

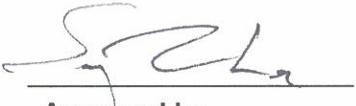
**HCT CO., LTD.****CERTIFICATE OF COMPLIANCE**  
**FCC Certification****Applicant Name:**  
SAMSUNG Electronics Co., Ltd.**Address:**  
416, Maetan-3dong, Yeongtong-gu, Suwon-si,  
Gyeonggi-do, Korea**Date of Issue:**

January 26, 2012

**Test Site/Location:**HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon, Icheon-si,  
Kyunggi-Do, Korea**Report No.:** HCTR1201FR08-1**HCT FRN:** 0005866421**FCC ID:** **A3LGTS3770M****APPLICANT:** **SAMSUNG Electronics Co., Ltd.****FCC Model(s):** GT-S3770M**EUT Type:** 850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, WLAN and EDGE Rx Only**Max. RF Output Power:** Wi-Fi 802.11b(22.82 dBm) / Wi-Fi 802.11g (23.01 dBm)**Frequency Range:** 2412 MHz -2462 MHz**Modulation type** DSSS/OFDM**FCC Classification:** Digital Transmission System(DTS)**FCC Rule Part(s):** Part 15.247**Engineering Statement:**

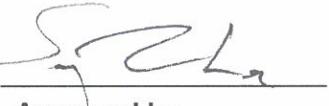
The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons 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)

  
Jong Seok Lee**Report prepared by**

: Jong Seok Lee

Test engineer of RF Team

  
Sang Jun Lee**Approved by**

: Sang Jun Lee

Manager of RF Team

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Test Report No.	Date of Issue:	EUT Type:	FCC ID:
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# Version

TEST REPORT NO.	DATE	DESCRIPTION
HCTR1201FR08	January 06, 2012	- First Approval Report
HCTR1201FR08-1	January 26, 2012	- Insert Sample Calculation for Section 8.2 and 8.3

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## 1. GENERAL INFORMATION

**Applicant:** SAMSUNG Electronics Co., Ltd.  
**Address:** 416, Maetan-3dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea  
  
**FCC ID:** A3LGTS3770M  
**EUT Type:** 850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, WLAN and EDGE Rx Only  
**Model Name:** GT-S3770M  
**Date(s) of Tests:** December 26, 2011 ~ January 02, 2012  
**Contact Person:** Name: Yoon Do Lee  
 Phone #: +82-31-301-7895  
  
**Place of Tests:** HCT Co., Ltd.  
 105-1, Jangam-ri, Majang-Myeon, Icheon-si, Kyunggi-Do, 467-811, KOREA.  
 (IC Recognition No. : 5944A-3)

## 2. EUT DESCRIPTION

<b>EUT Type</b>	850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, WLAN and EDGE Rx Only	
<b>Model Name</b>	GT-S3770M	
<b>Version</b>	Hardware : REV1.0/ Software : S3770M.010	
<b>Power Supply</b>	DC 3.7 V	
<b>Battery type</b>	Li-ion Battery(Standard)	
<b>Frequency Range</b>	TX: 2412 MHz ~ 2462 MHz RX: 2412 MHz ~ 2462 MHz	
<b>Max. RF Output Power:</b>	Peak:	Wi-Fi 802.11b(22.82 dBm) / Wi-Fi 802.11g (23.01 dBm)
	Average:	Wi-Fi 802.11b(16.37 dBm) / Wi-Fi 802.11g (14.16 dBm)
<b>Modulation Type</b>	DSSS/CCK(802.11b), OFDM(802.11g)	
<b>Antenna Specification</b>	Manufacturer: Partron Antenna type: FPCB Antenna Peak Gain : -2.85 dBi	

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### 3. TEST METHODOLOGY

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz(ANSI C63.4-2003)

#### 3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

#### 3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

#### 3.3 GENERAL TEST PROCEDURES

##### Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version :2003) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

##### Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version: 2003)

#### 3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

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## 4. 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 equipments, which is traceable to recognized national standards.

## 5. FACILITIES AND ACCREDITATIONS

### 5.1 FACILITIES

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. (Version :2003) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated March 02, 2011 (Registration Number: 90661)

### 5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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## 6. ANTENNA REQUIREMENTS

### According to FCC 47 CFR §15.203:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

\* The antennas of this E.U.T are permanently attached.

\*The E.U.T Complies with the requirement of §15.203

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## 7. SUMMARY TEST OF RESULTS

Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
6 dB Bandwidth	§15.247(a)(2)	> 500 kHz	CONDUCTED	PASS
Conducted Maximum Peak Output Power	§15.247(b)(3)	< 1 Watt		PASS
Power Spectral Density	§15.247(e)	< 8 dBm / 3 kHz Band		PASS
Band Edge(Out of Band Emissions)	§15.247(d)	Conducted < 20 dBc		PASS
AC Power line Conducted Emissions	§15.207	cf. Section 8.6		PASS
Radiated Spurious Emissions	§15.205, 15.209	cf. Section 8.5.1	RADIATED	PASS
Radiated Restricted Band Edge	§15.247(d), 15.205, 15.209	cf. Section 8.5.2		PASS

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## 8. TEST RESULT

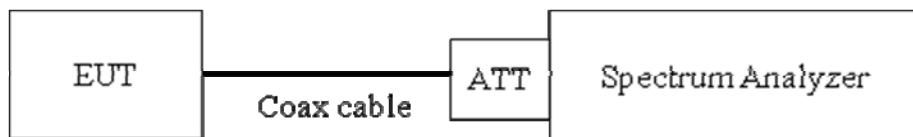
### 8.1 6dB BANDWIDTH MEASUREMENT (802.11b/g)

#### Test Requirements and limit, §15.247(a)(2)

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

**The minimum permissible 6dB bandwidth is 500 kHz.**

#### ■ TEST CONFIGURATION



#### ■ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to

RBW: 430 kHz

VBW: 1.3 MHz

SPAN: 40 MHz

#### ■ TEST RESULTS

##### Conducted 6dB Bandwidth Measurements for 802.11b

802.11b Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	10.32	0.500	Pass
2437	6	10.32	0.500	Pass
2462	11	10.29	0.500	Pass

##### Conducted 6dB Bandwidth Measurements for 802.11g

802.11g Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	16.66	0.500	Pass
2437	6	16.69	0.500	Pass
2462	11	16.61	0.500	Pass

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## RESULT PLOTS

### 6dB Bandwidth plot (802.11b-CH 1)



### 6dB Bandwidth plot (802.11b-CH 6)



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### 6dB Bandwidth plot (802.11b-CH 11)



### 6dB Bandwidth plot (802.11g-CH 1)



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### 6dB Bandwidth plot (802.11g-CH 6)



### 6dB Bandwidth plot (802.11g-CH 11)



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## 8.2 OUTPUT POWER MEASUREMENT (802.11b/g)

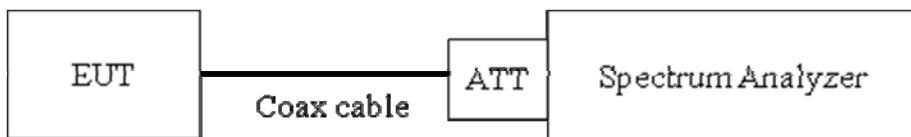
### Test Requirements and limit, §15.247(b)(3)

A transmitter antenna terminal of EUT is connected to the input of a Spectrum Analyzer.

Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies.

**The maximum permissible conducted output power is 1 Watt.**

### ■ TEST CONFIGURATION



### ■ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer. We use the spectrum analyzer's integrated band power measurement function. We tested according to 718828 DTS Measurement Guidance DR01.

This EUT TX condition is actual operating mode(not near 100 % duty cycle) by WLAN test program.

The Spectrum Analyzer is set to

Peak Power

RBW = 1 MHz

VBW = 3 MHz

SPAN = 5 – 30 % greater than the EBW

Detector Mode = Peak

Integrated bandwidth = EBW

Average Power

RBW = 1 MHz

VBW = 3 MHz

SPAN = 5 – 30 % greater than the EBW

Detector Mode = Average

Integrated bandwidth = EBW

### ■ Sample Calculation

Output Power = Spectrum Reading Power + ATT loss + Cable loss

$$= 10 \text{ dBm} + 10 \text{ dB} + 0.8 \text{ dB} = 20.8 \text{ dBm}$$

Where) Spectrum offset = ATT loss + Cable loss

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## TEST RESULTS-Peak

### Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	19.46	30
		2 Mbps	19.55	30
		5.5 Mbps	21.04	30
		11 Mbps	22.82	30
2437	6	1 Mbps	18.40	30
		2 Mbps	18.64	30
		5.5 Mbps	20.14	30
		11 Mbps	21.86	30
2462	11	1 Mbps	18.34	30
		2 Mbps	18.64	30
		5.5 Mbps	20.13	30
		11 Mbps	21.97	30

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## Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	22.69	30
		9 Mbps	22.81	30
		12 Mbps	22.48	30
		18 Mbps	22.39	30
		24 Mbps	23.01	30
		36 Mbps	22.83	30
		48 Mbps	22.27	30
		54 Mbps	21.41	30
2437	6	6 Mbps	21.90	30
		9 Mbps	21.94	30
		12 Mbps	21.71	30
		18 Mbps	21.48	30
		24 Mbps	22.02	30
		36 Mbps	22.04	30
		48 Mbps	21.28	30
		54 Mbps	20.50	30
2462	11	6 Mbps	22.06	30
		9 Mbps	22.07	30
		12 Mbps	21.89	30
		18 Mbps	21.57	30
		24 Mbps	22.23	30
		36 Mbps	22.06	30
		48 Mbps	21.47	30
		54 Mbps	20.61	30

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## TEST RESULTS-Average

### Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	16.24	30
		2 Mbps	16.25	30
		5.5 Mbps	16.37	30
		11 Mbps	15.63	30
2437	6	1 Mbps	15.34	30
		2 Mbps	15.36	30
		5.5 Mbps	15.47	30
		11 Mbps	14.72	30
2462	11	1 Mbps	15.19	30
		2 Mbps	15.10	30
		5.5 Mbps	15.02	30
		11 Mbps	14.41	30

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## Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	14.16	30
		9 Mbps	13.90	30
		12 Mbps	13.62	30
		18 Mbps	13.17	30
		24 Mbps	12.70	30
		36 Mbps	11.81	30
		48 Mbps	10.90	30
		54 Mbps	9.57	30
2437	6	6 Mbps	13.25	30
		9 Mbps	12.94	30
		12 Mbps	12.62	30
		18 Mbps	12.30	30
		24 Mbps	11.70	30
		36 Mbps	11.06	30
		48 Mbps	9.96	30
		54 Mbps	8.55	30
2462	11	6 Mbps	13.46	30
		9 Mbps	13.08	30
		12 Mbps	12.81	30
		18 Mbps	12.37	30
		24 Mbps	11.94	30
		36 Mbps	11.10	30
		48 Mbps	10.20	30
		54 Mbps	8.78	30

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## RESULT PLOTS-Peak

### Conducted Output Power (802.11b-CH 1) 1Mbps



### Conducted Output Power (802.11b-CH 1) 2Mbps



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### Conducted Output Power (802.11b-CH 1) 5.5Mbps



### Conducted Output Power (802.11b-CH 1) 11Mbps



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### Conducted Output Power (802.11b-CH 6) 1Mbps

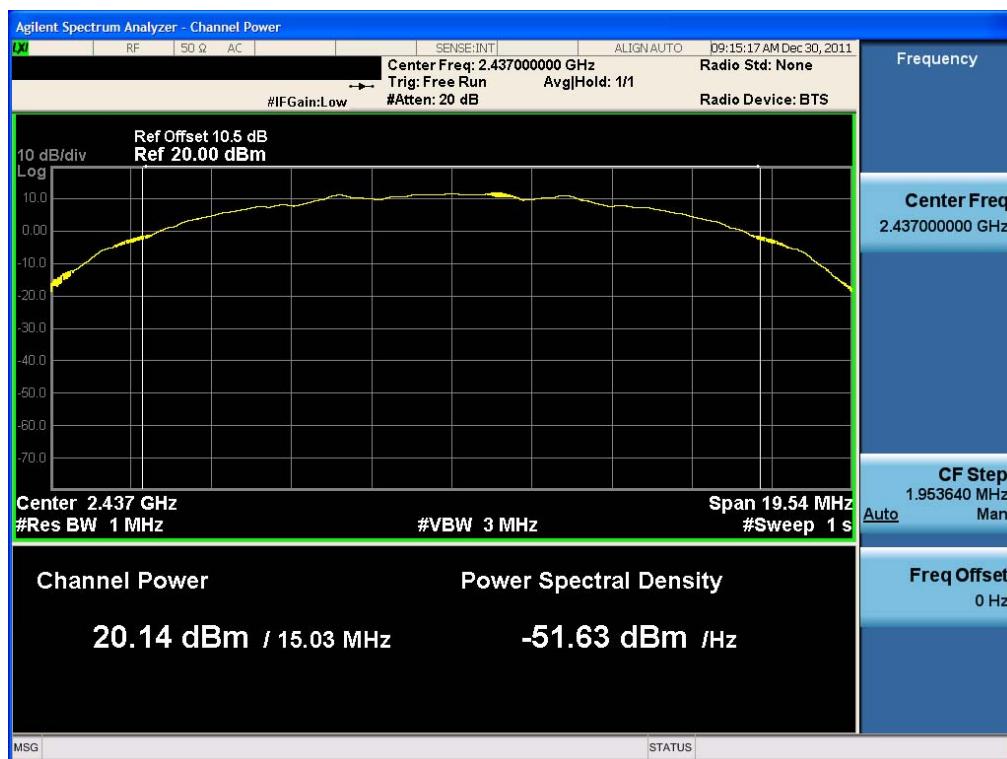


### Conducted Output Power (802.11b-CH 6) 2Mbps



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### Conducted Output Power (802.11b-CH 6) 5.5Mbps



### Conducted Output Power (802.11b-CH 6) 11Mbps

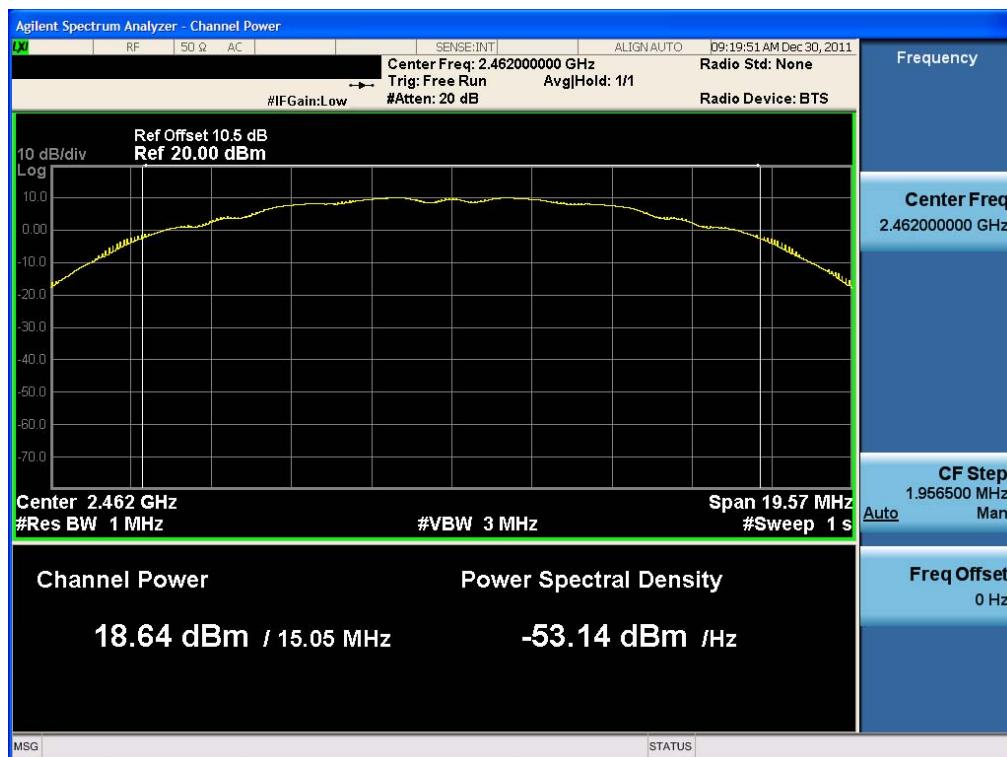


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### Conducted Output Power (802.11b-CH 11) 1Mbps



### Conducted Output Power (802.11b-CH 11) 2Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			<a href="http://www.hct.co.kr">www.hct.co.kr</a>
Test Report No. HCTR1201FR08-1	Date of Issue: January 26, 2012	EUT Type: 850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGTS3770M

### Conducted Output Power (802.11b-CH 11) 5.5Mbps



### Conducted Output Power (802.11b-CH 11) 11Mbps



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### Conducted Output Power (802.11g-CH 1) 6Mbps



### Conducted Output Power (802.11g-CH 1) 9Mbps



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### Conducted Output Power (802.11g-CH 1) 12Mbps



### Conducted Output Power (802.11g-CH 1) 18Mbps



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### Conducted Output Power (802.11g-CH 1) 24Mbps



### Conducted Output Power (802.11g-CH 1) 36Mbps



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### Conducted Output Power (802.11g-CH 1) 48Mbps



### Conducted Output Power (802.11g-CH 1) 54Mbps



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### Conducted Output Power (802.11g-CH 6) 6Mbps



### Conducted Output Power (802.11g-CH 6) 9Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			<a href="http://www.hct.co.kr">www.hct.co.kr</a>
Test Report No. HCTR1201FR08-1	Date of Issue: January 26, 2012	EUT Type: 850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGTS3770M

### Conducted Output Power (802.11g-CH 6) 12Mbps

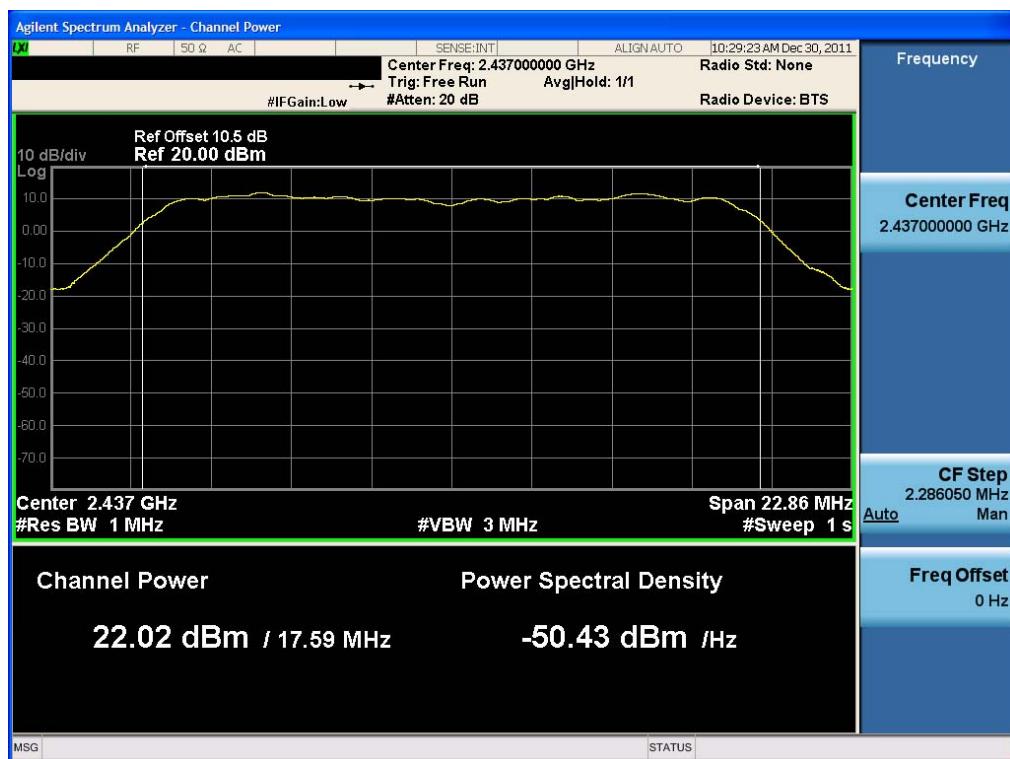


### Conducted Output Power (802.11g-CH 6) 18Mbps



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Test Report No. HCTR1201FR08-1	Date of Issue: January 26, 2012	EUT Type: 850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGTS3770M

### Conducted Output Power (802.11g-CH 6) 24Mbps



### Conducted Output Power (802.11g-CH 6) 36Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			<a href="http://www.hct.co.kr">www.hct.co.kr</a>
Test Report No. HCTR1201FR08-1	Date of Issue: January 26, 2012	EUT Type: 850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGTS3770M