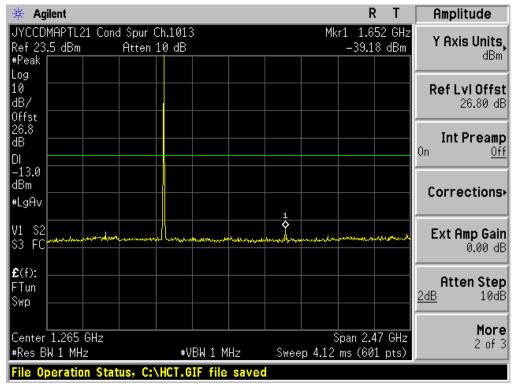
CDMA EVDO MODE (1013 CH.) 4 MHz Span

CDMA EVDO MODE (777 CH.) 4 MHz Span



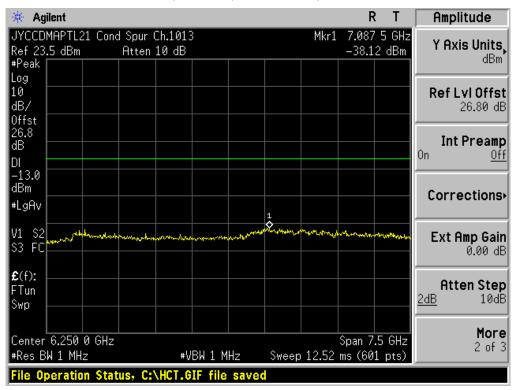
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: GSM/WCDMA/CDMA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1208FR14	August 14, 2012		JYCCDMAPTL21





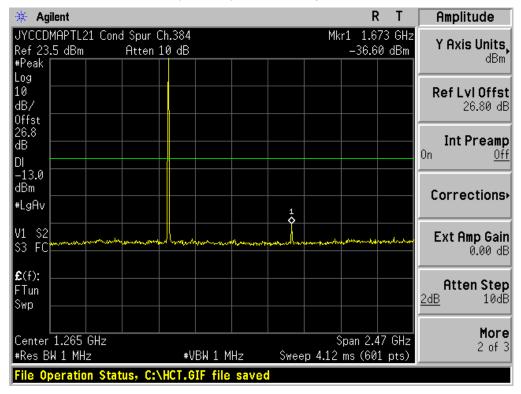
■ CDMA MODE (1013 CH.) Conducted Spurious Emissions - 1

CDMA MODE (1013 CH.) Conducted Spurious Emissions - 2



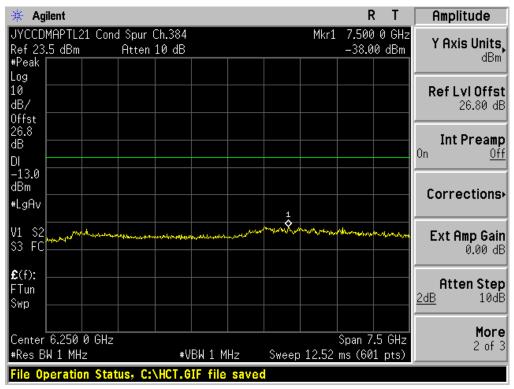
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue: EUT Type: GSM/WCDMA/CDMA PI August 14, 2012 August 14, 2012	EUT Type: GSM/WCDMA/CDMA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1208FR14		LOT Type. GSW/WCDWA/CDWA Phone with Bidetooth/WLAN/NPC	JYCCDMAPTL21





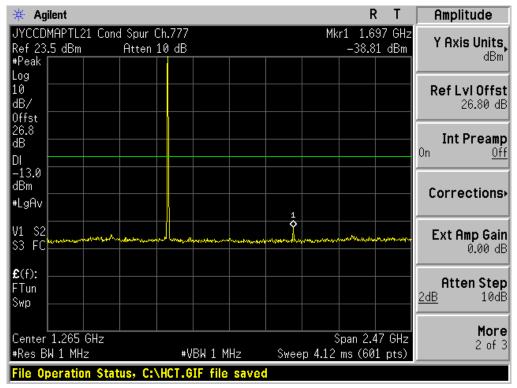
CDMA MODE (384 CH.) Conducted Spurious Emissions - 1

■ CDMA MODE (384 CH.) Conducted Spurious Emissions - 2



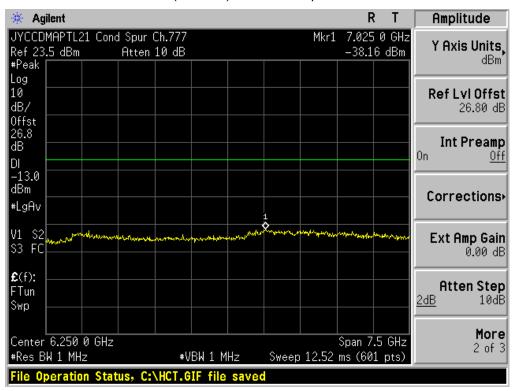
FCC CERTIFICATION REPORT			www.hct.co.kr
	Date of Issue:	EUT Type: GSM/WCDMA/CDMA Phone with Bluetooth/WLAN/NFC	FCC ID:
	August 14, 2012		JYCCDMAPTL21





■ CDMA MODE (777 CH.) Conducted Spurious Emissions - 1

CDMA MODE (777 CH.) Conducted Spurious Emissions - 2



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Test Report No.	Date of Issue:	EUT Type: GSM/WCDMA/CDMA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1208FR14	August 14, 2012		JYCCDMAPTL21
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