

## HCT CO., LTD.

**Product Compliance Division** 

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### **FCC Certification**

Applicant Name: Franklin Technology Inc. Address: 1505 Digital Tower Aston, 505-15 Gasan-dong, Gumcheon-gu, Seoul, Korea Date of Issue: November 02, 2010 Location: HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon, Icheon-si, Kyunggi-Do, Korea(Lab) Test Report No.: HCTR1010FR14-2 HCT FRN: 0005866421

IC Recognition No.: IC 5944A-2

## FCC ID

## : XHG-M600

## APPLICANT : Franklin Technology Inc.

Model(s):	M600
EUT Type:	3G 4G Module
Tx Frequency:	824.70 — 848.31 MHz (CDMA) 1 851.25 — 1 908.75 MHz (PCS CDMA)
Rx Frequency:	869.70 — 893.31 MHz (CDMA) 1 931.25 — 1 988.75 MHz (PCS CDMA)
Max. Conducted Power:	0.267 W CDMA (24.27 dBm) / 0.260 W PCS CDMA (24.16 dBm)/ 0.269 W CDMA EVDO (24.31 dBm) / 0.260 W PCS EVDO (24.15 dBm)
Emission Designator(s):	1M28F9W (CDMA) / 1M29F9W (PCS CDMA) 1M28F9W (CDMA EVDO), 1M29F9W (PCS CDMA EVDO)
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§22, §24, §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 prépared by : Hyo Sun Kwak Test engineer of RF Team

Approved by : Sang Jun Lee Manager of RF Team

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FCC ID: XHG-M600



# **Version**

TEST REPORT NO.	DATE	DESCRIPTION
HCTR1010FR14	October 19, 2010	First Approval Report
HCTR1010FR14-1	October 29, 2010	Change the test site description
HCTR1010FR14-2	November 02, 2010	Delete ERP/ EIRP Test

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600
	,		



# **Table of Contents**

1. GENERAL INFORMATION	. 4	
2. INTRODUCTION	. 5	
2.1. EUT DESCRIPTION	. 5	
2.2. MEASURING INSTRUMENT CALIBRATION	. 5	
2.3. TEST FACILITY	. 5	
3. DESCRIPTION OF TESTS	. 6	
3.1 EFFECTIVE RADIATED POWER/EQUIVALENT ISOTROPIC RADIATED POWER	. 6	
3.2 PEAK- TO- AVERAGE RATIO	. 7	
3.3 OCCUPIED BANDWIDTH	. 8	
3.4 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL	. 9	
3.5 RADIATED SPURIOUS AND HARMONIC EMISSIONS	L 0	
3.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	l 1	
4. LIST OF TEST EQUIPMENT	L 2	
5. SUMMARY OF TEST RESULTS	L 3	
6. SAMPLE CALCULATION	ι4	
7. TEST DATA	L 5	
7.1 CONDUCTED OUTPUT POWER	l 5	
7.2 OCCUPIED BANDWIDTH	L 6	
7.3 CONDUCTED SPURIOUS EMISSIONS		
7.3.1 BAND EDGE	L 6	
7.4 RADIATED SPURIOUS EMISSIONS	ι7	
7.4.1 RADIATED SPURIOUS EMISSIONS(CDMA MODE)	ι7	
7.4.2 RADIATED SPURIOUS EMISSIONS(PCS CDMA MODE)	L 8	
7.5 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	L 9	
7.5.1 FREQUENCY STABILITY (CDMA)	L 9	
7.5.2 FREQUENCY STABILITY (PCS CDMA)	2 0	
8. TEST PLOTS	21	

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Test Dates:	EUT Type:	FCC ID:
HCTR1010FR14-2	November 02, 2010	3G 4G Module	XHG-M600



## **MEASUREMENT REPORT**

## **1. GENERAL INFORMATION**

Applicant Name:	Franklin Technology Inc.
Address:	1505 Digital Tower Aston, 505-15 Gasan-dong, Gumcheon-gu, Seoul, Korea
Contact Person:	Name: Michael Chun Phone #: TEL :+82-70-8260-343 / FAX : +82-2-2082-822
FCC ID:	XHG-M600
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§22, §24, §2
EUT Type:	3G 4G Module
Model(s):	M600
Tx Frequency:	824.70 — 848.31 MHz (CDMA) 1 851.25 — 1 908.75 MHz (PCS CDMA)
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Emission Designator(s):	1M28F9W (CDMA) / 1M29F9W (PCS CDMA) 1M28F9W (CDMA EVDO), 1M29F9W (PCS CDMA EVDO)
Date(s) of Tests:	October 05, 2010 ~ October 15, 2010

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600



## 2. INTRODUCTION

## 2.1. EUT DESCRIPTION

The M600 3G 4G Module consists of Cellular CDMA, PCS CDMA, EVDO Rev.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, 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 June 10, 2009 (Registration Number: 90661)

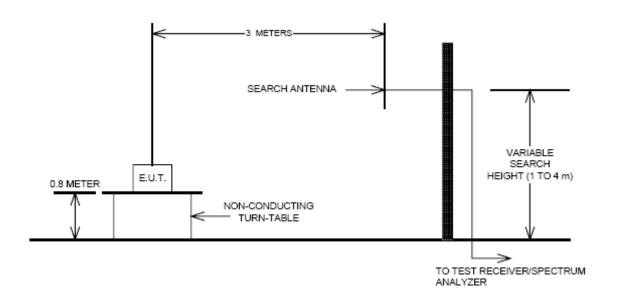
FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Test Dates:	EUT Type:	FCC ID:
HCTR1010FR14-2	November 02, 2010	3G 4G Module	XHG-M600



## **3. DESCRIPTION OF TESTS**

## 3.1 EFFECTIVE RADIATED POWER/EQUIVALENT ISOTROPIC RADIATED POWER

## Test Set-up



### Test Procedure

Radiated emission measurements were performed at an SAC(Semi-Anechoic Chamber)

The equipment under test is placed on a non-conductive styrofoam resin table 3-meters from the receive antenna. A styrofoam 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.

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Test Dates:	EUT Type:	FCC ID:
HCTR1010FR14-2	November 02, 2010	3G 4G Module	XHG-M600



## 3.2 PEAK- TO- AVERAGE RATIO

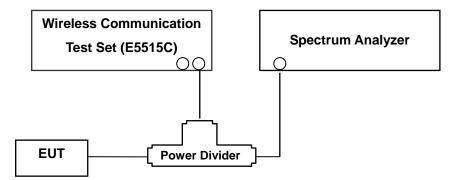
A peak to average ratio measurement is performed at the conducted port of the EUT. For CDMA and WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT 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.

FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Test Dates:	EUT Type:	FCC ID:
HCTR1010FR14-2	November 02, 2010	3G 4G Module	XHG-M600



## 3.3 OCCUPIED BANDWIDTH.

Test set-up



(Configuration of conducted Emission measurement) Test Procedure

The EUT was setup to maximum output power at its lowest channel. The occupied bandwidth was measured using a spectrum analyzer. The measurements are repeated for the highest and a middle channel. The EUT's occupied bandwidth is measured as the width of the signal between two points, one below the carrier center frequency and one above the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Plots of the EUT's occupied bandwidth are shown herein.

FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Test Dates:	EUT Type:	FCC ID:
HCTR1010FR14-2	November 02, 2010	3G 4G Module	XHG-M600



## 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 30 MHz to 10 GHz. (PCS CDMA Mode: 30 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.

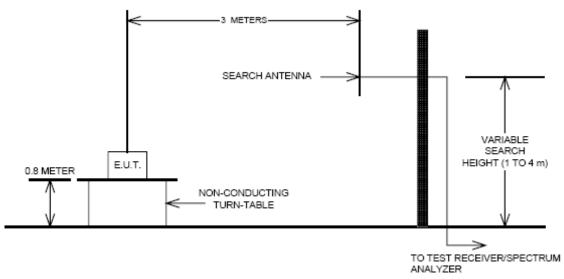
- Band Edge Requirement : In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Test Dates:	EUT Type:	FCC ID:
HCTR1010FR14-2	November 02, 2010	3G 4G Module	XHG-M600



## 3.5 RADIATED SPURIOUS AND HARMONIC 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 SAC(Semi-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 styrofoam platform mounted at three from the antenna mast.

- 1) The unit mounted on a styrofoam 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 10<sup>th</sup> harmonic of the fundamental frequency.

### Test Procedure

The equipment under test is placed on a non-conductive styrofoam resin table 3-meters from the receive antenna. A styrofoam 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.

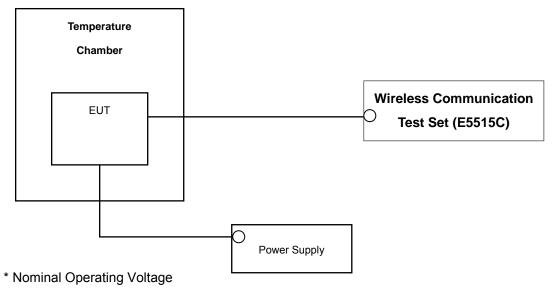
The maximum EIRP was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried out with the receiving antenna in both vertical and horizontal polarization. For readings above 1GHz, the above procedure is repeated using horn antennas and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

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Test Dates:	EUT Type:	FCC ID:
HCTR1010FR14-2	November 02, 2010	3G 4G Module	XHG-M600



## 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.** 

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Test Dates:	EUT Type:	FCC ID:
HCTR1010FR14-2	November 02, 2010	3G 4G Module	XHG-M600



## **4. LIST OF TEST EQUIPMENT**

Manufacture	Model/ Equipment	Serial Number	Calibration Interval	Calibration Due
R&S	ESI40/ Spectrum Analyzer	831564/003	Annual	10/30/2010
Agilent	E4416A/ Power Meter	GB41291412	Annual	01/14/2011
Agilent	E9327A/ Power Sensor	MY4442009	Annual	07/23/2011
Agilent	8960 (E5515C)/ Base Station	GB44400269	Annual	02/10/2011
MITEQ	AMF-6D-001180-35-20P/AMP	990893	Annual	05/20/2011
Wainwright	WHK1.2/15G-10EF/H.P.F	2	Annual	06/25/2011
Wainwright	WHK3.3/18G-10EF/H.P.F	1	Annual	06/25/2011
Agilent	775D/ Dual Directional Coupler	12922	Annual	12/24/2010
Agilent	11636B/ Power Divider	11377	Annual	12/24/2010
Digital	EP-3010/ Power Supply	3110117	Annual	01/08/2011
Schwarzbeck	UHAP/ Dipole Antenna	585	Biennial	02/13/2011
Schwarzbeck	UHAP/ Dipole Antenna	558	Biennial	02/13/2011
Korea Engineering	KR-1005L / Chamber	KRAB07063-2CH	Annual	12/28/2010
Schwarzbeck	BBHA 9120D/ Horn Antenna	296	Biennial	09/23/2011
Agilent	E4440A/Spectrum Analyzer	US45303008	Annual	06/09/2011

FCC CERTIFICATION REPORT			www.hct.co.kr	
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600	



## **5. SUMMARY OF TEST RESULTS**

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result
2.1049, 22.917(a), 24.238(a)	Occupied Bandwidth	N/A		PASS
2.1051, 22.917(a), 24.238(a)	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	< 43 + 10log <sub>10</sub> (P[Watts]) at Band Edge and for all out-of-band emissions	CONDUCTED	PASS
2.1046	Conducted Output Power	N/A		PASS
24.232(d),	Peak- to- Average Ratio	< 13 dB		PASS
2.1055, 22.355, 24.235	Frequency stability / variation of ambient temperature	< 2.5 ppm		PASS
22.913(a)(2)	Effective Radiated Power	< 7 Watts max. ERP		PASS
24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP(PCS)	RADIATED	PASS
2.1053, 22.917(a), 24.238(a)	Radiated Spurious and Harmonic Emissions	< 43 + 10log <sub>10</sub> (P[Watts]) for all out-of band emissions		PASS

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600



## **6. SAMPLE CALCULATION**

## A. ERP Sample Calculation

Mode	Ch./ Freq.		Measured	Substitude	ubstitude Ant. Gain		Pol.	EF	RP
Wode	channel	Freq.(MHz)	Level(dBm)	LEVEL(dBm)	Ant. Gain	C.L	FUI.	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 wooden tripod is 0.8 meter above test site ground level.

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

3) Record the field strength meter's level.

4) Replace the EUT with 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)

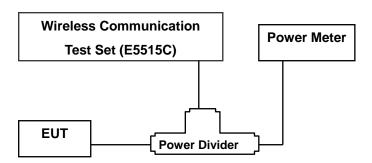
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600
	,		



## 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.



		SO2	SO2	SO55	SO55	TDSO	1xEvD	1xEvD	1xEvDO	1xEvDO
David	Ohannal	302	302	3035	3055	SO32	Rev.O	Rev.O	Rev.1	Rev.1
Band	Channel	RC1/1	RC3/3	RC1/1	RC3/3	RC3/3				
		(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(FTAP)	(RTAP)	(FETAP)	(RETAP)
	1013	23.97	24.26	24.25	24.27	24.06	24.19	24.16	24.04	24.01
CDMA	384	24.09	24.23	24.15	24.26	24.24	24.11	24.31	23.96	24.03
	777	24.05	24.18	24.14	24.16	24.12	24.14	24.28	24.13	23.99
	25	23.99	24.06	23.97	24.12	23.97	24.11	24.14	23.77	23.80
PCS	600	23.95	23.98	24.02	24.11	23.91	24.14	24.03	23.90	23.85
	1175	23.89	23.87	24.10	24.16	23.90	24.09	24.15	23.77	23.84

### (Maximum Conducted Output Powers)

Note : Detecting mode is average.

7.2 PEAK-TO-AVERAGE RATIO

- Plots of the EUT's Peak- to- Average Ratio are shown Page 26.

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Test Dates:	EUT Type:	FCC ID:
HCTR1010FR14-2	November 02, 2010	3G 4G Module	XHG-M600



## 7.2 OCCUPIED BANDWIDTH

Band	Channel	Frequency(MHz)	Data (MHz)
	1013	824.70	1.2766
CDMA	384	836.52	1.2831
	777	848.31	1.2732
CDMA EVDO	384	836.52	1.2813
	25	1851.25	1.2765
PCS	600	1880.00	1.2880
	1175	1908.75	1.2760
PCS EVDO	600	1880.00	1.2885

- Plots of the EUT's Occupied Bandwidth are shown Page 22 ~ 25.

## 7.3 CONDUCTED SPURIOUS EMISSIONS

Band	Channel	Frequency of Maximum Harmonic (GHz)	Maximum Data (dBm)
	1013	1.6520	-35.71
CDMA	384	1.6730	-35.83
	777	1.6970	-35.17
	25	14.400	-36.94
PCS	600	3.7620	-25.16
	1175	3.8150	-24.25

- Plots of the EUT's Conducted Spurious Emissions are shown Page 34 ~ 40.

## 7.3.1 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 26 ~ 34.

FCC CERTIFICATION REPORT			
Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600	
	Test Dates:	Test Dates: EUT Type:	



## 7.4 RADIATED SPURIOUS EMISSIONS

### 7.4.1 RADIATED SPURIOUS EMISSIONS(CDMA MODE)

MEASURED OUTPUT POWER: 24.98 dBm = 0.315 W

MODULATION SIGNAL:
 CDMA EVDO

DISTANCE:

3 meters

■ LIMIT: - (43 + 10 log10 (W)) = \_\_\_\_\_ - 37.98 dBc

Ch.	Freq.(MHz)	Measured Level	Ant. Gain	<u>Substitute</u> Level [dBm]	C.L	Pol.	ERP (dBm)	dBc
	1,649.40	-32.00	7.09	-42.53	1.73	Н	-37.17	-58.59
1013	2,474.10	-52.08	8.12	-59.19	2.28	Н	-53.35	-74.77
	3,298.80	-47.50	9.72	-55.08	2.57	Н	-47.93	-69.35
	1,673.04	-31.05	7.23	-41.81	1.79	Н	-36.37	-57.79
384	2,509.56	-46.09	8.14	-53.22	2.33	Н	-47.41	-68.83
	3,346.08	-45.34	9.99	-53.37	2.66	Н	-46.04	-67.46
	1,696.62	-36.73	7.41	-47.34	1.83	Н	-41.76	-63.18
777	2,544.93	-41.15	8.21	-48.43	2.34	Н	-42.56	-63.98
	3,393.24	-44.83	9.91	-52.46	2.85	Н	-45.40	-66.82

## **NOTES:** <u>1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method</u> <u>according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:</u>

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

all channel.

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

FCC CERTIFICATION REPORT				
Test Report No.	Test Dates:	EUT Type:	FCC ID:	
HCTR1010FR14-2	November 02, 2010	3G 4G Module	XHG-M600	



## 7.4.2 RADIATED SPURIOUS EMISSIONS(PCS CDMA MODE)

- MEASURED OUTPUT POWER: 25.33 dBm = 0.341 W
- MODULATION SIGNAL:
  PCS CDMA EVDO
- DISTANCE: <u>3 meters</u>
- LIMIT: (43 + 10 log10 (W)) = \_\_\_\_\_\_ <u>38.33 dBc</u>

Ch.	Freq.(MHz)	<u>Measured Level</u> [dBm]	Ant. Gain	<u>Substitute</u> Level [dBm]	C.L	Pol.	EIRP (dBm)	dBc
	3,702.50	-38.04	12.46	-44.31	2.73	Н	-34.58	-60.85
25	5,553.75	-52.98	12.70	-54.56	3.60	Н	-45.46	-71.73
	7,405.00	_	-	_	-	-	-	_
	3,760.00	-30.79	12.47	-36.76	2.73	Н	-27.02	-53.29
600	5,640.00	-54.57	12.75	-56.22	3.60	V	-47.07	-73.34
	7,520.00	_	-	_	-	_	-	-
	3,817.50	-24.46	12.49	-30.34	2.73	Н	-20.58	-46.85
1175	5,726.25	-56.64	12.80	-57.95	3.60	V	-48.75	-75.02
	7,635.00	-48.69	11.30	-39.36	3.88	Н	-31.94	-58.21

## **NOTES:** <u>1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method</u> <u>according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:</u>

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

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

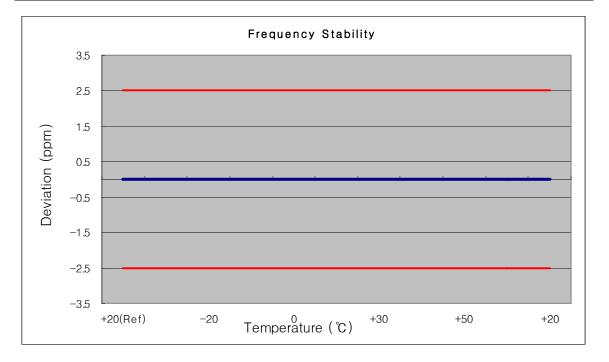
	FCC CERTIFICATION REPORT				
Test Report No.	Test Dates:	EUT Type:	FCC ID:		
HCTR1010FR14-2	November 02, 2010	3G 4G Module	XHG-M600		



## 7.5 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE 7.5.1 FREQUENCY STABILITY (CDMA)

OPERATING FREQUENCY:	836,520,000 Hz
CHANNEL:	384
REFERENCE VOLTAGE:	3.7 VDC
DEVIATION LIM IT:	± 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	836 519 999	0	0.000 000	0.000
100%		-30	836 520 004	4.39	0.000 001	0.005
100%		-20	836 520 009	8.82	0.000 001	0.011
100%		-10	836 519 999	-1.33	0.000 000	-0.002
100%	5.00	0	836 520 008	7.51	0.000 001	0.009
100%		+10	836 519 997	-2.62	0.000 000	-0.003
100%		+30	836 520 005	5.19	0.000 001	0.006
100%		+40	836 520 003	2.65	0.000 000	0.003
100%		+50	836 519 999	-1.13	0.000 000	-0.001
115%	5.75	+20	836 520 002	2.05	0.000 000	0.002
Batt. Endpoint	4.25	+20	836 520 008	8.45	0.000 001	0.010



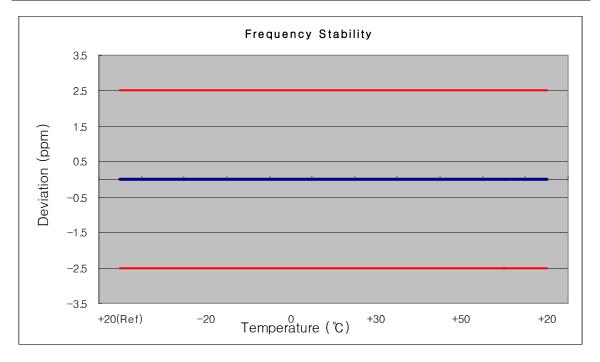
FCC CERTIFICATION REPORT				
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600	



## 7.5.2 FREQUENCY STABILITY (PCS CDMA)

OPERATING FREQUENCY:	1880,000,000 Hz
CHANNEL:	600
REFERENCE VOLTAGE:	3.7 VDC
DEVIATION LIM IT:	± 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	1879 999 996	0	0.000 000	0.000
100%		-30	1879 999 997	-2.81	0.000 000	-0.001
100%		-20	1880 000 002	1.57	0.000 000	0.001
100%		-10	1880 000 007	6.51	0.000 000	0.003
100%	5.00	0	1880 000 010	9.64	0.000 001	0.005
100%		+10	1880 000 006	5.89	0.000 000	0.003
100%		+30	1880 000 003	2.77	0.000 000	0.001
100%		+40	1879 999 994	-6.10	0.000 000	-0.003
100%		+50	1879 999 996	-3.57	0.000 000	-0.002
115%	5.75	+20	1880 000 011	11.38	0.000 001	0.006
Batt. Endpoint	4.25	+20	1880 000 001	0.71	0.000 000	0.000



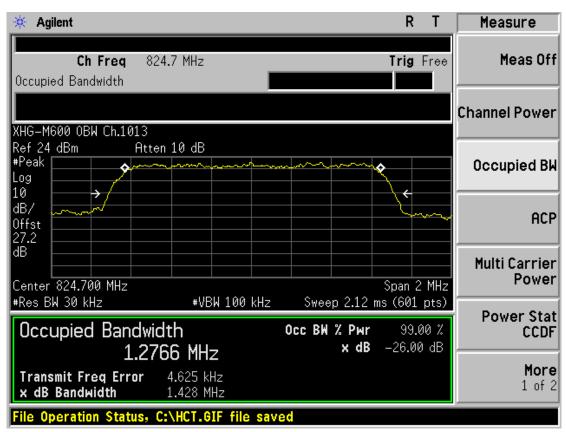
	www.hct.co.kr		
	est Dates:	EUT Type:	FCC ID:
	ovember 02, 2010	3G 4G Module	XHG-M600



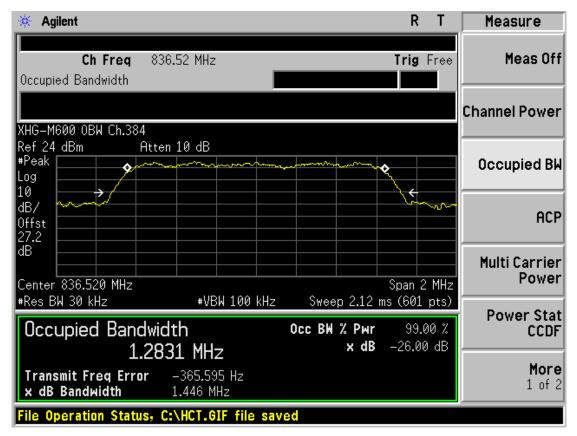
FCC CERTIFICATION REPORT				
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600	
		Page 2 1 of 40		



## CDMA MODE (1013 CH.) Occupied Bandwidth



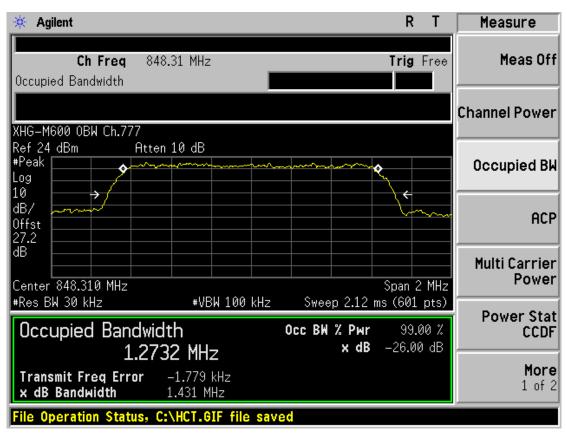
## CDMA MODE (384 CH.) Occupied Bandwidth



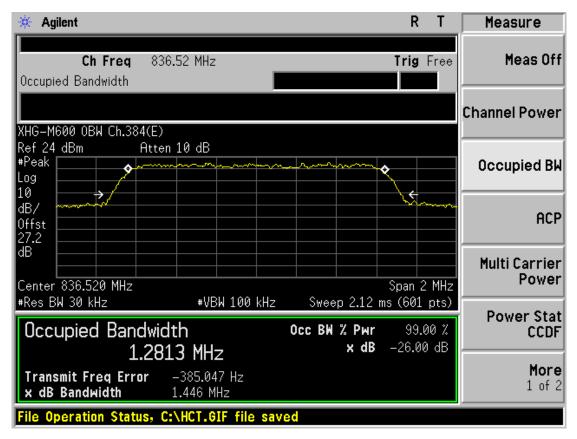
	FCC CERTIFICATION REPORT				
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600		



## CDMA MODE (777 CH.) Occupied Bandwidth



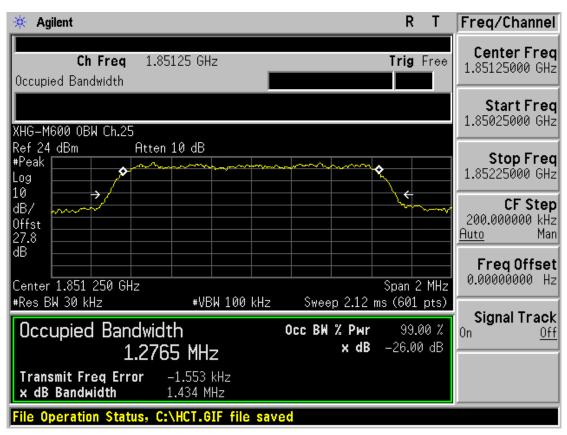
### CDMA EVDO MODE (384 CH.) Occupied Bandwidth



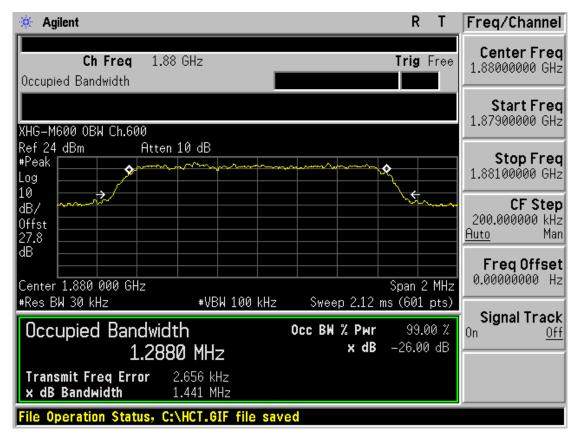
FCC CERTIFICATION REPORT			
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600



## PCS CDMA MODE (25 CH.) Occupied Bandwidth



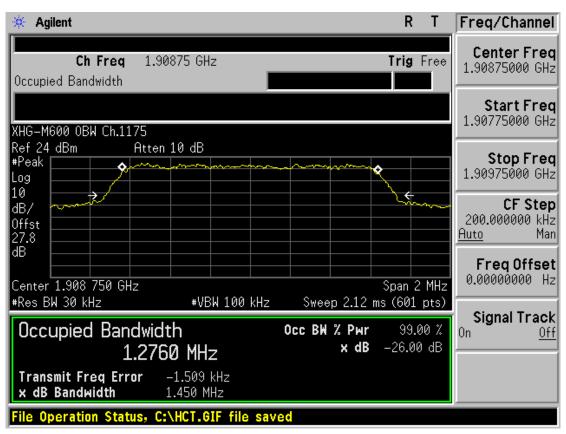
### PCS CDMA MODE (600 CH.) Occupied Bandwidth



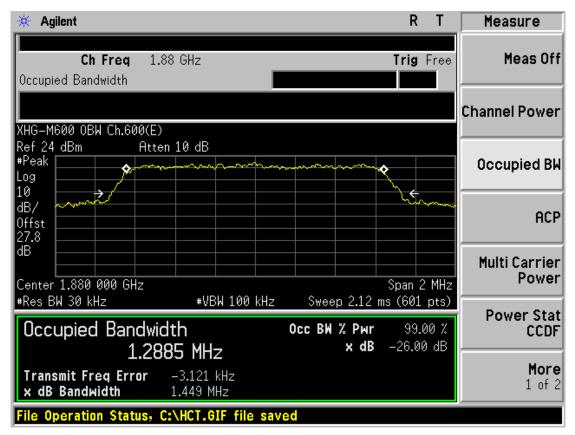
	FCC CERTIFICATION REPORT				
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600		



## PCS CDMA MODE (1175 CH.) Occupied Bandwidth



## PCS CDMA EVDO MODE (600 CH.) Occupied Bandwidth



	FCC CERTIFICATION REPORT			
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600	



#### 🔆 Agilent R Т Measure Meas Off Ch Freq 1.88 GHz Trig Free Counts(k): 100 CCDF **Channel Power** 100.00% Gaussian Reference **Average Power** 23.70 dBm Occupied BW 10.00% 51.81% 1.00% ACP 1.78 dB 10.0% 0.10% 1.0% 2.67 dB **Multi Carrier** Power 0.1% 3.17 dB 0.01% 0.01% 3.46 dB 3.58 dB 0.001% **Power Stat** 0.001% 0.0001% CCDF 3.59 dB Peak 0.0001% dB Meas BW More 20 dB 5.00000000 MHz 1 of 2 Copyright 2000-2007 Agilent Technologies

#### PCS CDMA MODE (600 CH.) Peak-to-Average Ratio

#### ■ CDMA MODE (1013 CH.) Band Edge



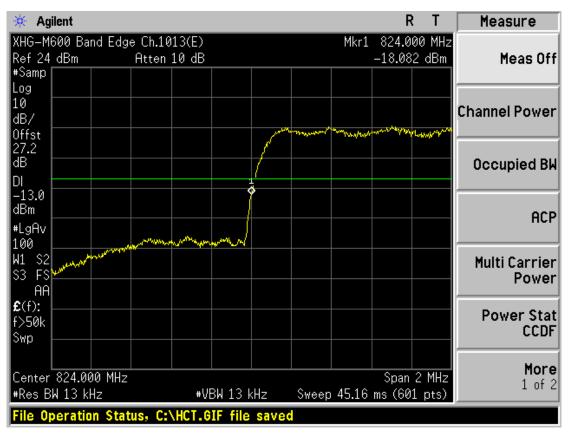
	FCC CERTIFICATION REPORT			
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600	



🔆 Agilent			R	Т	Measure
XHG-M600 Band Edge Ch.7		Mkr1			
	10 dB		-14.908	dBm	Meas Off
#Samp Log					
10					
dB/					Channel Power
Offst Mannahannahannahannahannahannahannahann	white and when the second seco				
27.2					
dB	\\				Occupied BW
	Ý.				
-13.0 dBm	1 1 1				
#LgAv	<u>                                      </u>				ACP
100					
W1 S2	μ. 	A warman	why the second		Multi Carrier
\$3 FS				- Alasta	Power
AA					
<b>£</b> (f):					Power Stat
f>50k					CCDF
Swp					
					More
Center 849.000 MHz			Span 2		1 of 2
#Res BW 13 kHz	₩VBW 13 kHz	Sweep 45.16	ms (601	pts)	1012
File Operation Status, C	\HCT.GIF file sa	ved			

## ■ CDMA MODE (777 CH.) Band Edge

### ■ CDMA EVDO MODE (1013 CH.) Band Edge



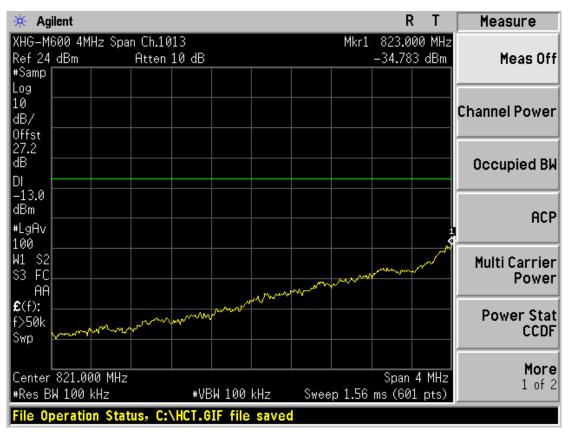
FCC CERTIFICATION REPORT			
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600



🔆 Agilent						R	Т	Measure
XHG-M600 Band Edg					Mkr1		00 MHz	
Ref 24_dBm	Atten 10 d	В				-14.01	3 dBm	Meas Off
#Samp								
Log 10								
dB/								Channel Power
Offst Www.www.	Month Martin	hundrethey						
27.2								
dB		1 1	1					Occupied BW
DI			1					
dBm			N					
#LgAv								ACP
100			1 m					
W1 S2			WW Y	and the second	v~~/*/~~~	dery as the way	Muster	Multi Carrier
\$3 FS								Power
AA								
£(f):								Power Stat
f>50k								CCDF
Swp								
								More
Center 849.000 MHz				~	15 1 0		2 MHz	1 of 2
#Res BW 13 kHz		#VBW 13			45.16	ms (601	L pts)	
File Operation Stat	us, C:\HCT	.GIF file	saved					

## CDMA EVDO MODE (777 CH.) Band Edge

### CDMA MODE (1013 CH.) 4 MHz Span



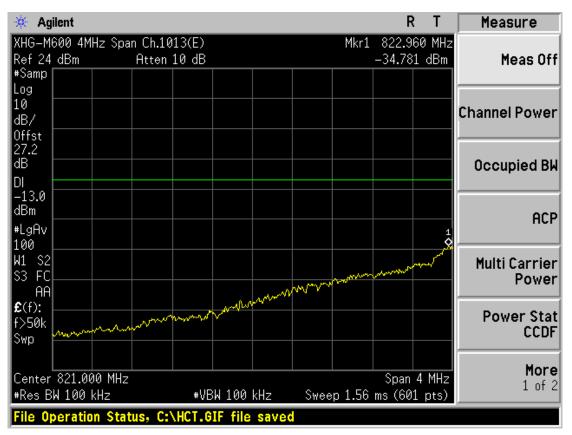
FCC CERTIFICATION REPORT				
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600	



🔆 Agilent				R	T Measure
XHG-M600 4MHz Spa	an Ch.777		Mkr1	850.000	MHz
Ref 24 dBm	Atten 10 dB			-35.385 d	Bm MeasOff
#Samp					
Log					
10					Channel Power
dB/					
Offst 27.2					
dB					Occupied PU
					Occupied BW
DI					
dBm					
					ACP
#LgAv <sub>1</sub>					
100					
W1 S2 53 FC					Multi Carrier
	The second se				Power
AA CO:	mon				
£(f):		mar and a second	·····		Power Stat
f>50k				www.	CCDF
Swp					·····
					Hara
Center 852.000 MHz	2			Span 4 №	1Hz More 1 of 2
#Res BW 100 kHz	#VE	W 100 kHz	Sweep 1.56		
File Operation Sta			•		
The operation Sta	tus, c. mor.o				

## CDMA MODE (777 CH.) 4 MHz Span

### CDMA EVDO MODE (1013 CH.) 4 MHz Span



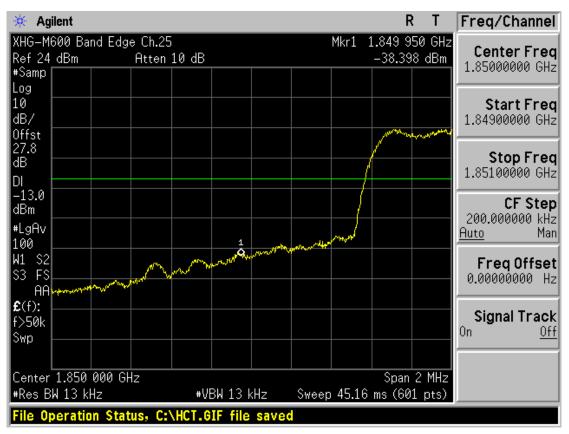
FCC CERTIFICATION REPORT			
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600



🔆 Agilent				RT	Measure
(HG-M600 4MHz Sp			Mkr1	850.033 MHz	
Ref 24 dBm	Atten 10 dB			-34.935 dBm	Meas Off
Samp .og					
.0					
.ĕ iB/					Channel Power
)ffst					
27.2					
IB					Occupied BW
-13.0					
18m					ACP
LgAv 1					
.00					
1 S2	<u>ч</u> .				Multi Carrier
	hun				Power
AA \$(f):	Jun Mannan and				
>50k		margen margen where	man		Power Stat
Swp				mymm	CCDF
un du					
					More
Center 852.000 MHz				Span 4 MHz	1 of 2
Res BW 100 kHz	#VB	100 kHz	Sweep 1.56	ms (601 pts)	
ile Operation Sta	tus, C:\HCT.G	F file saved			

## CDMA EVDO MODE (777 CH.) 4 MHz Span

### ■ PCS CDMA MODE (25 CH.) Band Edge



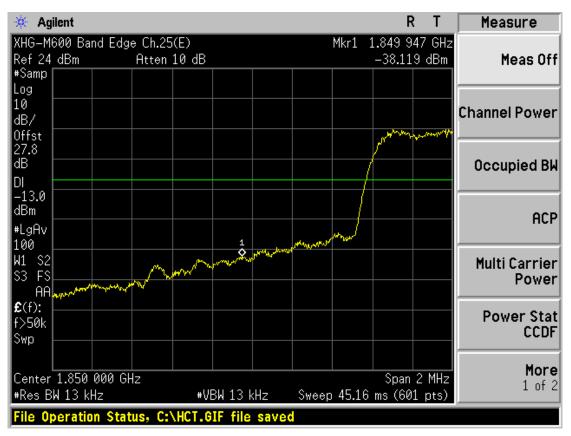
FCC CERTIFICATION REPORT							
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600				



🔆 Agilent				R	Т	Freq/Channel
XHG-M600 Band Edg			Mkr1	1.910 04		Center Freq
Ref 24 dBm #Samp	Atten 10 dB			-33.594	4 dBm	1.91000000 GHz
Log						
10						Start Freq
dB/ Offst						1.90900000 GHz
0ffst 27.8						
dB						Stop Freq 1.91100000 GHz
						1.91100000 GH2
-13.0 dBm						CF Step
#LgAv	my	1				200.000000 kHz
100	Martin 1	Manun Stranger	man man			<u>Auto</u> Man
W1 S2			and a second a second a second a second a second a second a			Freq Offset
S3 FS AA			<u> </u>	a manual		0.00000000 Hz
£(f):					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
f>50k						Signal Track
Swp						0n <u>0ff</u>
Center 1.910 000 G					2 MHz	
#Res BW 13 kHz	#V	BW 13 kHz	Sweep 45.16	ms (601	. pts)	
File Operation Stat	tus, C:\HCT.G	IF file save	d			

## ■ PCS CDMA MODE (1175 CH.) Band Edge

### ■ PCS CDMA EVDO MODE (25 CH.) Band Edge



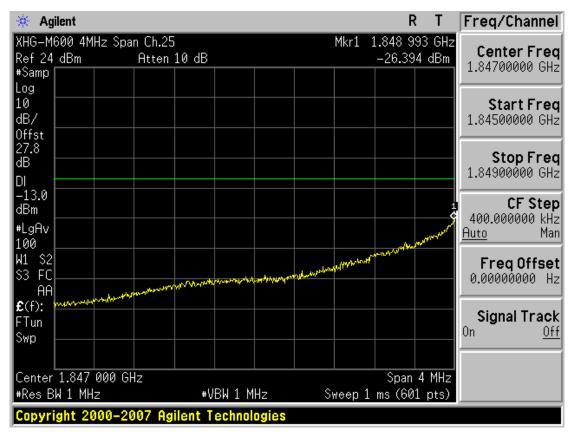
FCC CERTIFICATION REPORT						
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600			



🔆 Agilent					R	Т	Measure
XHG-M600 Band Edg			٢		.910 02		
Ref 24_dBm	Atten 10 dB				-32.192	dBm	Meas Off
#Samp							
Log 10		<u> </u>					
dB/							<b>Channel Power</b>
Offst water and the							
27.8							
dB							Occupied BW
DI	<u>}</u>						
-13.0							
dBm							ACP
#LgAv	War When son amount						
100			www.www.www.				
W1 S2				and the second			Multi Carrier
S3 FS				`	Constation and an	man	Power
AA £(f):							
f>50k							Power Stat
Swp							CCDF
							More
Center 1.910 000 GH			~	15 4 0	Span 2		1 of 2
#Res BW 13 kHz	#\	BW 13 kHz	Sweep	45.16	ms (601	pts)	
<b>File Operation Stat</b>	us, C:\HCT.(	OIF file sav	ed				

## ■ PCS CDMA EVDO MODE (1175 CH.) Band Edge

### PCS CDMA MODE (25 CH.) 4 MHz Span



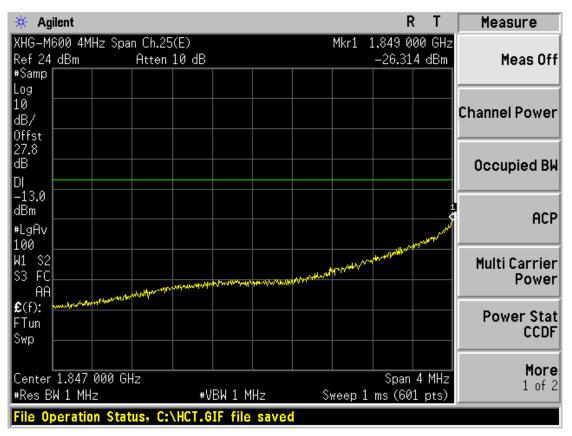
FCC CERTIFICATION REPORT						
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600			



🔆 Agilent			RT	Freq/Channel
XHG-M600 4MHz Spa		Mkr1	1.911 000 GHz	Center Freq
Ref 24 dBm #Samp	Atten 10 dB		-23.524 dBm	1.91300000 GHz
				Chart Francis
10 dB/				Start Freq 1.91100000 GHz
Offst 27.8				
dB				Stop Freq
				1.91500000 GHz
-13.01 dBm 🕈				CF Step
#LgAv				400.000000 kHz <u>Auto</u> Man
#LgHv 100 W1 S2 S2 EC	Wheel has			Freq Offset
33 FC		Mithelescond and a		0.00000000 Hz
AA £(f):		and a construction of the	the way have a strategy and the state of the strategy and	
FTun				Signal Track
Swp				On <u>Off</u>
C			Crear 4 Mile	
Center 1.913 000 GH #Res BW 1 MHz	12 #VBW 1	MHz Sweep	Span 4 MHz 1 ms (601 pts)	
	us, C:\HCT.GIF fil			,

## PCS CDMA MODE (1175 CH.) 4 MHz Span

### ■ PCS CDMA EVDO MODE (25 CH.) 4 MHz Span



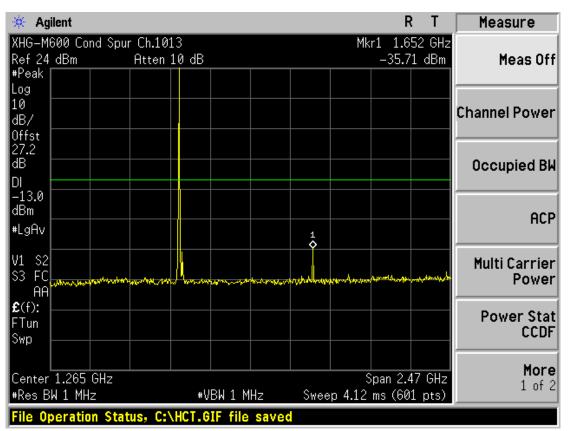
FCC CERTIFICATION REPORT						
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600			



🔆 Agilent				R	T Measure
XHG-M600 4MHz Spa Ref 24 dBm	n Ch.1175(E) Atten 10 dB		Mkr1 í	1.911 020 -23.464 d	
#Samp Log 10 dB/ Offst					Channel Power
27.8 dB DI -13.0 1					Occupied BW
dBm 🔇					ACP
W1 S2 S3 FC AA £(f):	hinan waaraa ah	Mayor afresh and a start of the series	and the second and the second	mentantinterror	Multi Carrier Power
FTun Swp					Power Stat CCDF
Center 1.913 000 GH #Res BW 1 MHz File Operation Stat	#\	BW 1 MHz		Span 4 M ms (601 p	

## PCS CDMA EVDO MODE (1175 CH.) 4 MHz Span

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



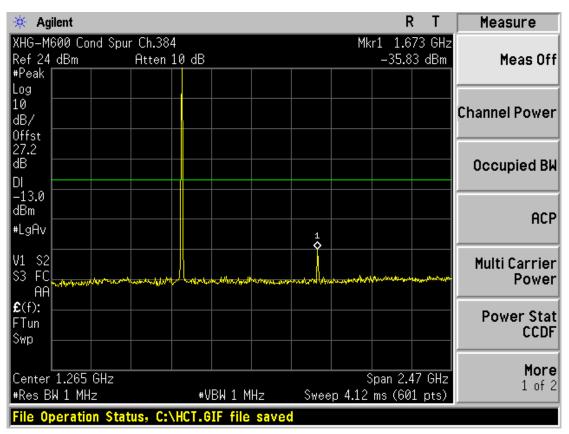
FCC CERTIFICATION REPORT					
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600		



🔆 Agilent								R	Т	Measure
XHG-M600 Co	ond Spur						Mkr1		5 GHz	
Ref 24 dBm		Atten	10 dB					-39.9	9 dBm	Meas Off
#Peak Log										
10										
dB/										Channel Power
Öffst										
27.2										
dB										Occupied BW
-13.0 dBm										
										ACP
#LgAv										
V1 S2						1_ \$				Multi Comilon
	water market with	West sugar.		d states and	when the start of	mondu	numment	Martinensins	Marchidesper	Multi Carrier Power
ÂĂ		47								Power
<b>£</b> (f):										
FTun										Power Stat
Swp										CCDF
Center 6.250	0 GHz							Span 7.	5 GHz	More
#Res BW 1 M			#V	BW1M	Hz	Sween	12.52			1 of 2
File Operati		ue Cri								,
n ne operau	on otat	uo, c.	which a v		SUVE					

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

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



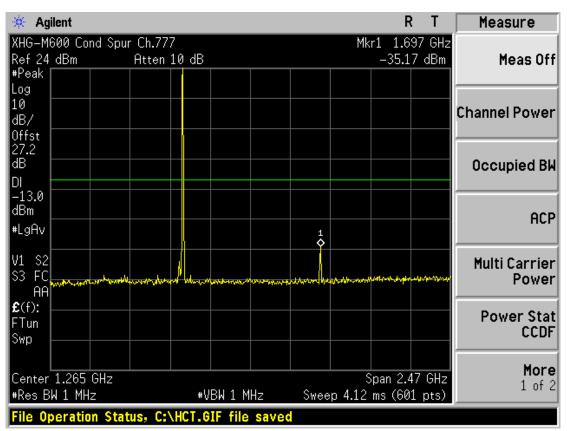
FCC CERTIFICATION REPORT						
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600			



Measure	Т	R	F								ilent	🔆 Ag
			7.07	Mkr1						ond Spu		
Meas Off	dBm	97	-39.9					10 dB	Atten		dBm	Ref 24
												#Peak Log
Channel Davies		+										10
Channel Power												dB/
												Offst
Occupied Bk		+										27.2 dB
occupied by												DI
		+										-13.0
ACP												dBm
												#LgAv
		$\vdash$			1							114 .00
Multi Carrier	men	ww	Mantherity	lah Marana an	M. Maranakan	your port				whither warrant		V1 S2 S3 FC
Power		$\top$					. Fryslyn dynny	,876 <sup>,9</sup> 6 <sup>,9</sup> 6,96	*****		- Mar-10	AA
Der von Chur		<u> </u>										<b>£</b> (f):
Power Stat CCDF												FTun
		+										Swp
More												
1 of 2			Span 7							0 0 GHz		
	pts)	01	ms (60	12.52	Swee	Hz	BW 1 M	#V		Hz	W 1 MH	#Res E
					d	save	IF file	HCT.G	us, C:	ion Stat	peratio	File 0

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

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



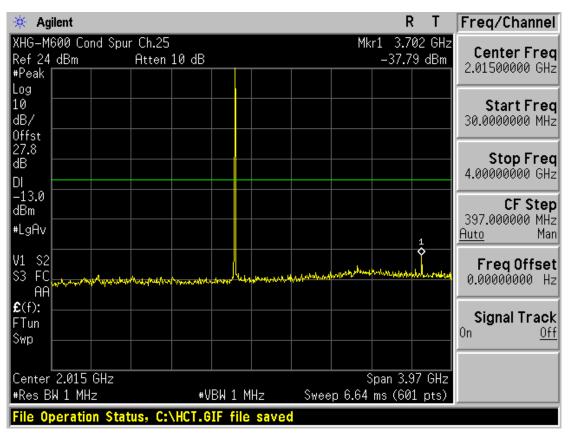
		FCC CERTIFICATION REPORT	www.hct.co.kr		
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600		



🔆 Agilent				R	Т	Measure
XHG-M600 Cond Sp			Mkr1			
Ref 24 dBm	Atten 10 dB			-40.73	dBm	Meas Off
#Peak Log						
10						
dB/						Channel Power
Offst						
27.2 dB						O a surris d DI
ab Di						Occupied Bk
-13.0						
dBm						000
#LgAv						ACF
			1			
V1 S2			Anna Maria Maria	to down with		Multi Carrier
S3 FC	hall the state of	he paraphage production		and a second second	- and the second se	Power
AA £(f):						
FTun						Power Stat
Swp						CCDF
Center 6.250 0 GH2	· · · · · · · · · · · · · · · · · · ·			Span 7.5	GHz	More
#Res BW 1 MHz		/BW 1 MHz	Sweep 12.52			1 of 2
					10.007	
ile Operation Sta	itus, C:\HCT.0	oir file save	Q			

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

### PCS CDMA MODE (25 CH.) Conducted Spurious Emissions - 1



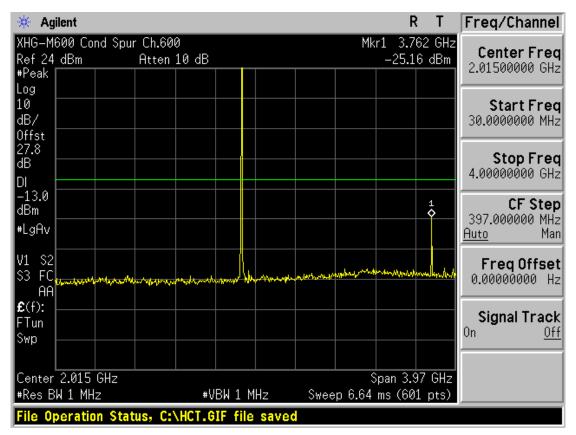
FCC CERTIFICATION REPORT					
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600		



🔆 Ag	jilent								F	? Т	Freq/Channel
	600 Co	nd Spur						Mkr:		00 GHz	Contor From
Ref 24	dBm		Atten	10 dB					-36.9	4 dBm	Center Freq 12.0000000 GHz
#Peak Log											12.000000000000
10											Start Freq
dB/											4.00000000 GHz
Offst											
27.8 dB											Stop Freq
DI											20.0000000 GHz
-13.0											05.04.5
dBm											CF Step 1.6000000 GHz
#LgAv							4				Auto Man
						h	\$				
V1 S2 S3 FC			er-veloy/Laly	Wardward A	Magnetres	and many and	a an	Malana	holywaterships	mannahan	Freq Offset
AA		N/4)									0.00000000 Hz
<b>£</b> (f):											
FTun											Signal Track On Off
Swp	<u> </u>										
Center	12.000	) GHz							Span 1	l6 GHz	
<b>#</b> Res B	BW 1 MH	Z		#V	BW 1 M	Hz	Swe	eep 40	ms (60	1 pts)	
File 0	peratio	n Stat	us, C:\	HCT.6	IF file	saved					

PCS CDMA MODE (25 CH.) Conducted Spurious Emissions - 2

### PCS CDMA MODE (600 CH.) Conducted Spurious Emissions - 1



FCC CERTIFICATION REPORT				
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600	



🔆 Agilent			R	Т	Freq/Channel
XHG-M600 Cond Spu			Mkr1 13.70		Center Freq
Ref 24 dBm #Peak	Atten 10 dB		-37.54	dBm	12.0000000 GHz
Log					
10					Start Freq
dB/					4.00000000 GHz
Offst 🛛					
27.8 dB					Stop Freq
					20.0000000 GHz
DI -13.0					
dBm					CF Step
#LgAv					1.60000000 GHz Auto Man
		1			<u>Auto</u> Man
V1 S2 🧼	when an every with a property of	an approximation	mapmen when when we	Annone	Freq Offset
S3 FC	and the state of t				0.00000000 Hz
AA					
<b>£</b> (f): FTun					Signal Track
Swp					0n <u>Off</u>
Center 12.000 GHz		MU	Span 16		
#Res BW 1 MHz	#VBW 1		eep 40 ms (601	pts)	
File Operation Stat	us, C:\HCT.GIF fil	e saved			

## ■ PCS CDMA MODE (600 CH.) Conducted Spurious Emissions - 2

## PCS CDMA MODE (1175 CH.) Conducted Spurious Emissions - 1

🔆 Agilent				RT	Freq/Channel
XHG-M600 Cond Spur				3.815 GHz	Center Freq
Ref 24 dBm #Peak	Atten 10 dB		-2	4.25 dBm	2.01500000 GHz
Log					
10					Start Freq
dB/					30.0000000 MHz
Offst 27.8					
dB					Stop Freq
DI					4.00000000 GHz
-13.0				1	CF Step
dBm				<b></b>	397.000000 MHz
#LgAv					<u>Auto</u> Man
V1 S2					<b>F A</b> (1)
		a market the market was	moundermon	the south word	Freq Offset 0.00000000 Hz
AA	in a standar and the standard and the standard of				0.00000000 HZ
<b>£</b> (f):					Signal Trook
FTun					Signal Track On Off
Swp					<u></u>
Center 2.015 GHz				3.97 GHz	
#Res BW 1 MHz	#VBW 1	MHz Swe	ep 6.64 ms (	601 pts)	
File Operation Stat	us, C:\HCT.GIF fil	e saved			

FCC CERTIFICATION REPORT					
Test Report No. HCTR1010FR14-2	Test Dates: November 02, 2010	EUT Type: 3G 4G Module	FCC ID: XHG-M600		



🔆 Agilent				RT	Freq/Channel
XHG-M600 Cond Spu			Mkr1		Center Freq
Ref 24 dBm #Peak	Atten 10 dB		-	-36.78 dBm	12.0000000 GHz
Log					
10					Start Freq
dB/					4.00000000 GHz
Offst					
27.8 dB					Stop Freq
DI					20.0000000 GHz
-13.0					
dBm					CF Step
#LgAv					1.60000000 GHz Auto Man
					<u>11000</u> 1101
V1 S2	mannahan	which are not the	when many more thanks and the second s	appropriate the second states	Freq Offset
S3 FC	A Marked Market				0.00000000 Hz
AA £(f):					
FTun					Signal Track
Swp					0n <u>Off</u>
Center 12.000 GHz				pan 16 GHz	
#Res BW 1 MHz	#UR	W 1 MHz	Sweep 40 ms		
			5meep 40 ms	5 (001 pts)	
File Operation Stat	us, C:\HCI.GI	file saved			

## PCS CDMA MODE (1175 CH.) Conducted Spurious Emissions - 2

FCC ID: XHG-M600