

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: November 15, 2011 Test Site/Location: HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon, Icheon-si, Kyunggi-Do, Korea Report No.: HCTR1110FR12-2 HCT FRN: 0005866421
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FCC ID: **A3LGTS5830I**

APPLICANT: **SAMSUNG Electronics Co., Ltd.**

FCC Model(s):	GT-S5830i
EUT Type:	850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only
Max. RF Output Power:	Wi-Fi 802.11b(23.43 dBm) / Wi-Fi 802.11g (22.58 dBm) / Wi-Fi 802.11n (20.53 dBm)
Frequency Range:	2412 MHz -2462 MHz
Modulation type	CCK/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.

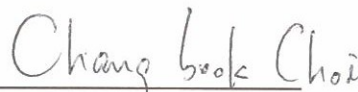
HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)



Report prepared by

: Jong Seok Lee

Test engineer of RF Team



Approved by

: Chang Seok Choi

Manager of RF Team

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FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGT5830I	

Version

TEST REPORT NO.	DATE	DESCRIPTION
HCTR1110FR12	October 27, 2011	- First Approval Report
HCTR1110FR12-1	November 11, 2011	- described in greater detail the analyzer settings
HCTR1110FR12-2	November 15, 2011	- Re-tested Conducted Power

Table of Contents

1. GENERAL INFORMATION	4
2. EUT DESCRIPTION	4
3. TEST METHODOLOGY	5
3.1 EUT CONFIGURATION	5
3.2 EUT EXERCISE	5
3.3 GENERAL TEST PROCEDURES	5
3.4 DESCRIPTION OF TEST MODES	5
4. INSTRUMENT CALIBRATION.....	6
5. FACILITIES AND ACCREDITATIONS	6
5.1 FACILITIES	6
5.2 EQUIPMENT	6
6. ANTENNA REQUIREMENTS	7
7. TEST RESULT	8
7.1 6dB BANDWIDTH MEASUREMENT (802.11b/g/n).....	8
7.2 OUTPUT POWER MEASUREMENT (802.11b/g/n).....	1 5
7.3 POWER SPECTRAL DENSITY (802.11b/g/n).....	8 2
7.4 OUT OF BAND EMISSIONS AT THE BAND EDGE/ CONDUCTED SPURIOUS EMISSIONS ...	8 8
7.5 RADIATED MEASUREMENT.....	1 0 2
7.5.1 RADIATED SPURIOUS EMISSIONS.....	1 0 2
7.5.2 RADIATED RESTRICTED BAND EDGE MEASUREMENTS	1 1 0
7.6 POWERLINE CONDUCTED EMISSIONS	1 1 1
8. LIST OF TEST EQUIPMENT	1 1 6

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGTS5830I



1. GENERAL INFORMATION

Applicant: SAMSUNG Electronics Co., Ltd.
Address: 416, Maetan-3dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea

FCC ID: A3LGTS5830I
EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only
Model Name: GT-S5830i
Date(s) of Tests: October 23, 2011 ~ October 25, 2011
Contact Person: Name: Jae Un Rho
Phone #: +82-54-479-8562

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

EUT Type	850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	
Model Name	GT-S5830i	
Version	Hardware : REV1.0/ Software : S5830i.001	
Power Supply	DC 3.7 V	
Battery type	Li-ion Battery(Standard)	
Frequency Range	TX: 2412 MHz ~ 2462 MHz RX: 2412 MHz ~ 2462 MHz	
Max. RF Output Power:	Peak:	Wi-Fi 802.11b(23.43 dBm) / Wi-Fi 802.11g (22.58 dBm) / Wi-Fi 802.11n (20.53 dBm)
	Average:	Wi-Fi 802.11b(16.60 dBm) / Wi-Fi 802.11g (13.80 dBm) / Wi-Fi 802.11n (11.76 dBm)
Modulation Type	DSSS/CCK(802.11b), OFDM(802.11g, 802.11n)	
Antenna Specification	Manufacturer: PARTRON Antenna type: FPCB Antenna Peak Gain : -3.26 dBi	

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Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGTS5830I

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.

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGTS5830I

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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Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGTS5830I

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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Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGTS5830I

7. TEST RESULT

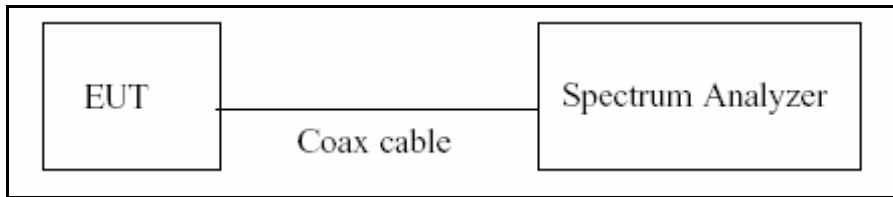
7.1 6dB BANDWIDTH MEASUREMENT (802.11b/g/n)

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: 100 kHz

VBW: 100 kHz

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	8.097	0.500	Pass
2437	6	8.571	0.500	Pass
2462	11	8.594	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	15.12	0.500	Pass
2437	6	15.14	0.500	Pass
2462	11	15.13	0.500	Pass

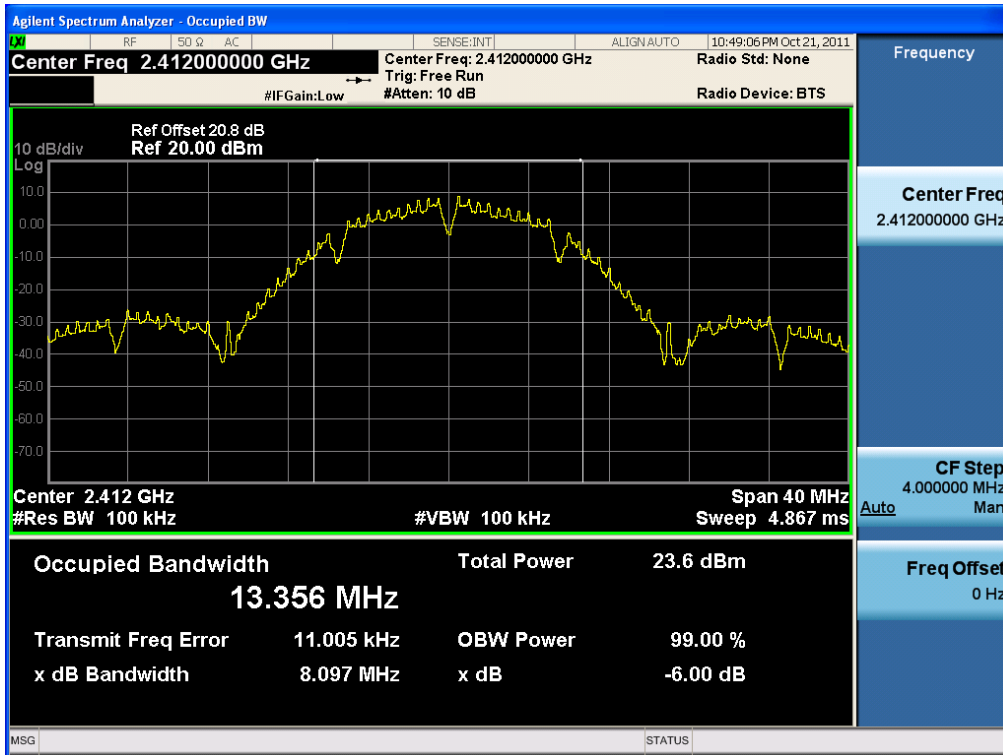
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Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGTS5830I

Conducted 6dB Bandwidth Measurements for 802.11n

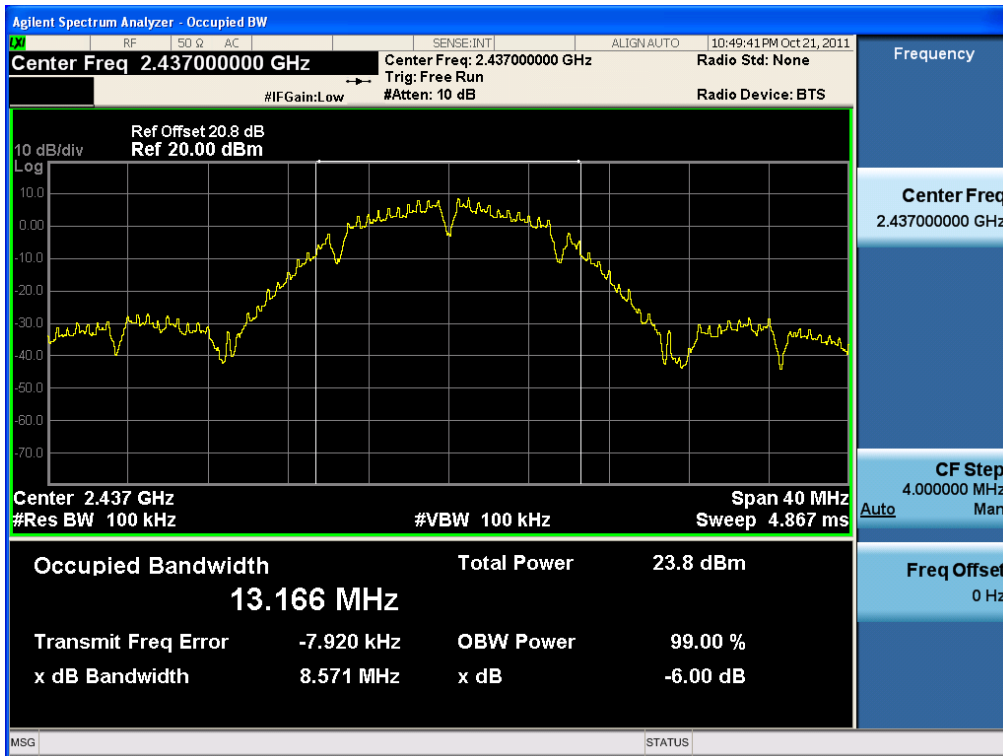
802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	15.12	0.500	Pass
2437	6	15.09	0.500	Pass
2462	11	15.11	0.500	Pass

RESULT PLOTS

6dB Bandwidth plot (802.11b-CH 1)

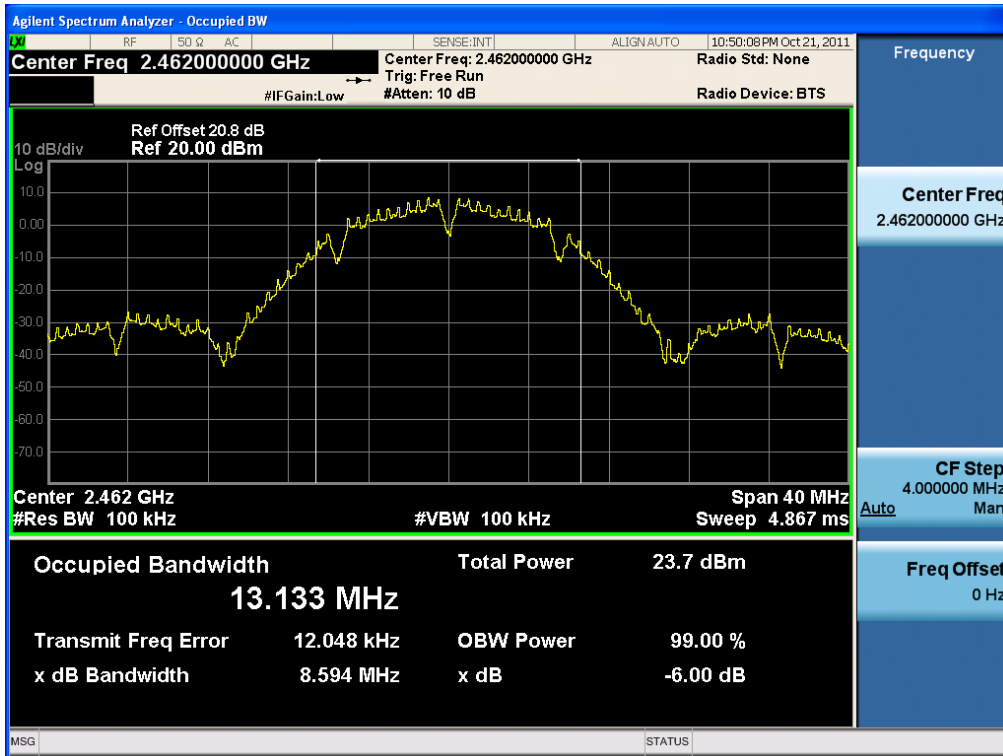


6dB Bandwidth plot (802.11b-CH 6)

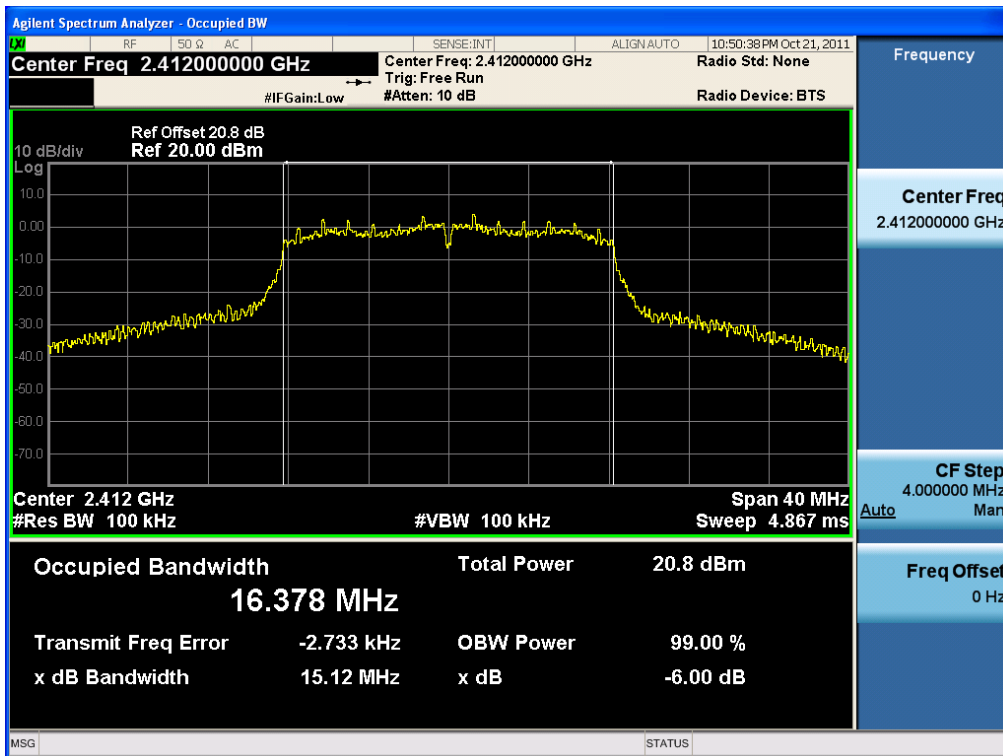


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Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGTS5830I

6dB Bandwidth plot (802.11b-CH 11)

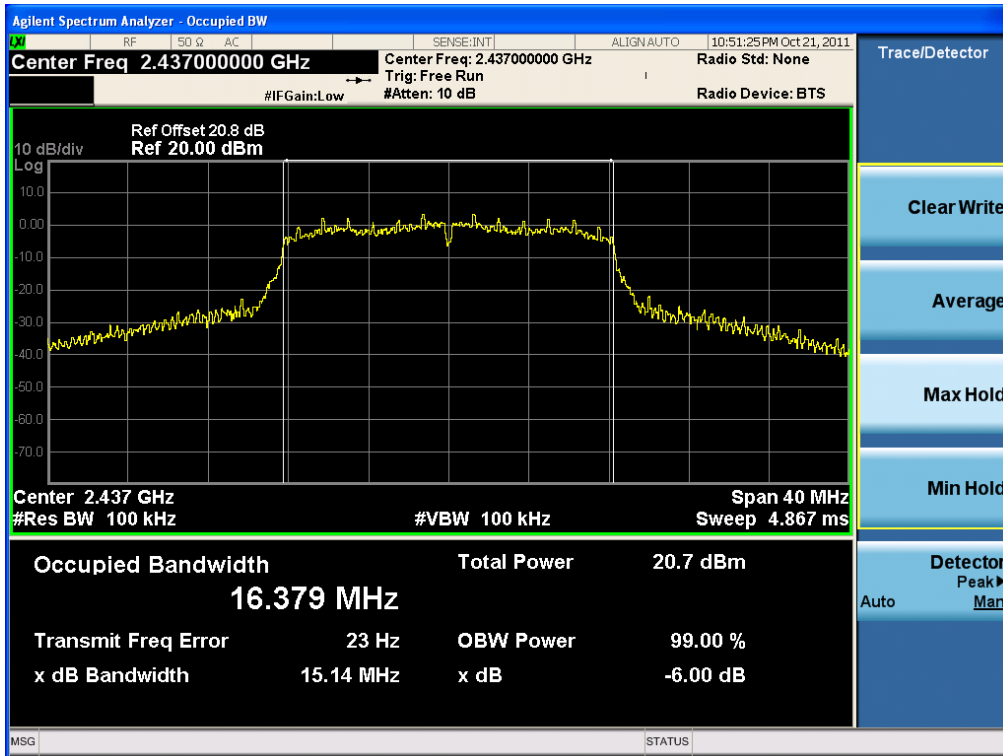


6dB Bandwidth plot (802.11g-CH 1)

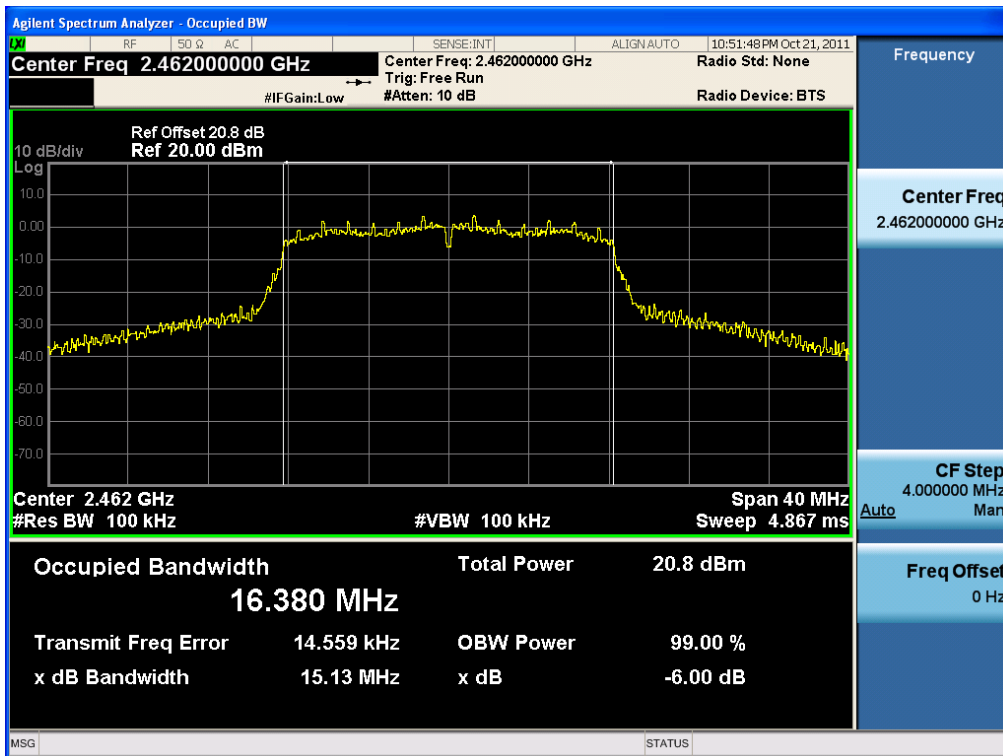


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Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGT5830I

6dB Bandwidth plot (802.11g-CH 6)

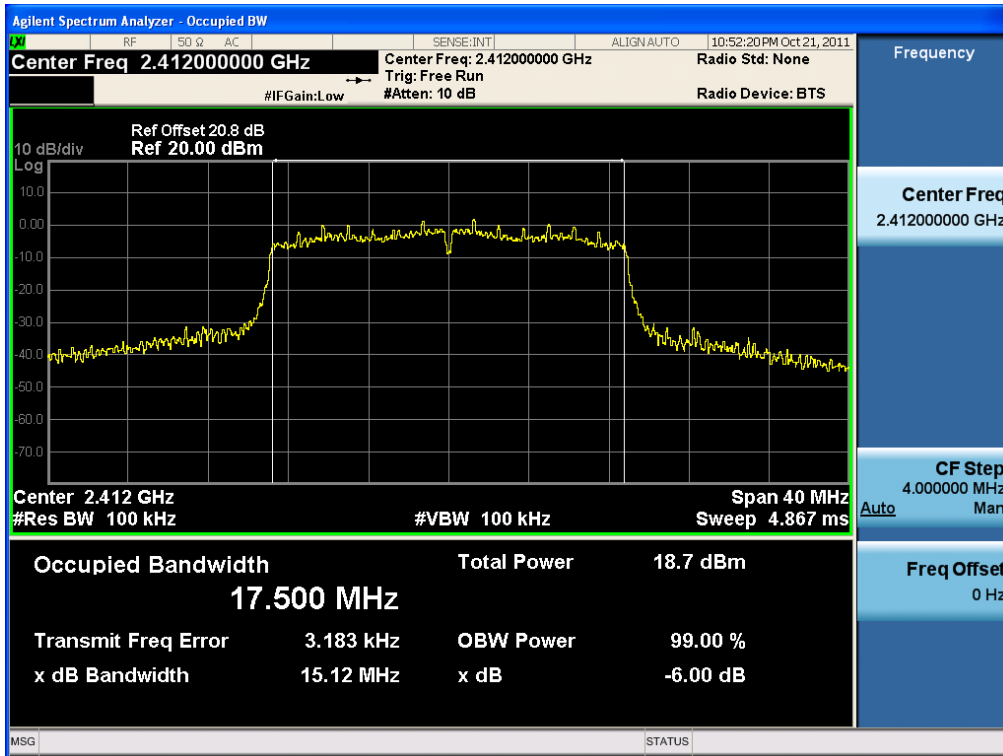


6dB Bandwidth plot (802.11g-CH 11)

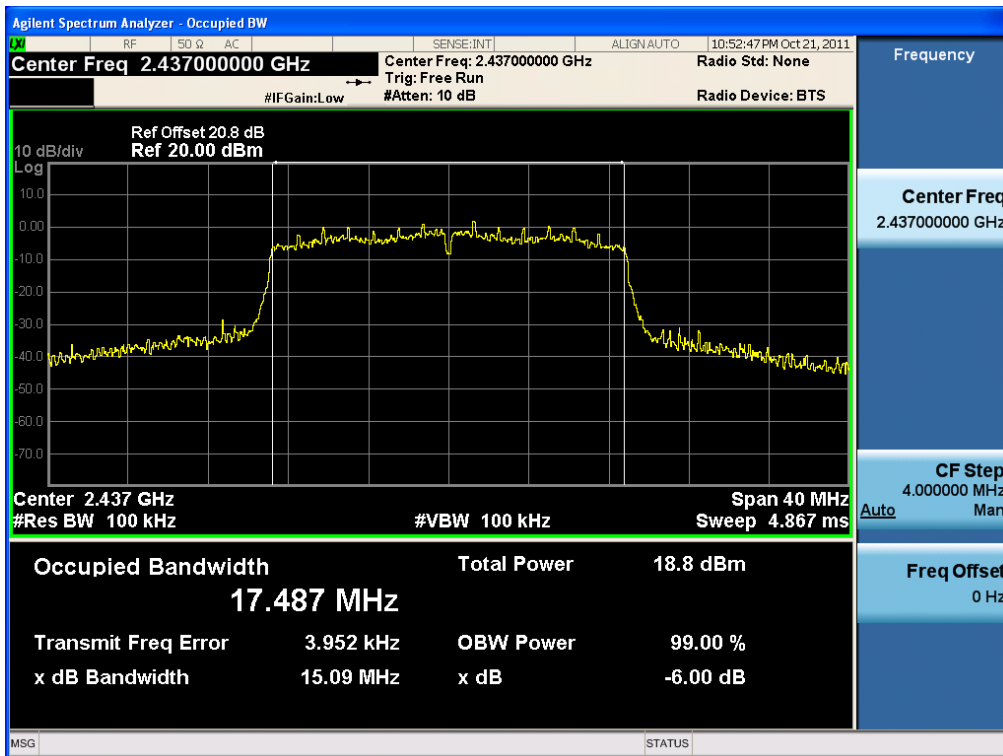


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGT5830I

6dB Bandwidth plot (802.11n-CH 1)

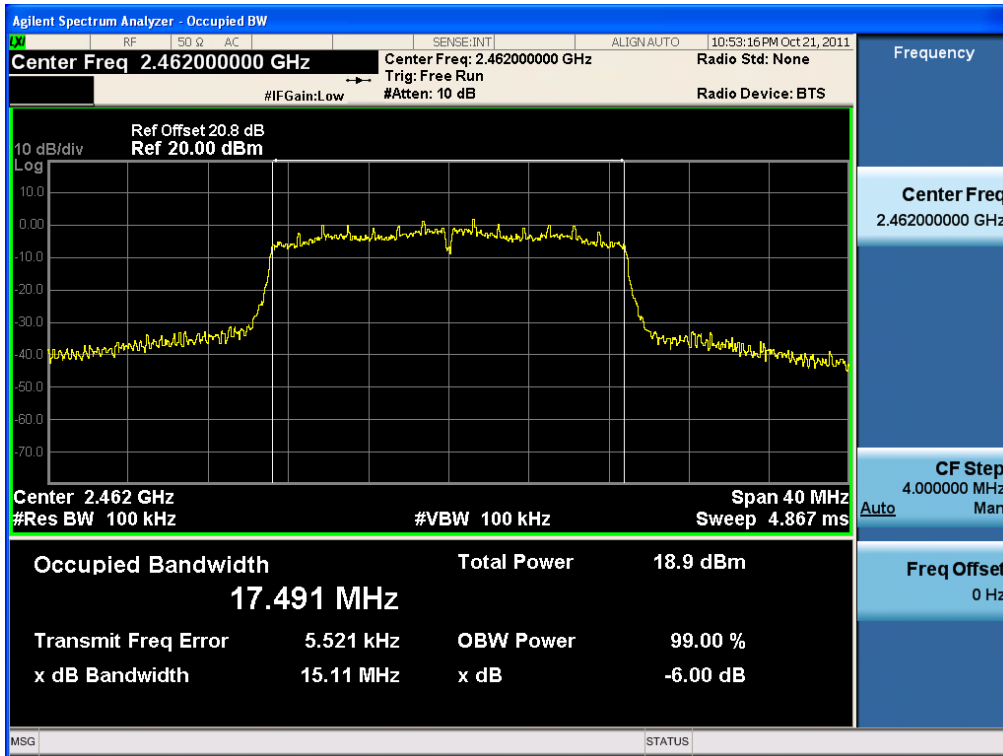


6dB Bandwidth plot (802.11n-CH 6)



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Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGT5830I

6dB Bandwidth plot (802.11n-CH 11)



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Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGTS5830I

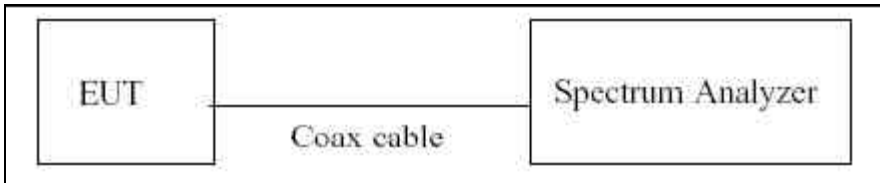
7.2 OUTPUT POWER MEASUREMENT (802.11b/g/n)

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.

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

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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	19.58	30
		2 Mbps	20.14	30
		5.5 Mbps	21.80	30
		11 Mbps	22.89	30
2437	6	1 Mbps	19.73	30
		2 Mbps	20.21	30
		5.5 Mbps	21.90	30
		11 Mbps	23.43	30
2462	11	1 Mbps	19.17	30
		2 Mbps	19.56	30
		5.5 Mbps	21.23	30
		11 Mbps	22.94	30

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	21.88	30
		9 Mbps	21.97	30
		12 Mbps	21.99	30
		18 Mbps	22.01	30
		24 Mbps	22.48	30
		36 Mbps	22.40	30
		48 Mbps	22.58	30
		54 Mbps	22.53	30
2437	6	6 Mbps	21.84	30
		9 Mbps	21.80	30
		12 Mbps	21.90	30
		18 Mbps	21.63	30
		24 Mbps	22.44	30
		36 Mbps	22.22	30
		48 Mbps	22.46	30
		54 Mbps	22.51	30
2462	11	6 Mbps	21.96	30
		9 Mbps	21.69	30
		12 Mbps	21.49	30
		18 Mbps	21.51	30
		24 Mbps	22.15	30
		36 Mbps	22.00	30
		48 Mbps	22.12	30
		54 Mbps	22.16	30

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	65 Mbps	19.72	30
		13 Mbps	19.77	30
		19.5 Mbps	19.71	30
		26 Mbps	20.22	30
		39 Mbps	20.17	30
		52 Mbps	20.19	30
		58.5 Mbps	20.21	30
		65 Mbps	20.20	30
2437	6	65 Mbps	19.80	30
		13 Mbps	19.85	30
		19.5 Mbps	19.84	30
		26 Mbps	20.36	30
		39 Mbps	20.32	30
		52 Mbps	20.26	30
		58.5 Mbps	20.35	30
		65 Mbps	20.24	30
2462	11	65 Mbps	19.77	30
		13 Mbps	19.86	30
		19.5 Mbps	19.79	30
		26 Mbps	20.50	30
		39 Mbps	20.33	30
		52 Mbps	20.34	30
		58.5 Mbps	20.39	30
		65 Mbps	20.53	30

■ 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	16.22	30
		2 Mbps	16.27	30
		5.5 Mbps	16.42	30
		11 Mbps	16.13	30
2437	6	1 Mbps	16.44	30
		2 Mbps	16.42	30
		5.5 Mbps	16.60	30
		11 Mbps	16.21	30
2462	11	1 Mbps	16.34	30
		2 Mbps	16.24	30
		5.5 Mbps	16.54	30
		11 Mbps	16.06	30

Conducted Output Power Measurements (802.11g Mode)

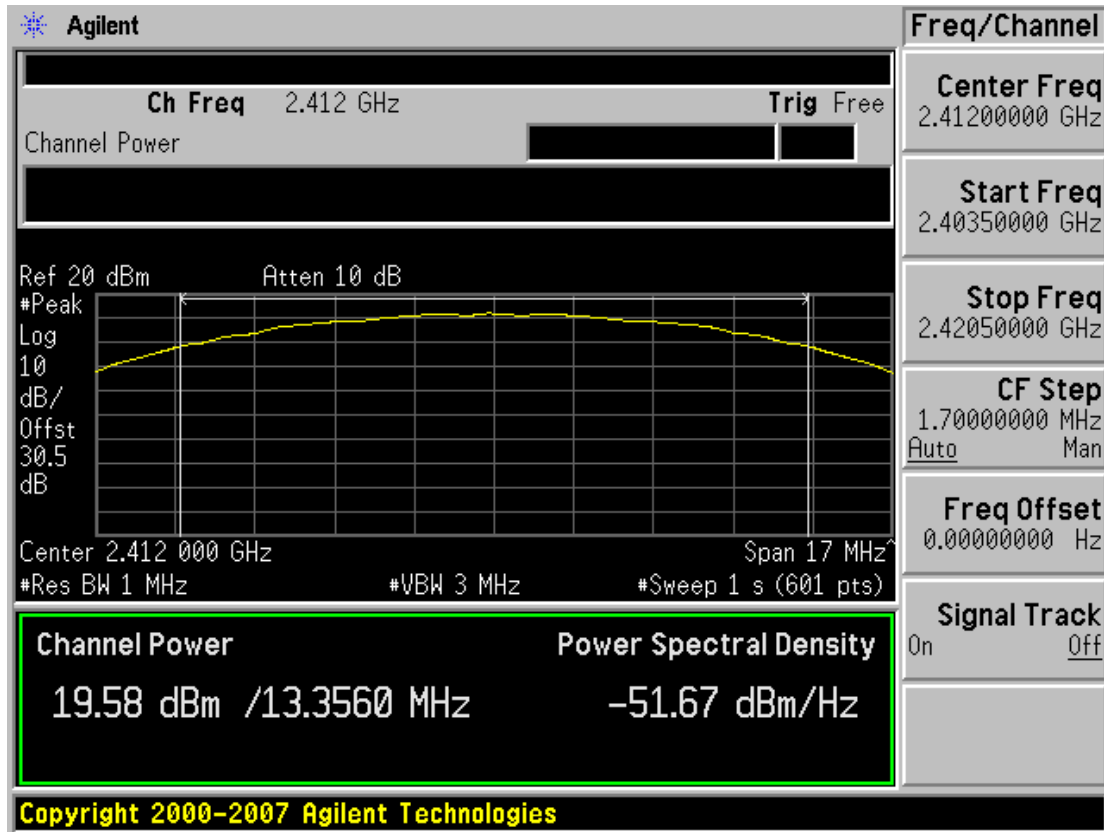
802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	13.52	30
		9 Mbps	13.52	30
		12 Mbps	13.41	30
		18 Mbps	13.20	30
		24 Mbps	13.03	30
		36 Mbps	12.64	30
		48 Mbps	12.21	30
		54 Mbps	12.11	30
2437	6	6 Mbps	13.76	30
		9 Mbps	13.72	30
		12 Mbps	13.54	30
		18 Mbps	13.32	30
		24 Mbps	13.17	30
		36 Mbps	12.72	30
		48 Mbps	12.32	30
		54 Mbps	12.29	30
2462	11	6 Mbps	13.80	30
		9 Mbps	13.40	30
		12 Mbps	13.33	30
		18 Mbps	13.10	30
		24 Mbps	12.86	30
		36 Mbps	12.44	30
		48 Mbps	12.06	30
		54 Mbps	11.99	30

Conducted Output Power Measurements (802.11n Mode)

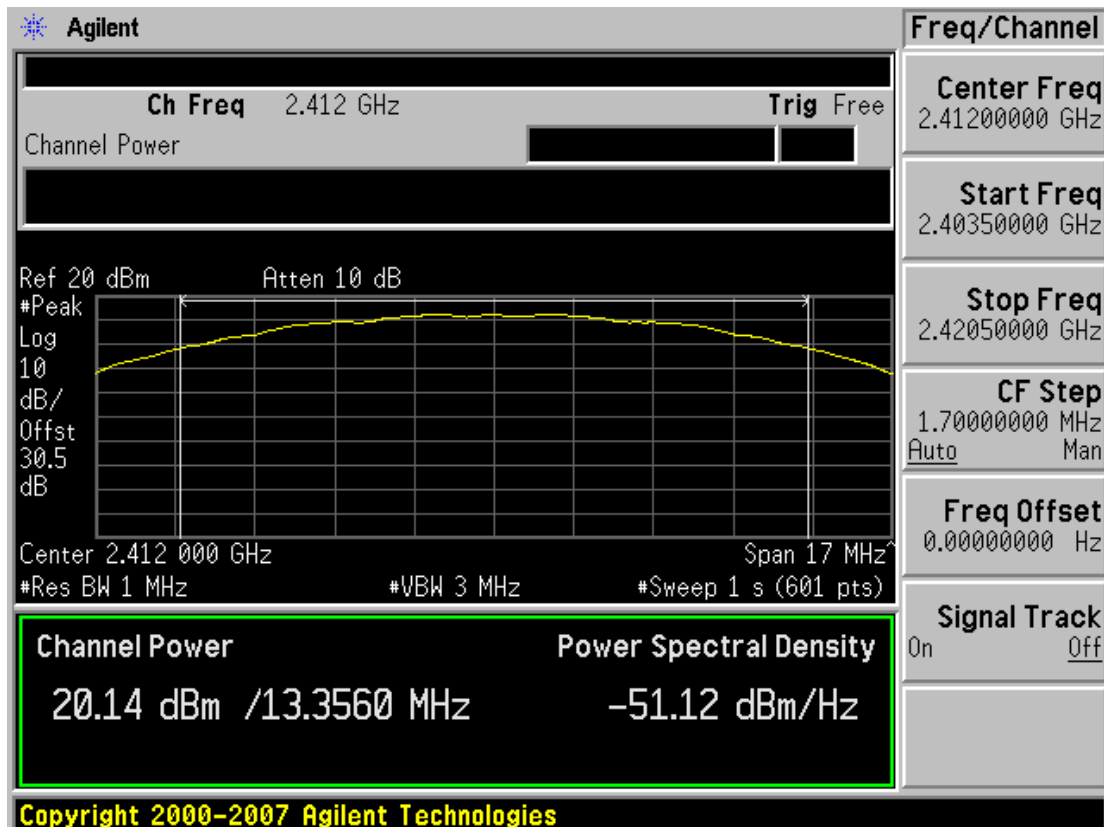
802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	65 Mbps	11.67	30
		13 Mbps	11.44	30
		19.5 Mbps	11.24	30
		26 Mbps	10.99	30
		39 Mbps	10.58	30
		52 Mbps	10.27	30
		58.5 Mbps	10.17	30
		65 Mbps	10.01	30
2437	6	65 Mbps	11.72	30
		13 Mbps	11.36	30
		19.5 Mbps	11.15	30
		26 Mbps	10.96	30
		39 Mbps	10.52	30
		52 Mbps	10.19	30
		58.5 Mbps	10.11	30
		65 Mbps	9.98	30
2462	11	65 Mbps	11.76	30
		13 Mbps	11.46	30
		19.5 Mbps	11.19	30
		26 Mbps	10.98	30
		39 Mbps	10.62	30
		52 Mbps	10.23	30
		58.5 Mbps	10.12	30
		65 Mbps	10.01	30

RESULT PLOTS-Peak

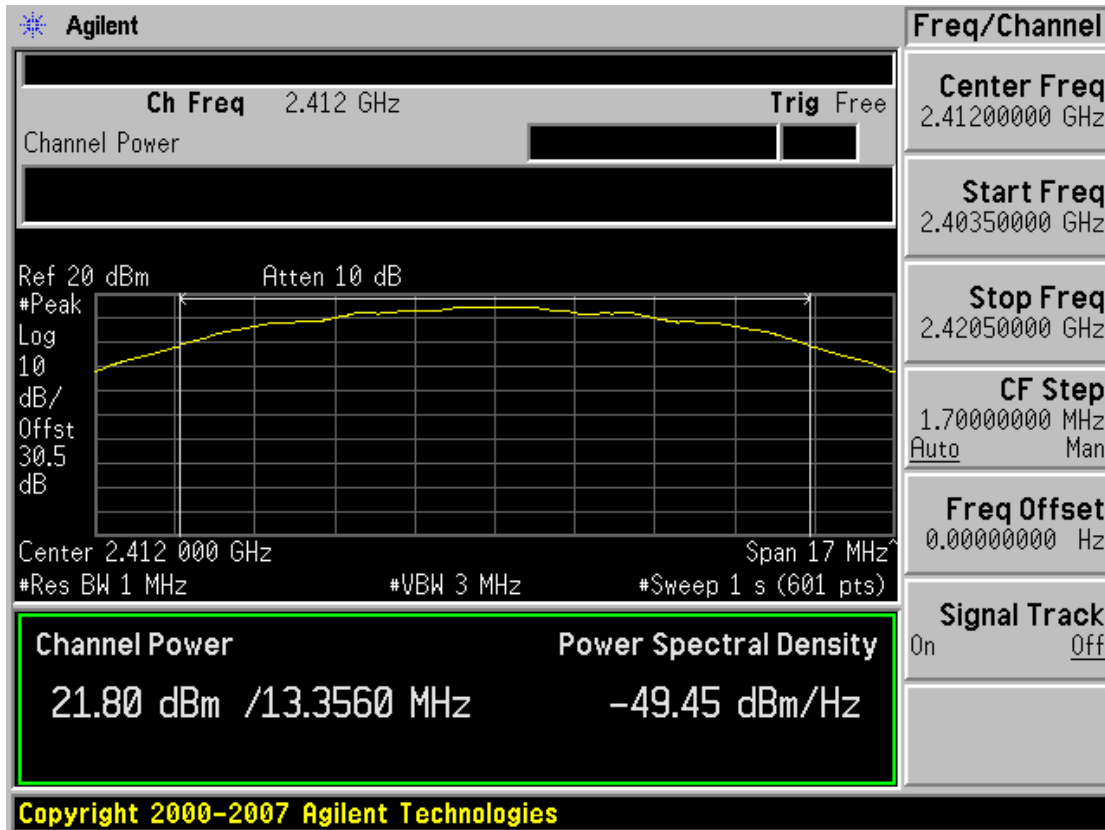
Conducted Output Power (802.11b-CH 1) 1Mbps



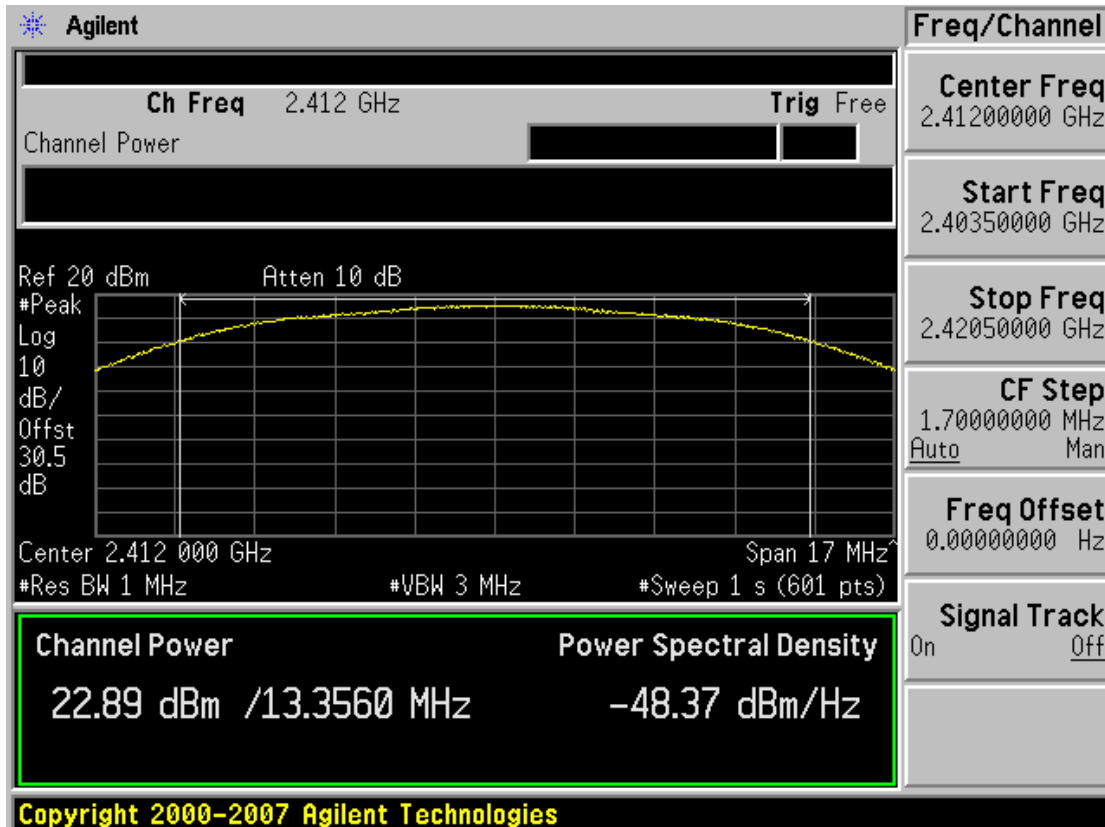
Conducted Output Power (802.11b-CH 1) 2Mbps



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

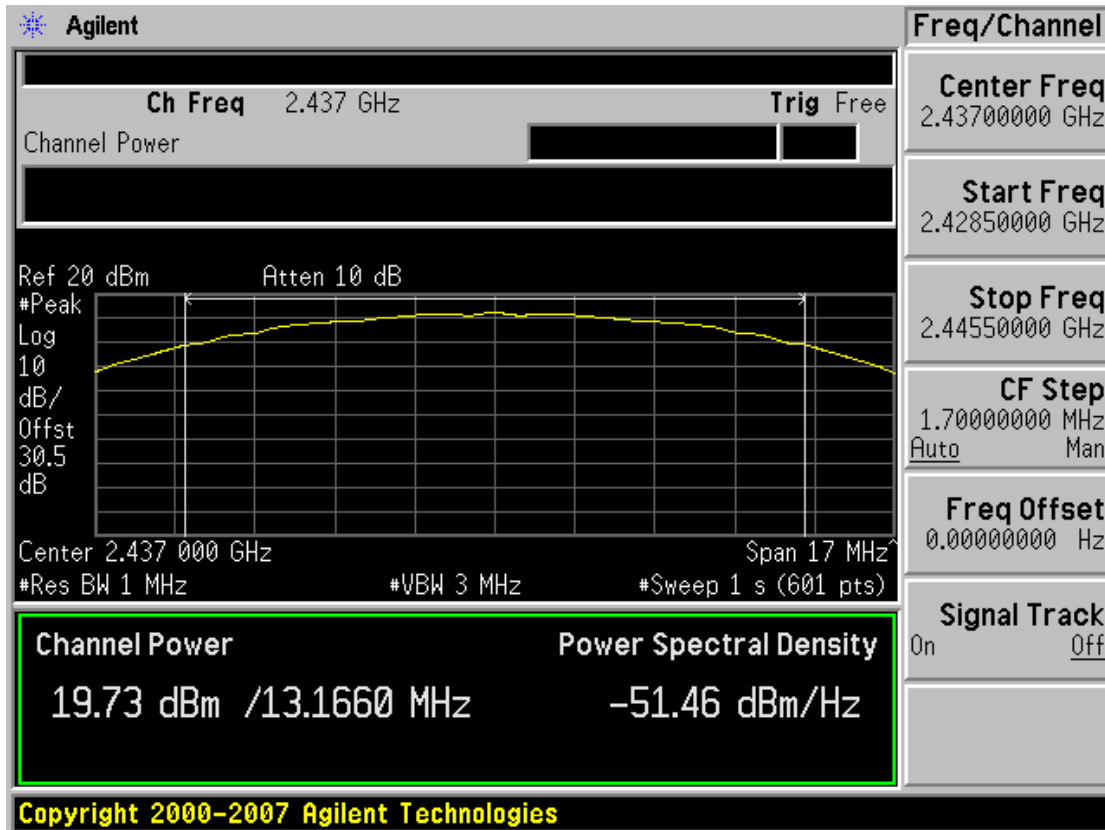


Conducted Output Power (802.11b-CH 1) 11Mbps

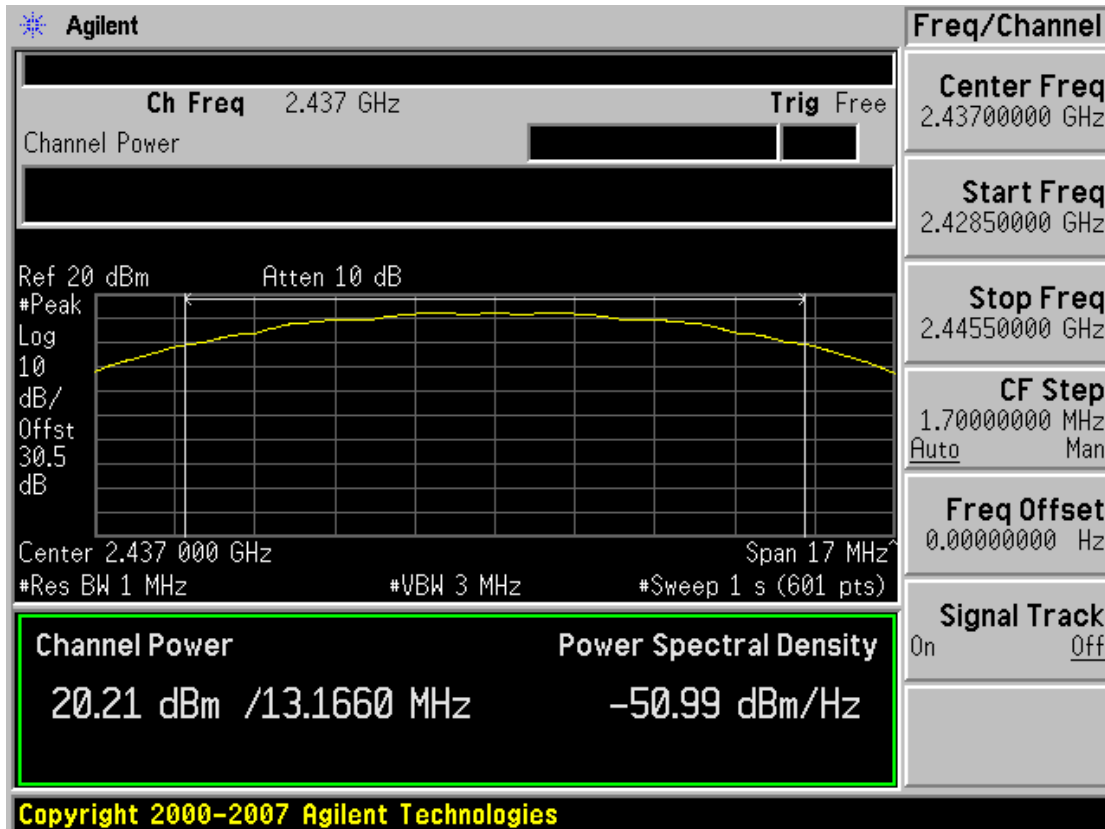


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Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGT5830I

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

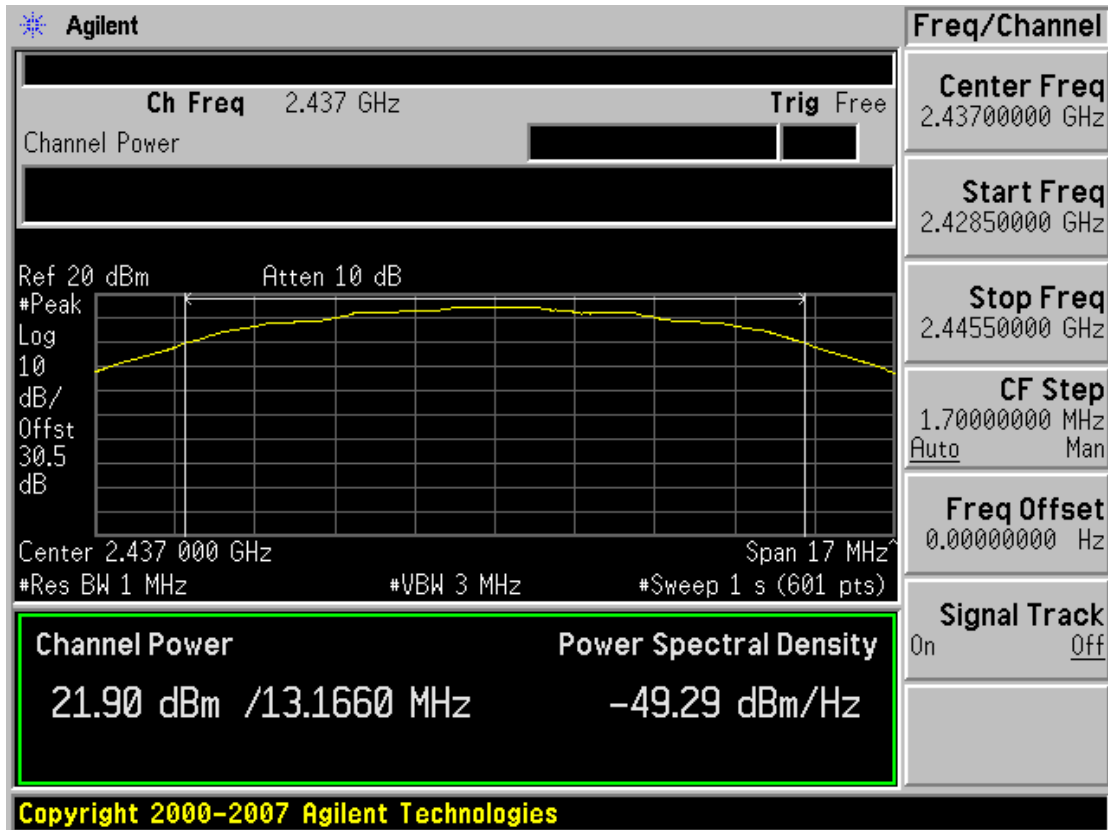


Conducted Output Power (802.11b-CH 6) 2Mbps

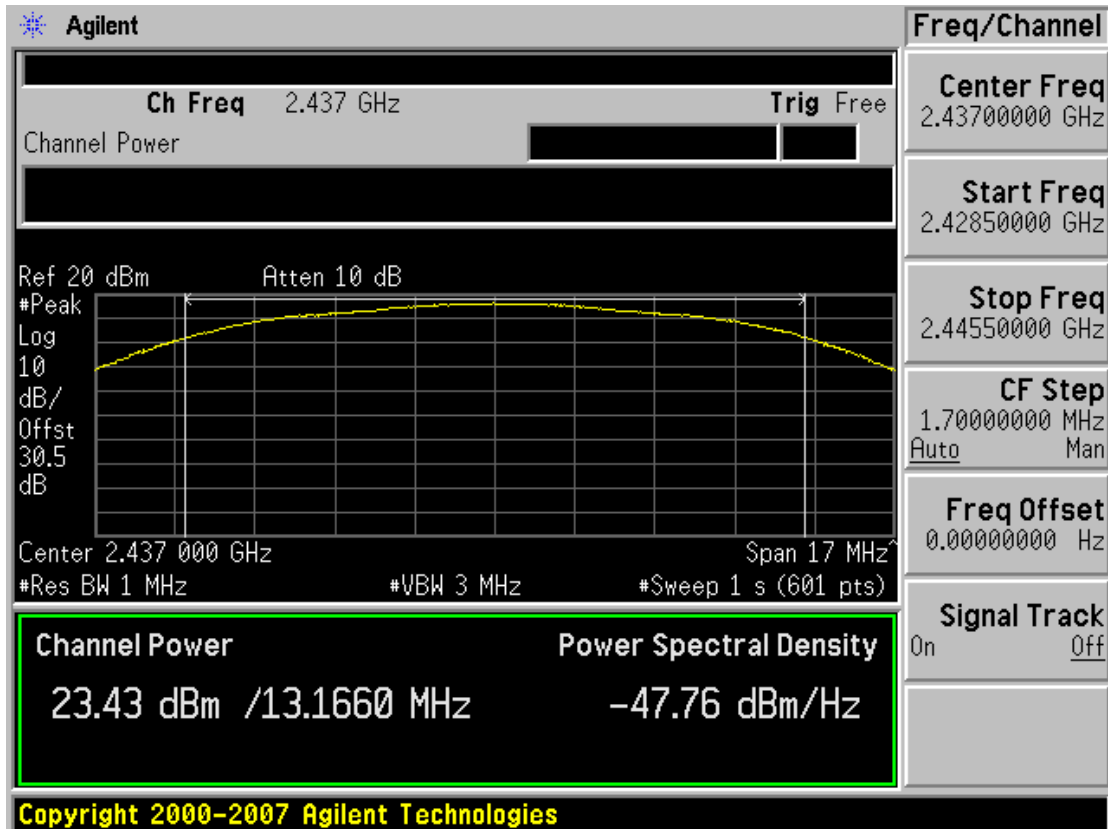


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGT5830I

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

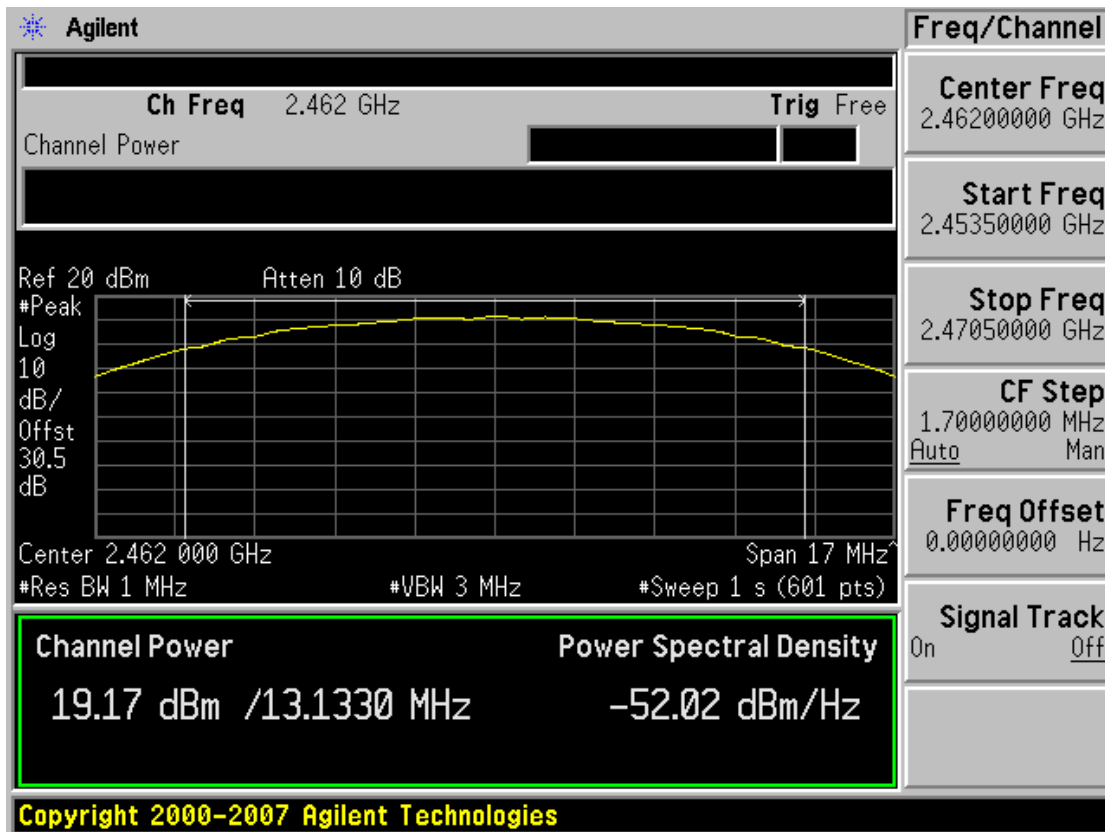


Conducted Output Power (802.11b-CH 6) 11Mbps

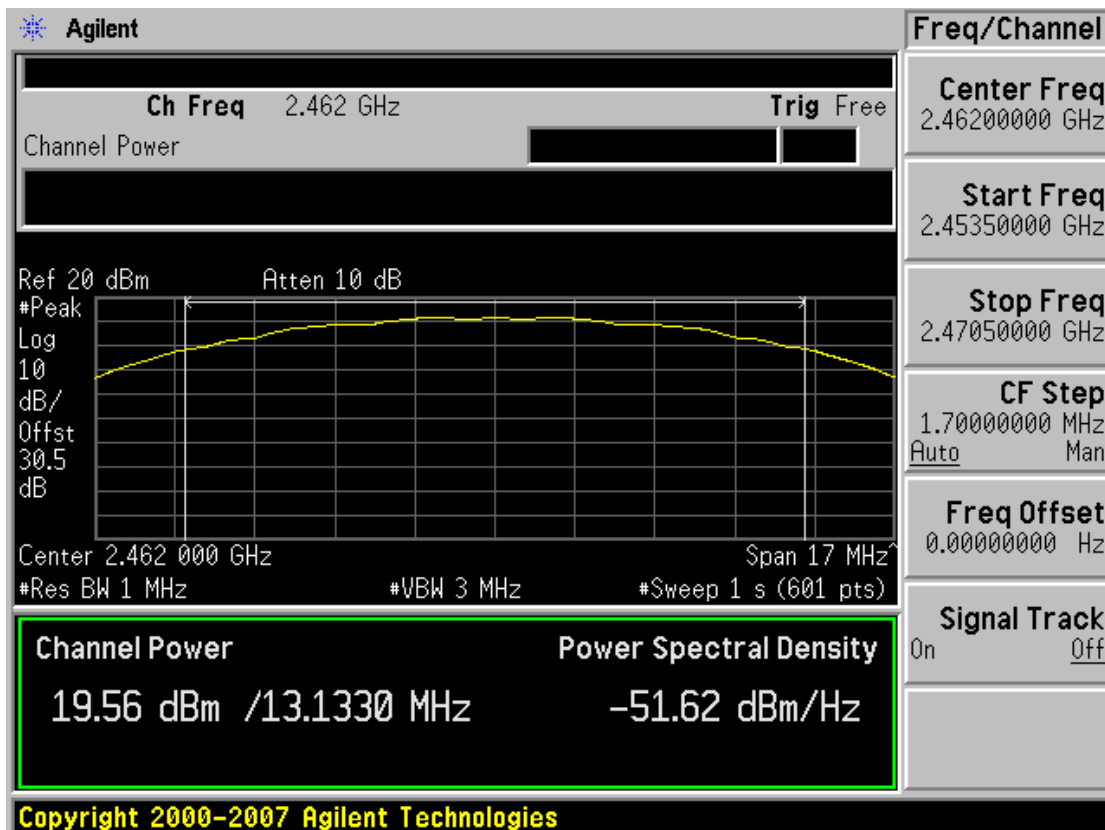


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGT5830I

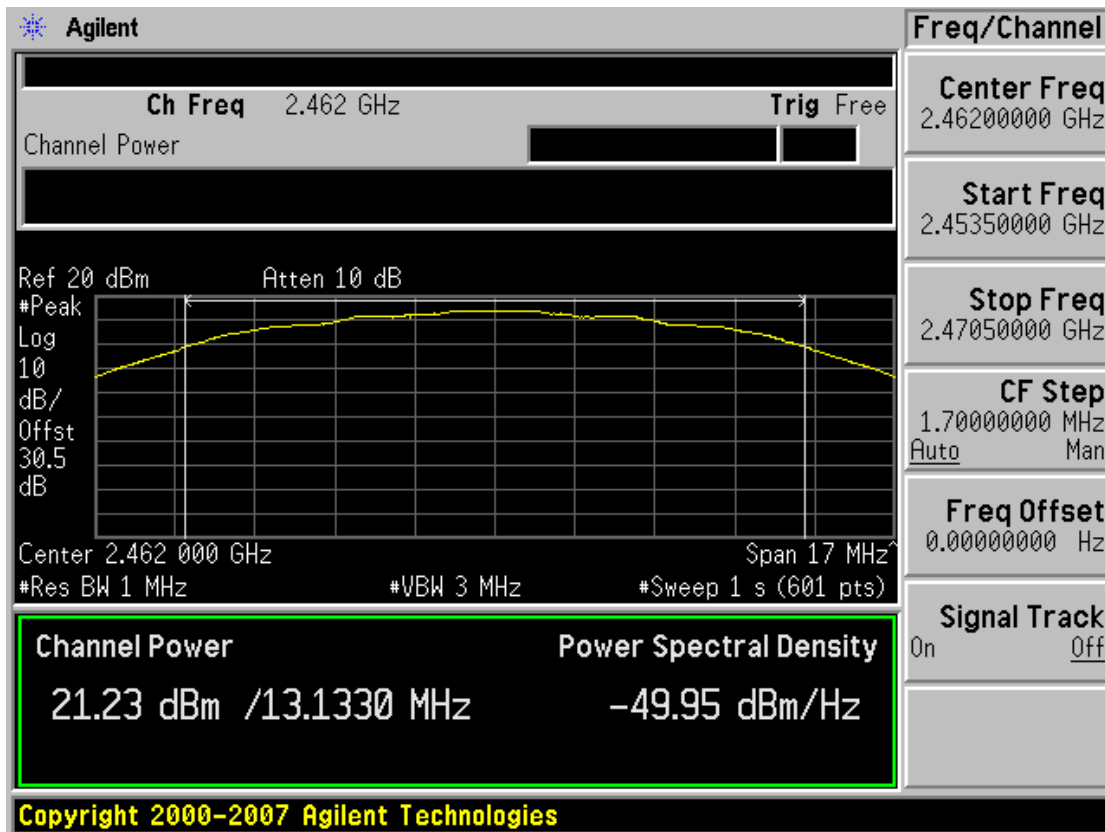
Conducted Output Power (802.11b-CH 11) 1Mbps



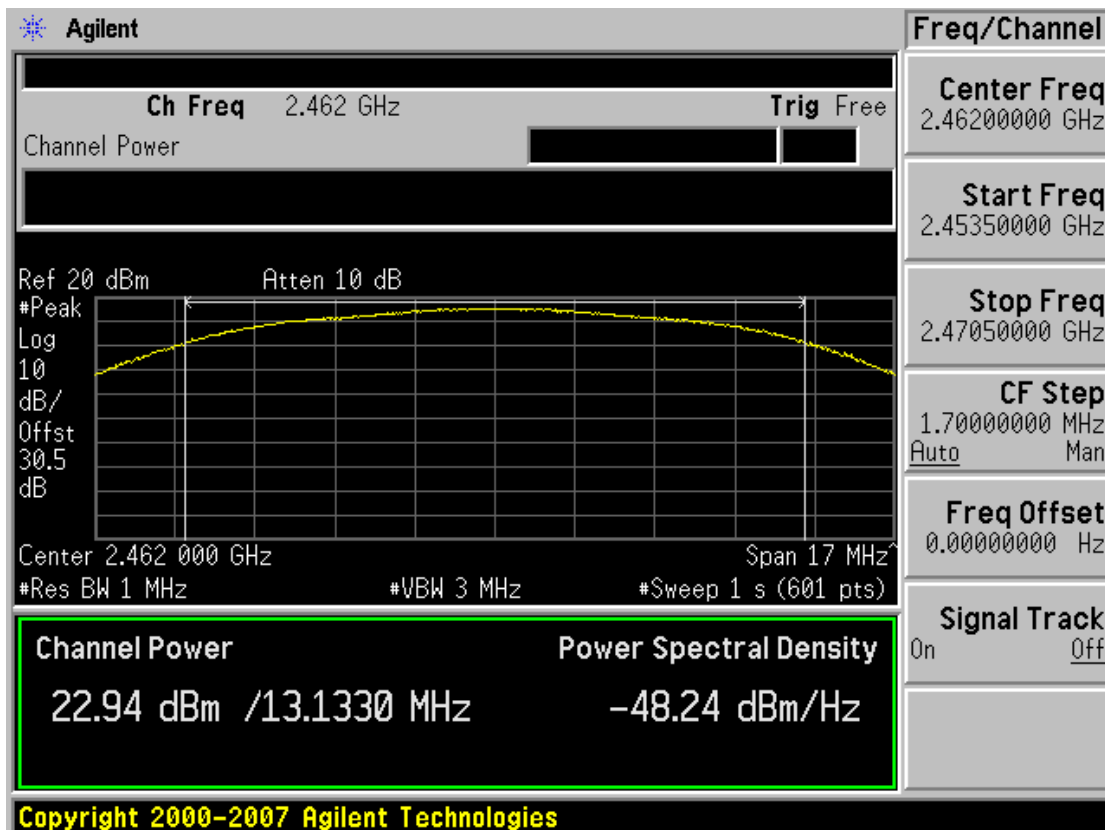
Conducted Output Power (802.11b-CH 11) 2Mbps



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

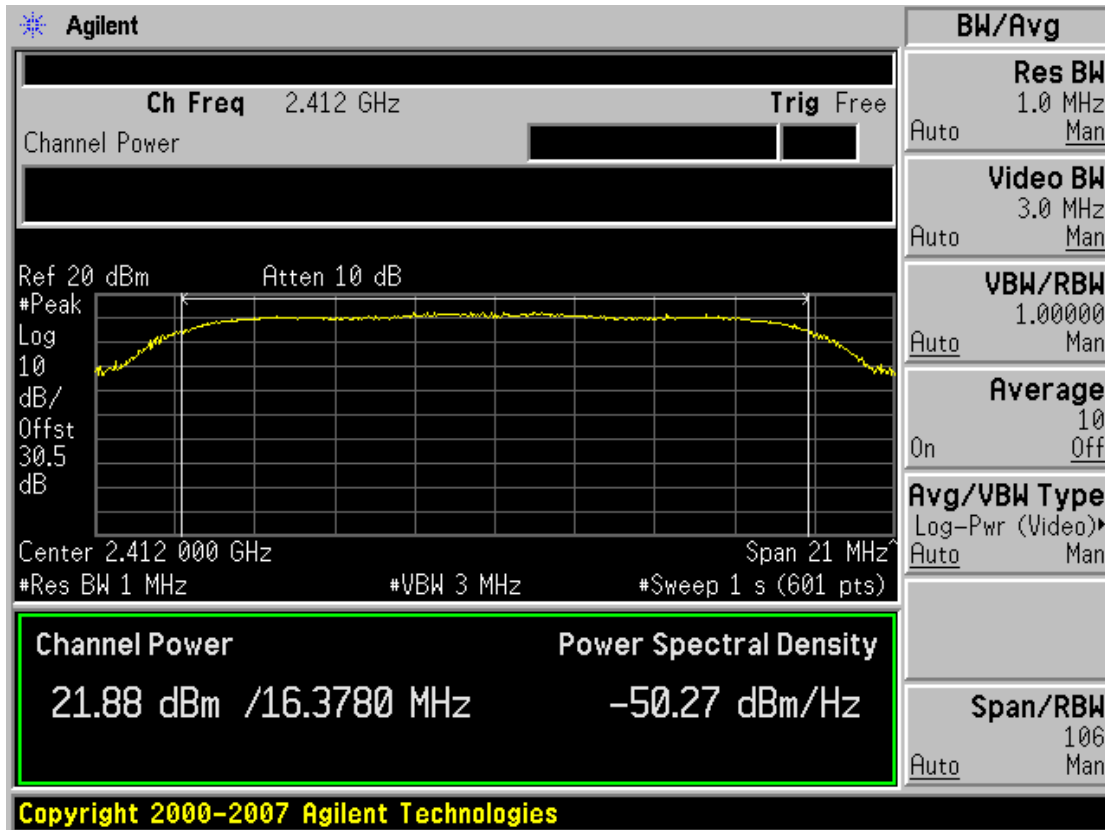


Conducted Output Power (802.11b-CH 11) 11Mbps

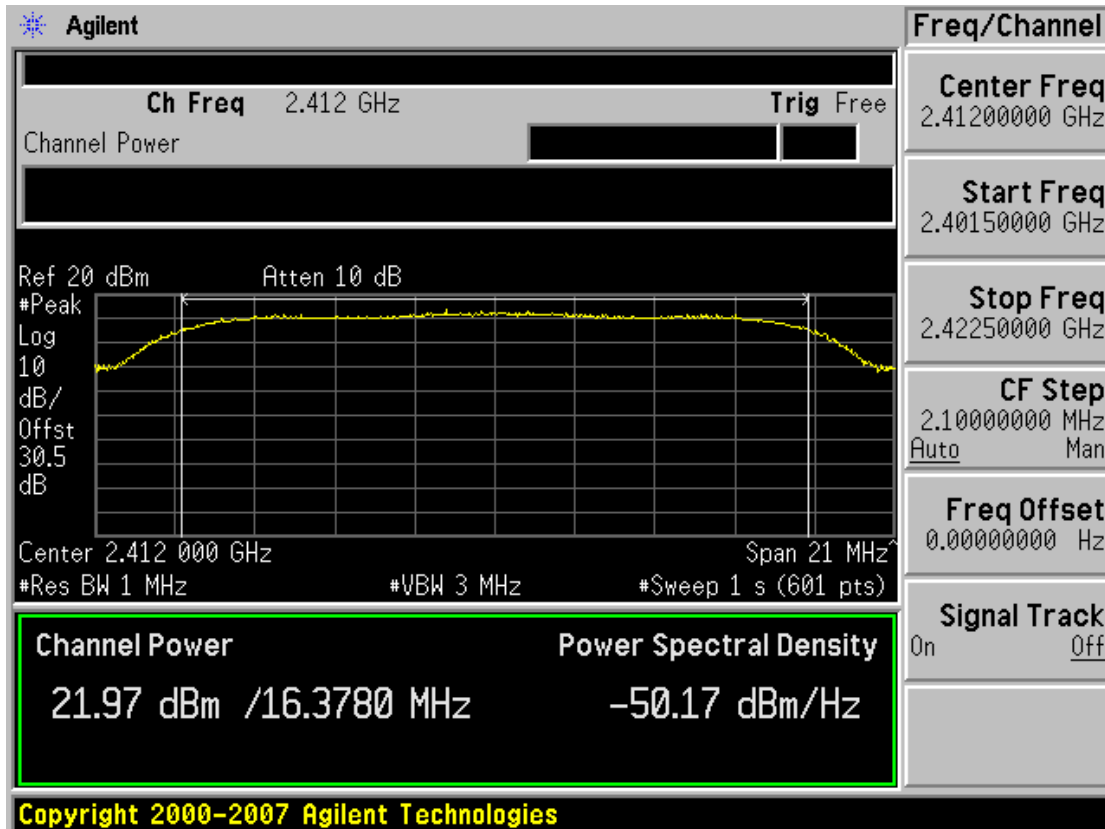


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGT5830I

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

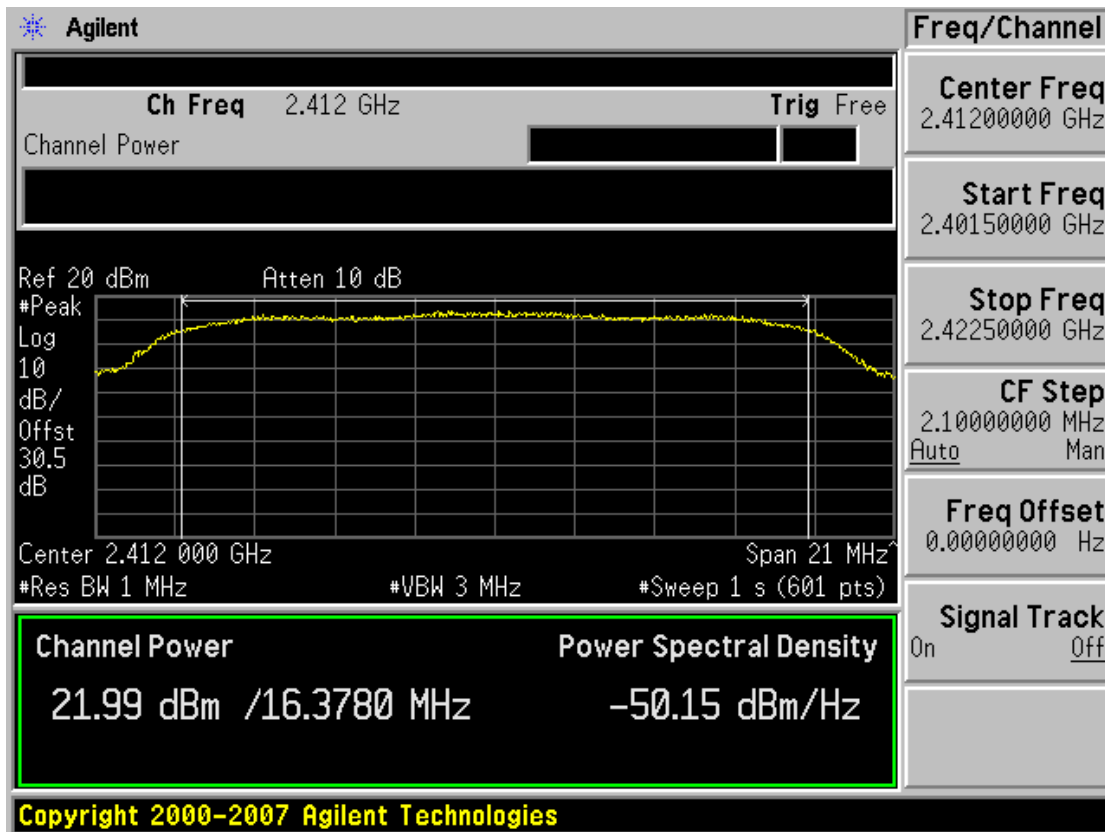


Conducted Output Power (802.11g-CH 1) 9Mbps

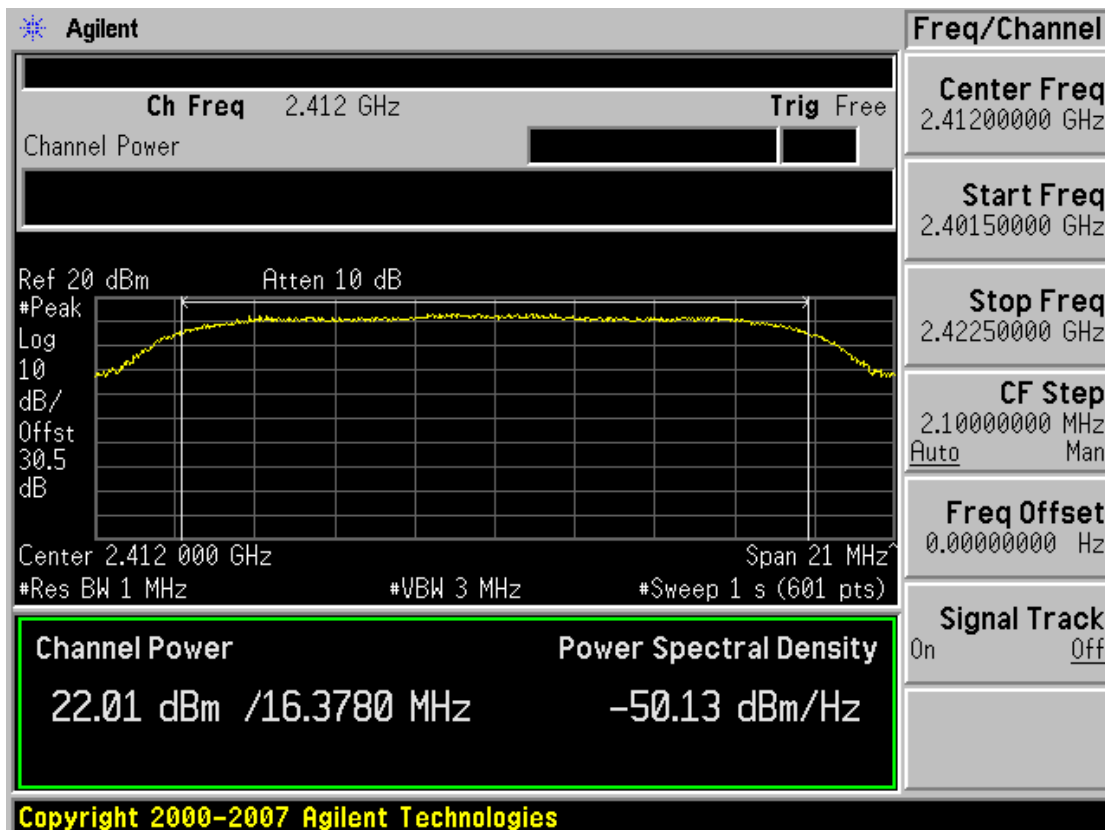


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGT5830I

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

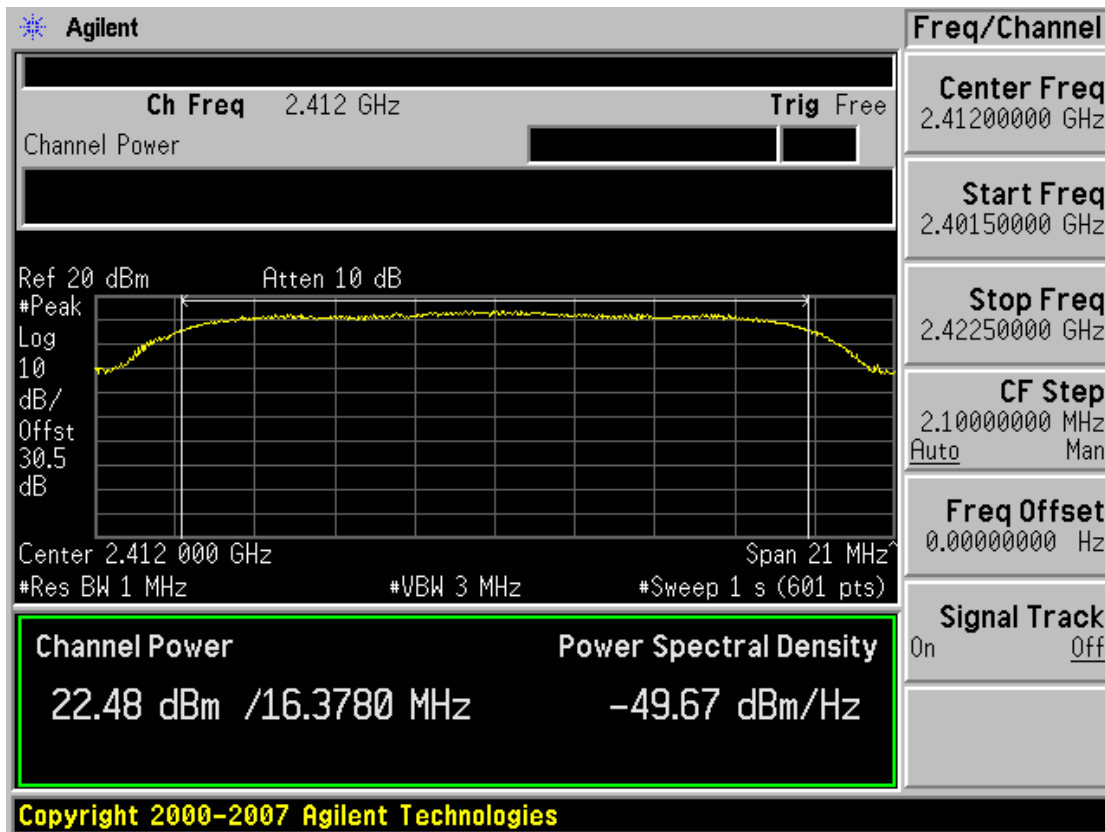


Conducted Output Power (802.11g-CH 1) 18Mbps

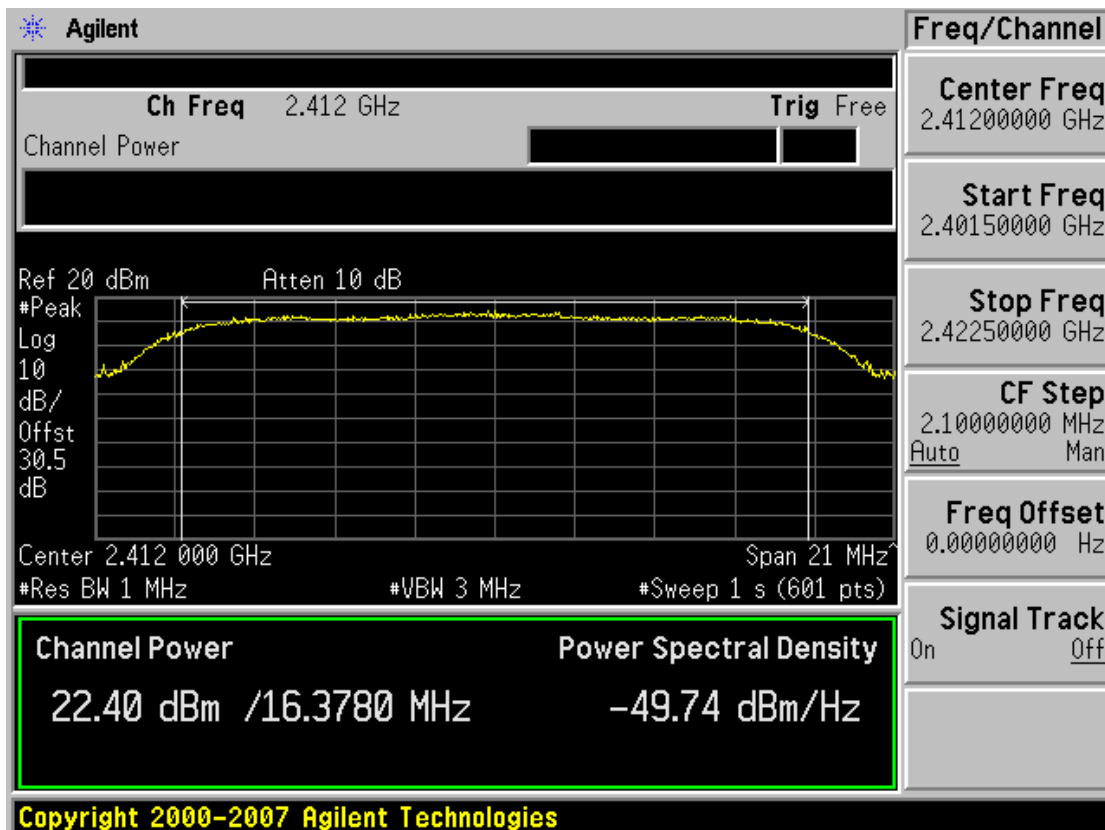


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGT5830I

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

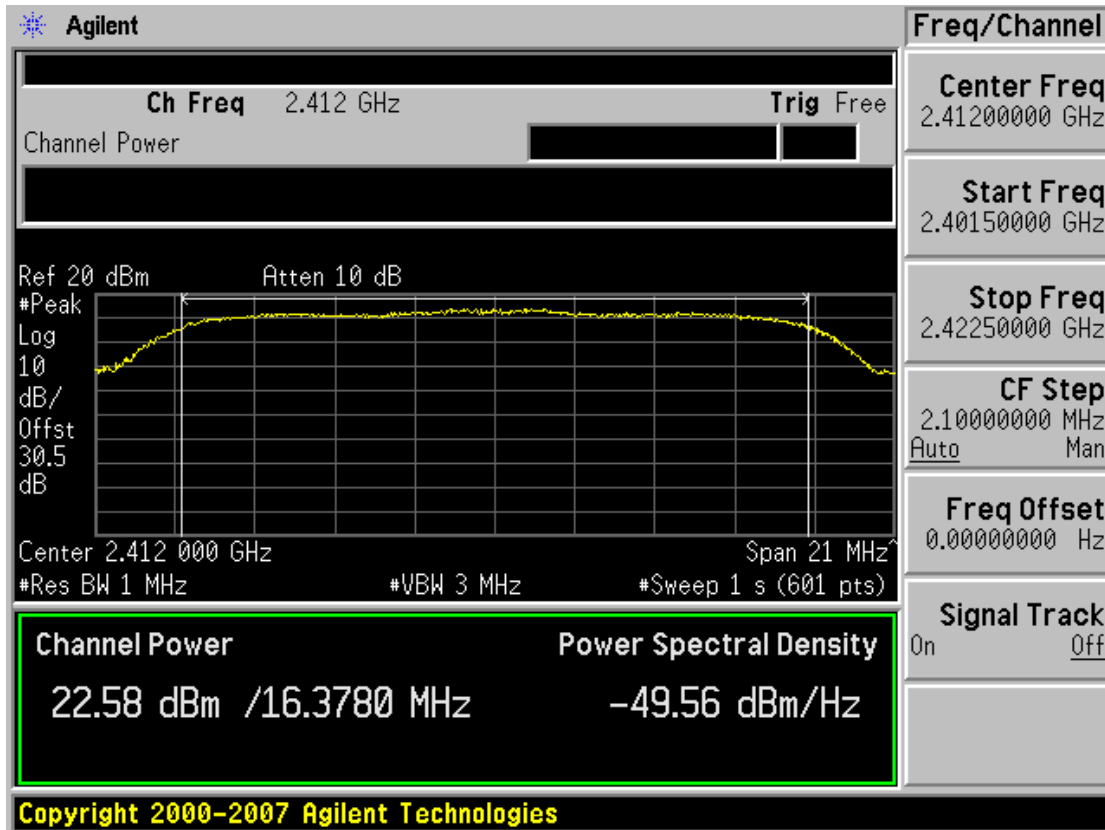


Conducted Output Power (802.11g-CH 1) 36Mbps

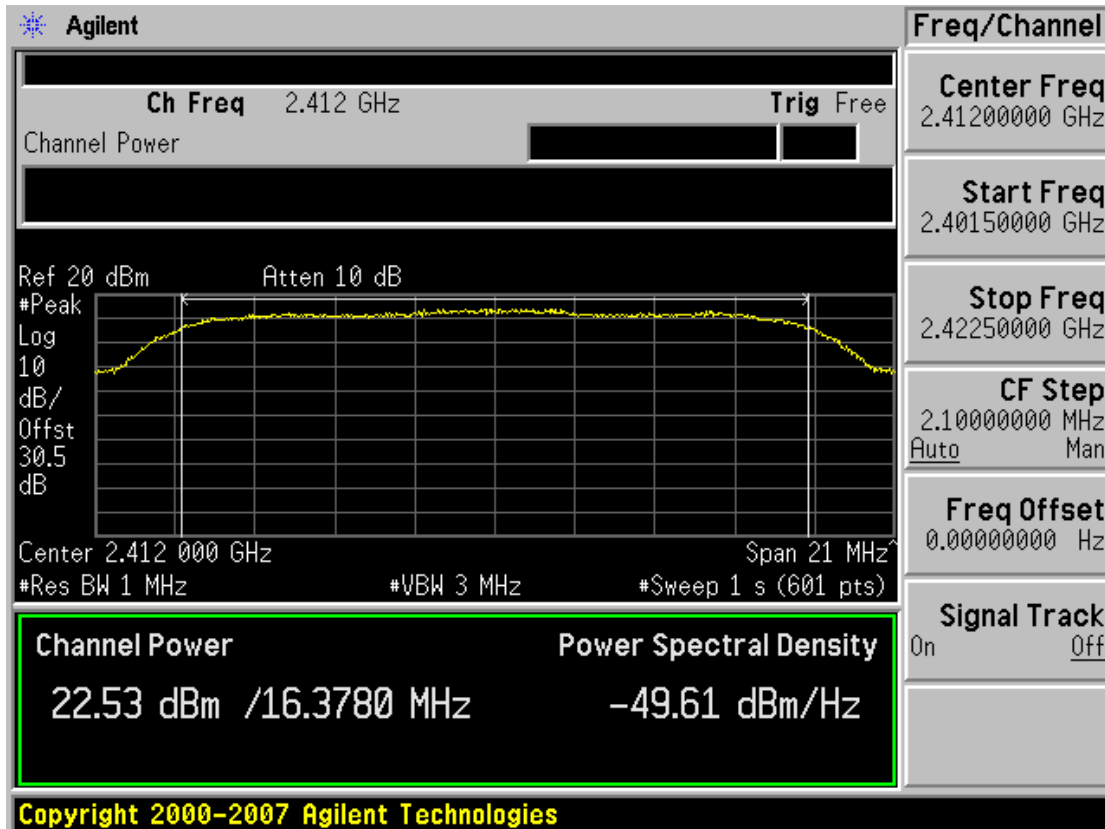


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGT5830I

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

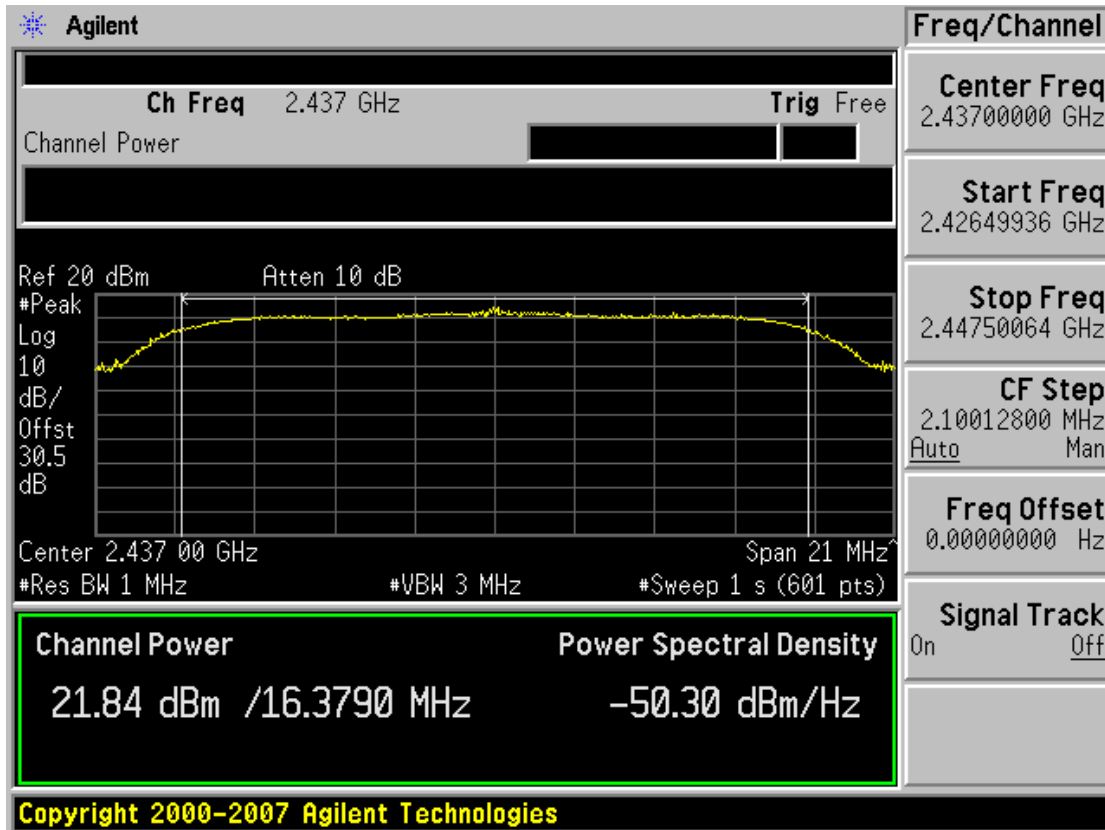


Conducted Output Power (802.11g-CH 1) 54Mbps

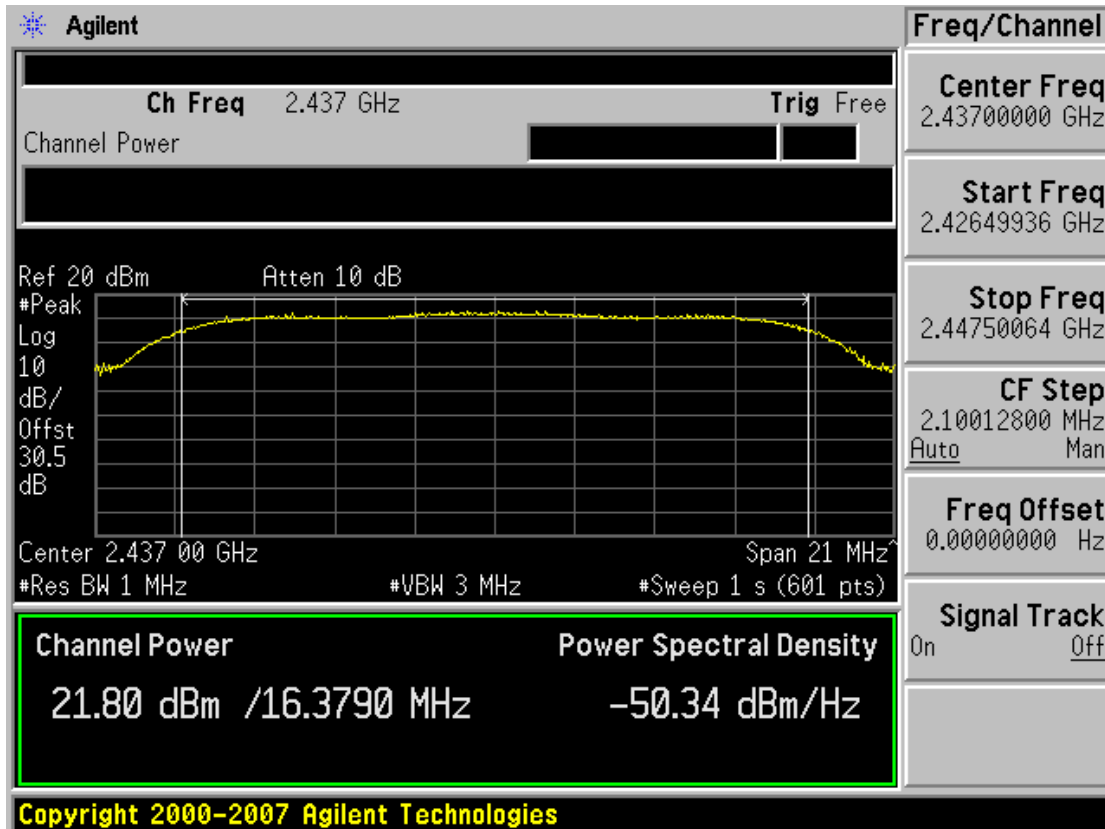


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGT5830I

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

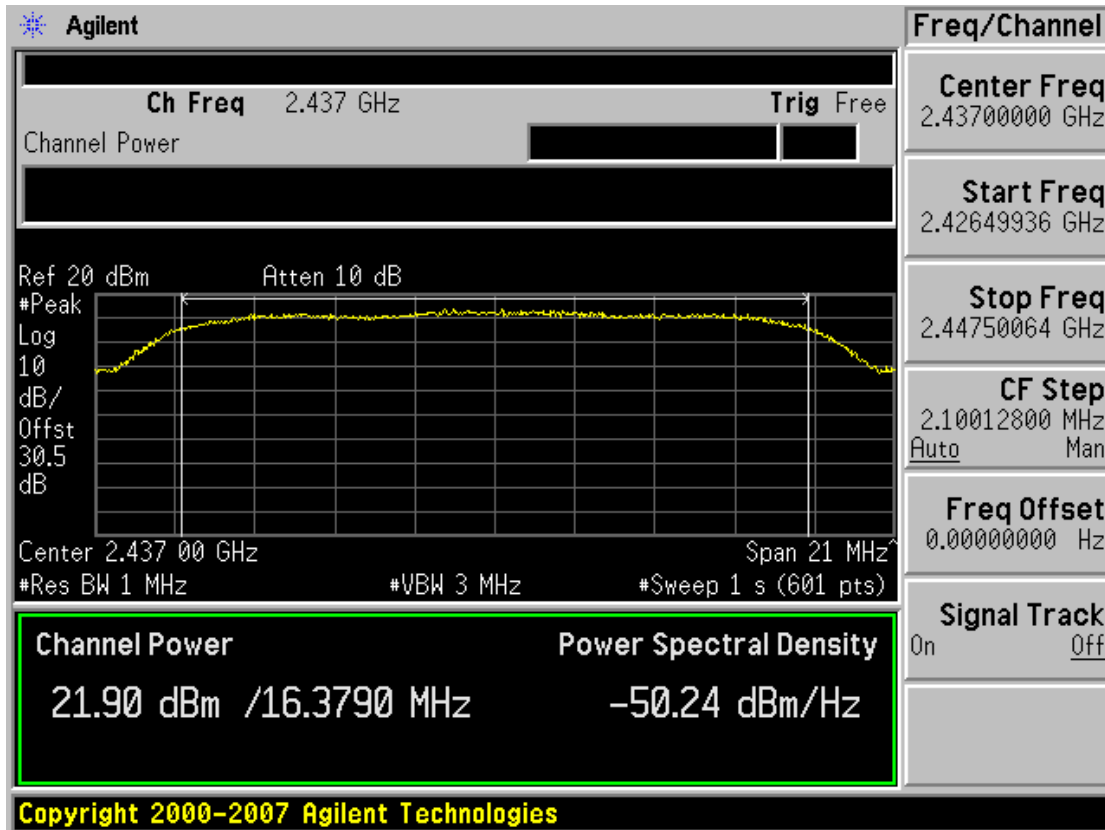


Conducted Output Power (802.11g-CH 6) 9Mbps

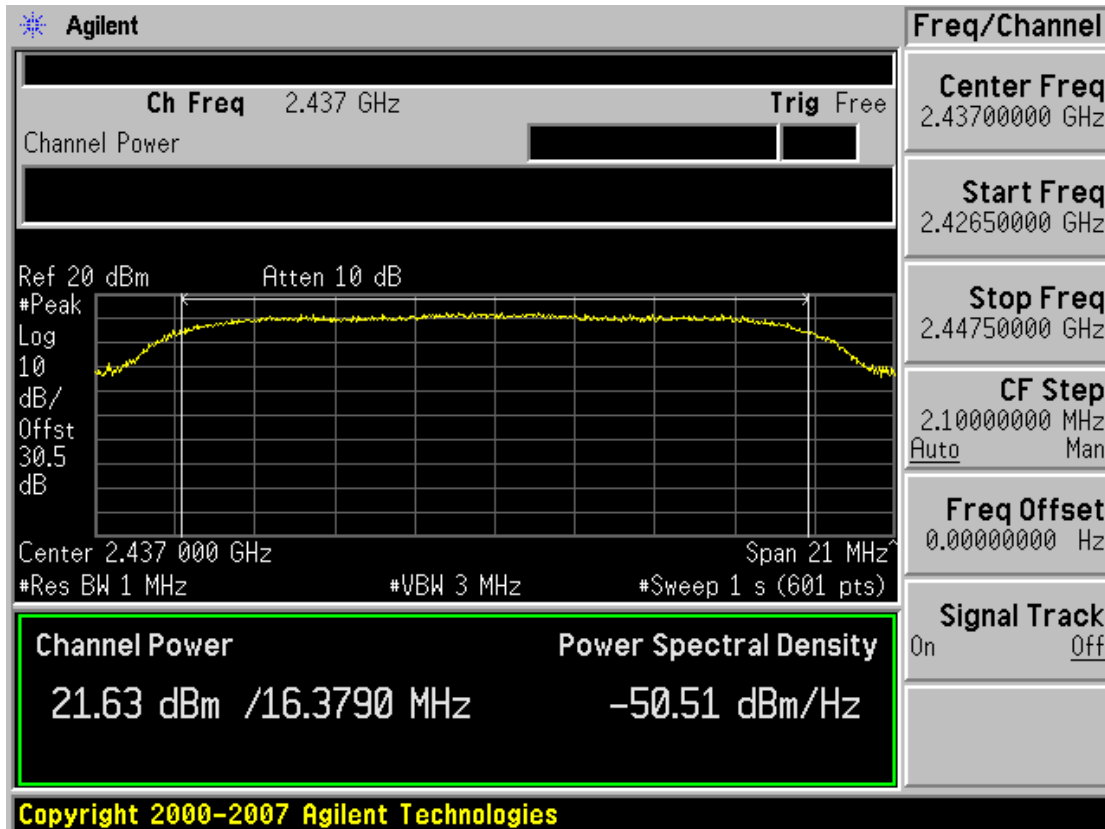


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGT5830I

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

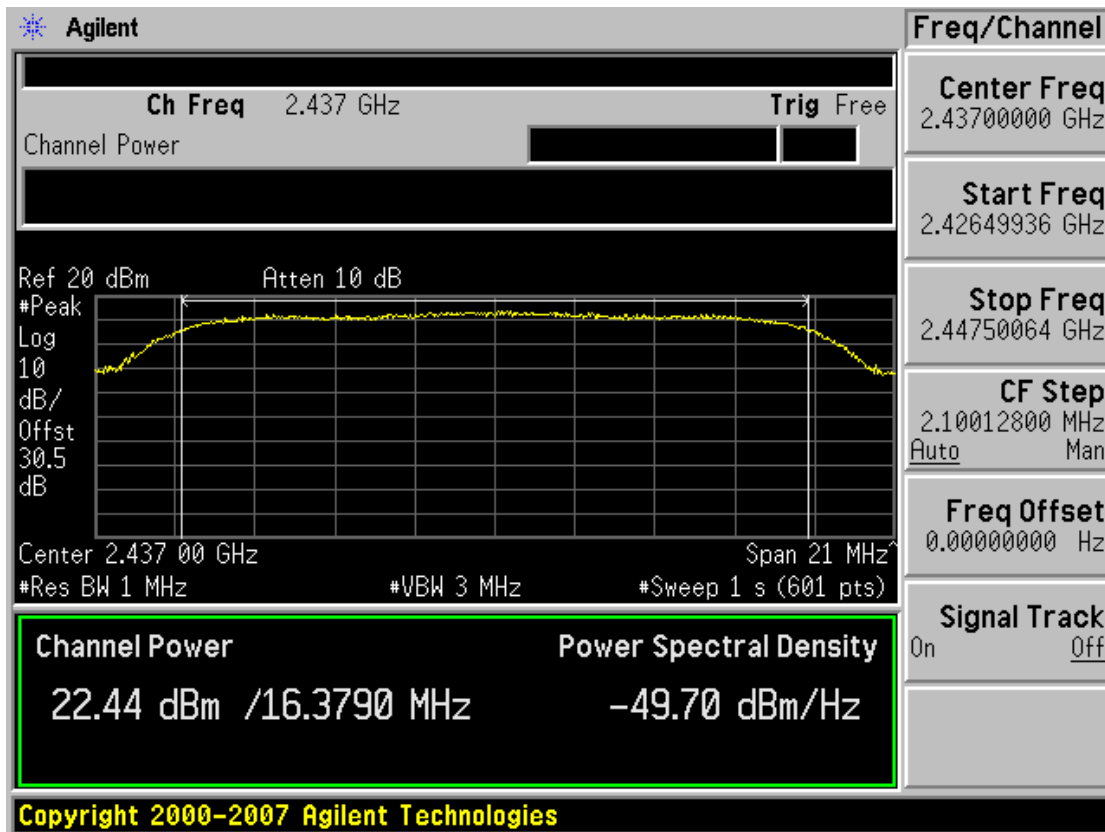


Conducted Output Power (802.11g-CH 6) 18Mbps

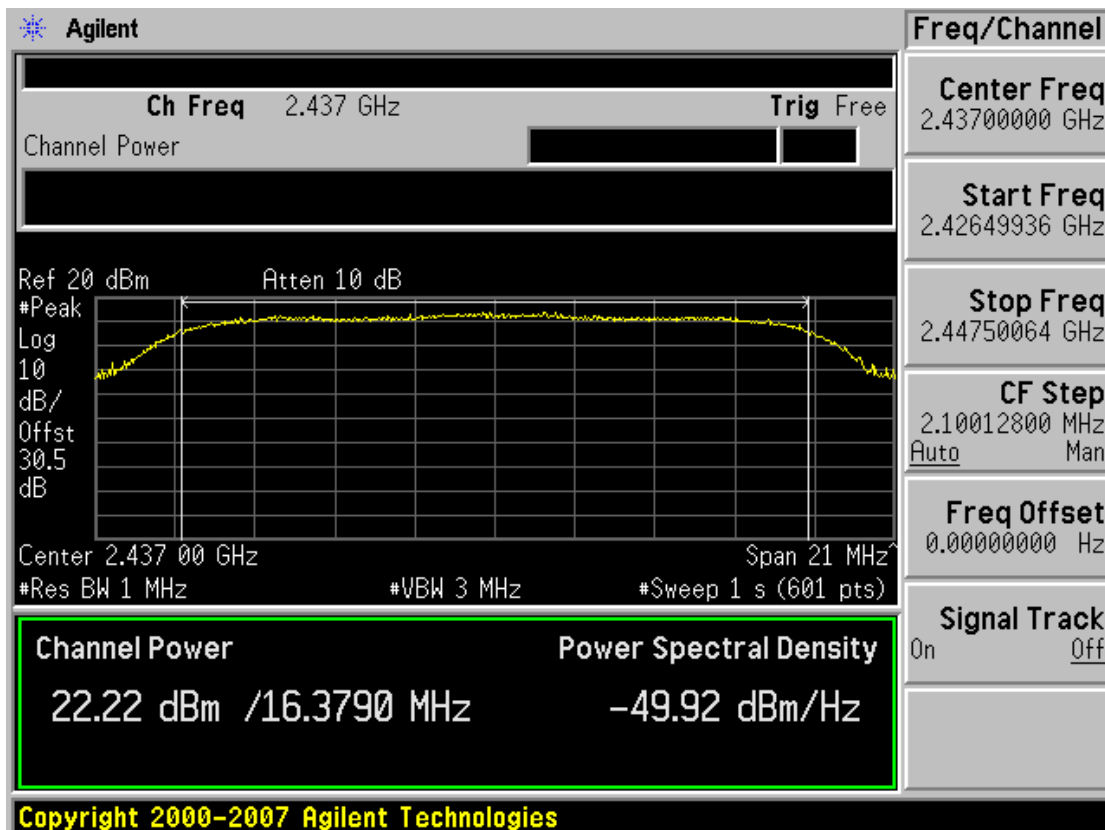


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGT5830I

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

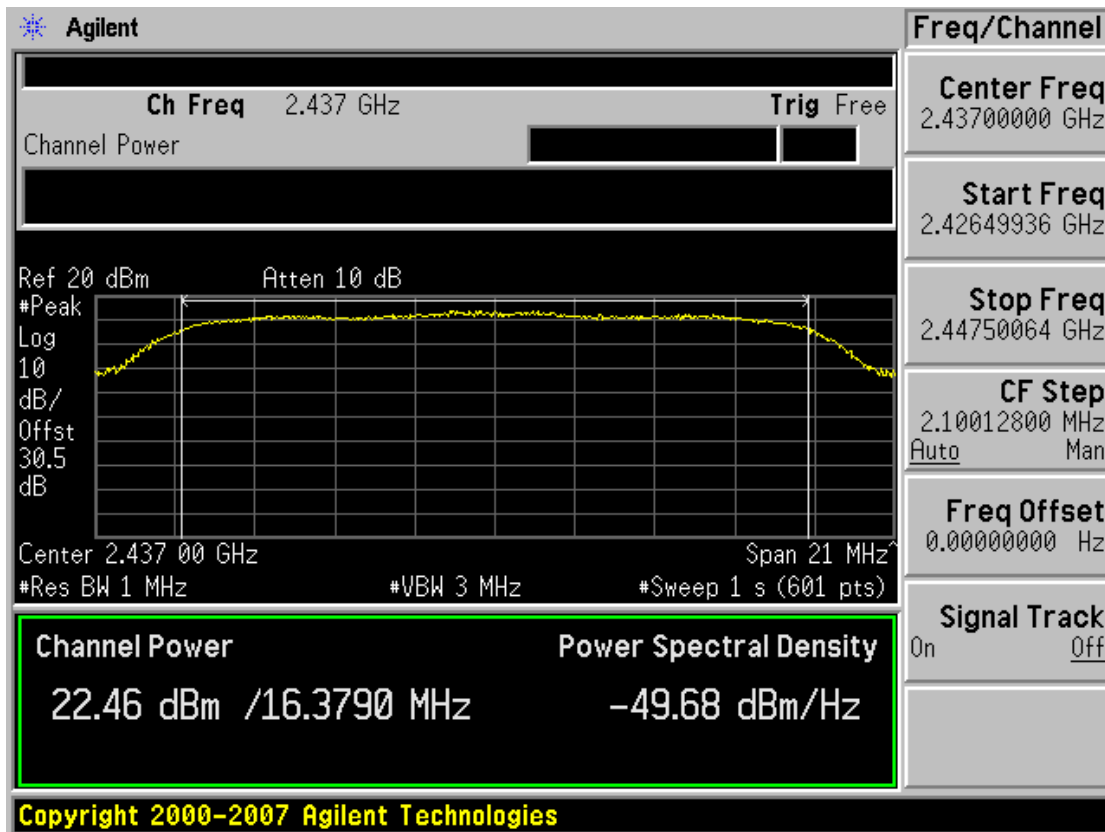


Conducted Output Power (802.11g-CH 6) 36Mbps

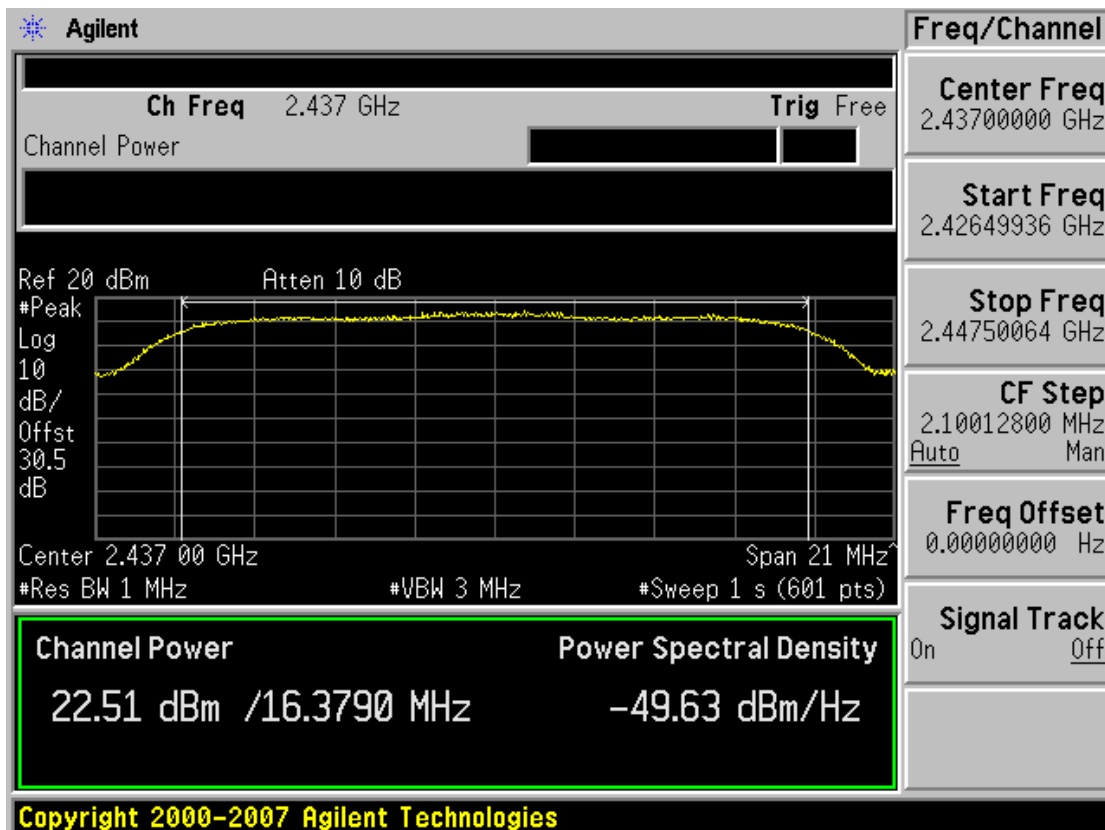


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGT5830I

Conducted Output Power (802.11g-CH 6) 48Mbps

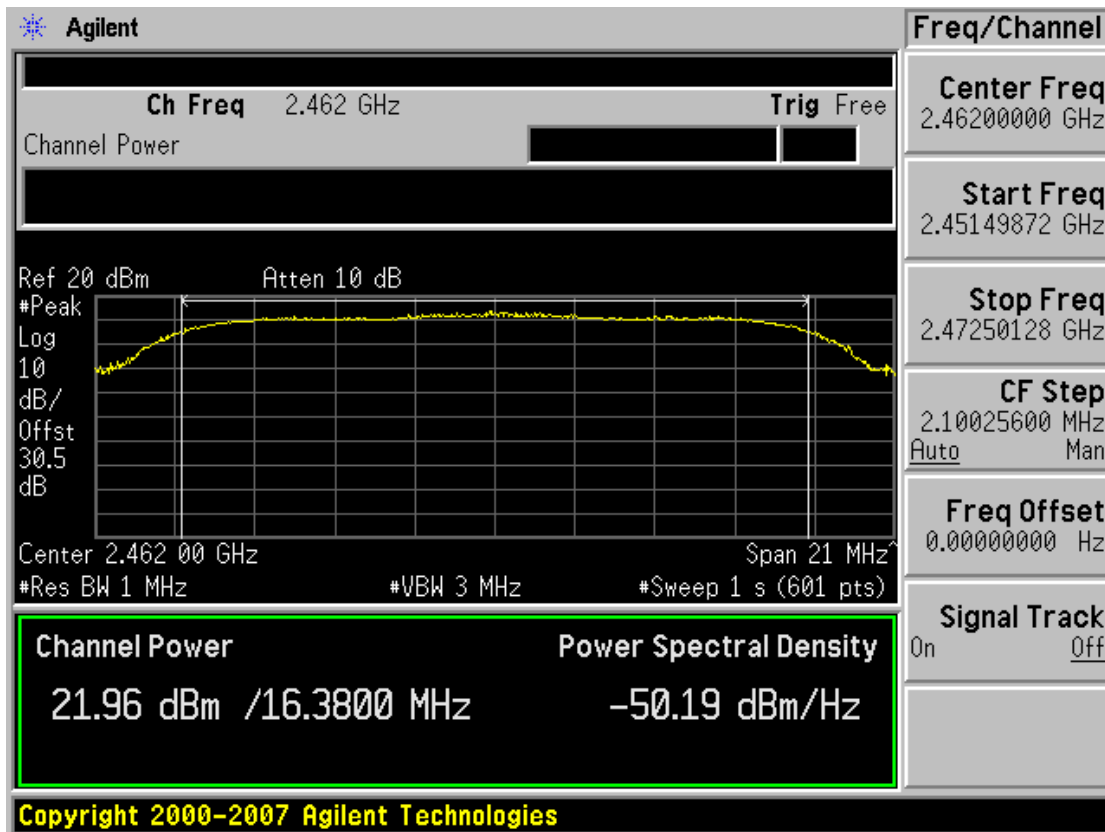


Conducted Output Power (802.11g-CH 6) 54Mbps

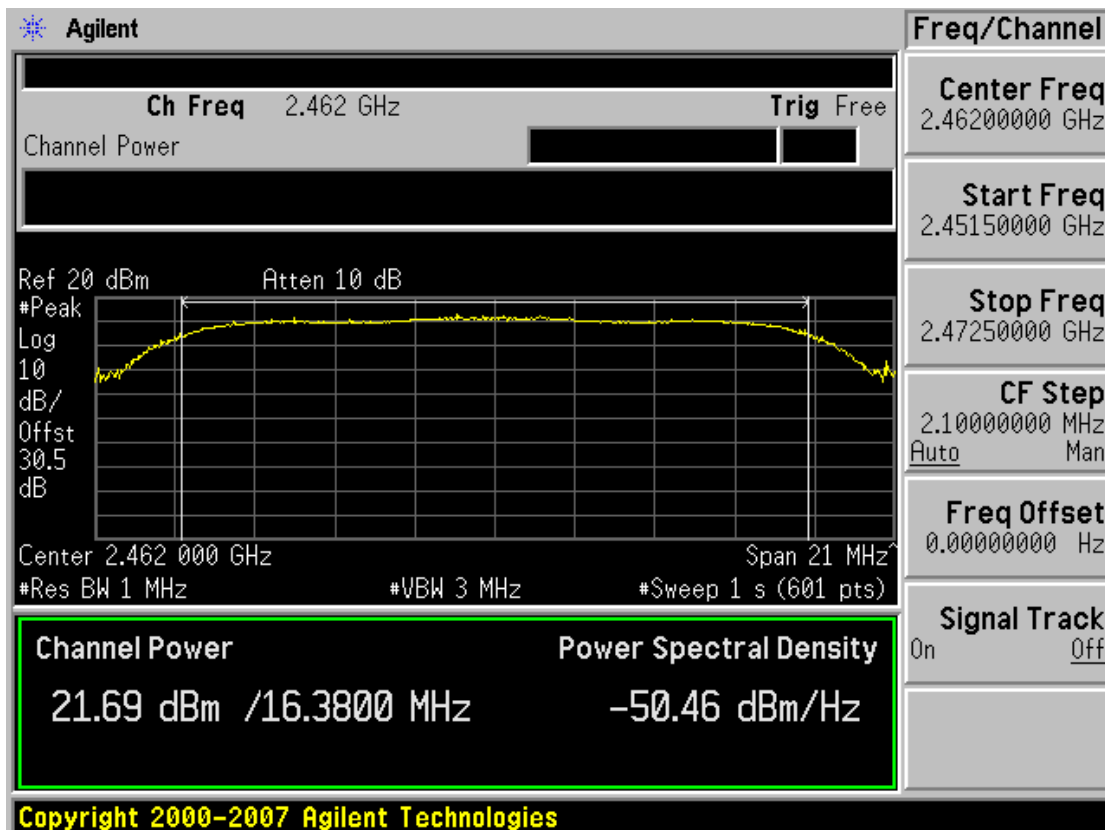


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGT5830I

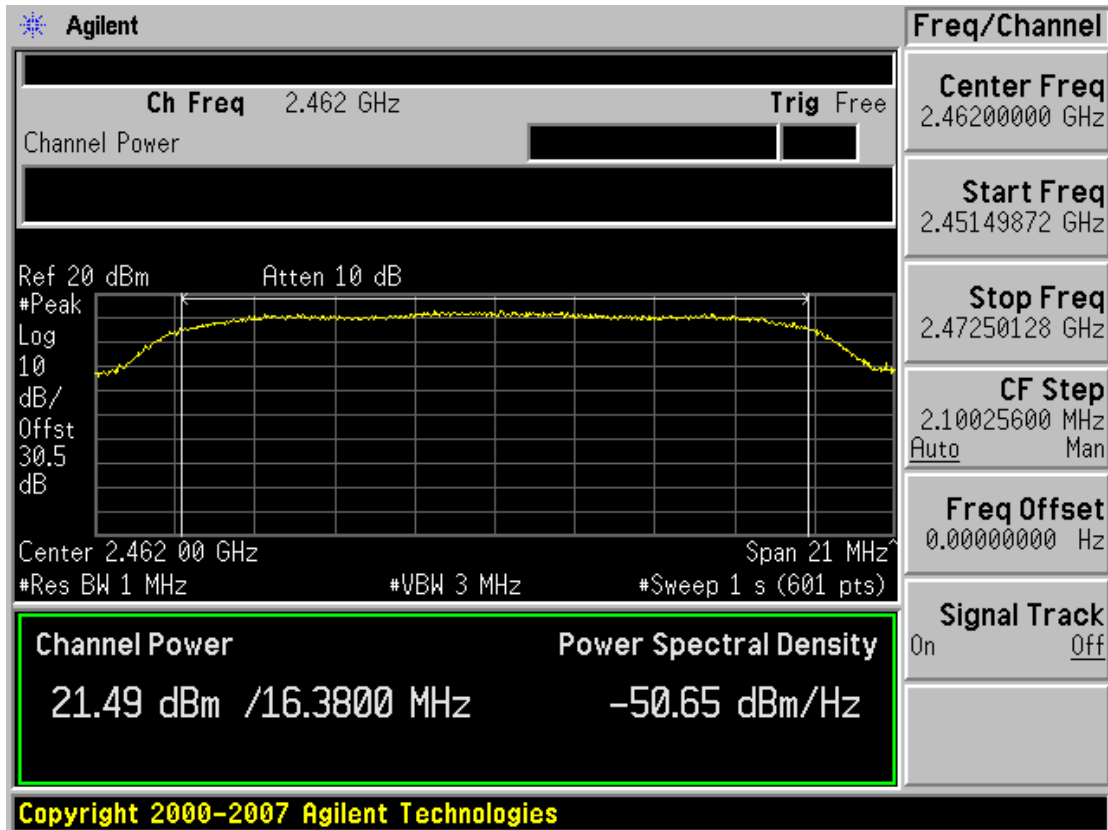
Conducted Output Power (802.11g-CH 11) 6Mbps



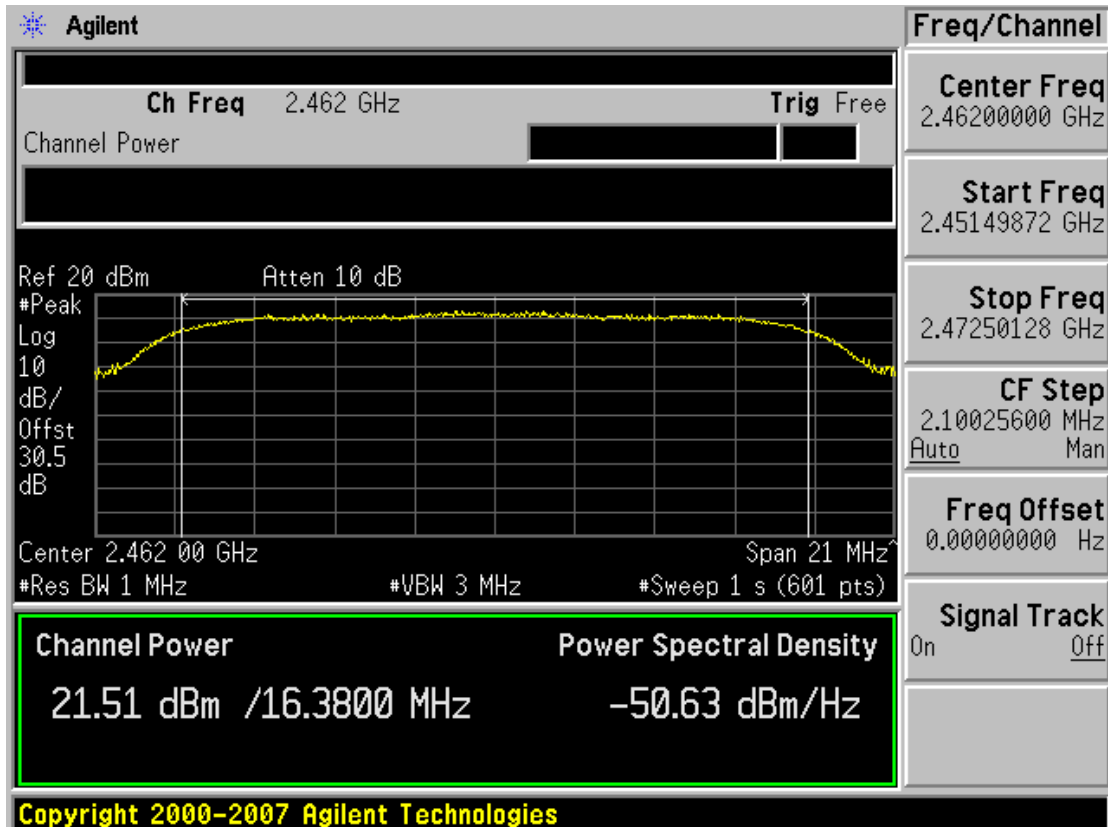
Conducted Output Power (802.11g-CH 11) 9Mbps



Conducted Output Power (802.11g-CH 11) 12Mbps

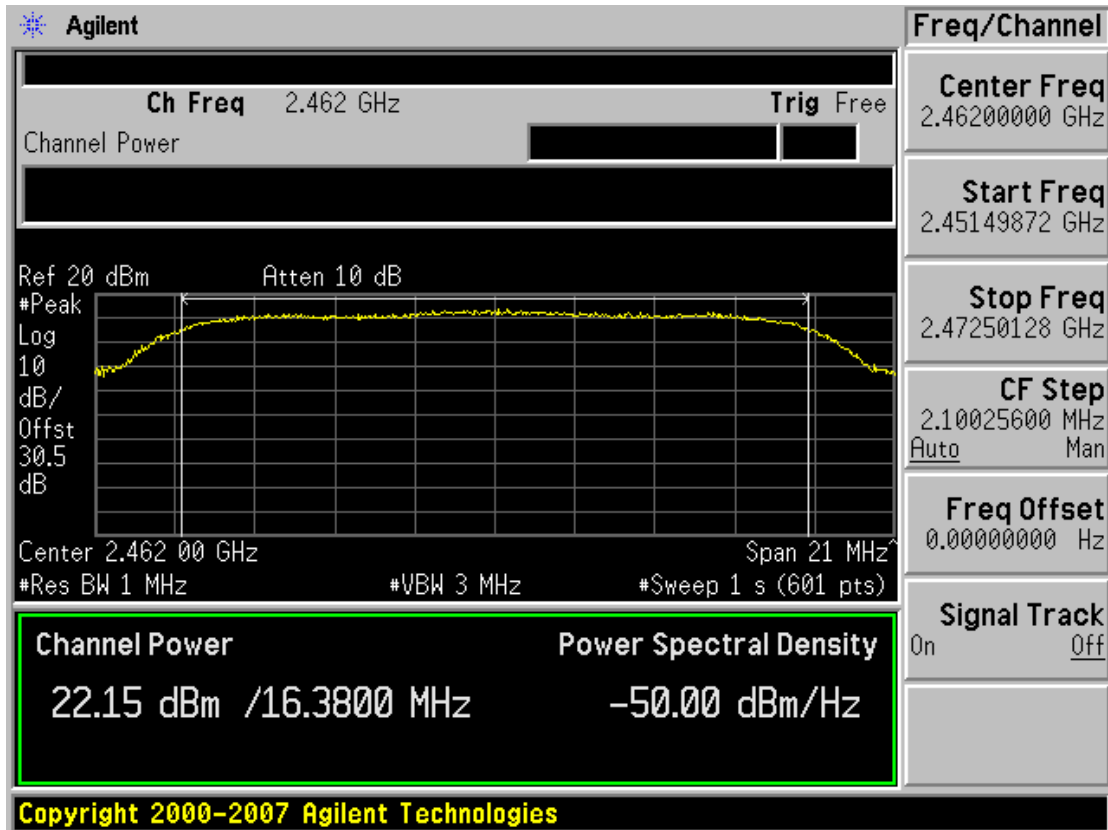


Conducted Output Power (802.11g-CH 11) 18Mbps

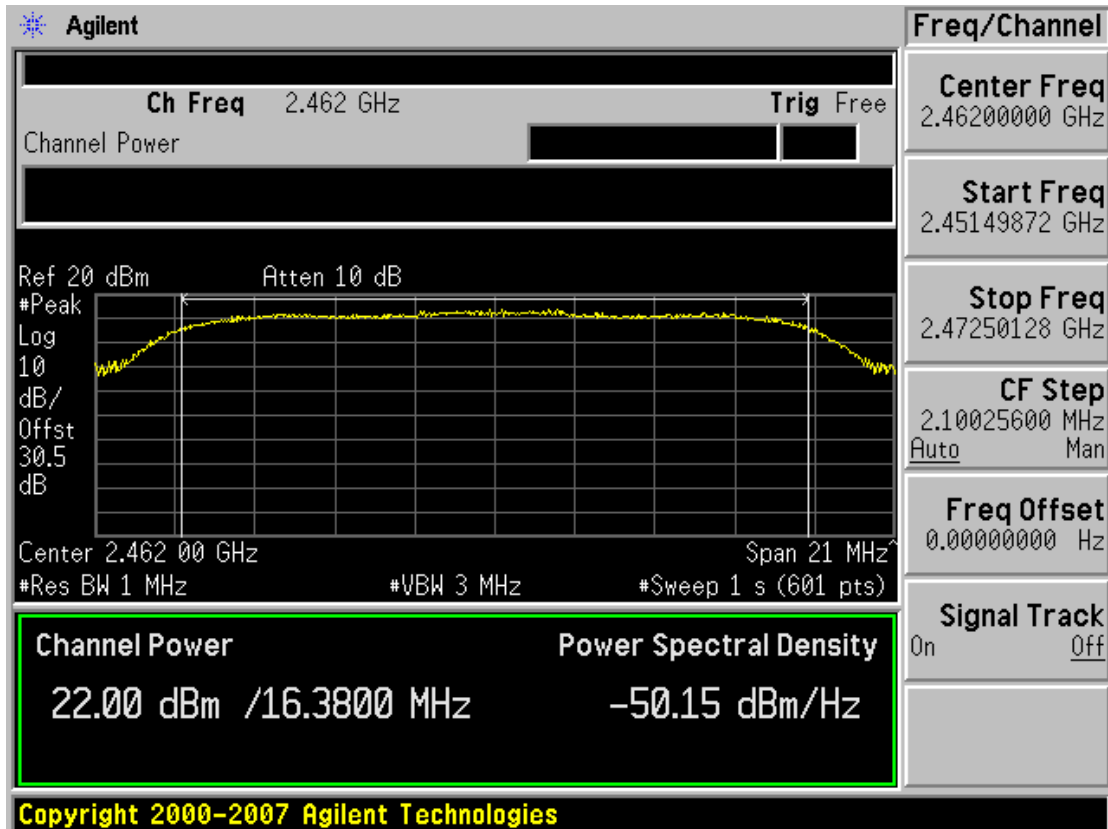


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGT5830I

Conducted Output Power (802.11g-CH 11) 24Mbps

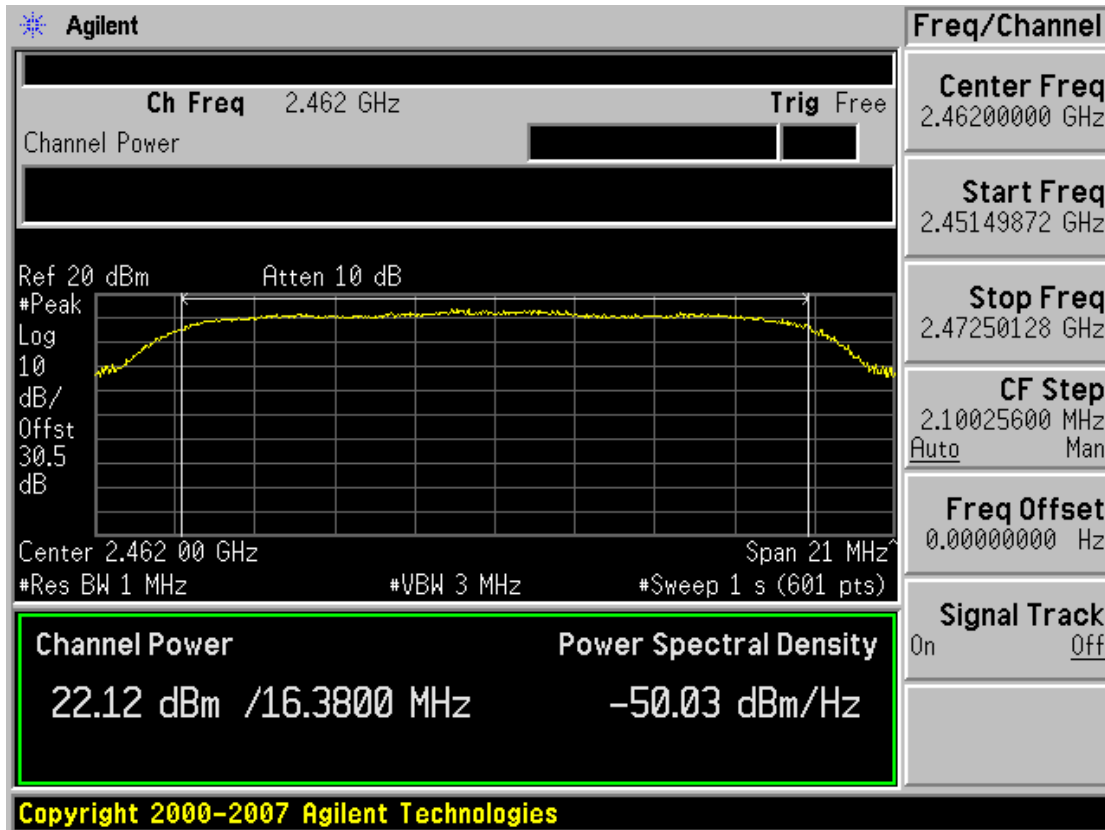


Conducted Output Power (802.11g-CH 11) 36Mbps

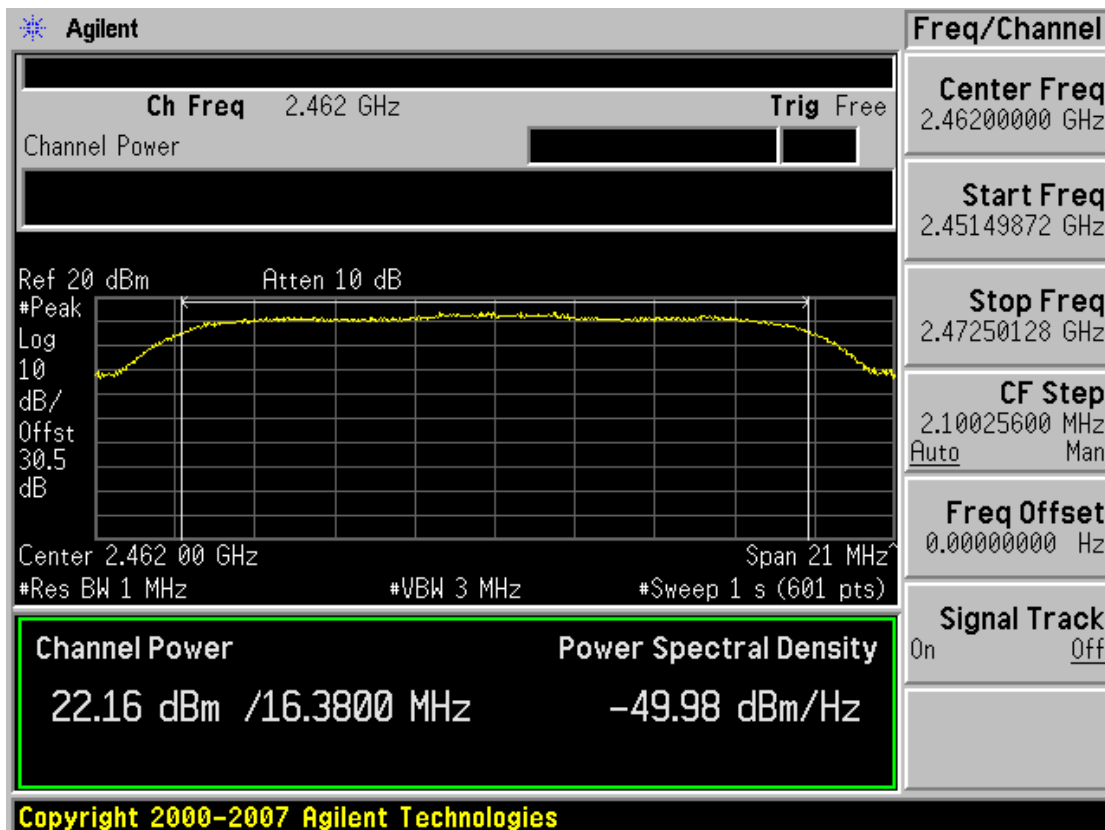


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGT5830I	

Conducted Output Power (802.11g-CH 11) 48Mbps

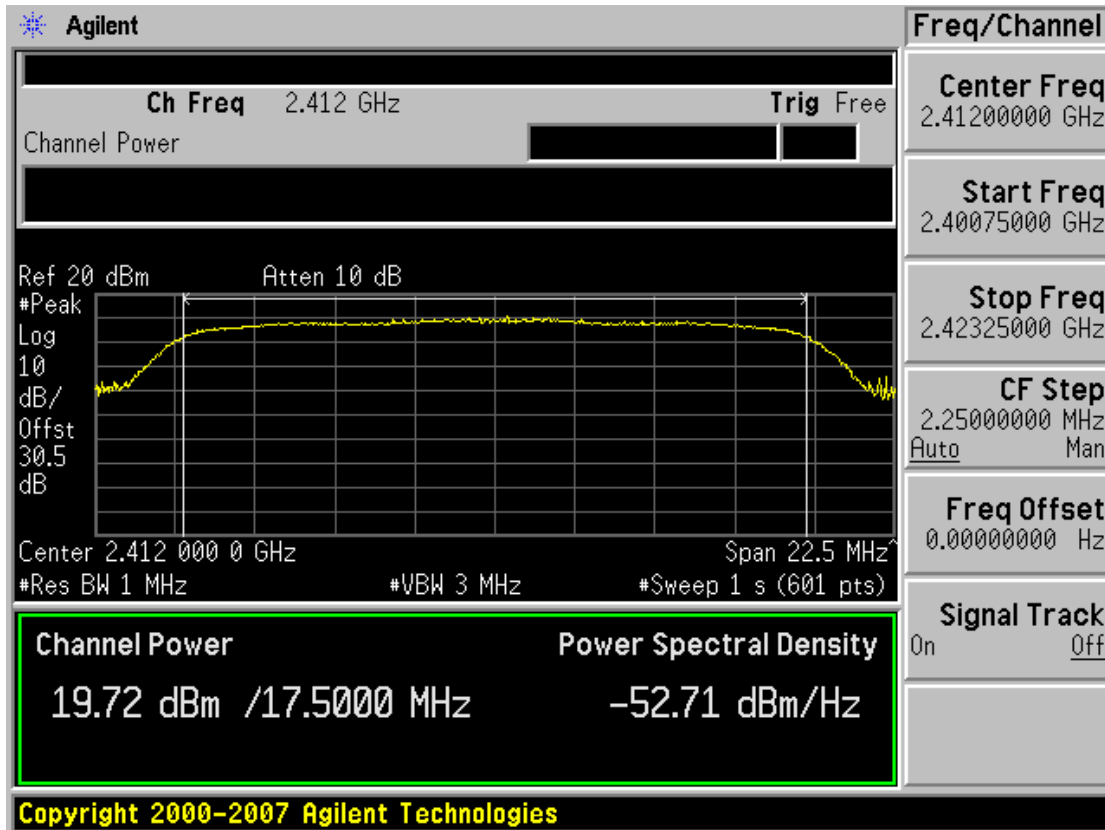


Conducted Output Power (802.11g-CH 11) 54Mbps

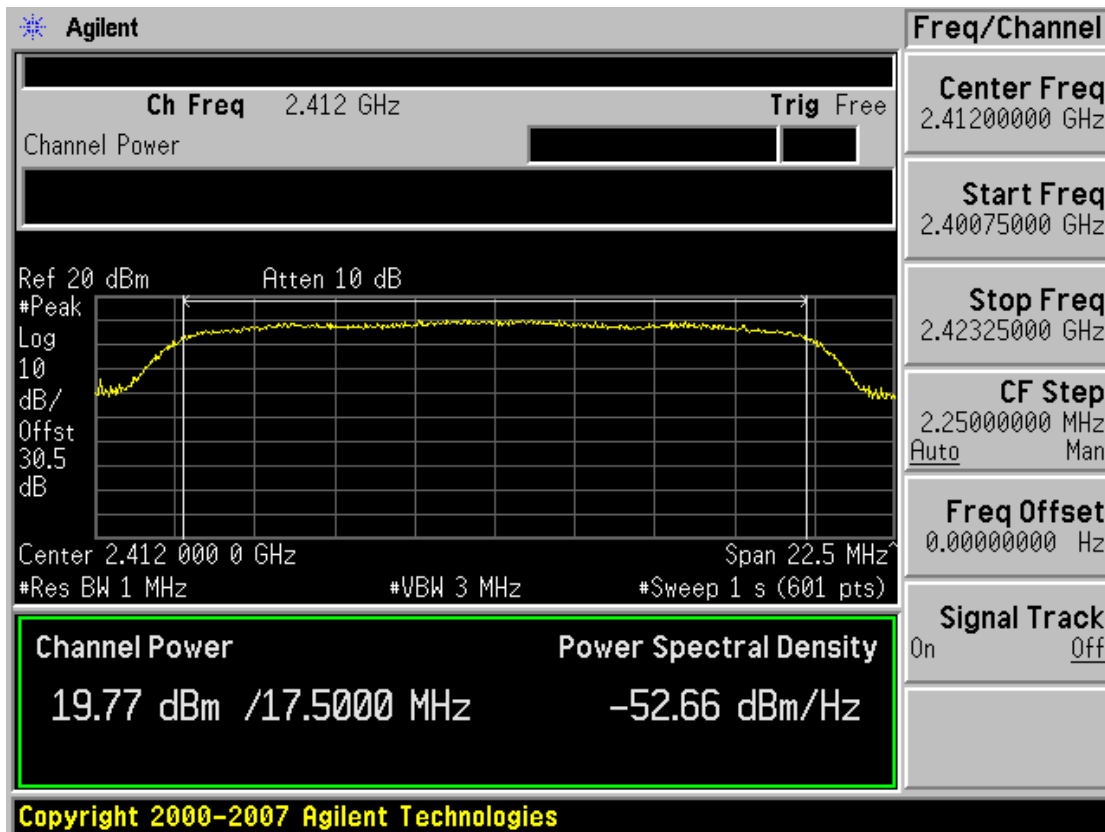


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGT5830I

Conducted Output Power (802.11n-CH 1) 6.5Mbps

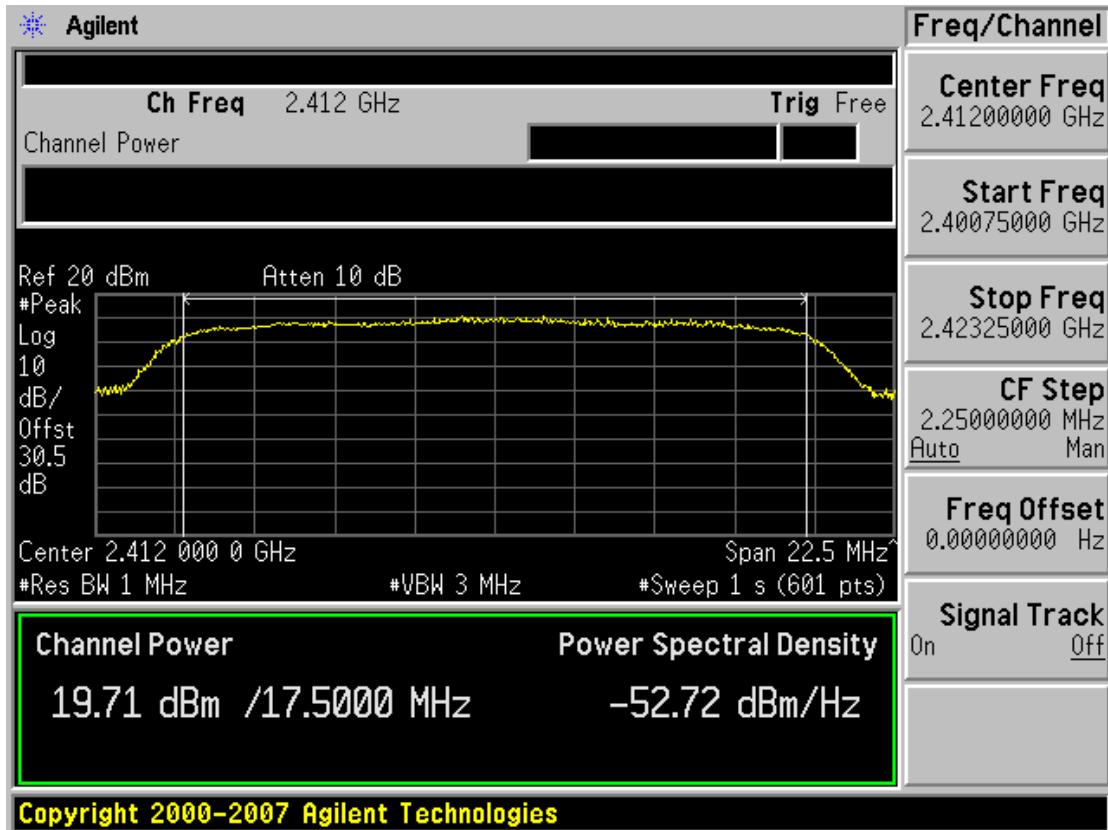


Conducted Output Power (802.11n-CH 1) 13Mbps

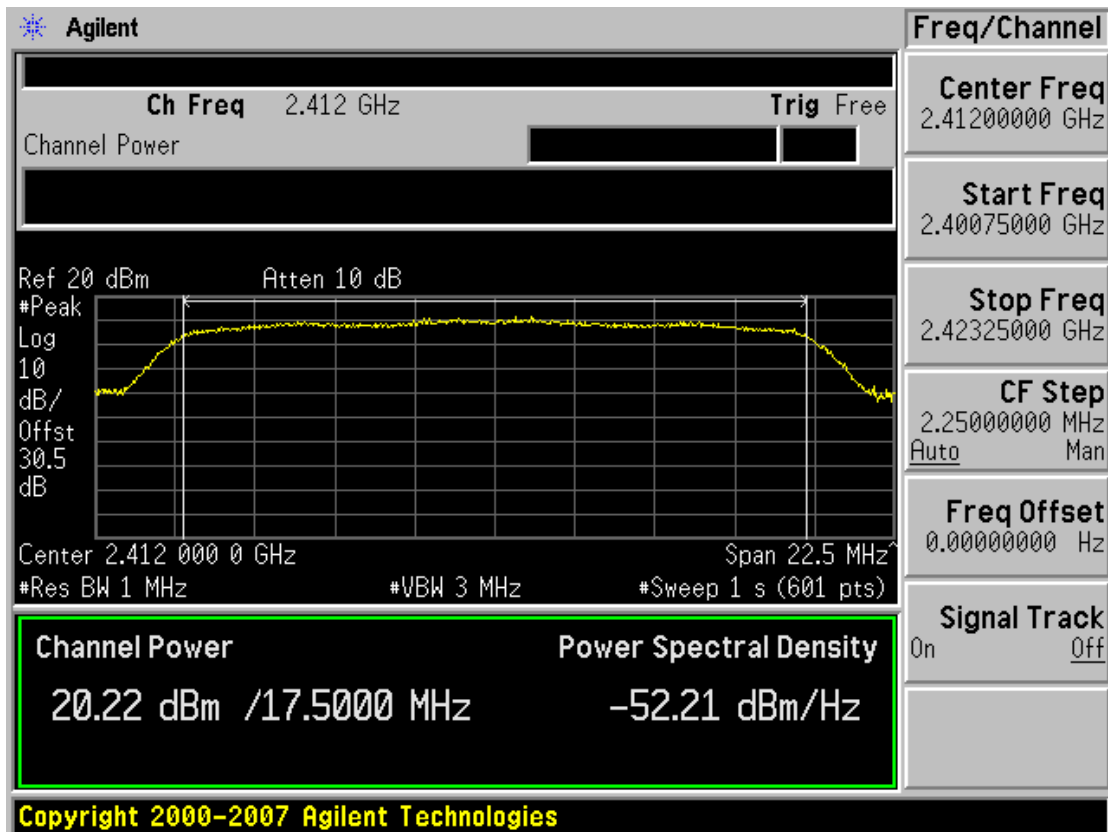


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGT5830I

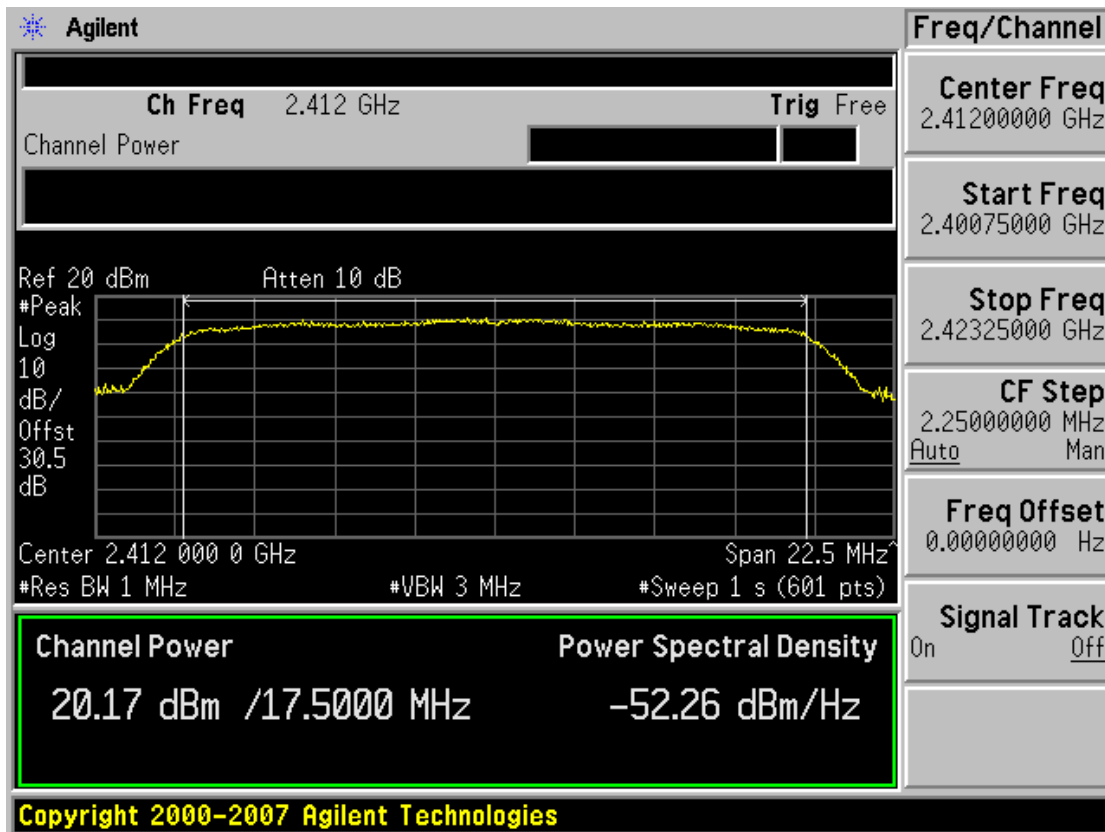
Conducted Output Power (802.11n-CH 1) 19.5Mbps



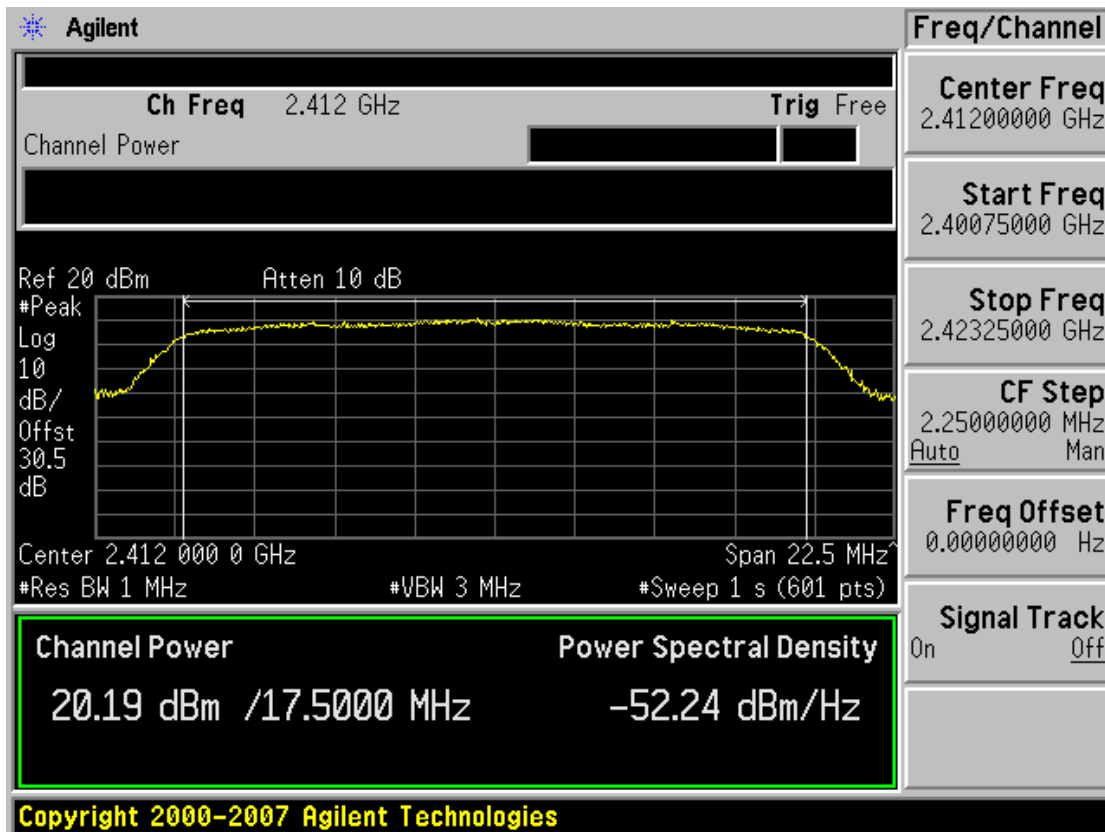
Conducted Output Power (802.11n-CH 1) 26Mbps



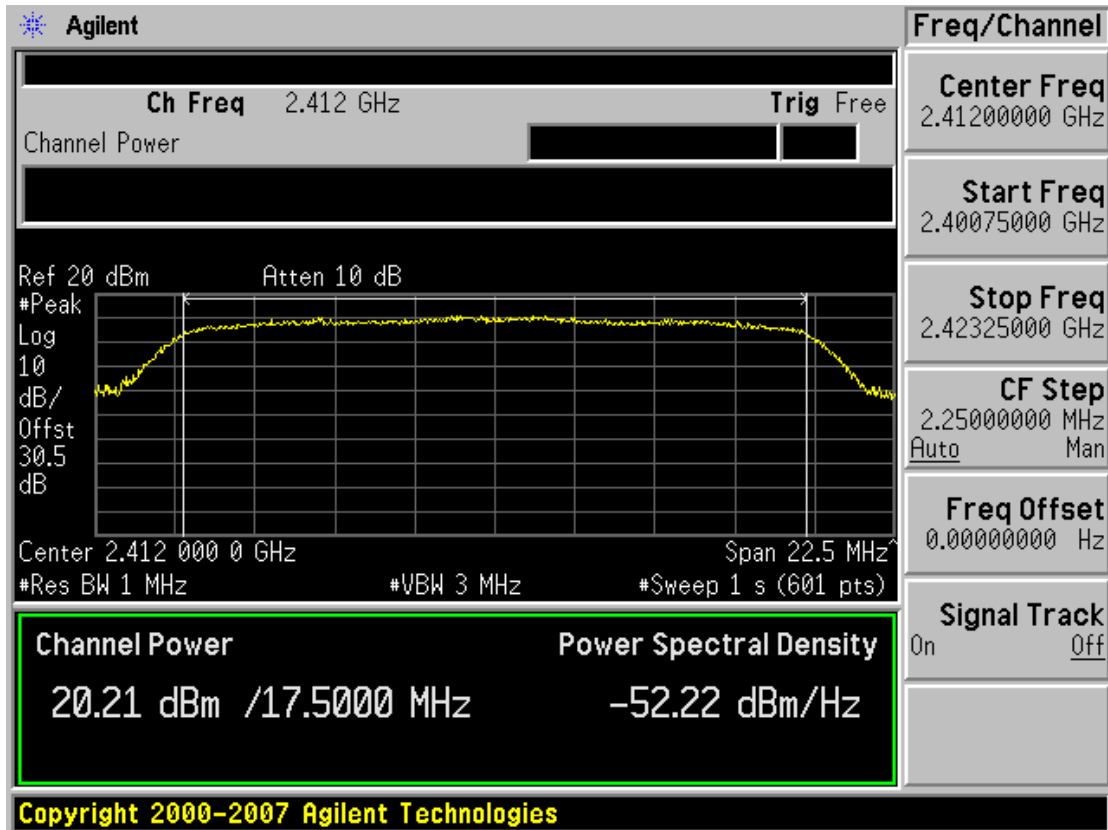
Conducted Output Power (802.11n-CH 1) 39Mbps



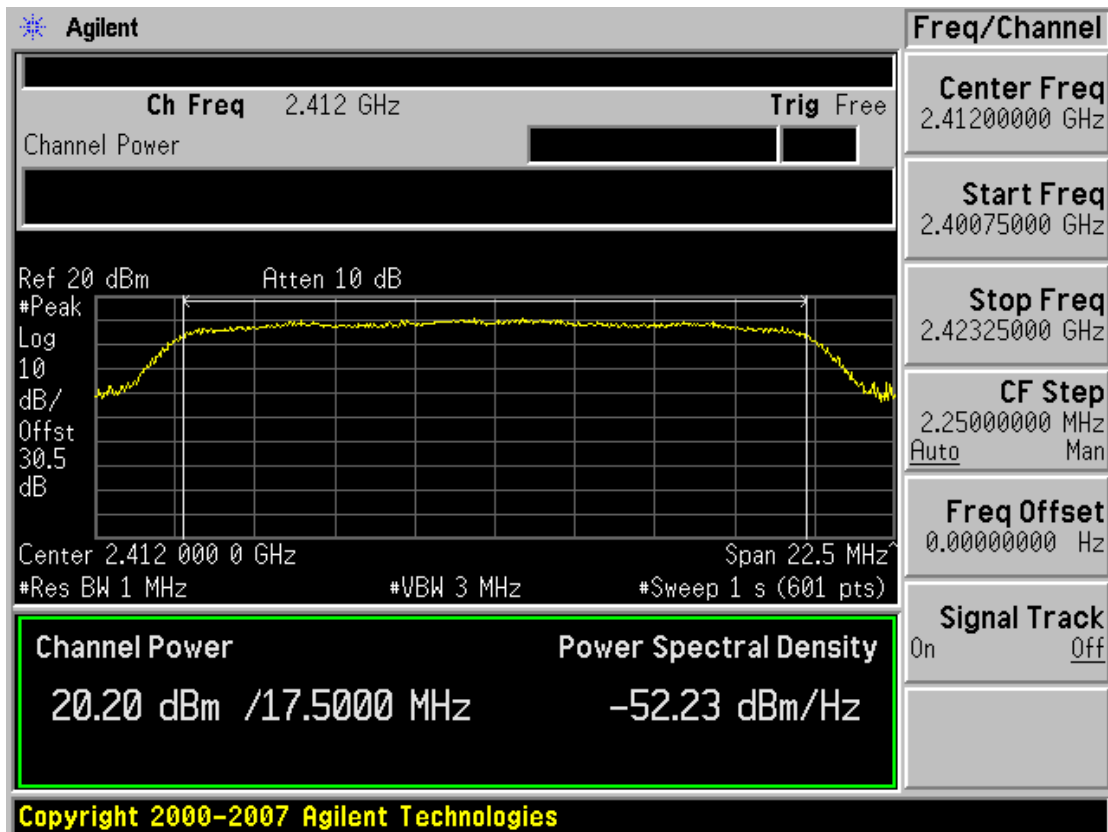
Conducted Output Power (802.11n-CH 1) 52Mbps



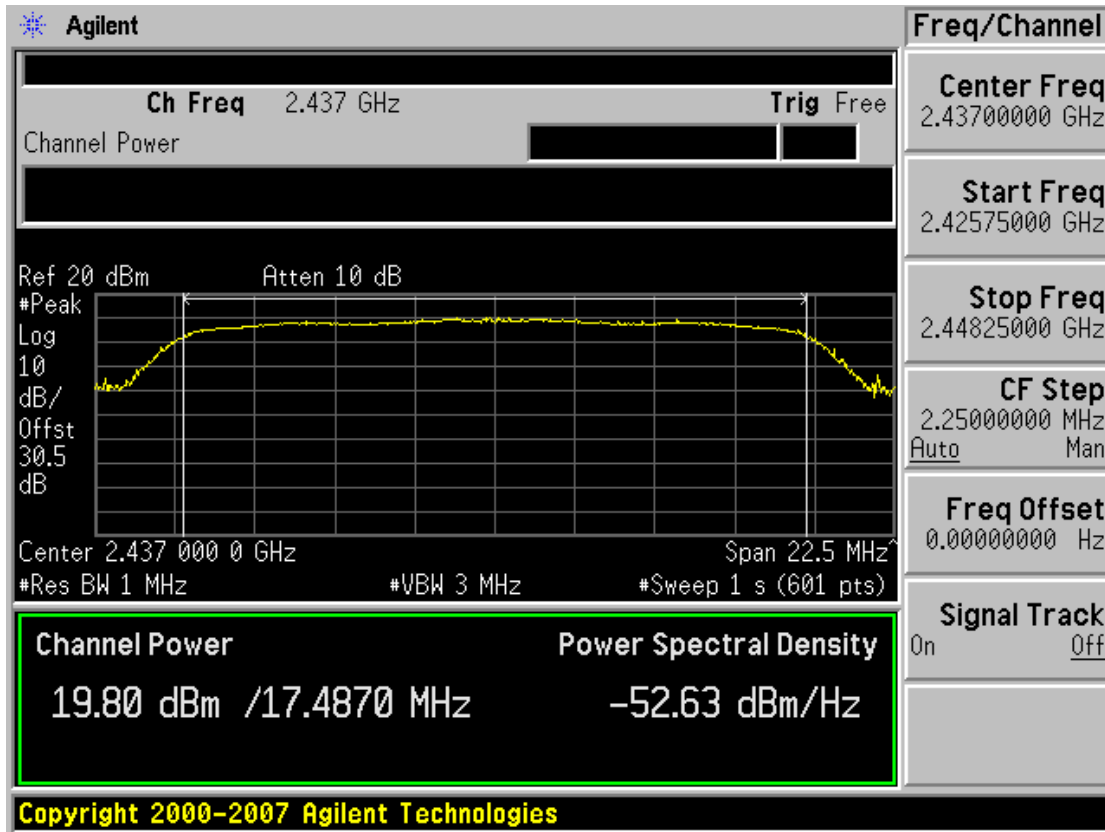
Conducted Output Power (802.11n-CH 1) 58.5Mbps



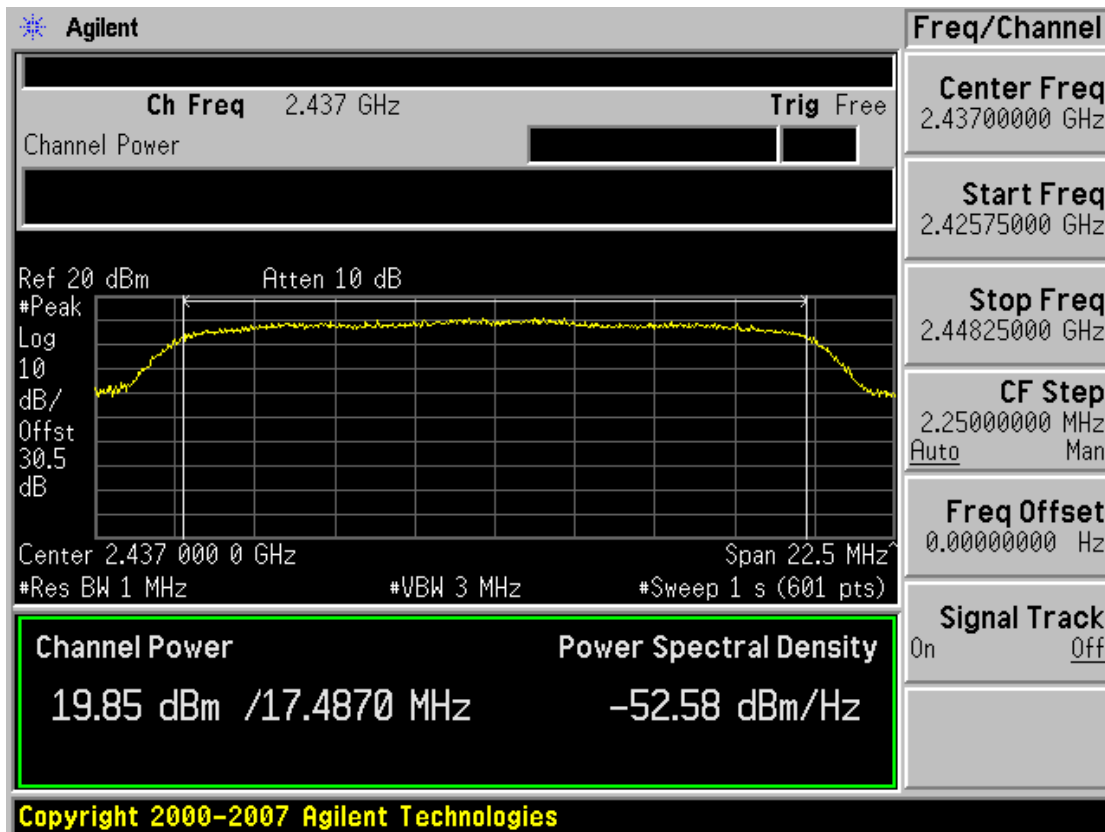
Conducted Output Power (802.11n-CH 1) 65Mbps



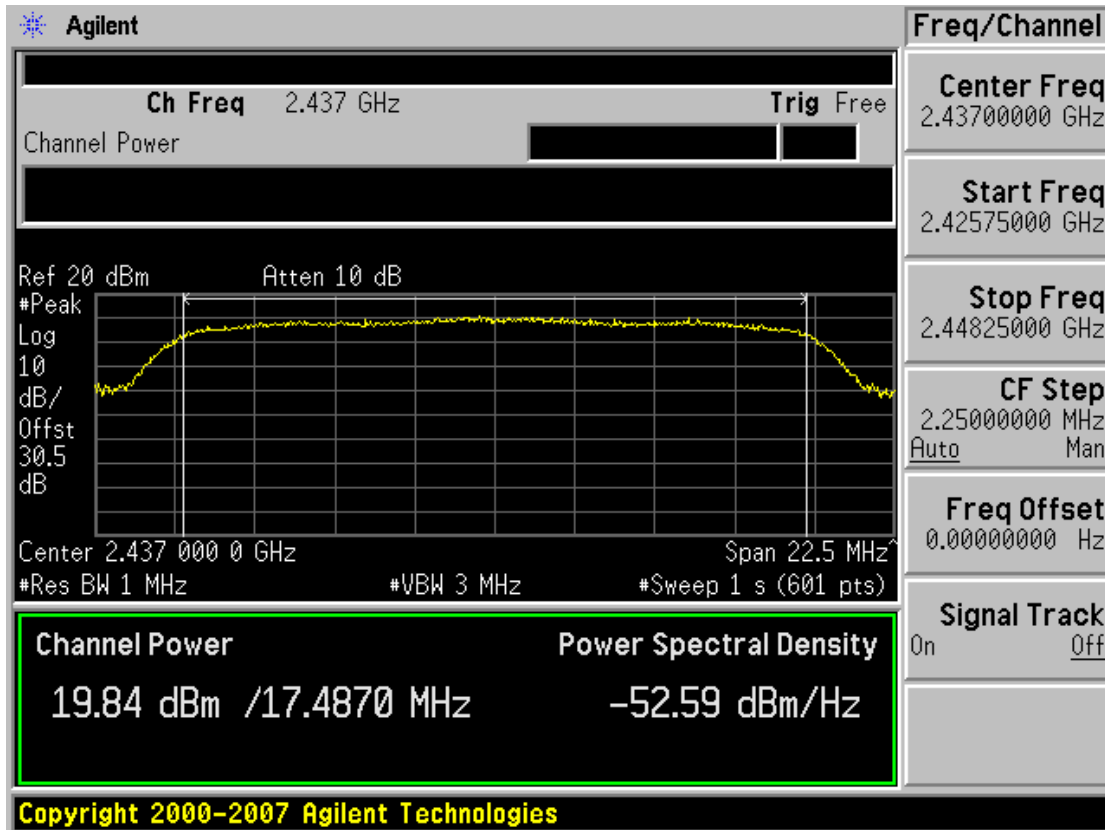
Conducted Output Power (802.11n-CH 6) 6.5Mbps



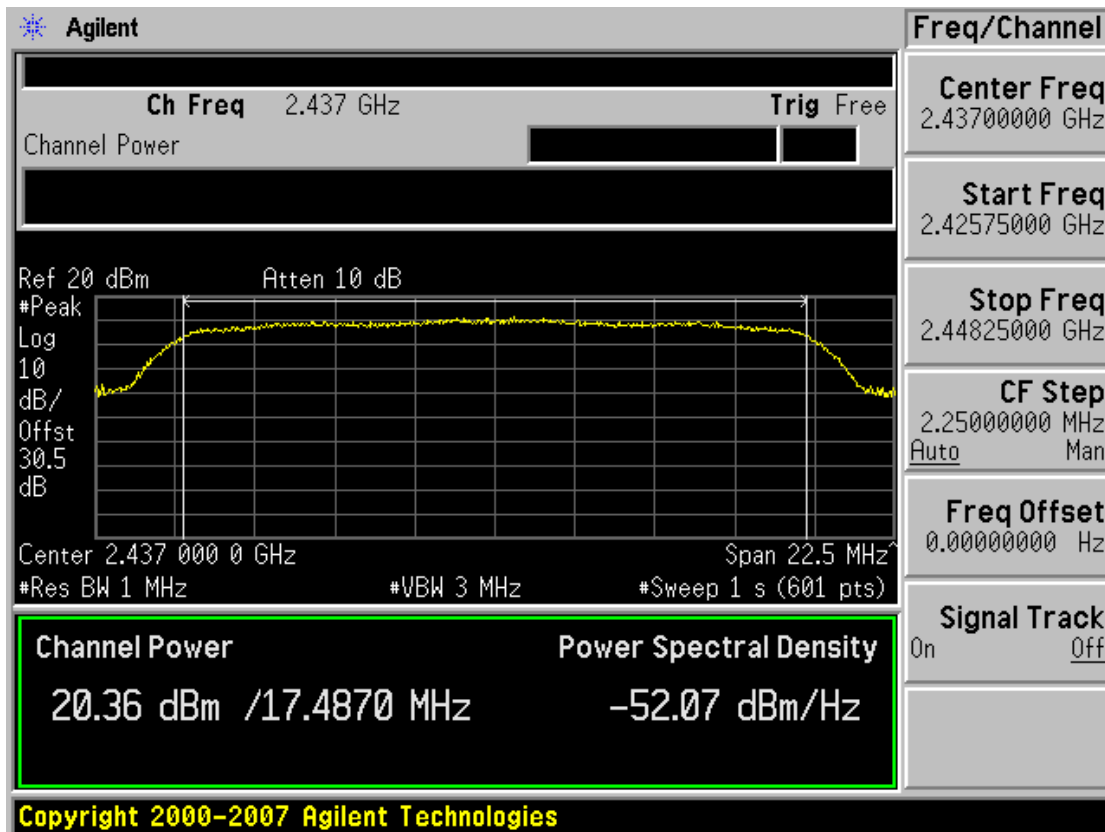
Conducted Output Power (802.11n-CH 6) 13Mbps



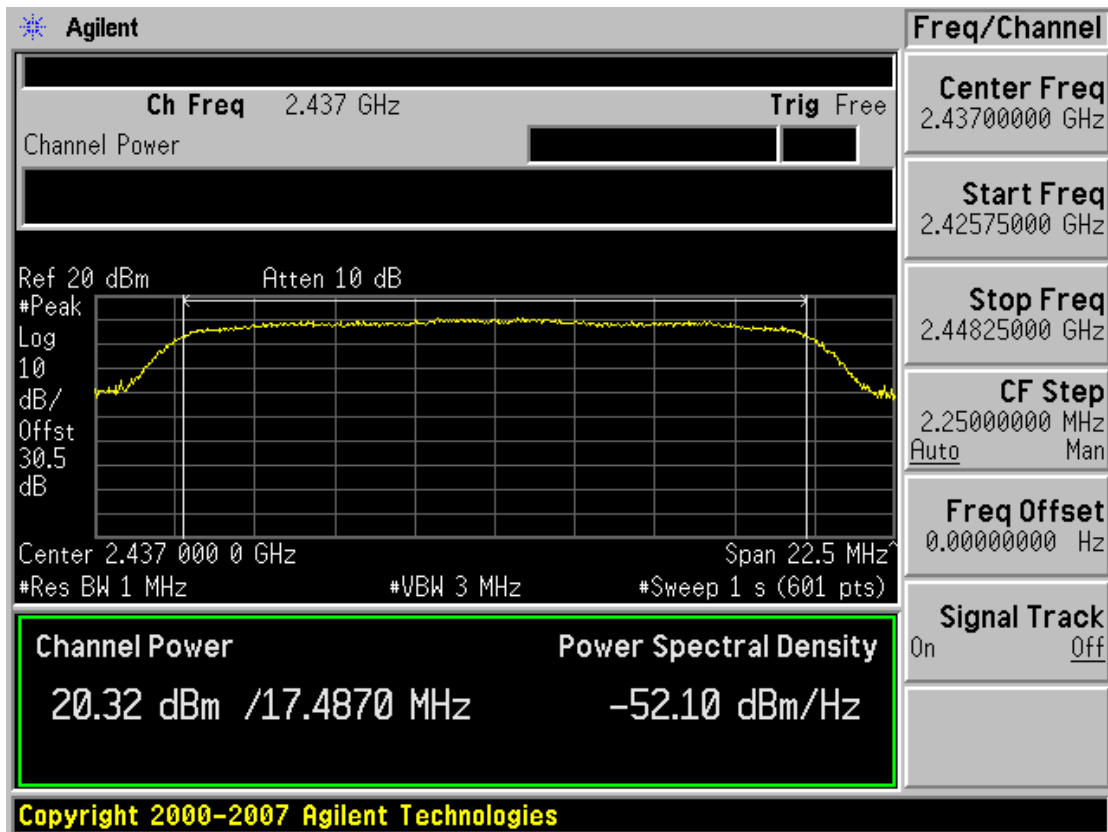
Conducted Output Power (802.11n-CH 6) 19.5Mbps



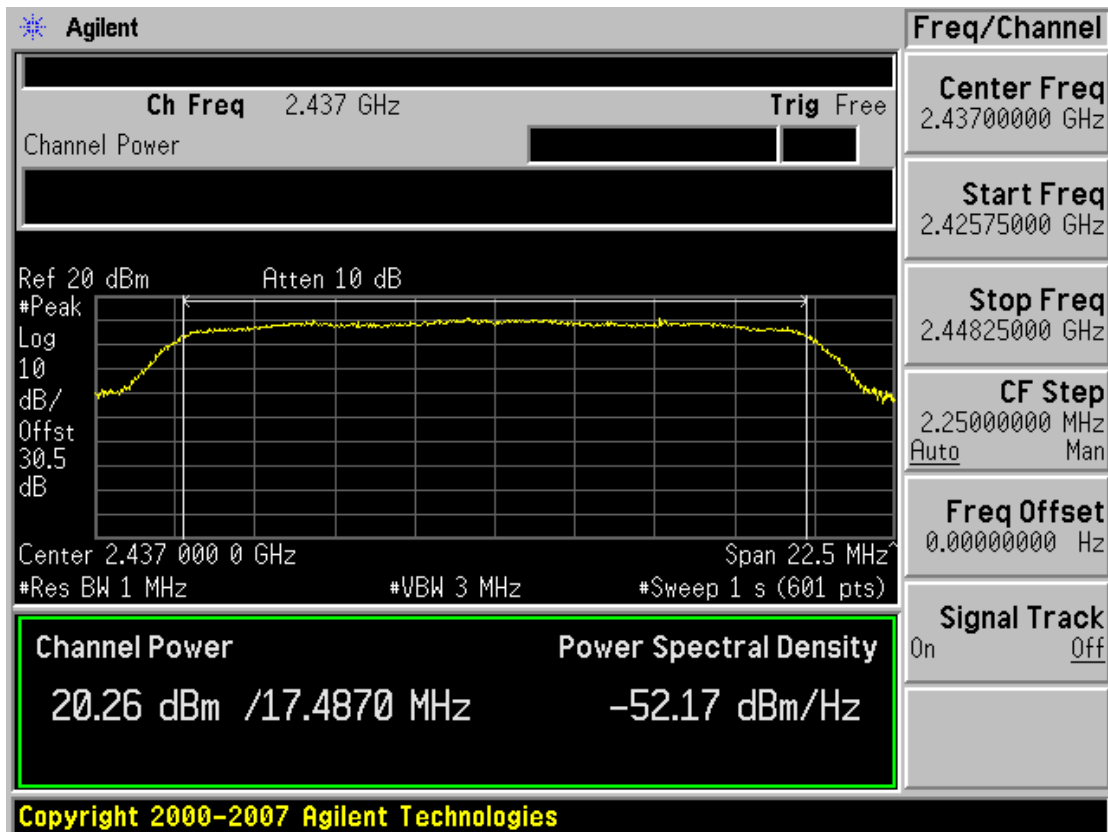
Conducted Output Power (802.11n-CH 6) 26Mbps



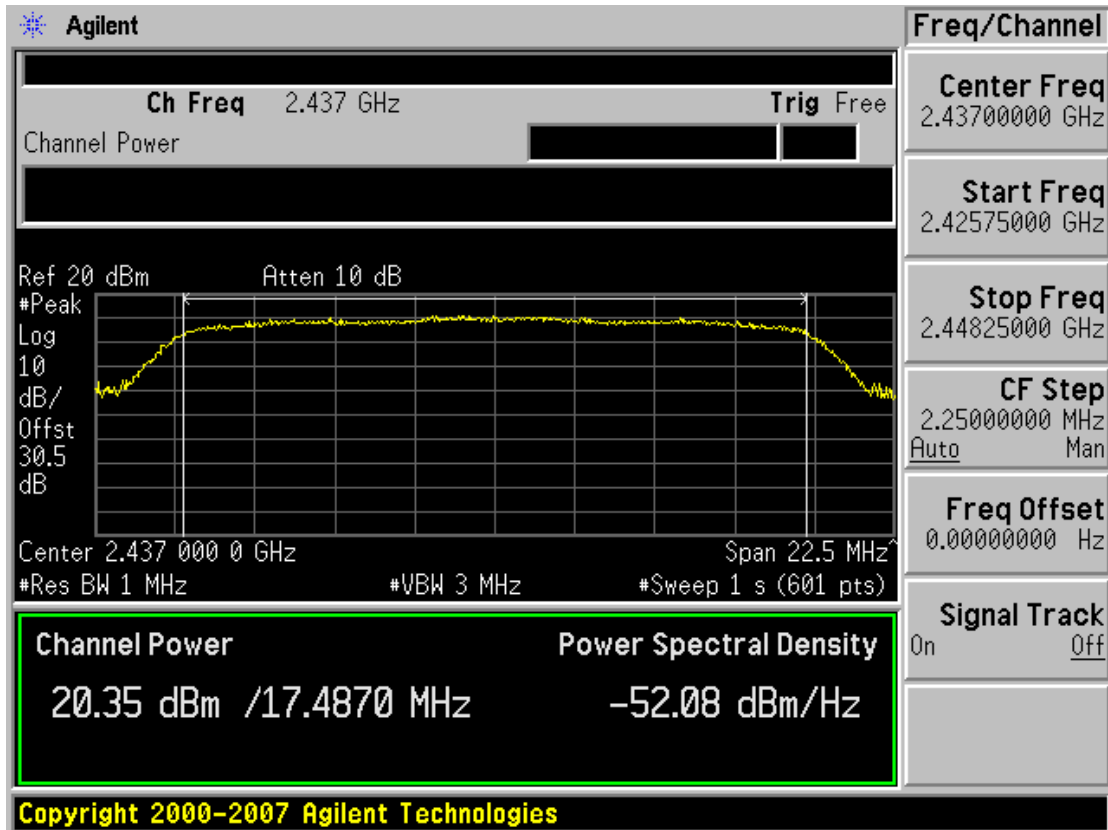
Conducted Output Power (802.11n-CH 6) 39Mbps



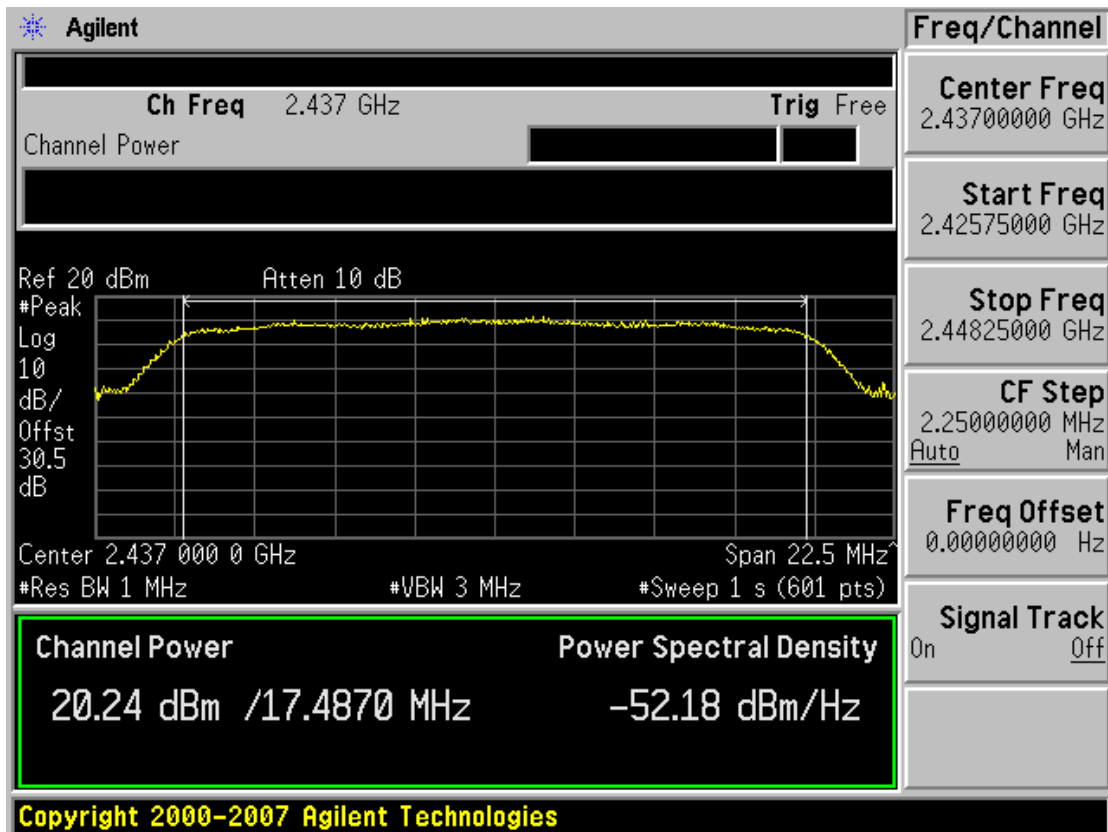
Conducted Output Power (802.11n-CH 6) 52Mbps



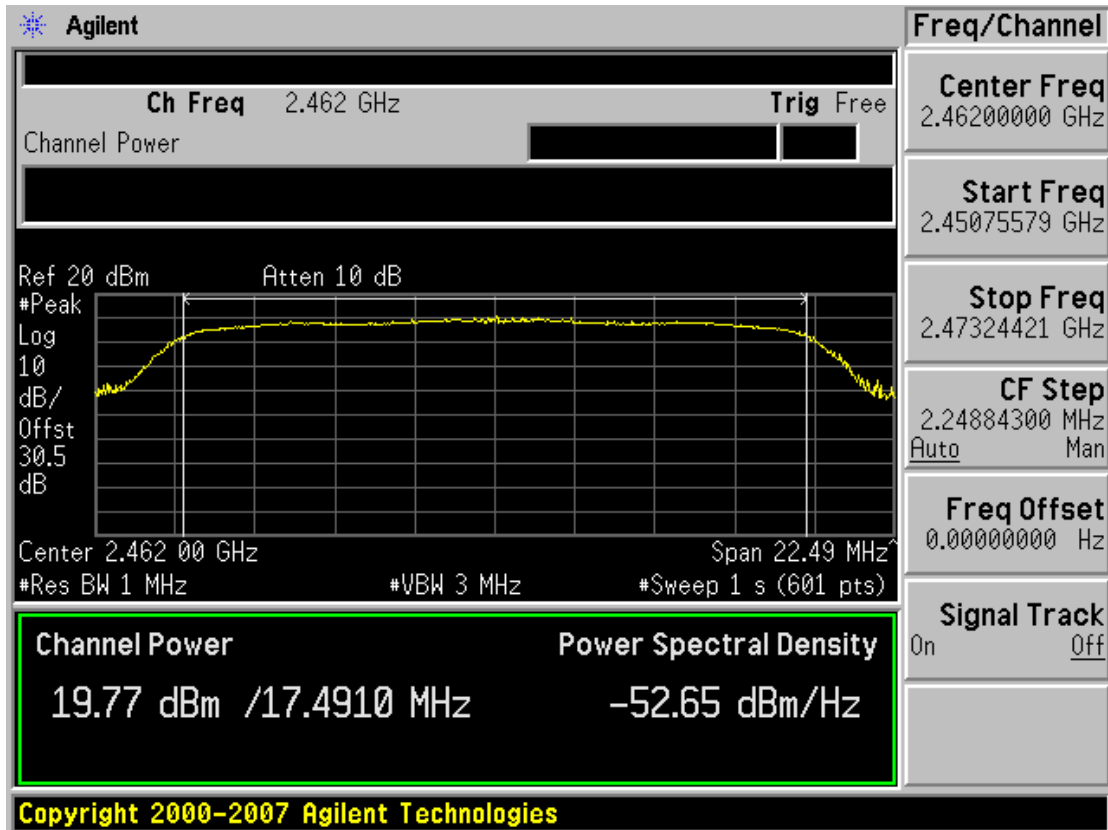
Conducted Output Power (802.11n-CH 6) 58.5Mbps



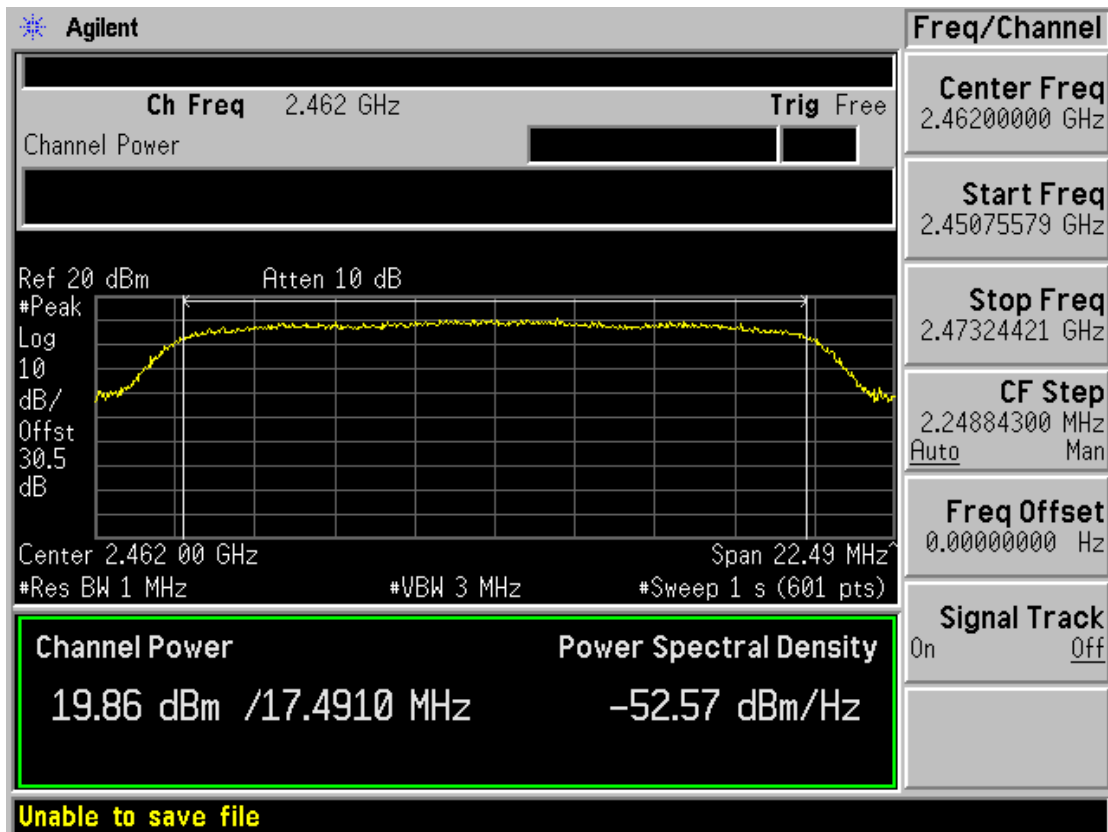
Conducted Output Power (802.11n-CH 6) 65Mbps



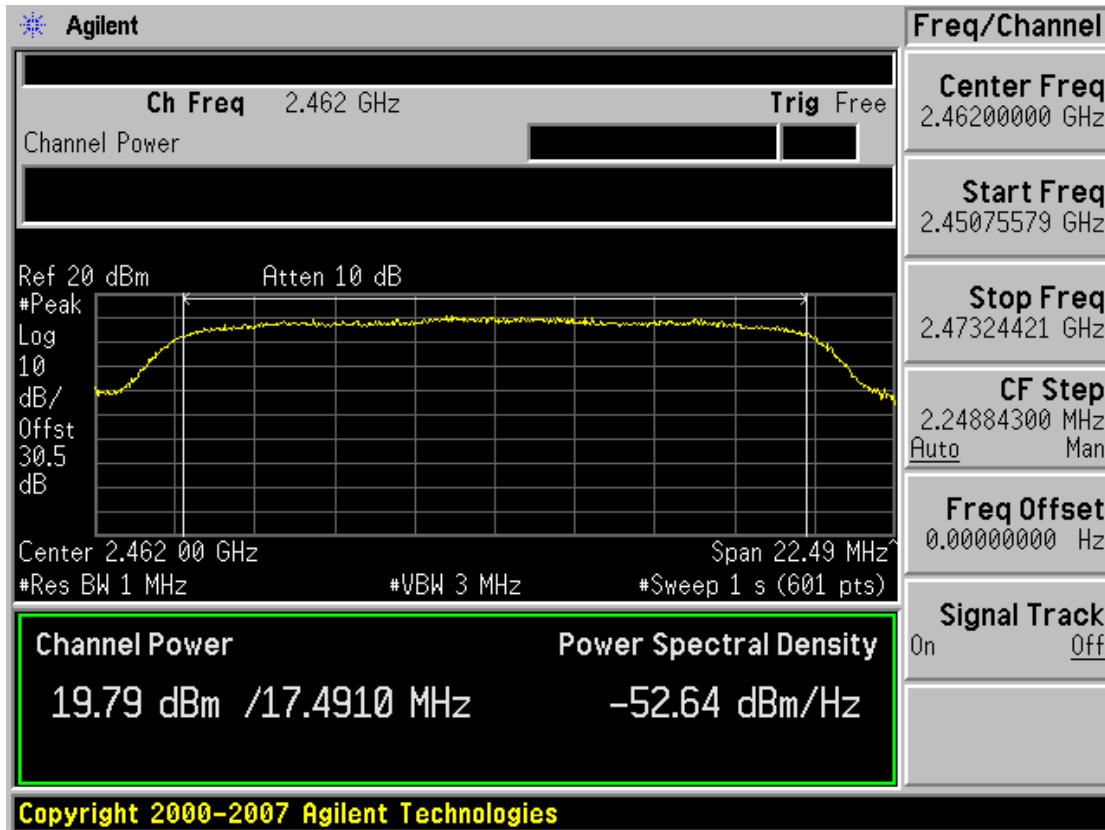
Conducted Output Power (802.11n-CH 11) 6.5Mbps



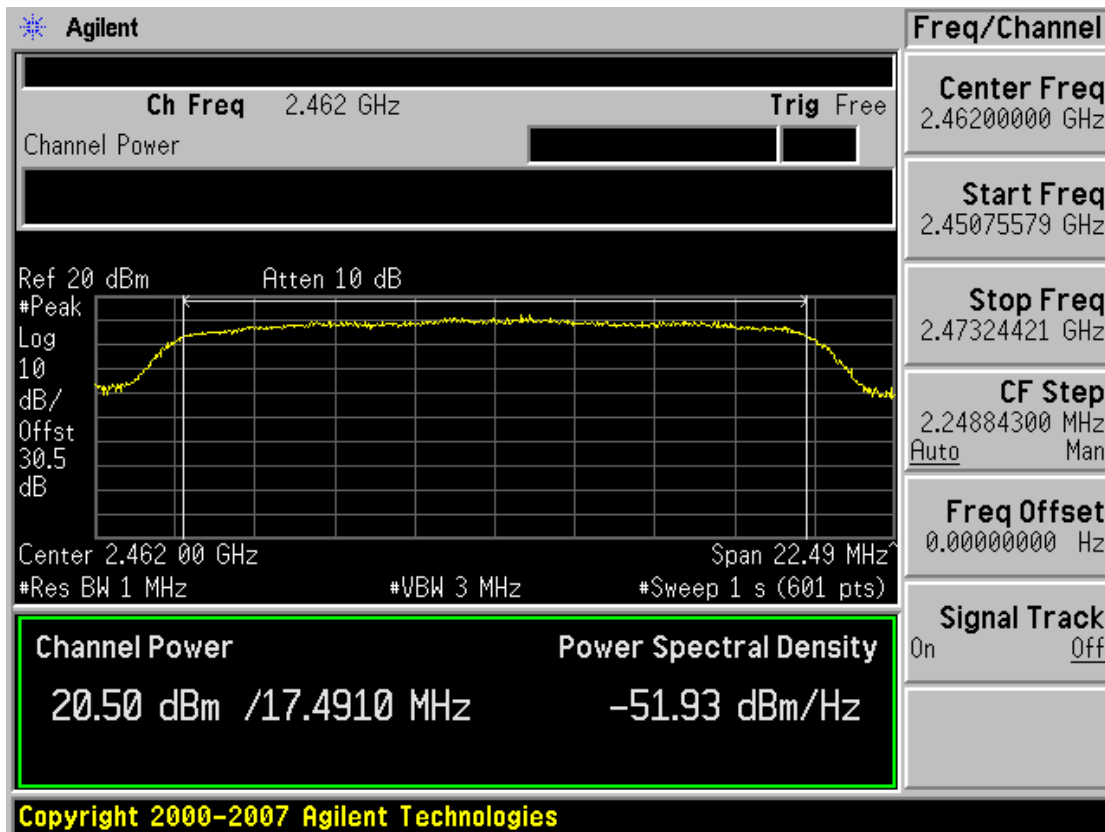
Conducted Output Power (802.11n-CH 11) 13Mbps



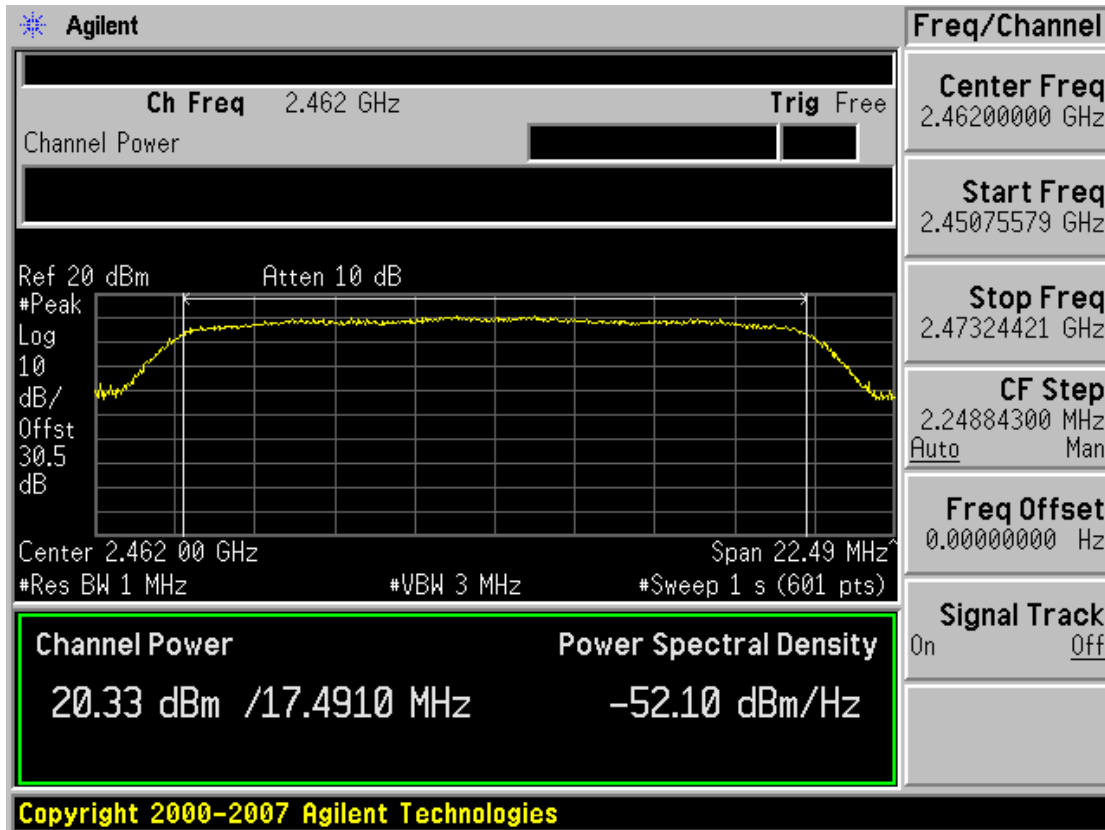
Conducted Output Power (802.11n-CH 11) 19.5Mbps



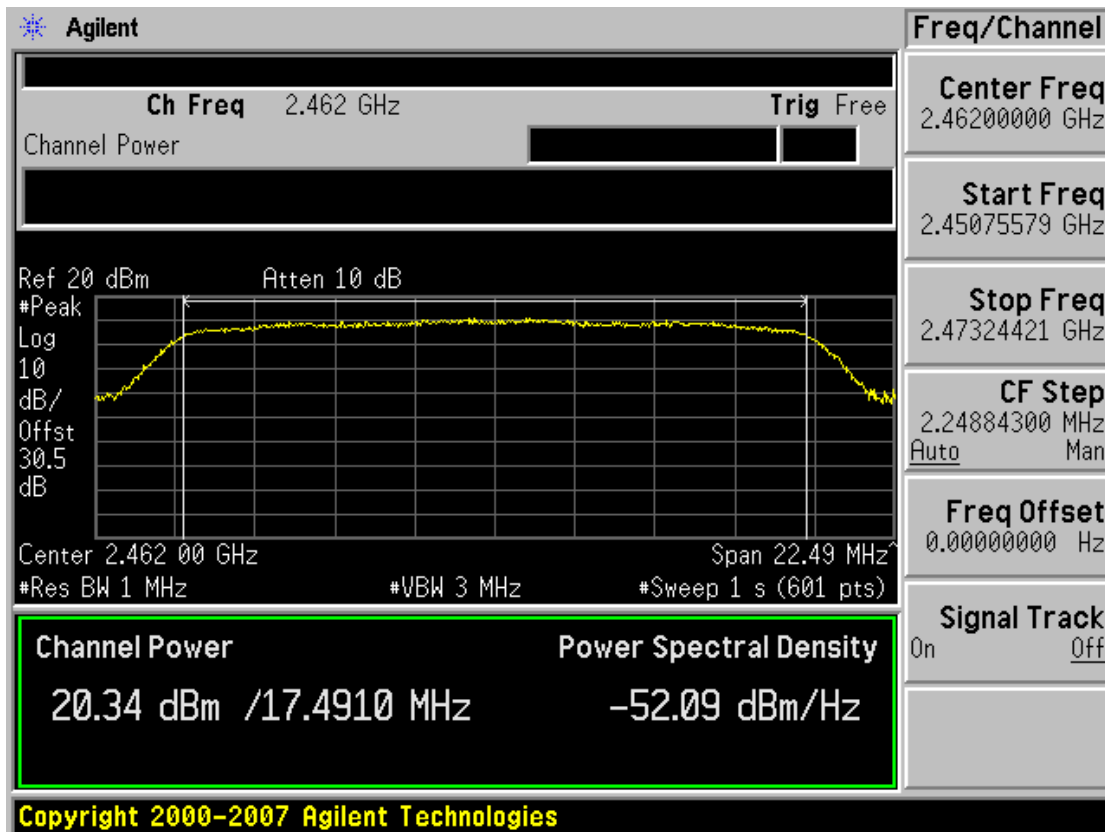
Conducted Output Power (802.11n-CH 11) 26Mbps



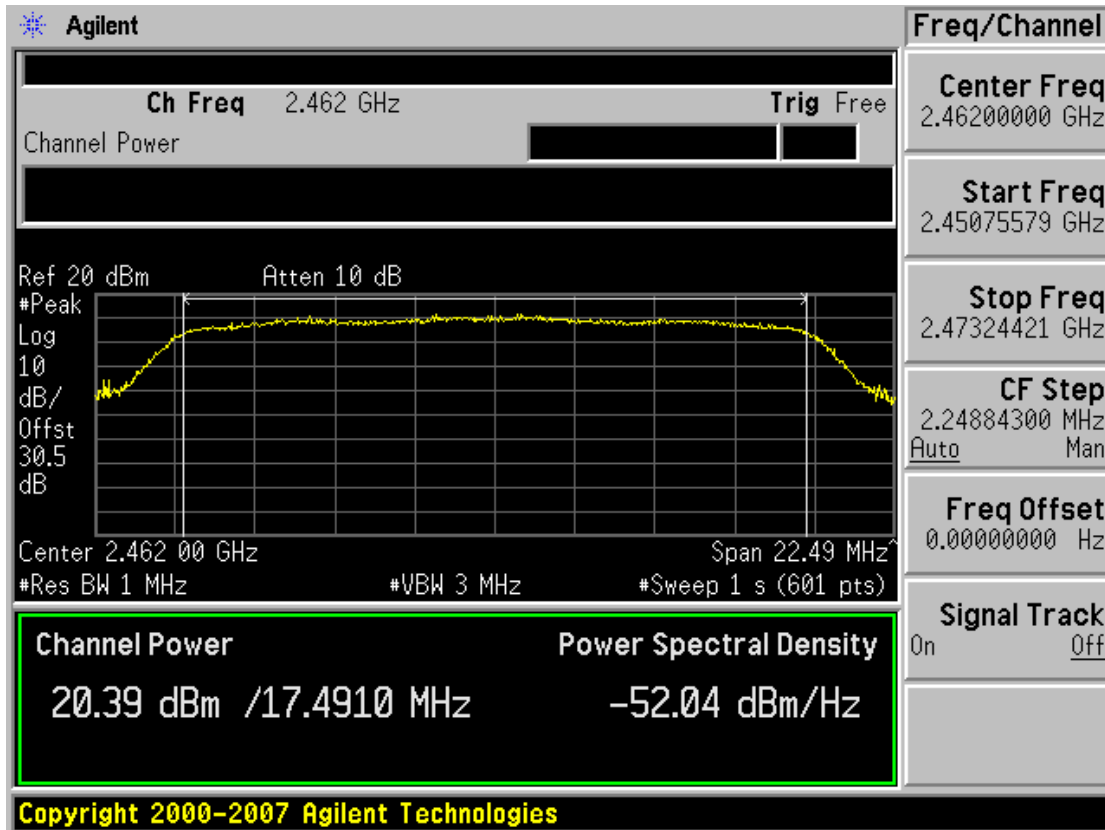
Conducted Output Power (802.11n-CH 11) 39Mbps



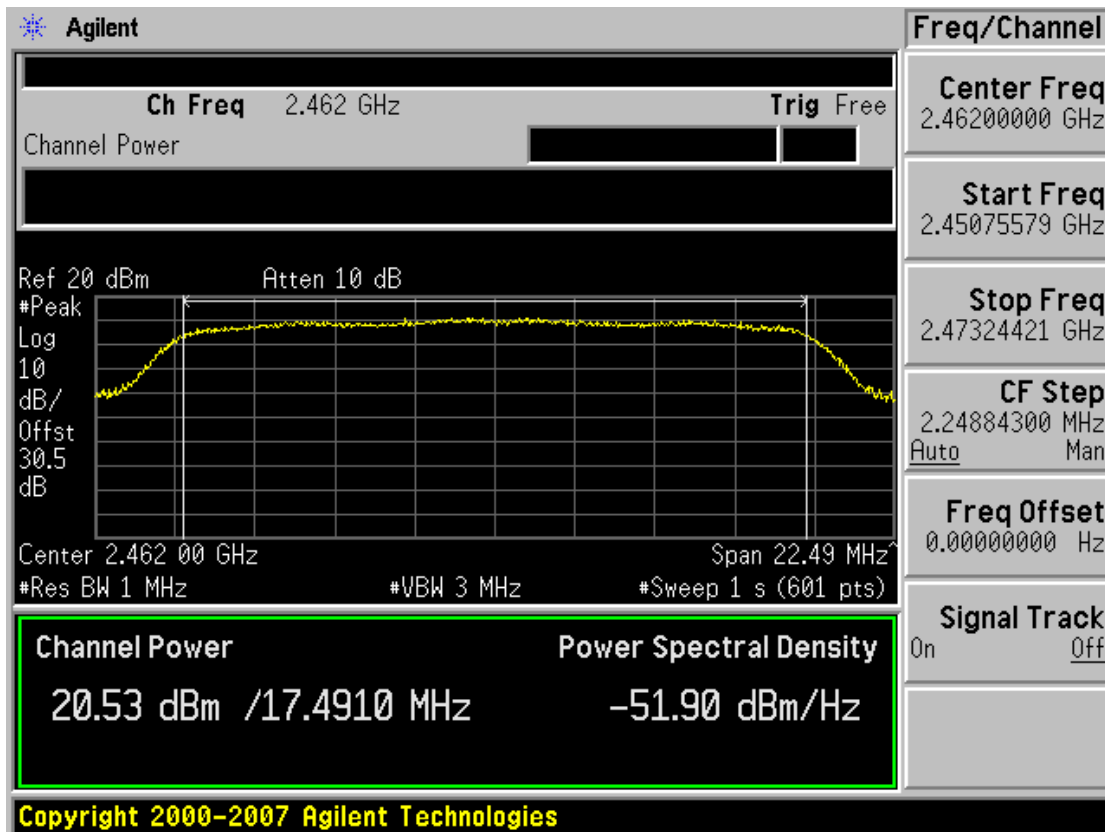
Conducted Output Power (802.11n-CH 11) 52Mbps



Conducted Output Power (802.11n-CH 11) 58.5Mbps

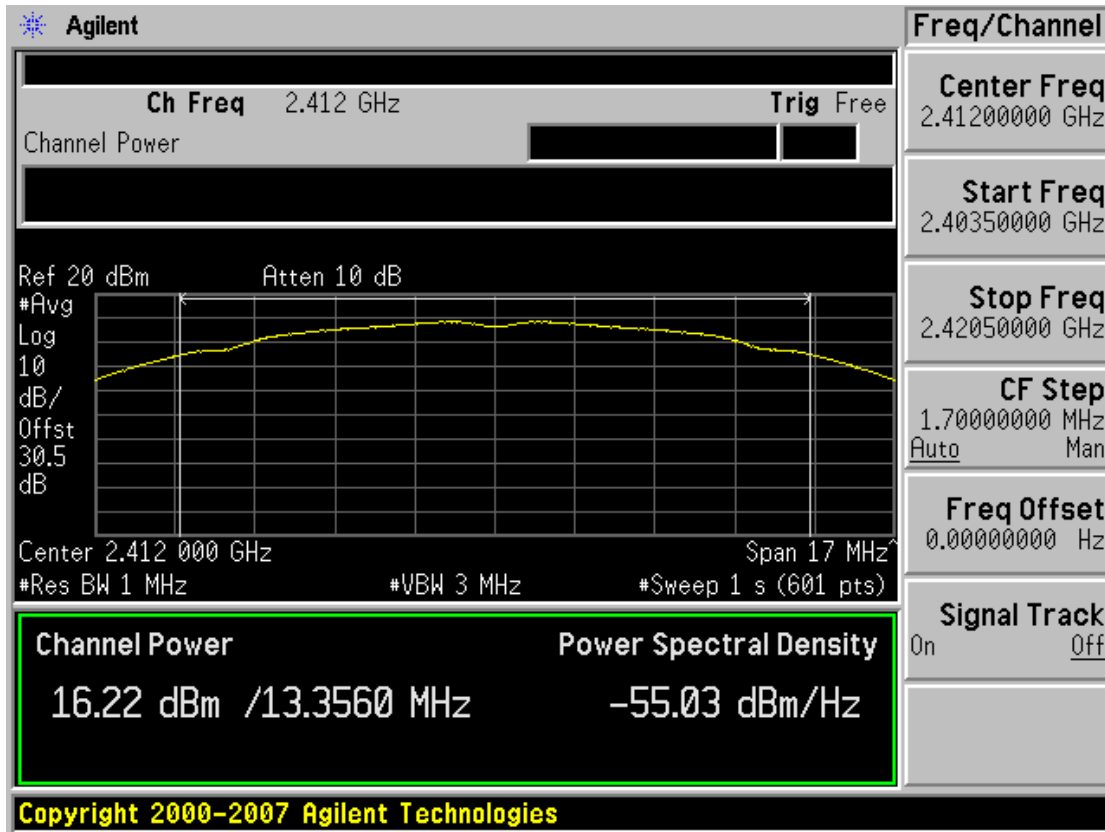


Conducted Output Power (802.11n-CH 11) 65Mbps



RESULT PLOTS-Average

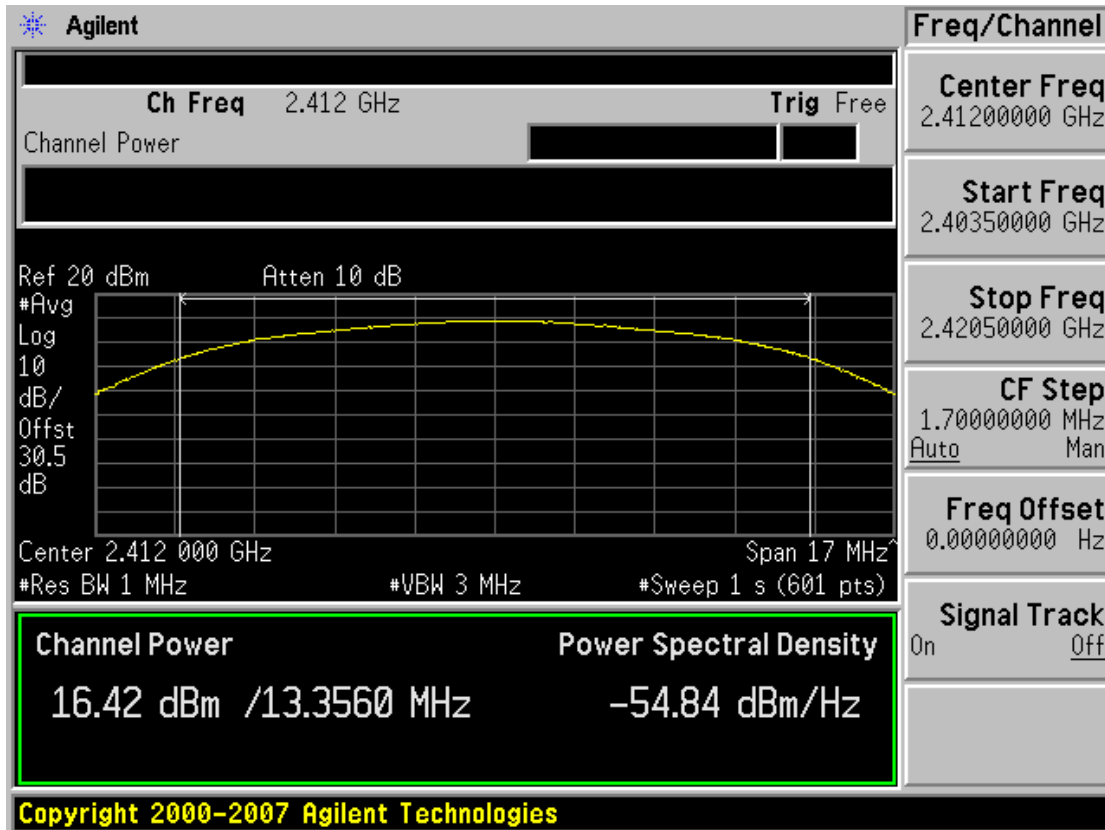
Conducted Output Power (802.11b-CH 1) 1Mbps



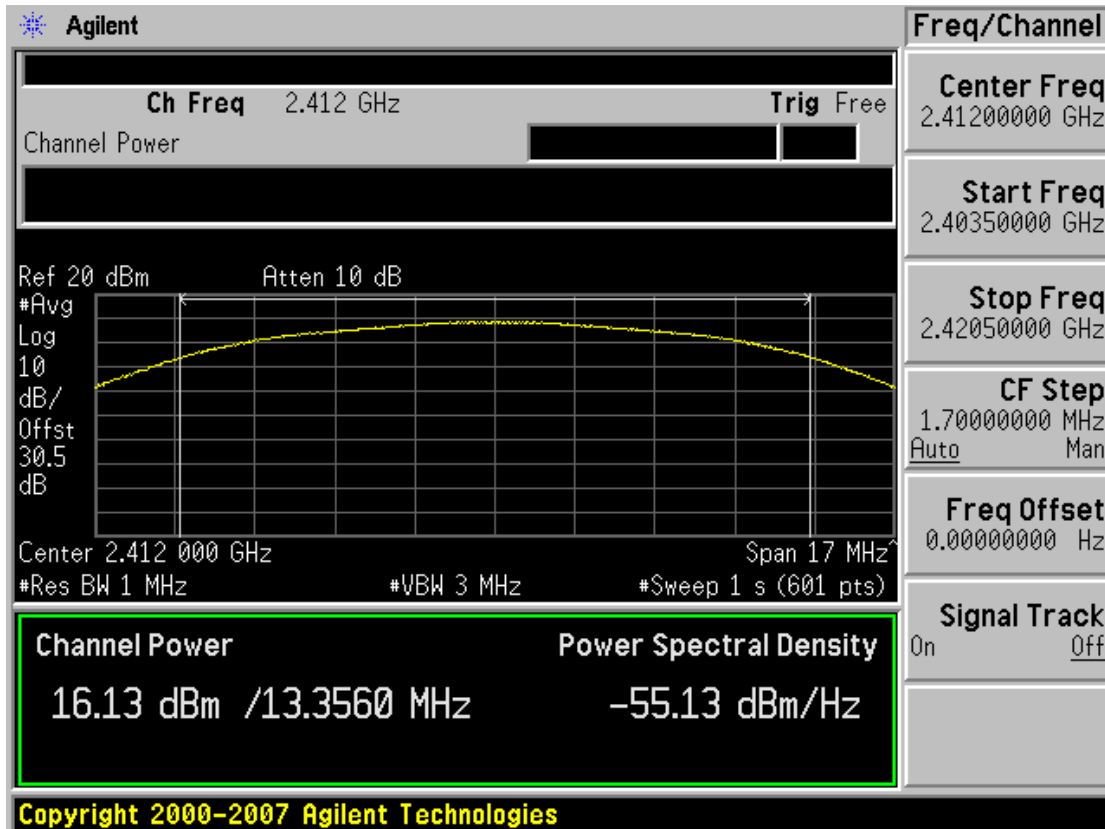
Conducted Output Power (802.11b-CH 1) 2Mbps



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

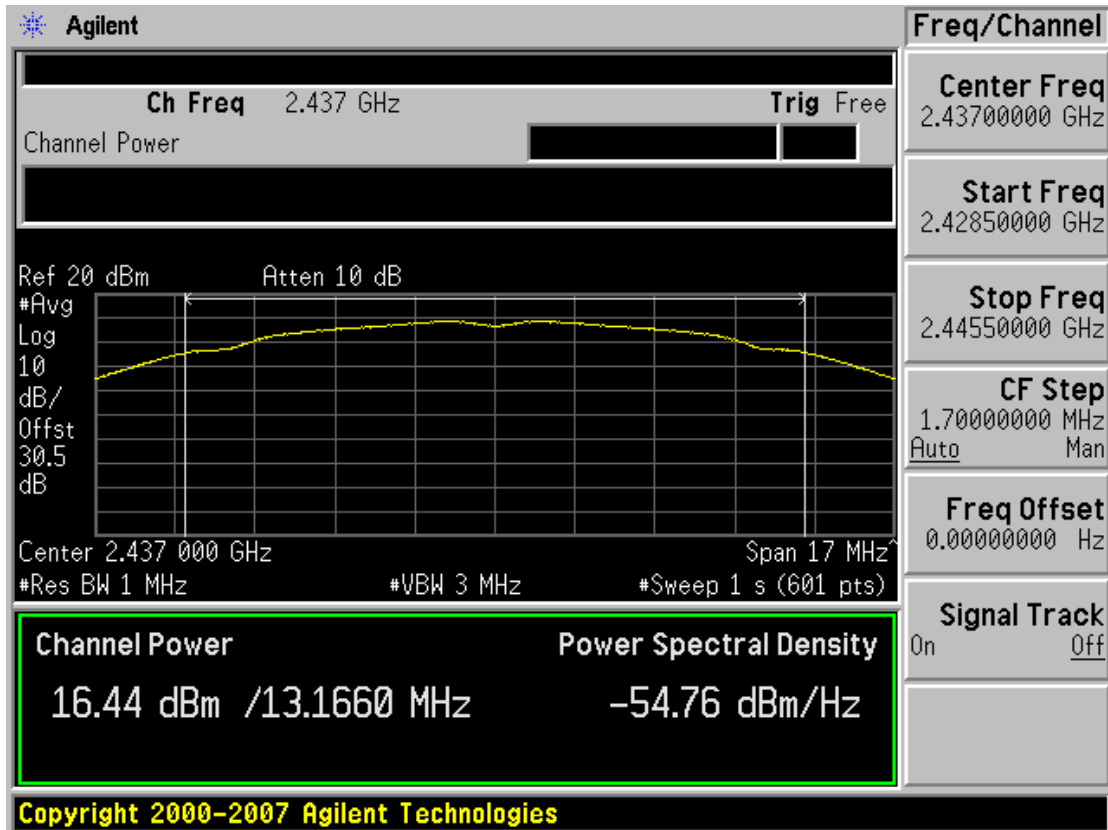


Conducted Output Power (802.11b-CH 1) 11Mbps

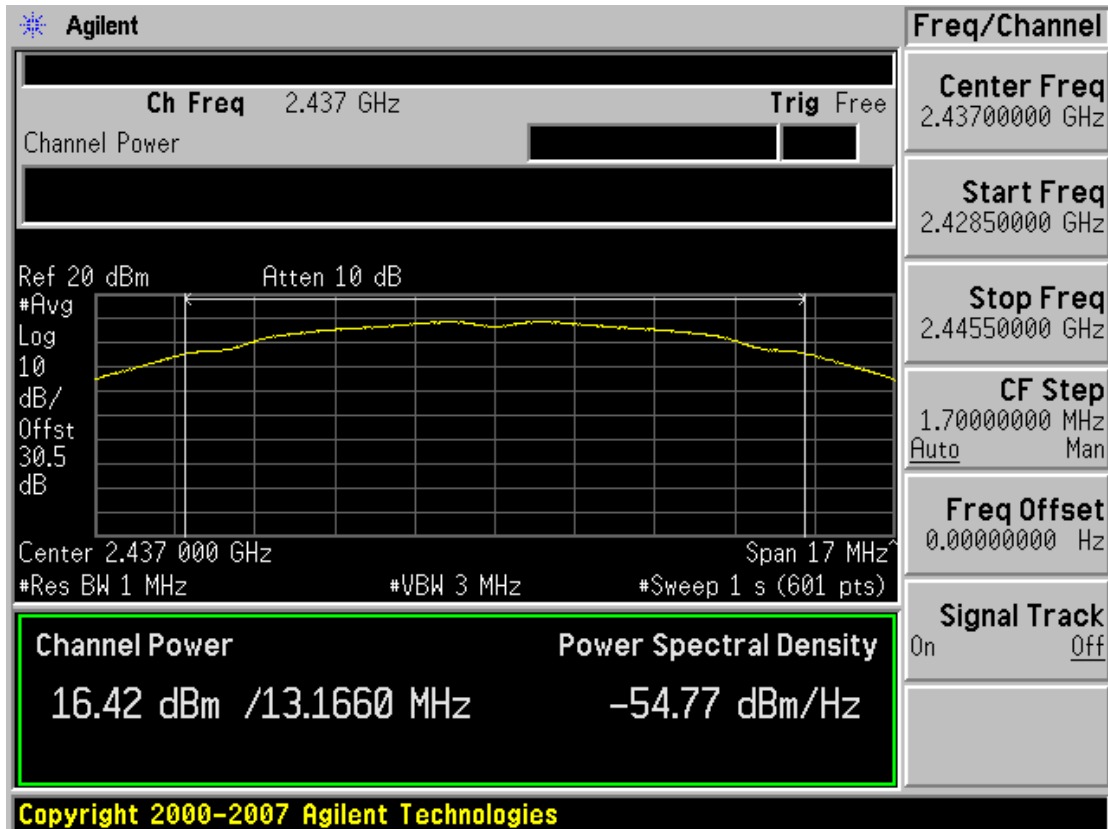


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only		FCC ID: A3LGT5830I

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

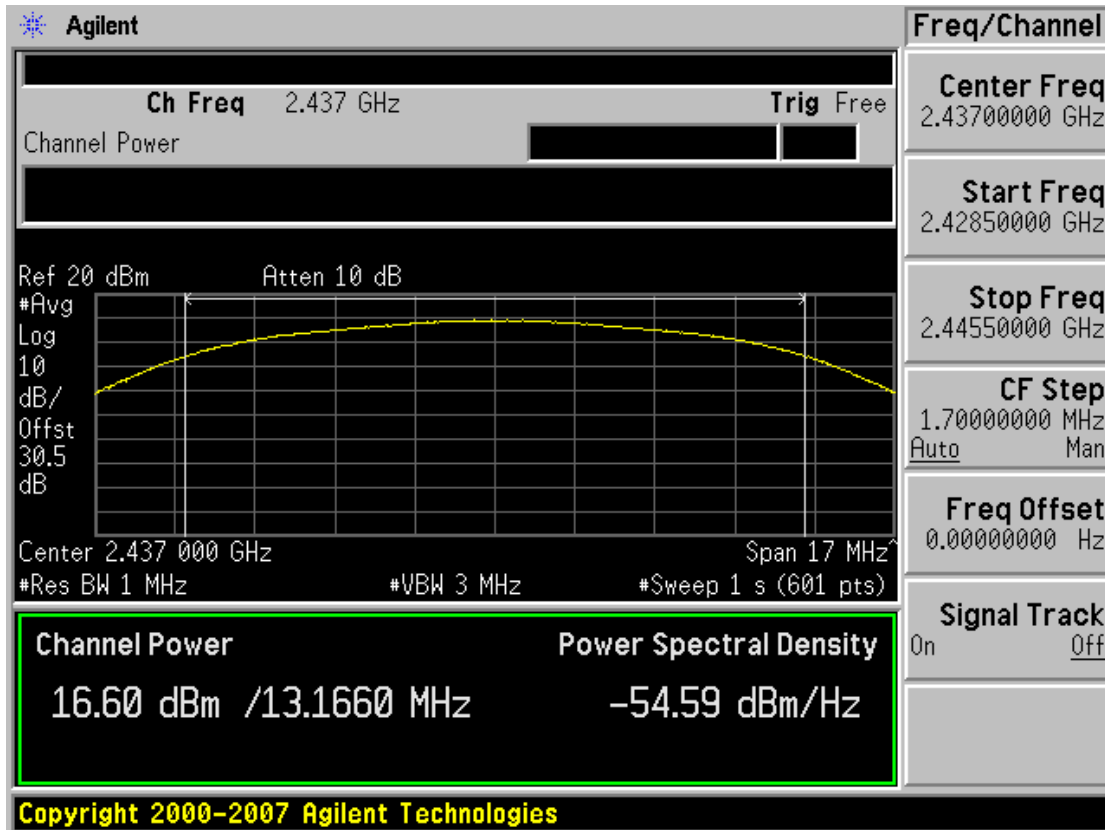


Conducted Output Power (802.11b-CH 6) 2Mbps

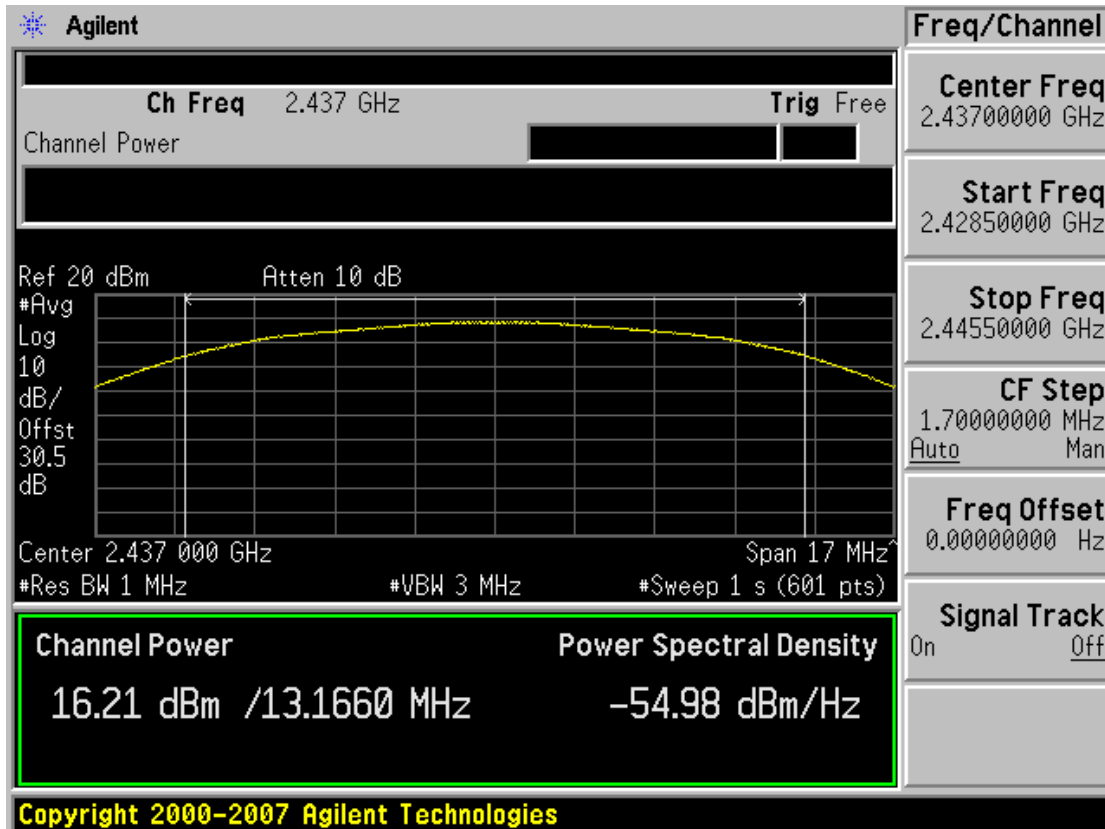


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGT5830I

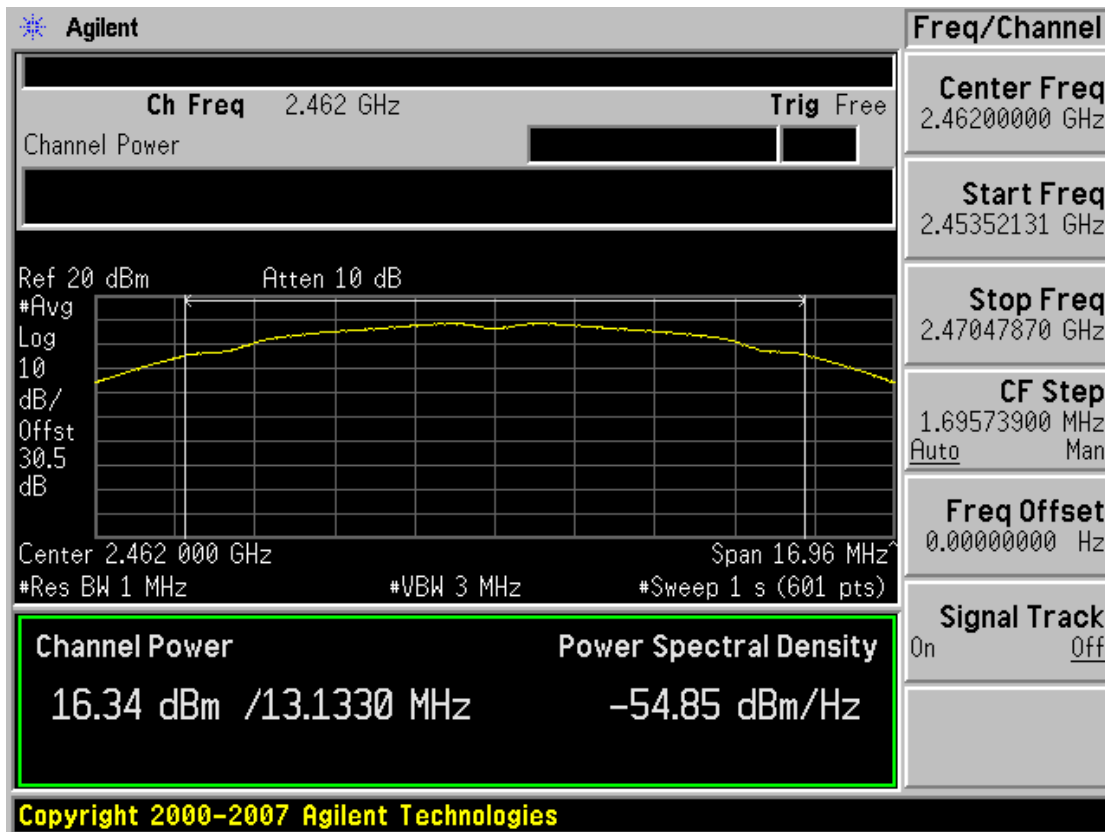
Conducted Output Power (802.11b-CH 6) 5.5Mbps



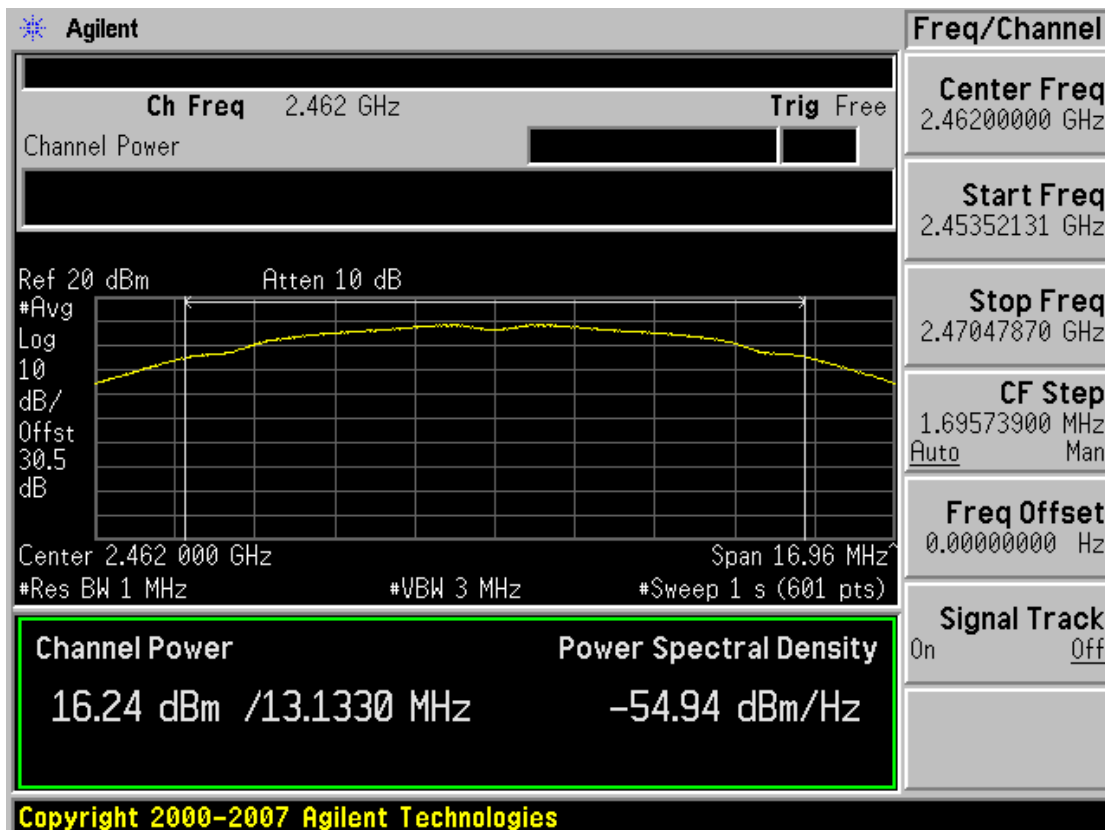
Conducted Output Power (802.11b-CH 6) 11Mbps



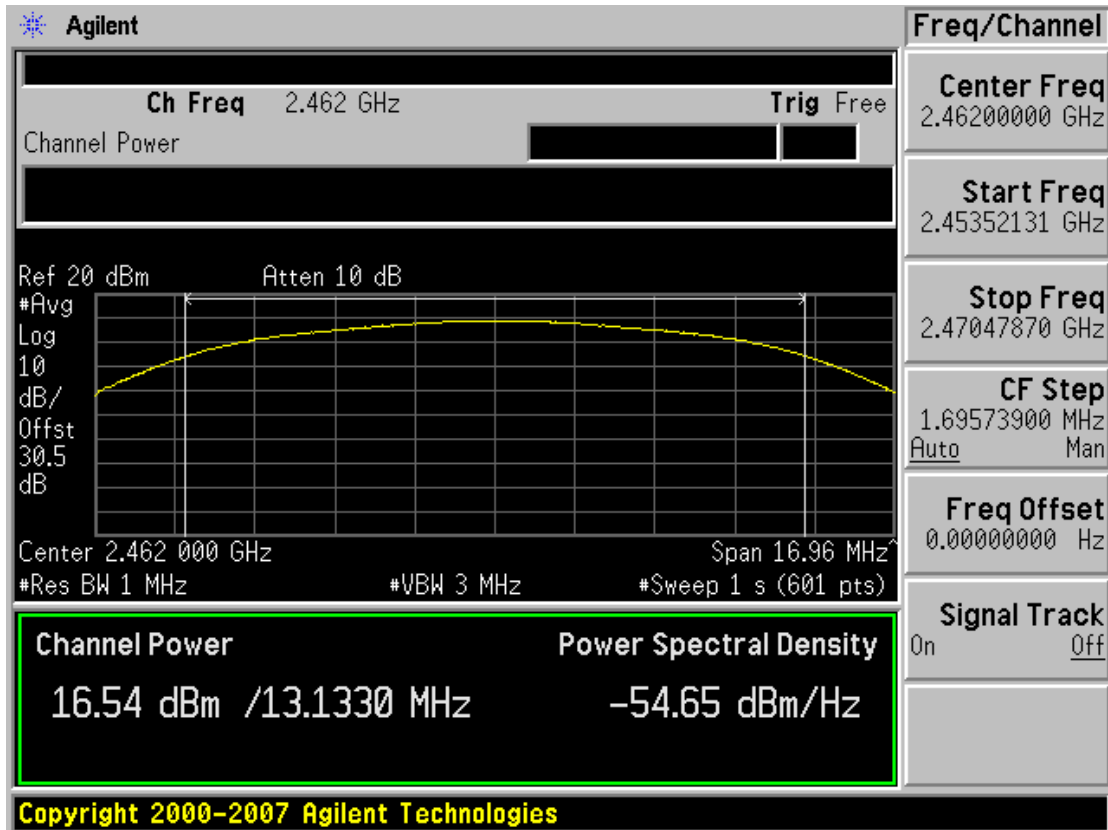
Conducted Output Power (802.11b-CH 11) 1Mbps



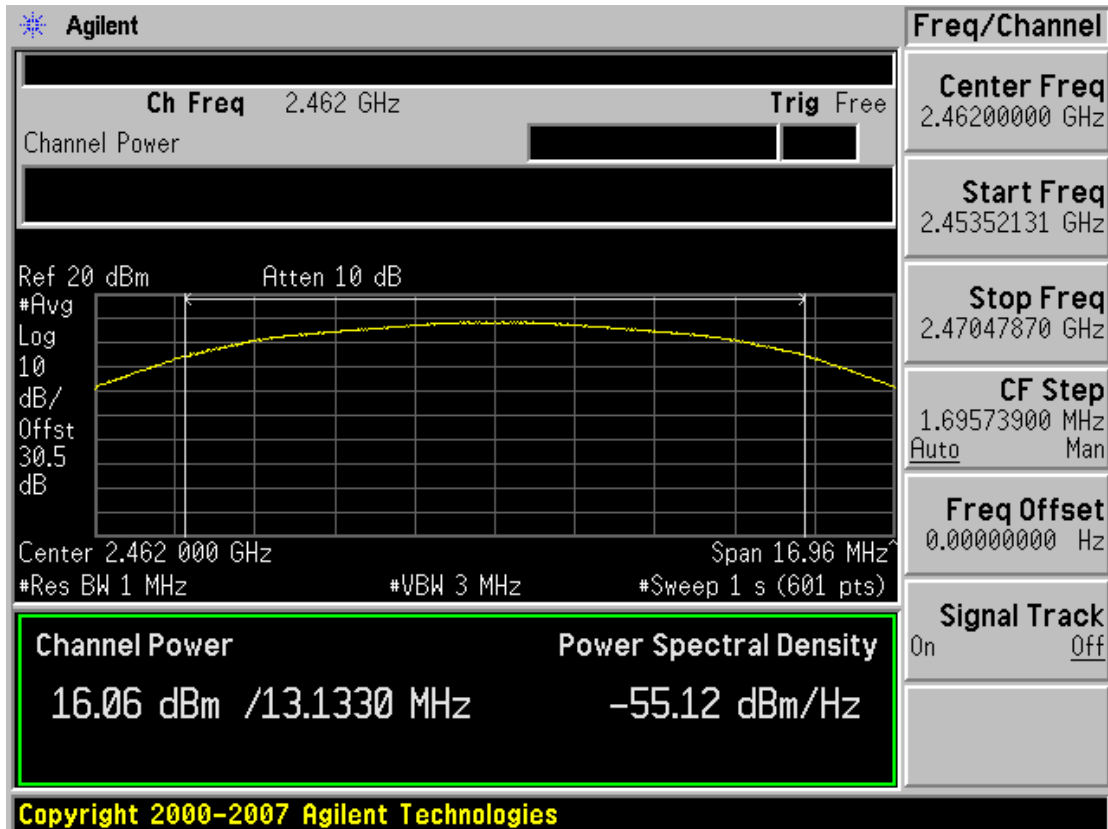
Conducted Output Power (802.11b-CH 11) 2Mbps



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

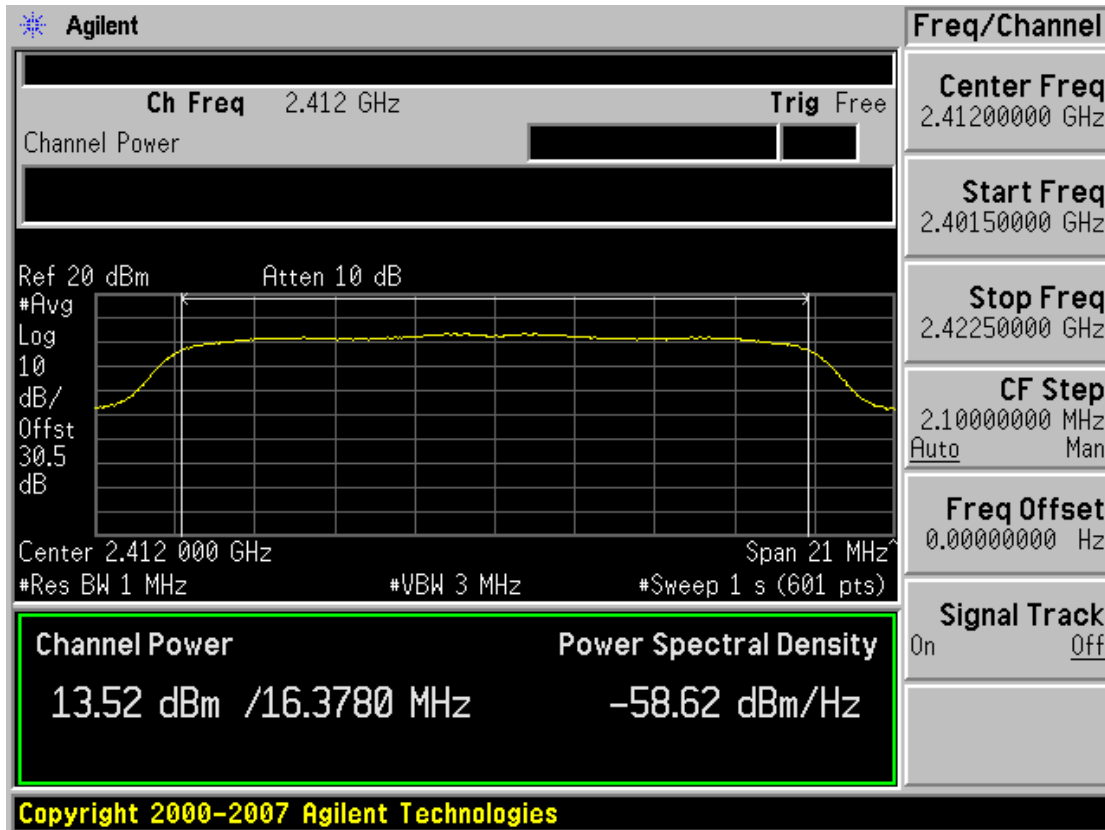


Conducted Output Power (802.11b-CH 11) 11Mbps

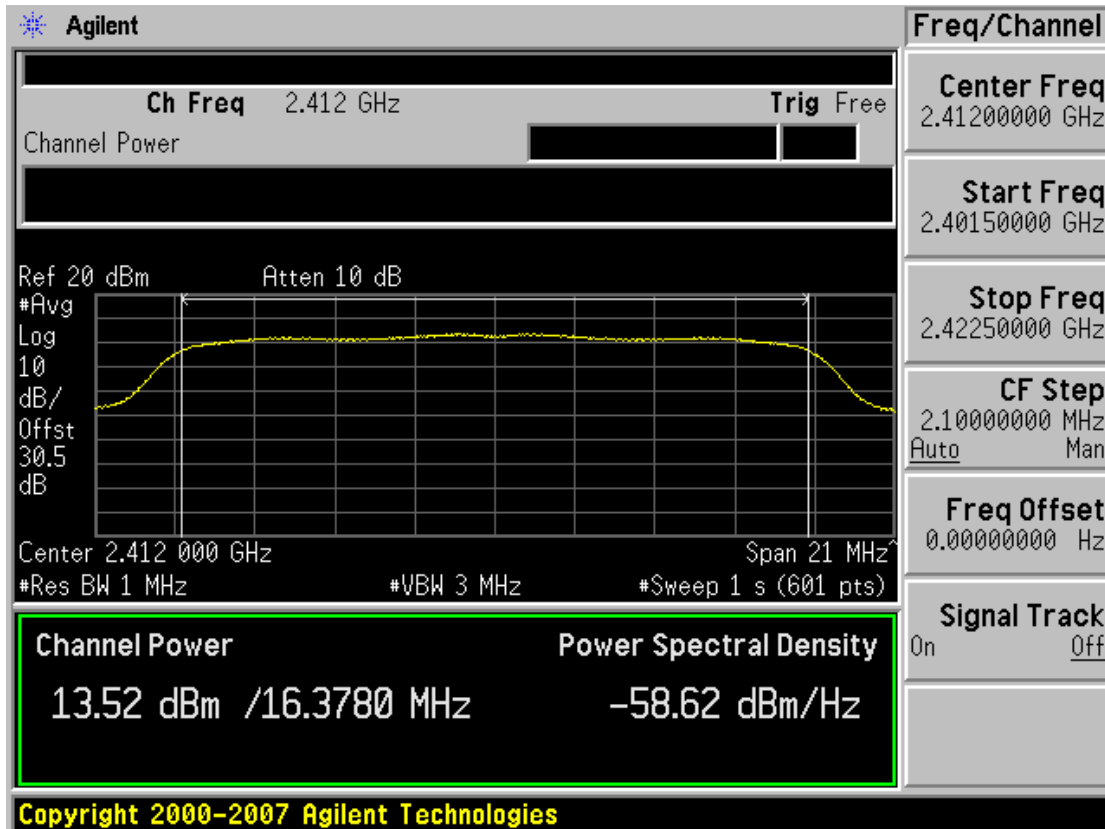


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
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Conducted Output Power (802.11g-CH 1) 6Mbps

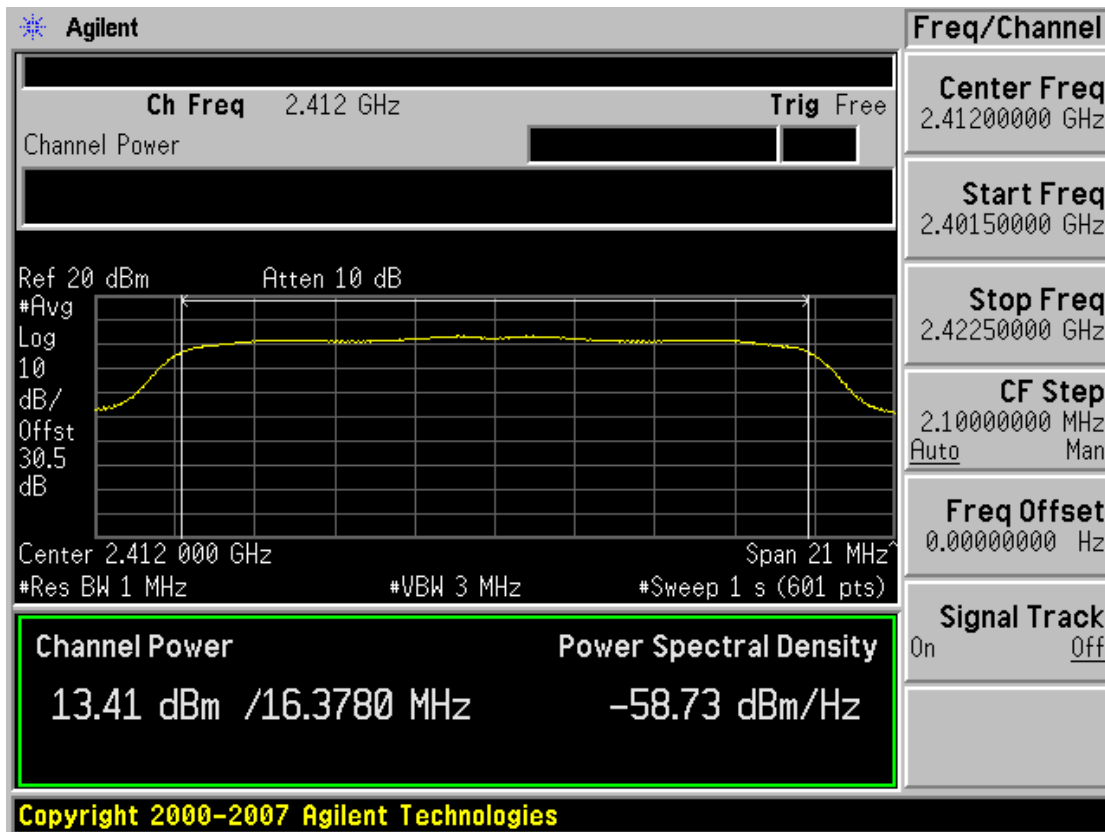


Conducted Output Power (802.11g-CH 1) 9Mbps

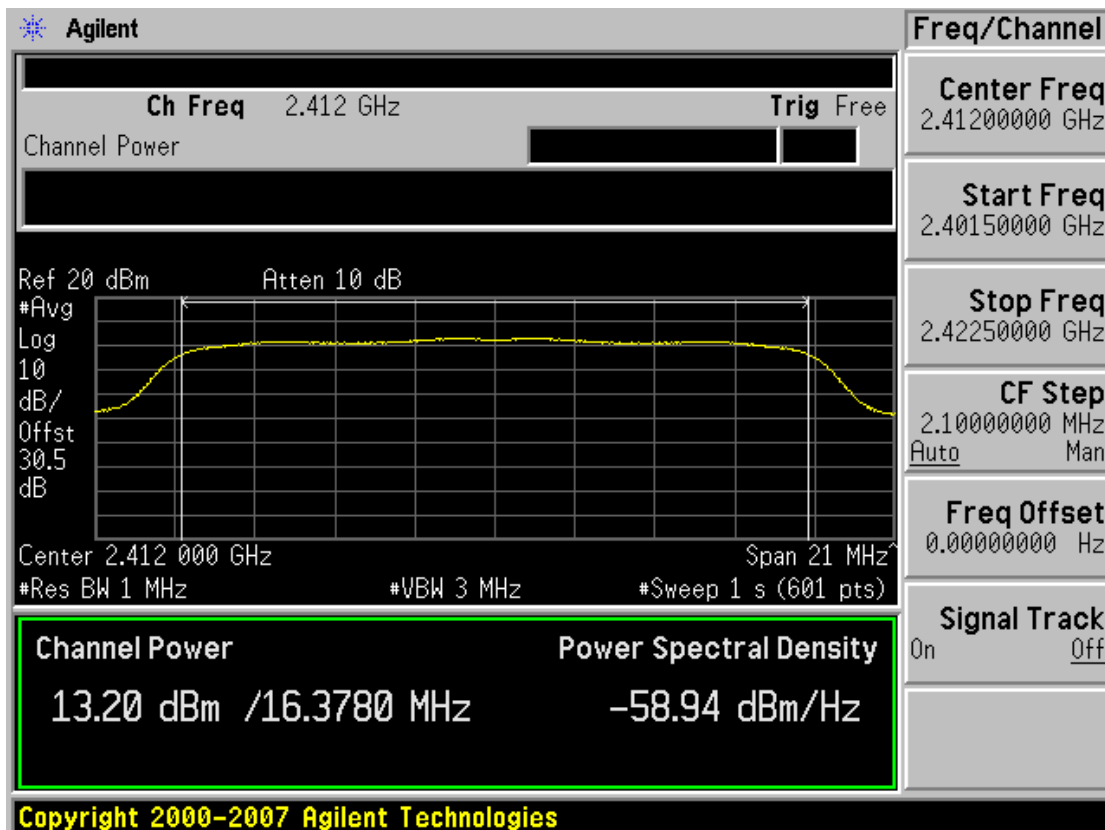


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
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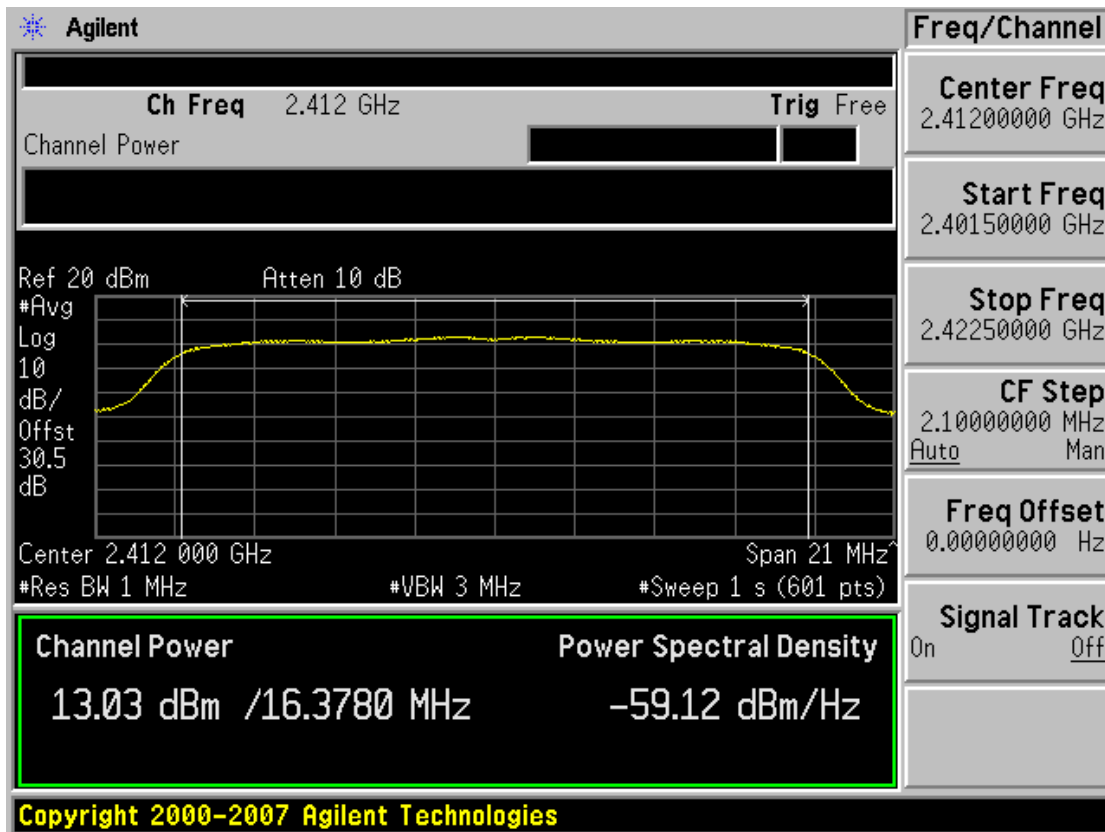
Conducted Output Power (802.11g-CH 1) 12Mbps



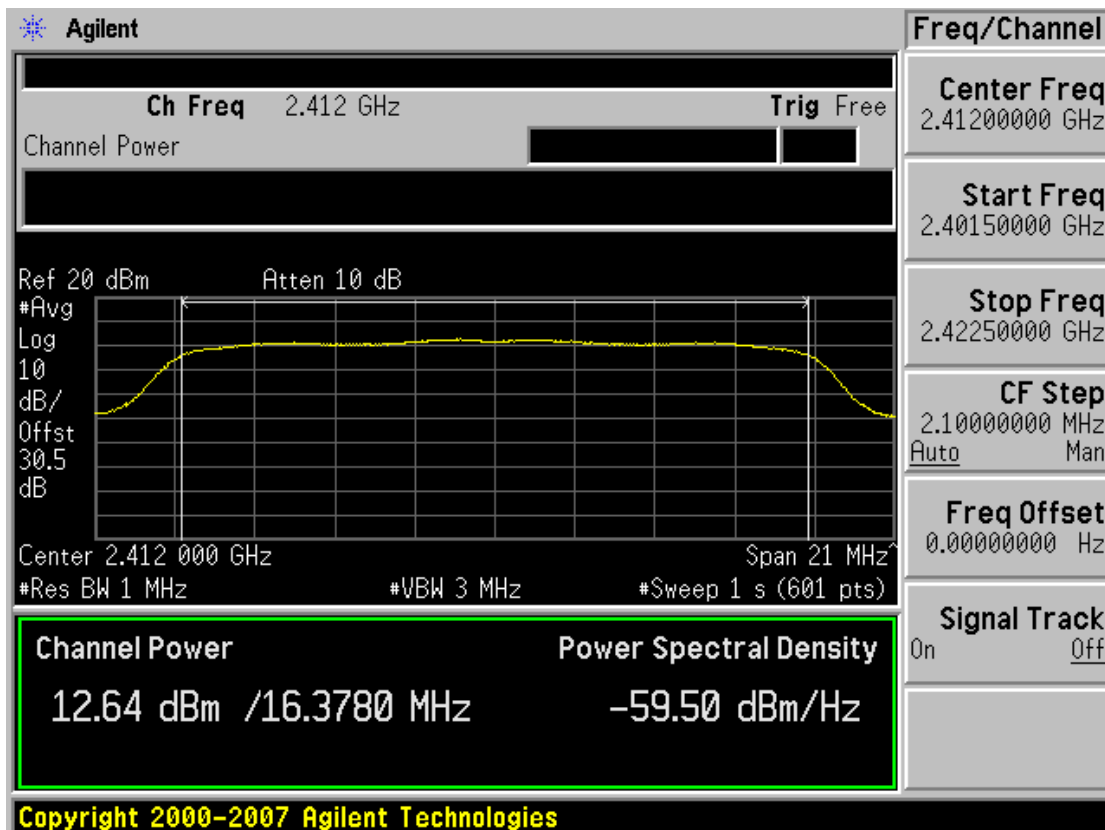
Conducted Output Power (802.11g-CH 1) 18Mbps



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

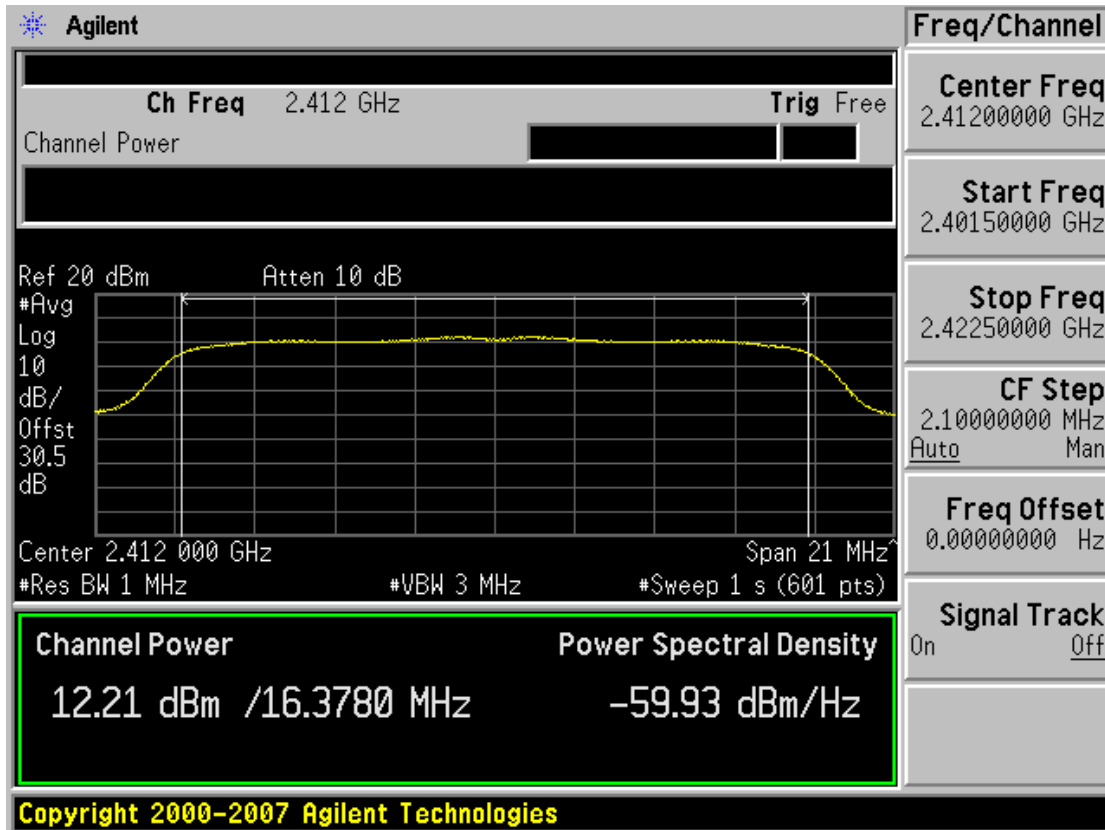


Conducted Output Power (802.11g-CH 1) 36Mbps

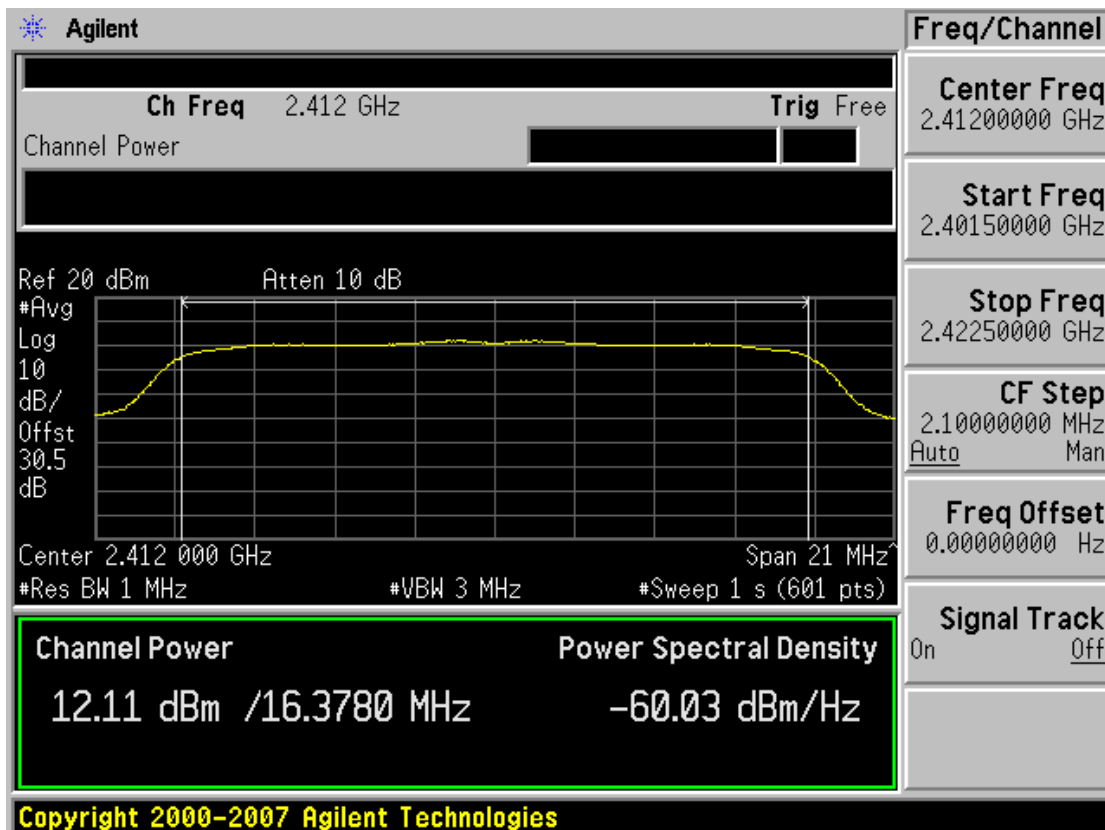


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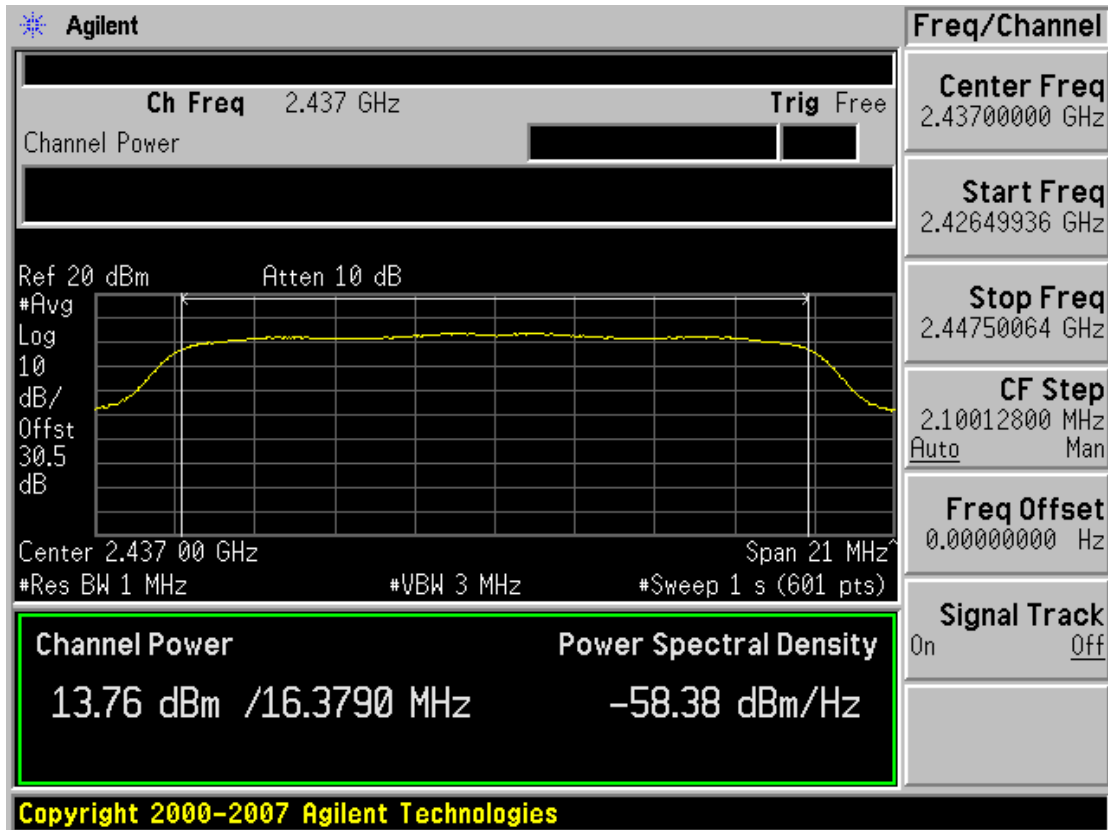
Conducted Output Power (802.11g-CH 1) 48Mbps



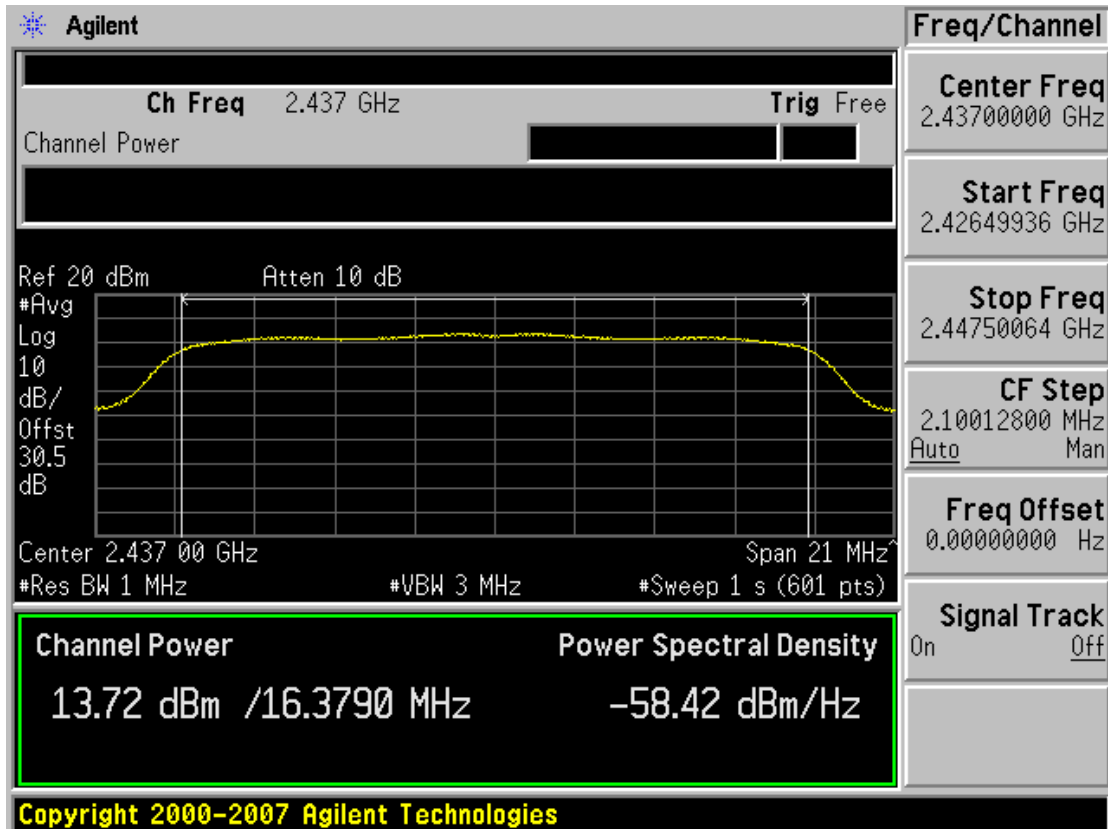
Conducted Output Power (802.11g-CH 1) 54Mbps



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

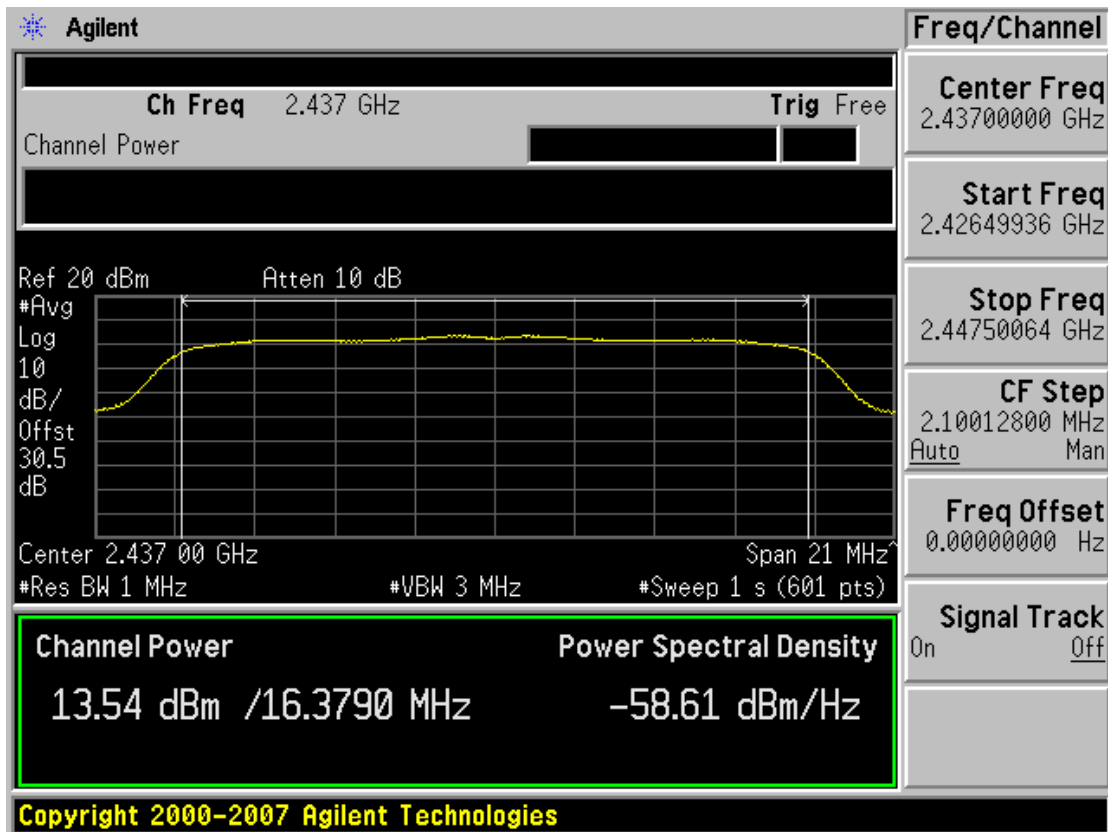


Conducted Output Power (802.11g-CH 6) 9Mbps

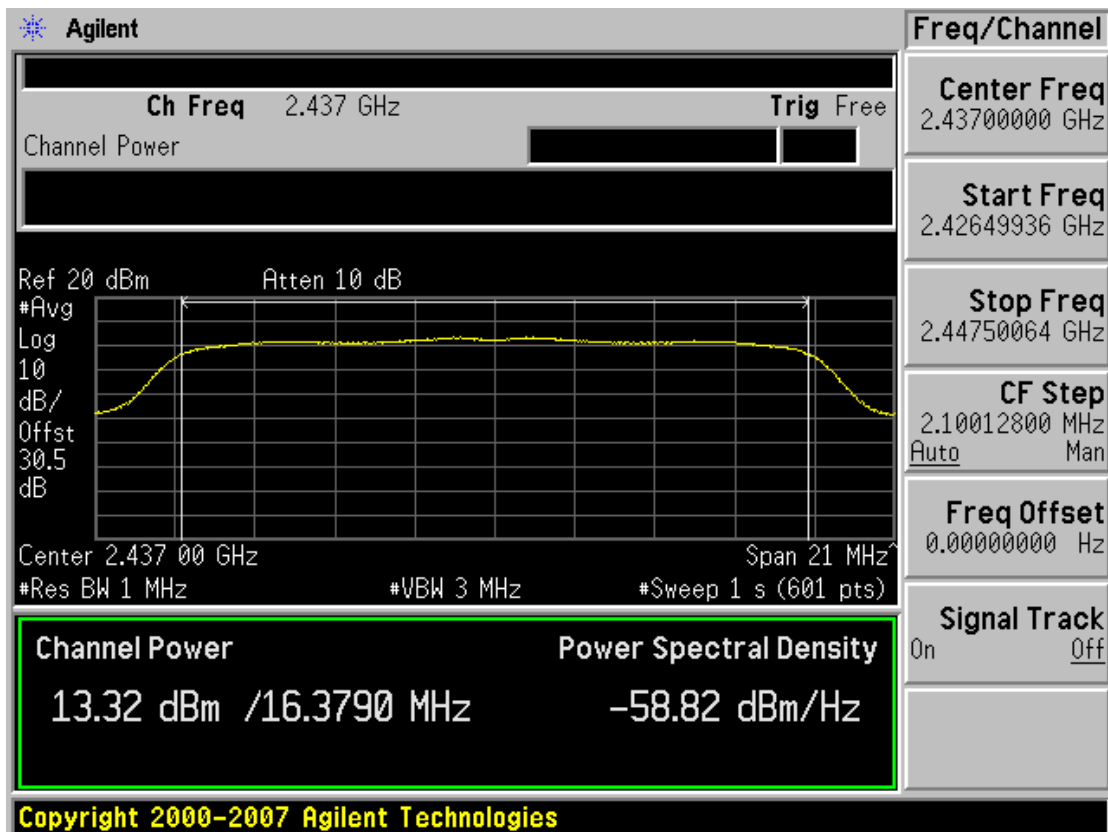


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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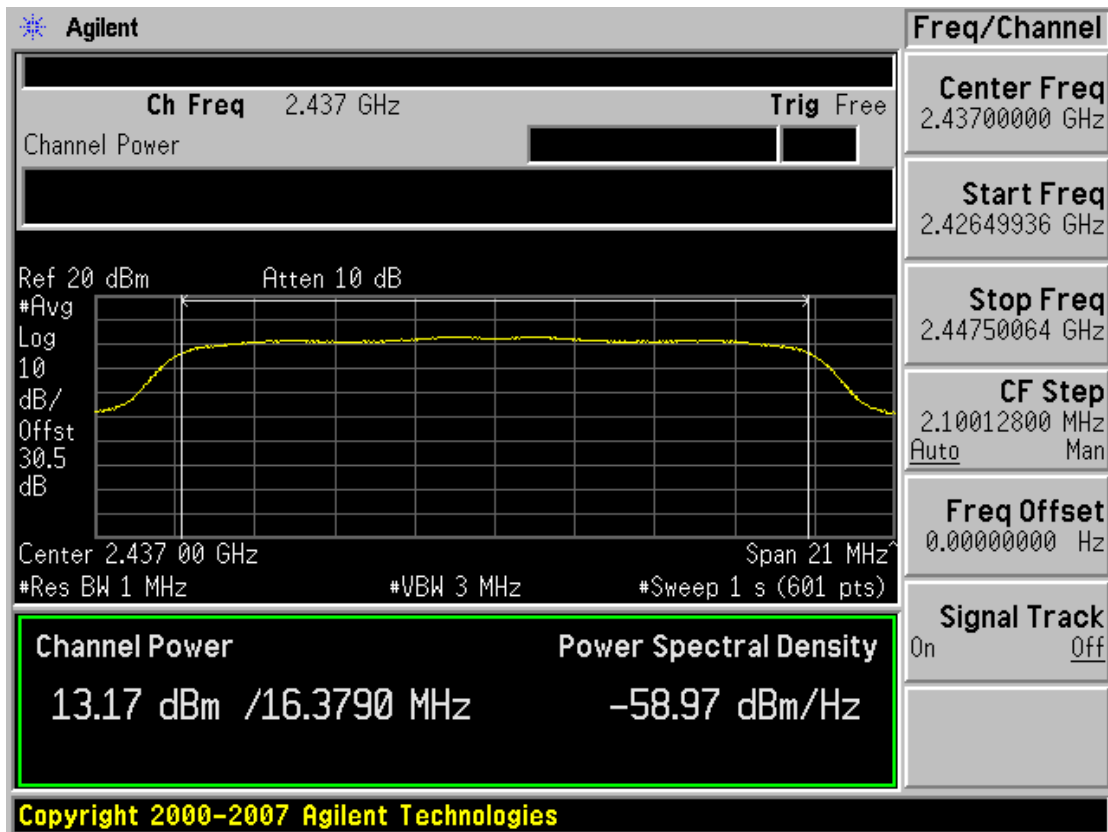
Conducted Output Power (802.11g-CH 6) 12Mbps



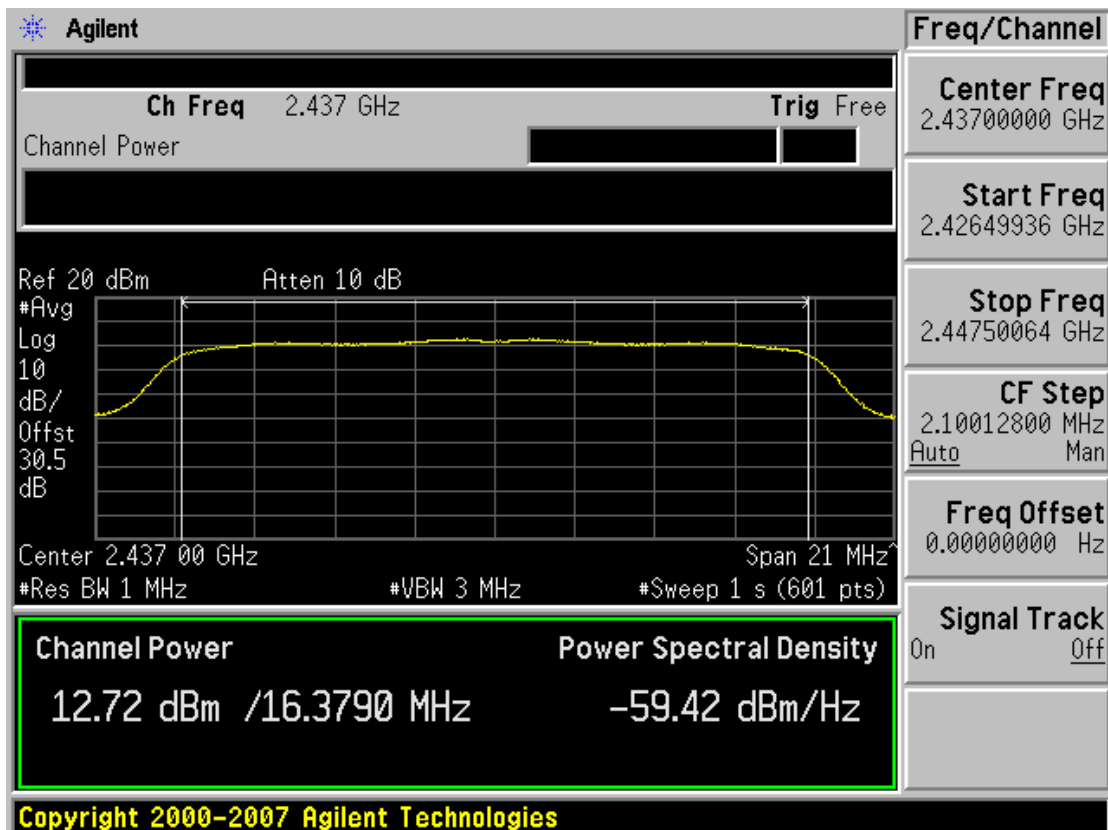
Conducted Output Power (802.11g-CH 6) 18Mbps



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

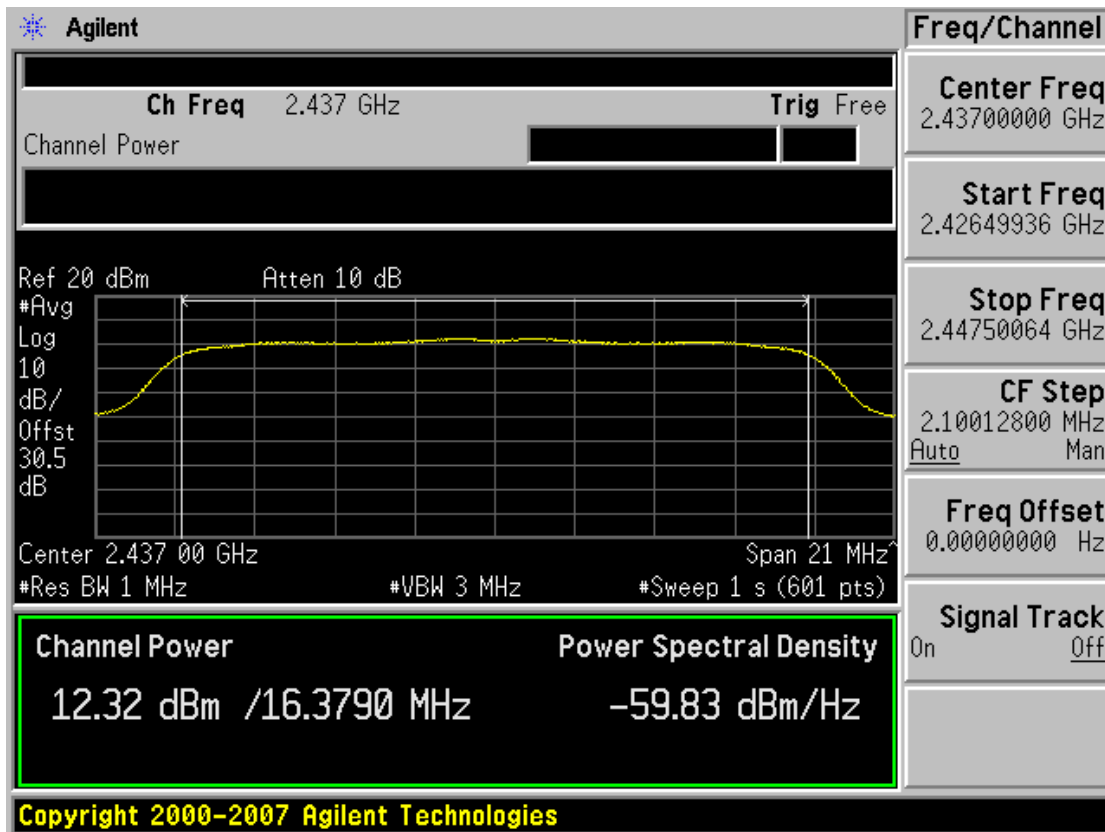


Conducted Output Power (802.11g-CH 6) 36Mbps

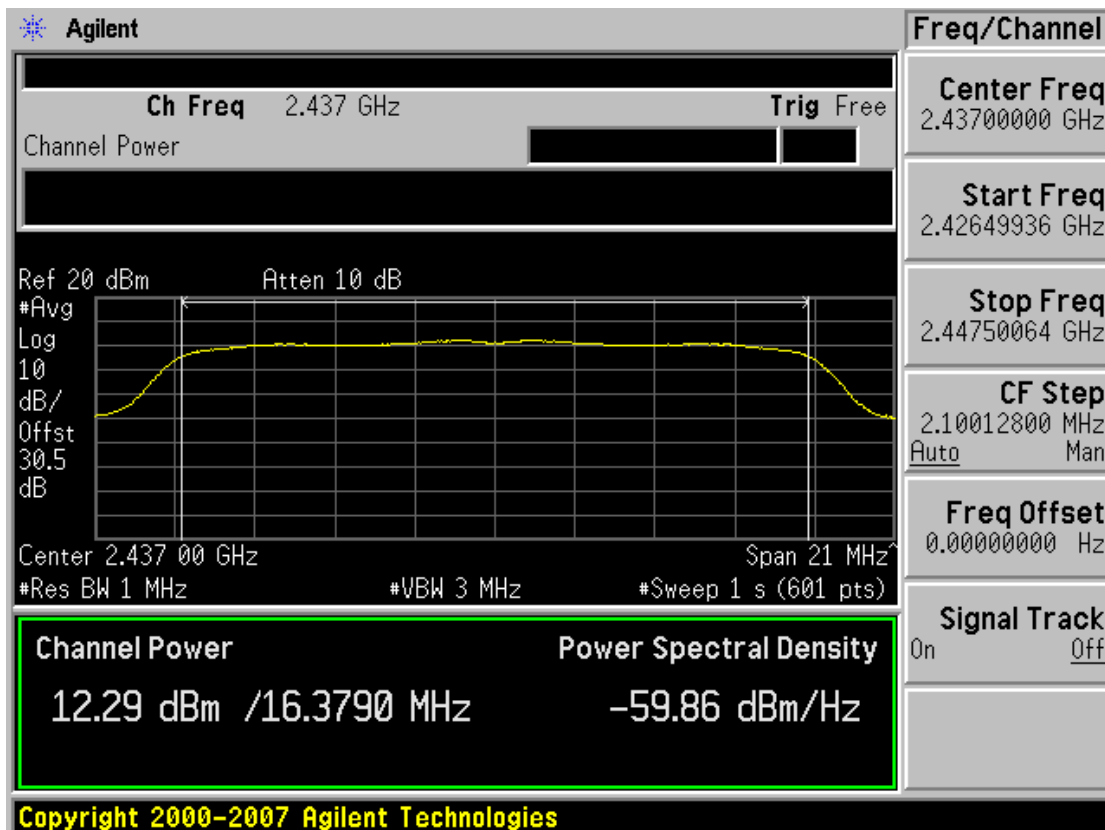


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
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Conducted Output Power (802.11g-CH 6) 48Mbps

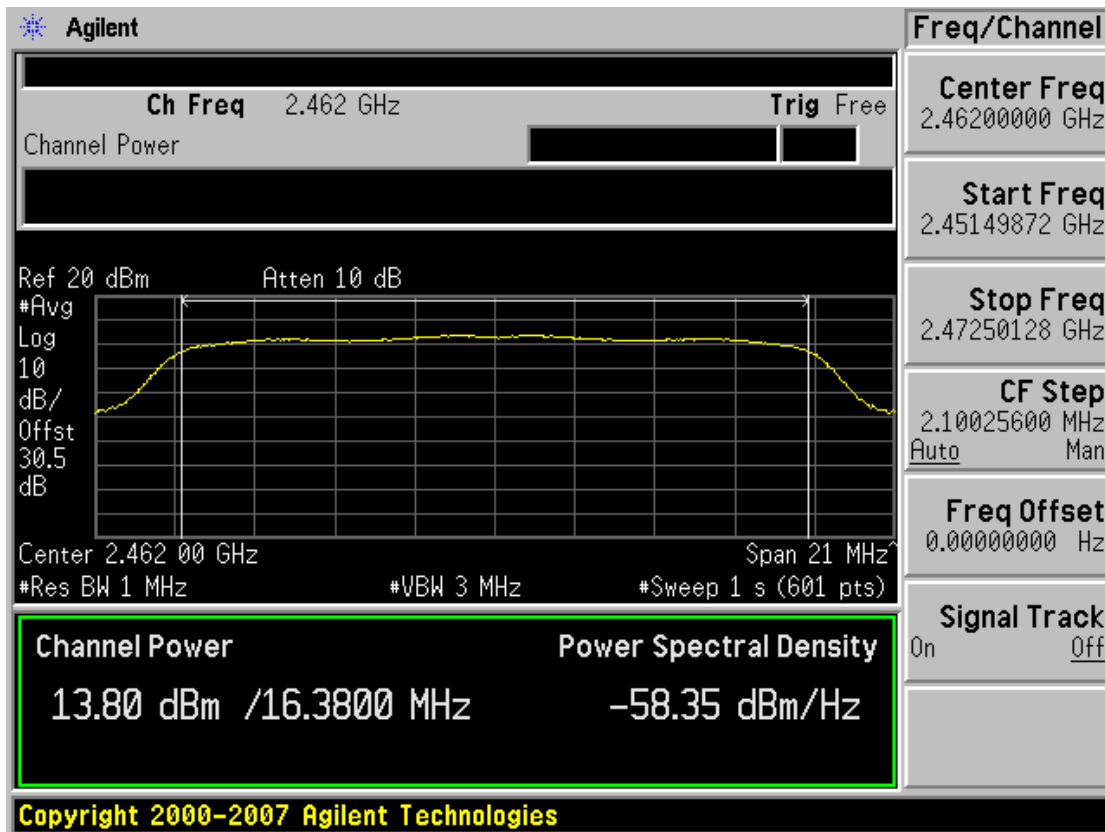


Conducted Output Power (802.11g-CH 6) 54Mbps

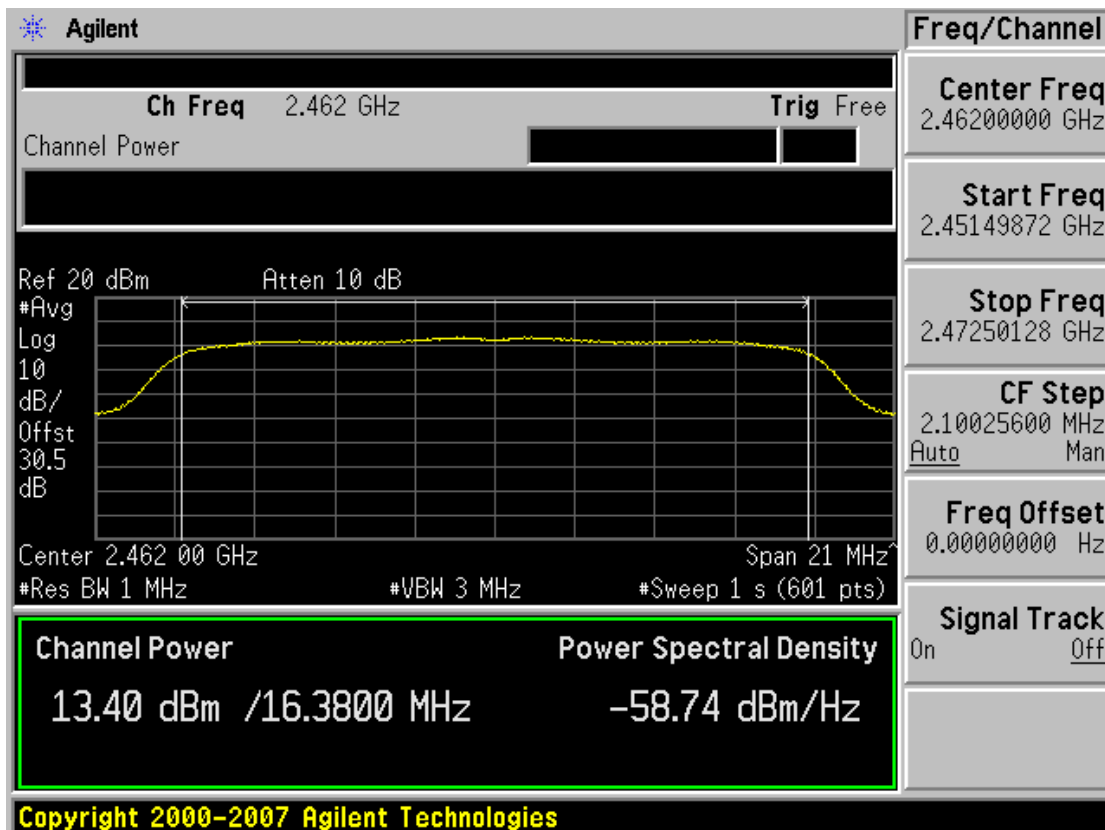


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGT5830I

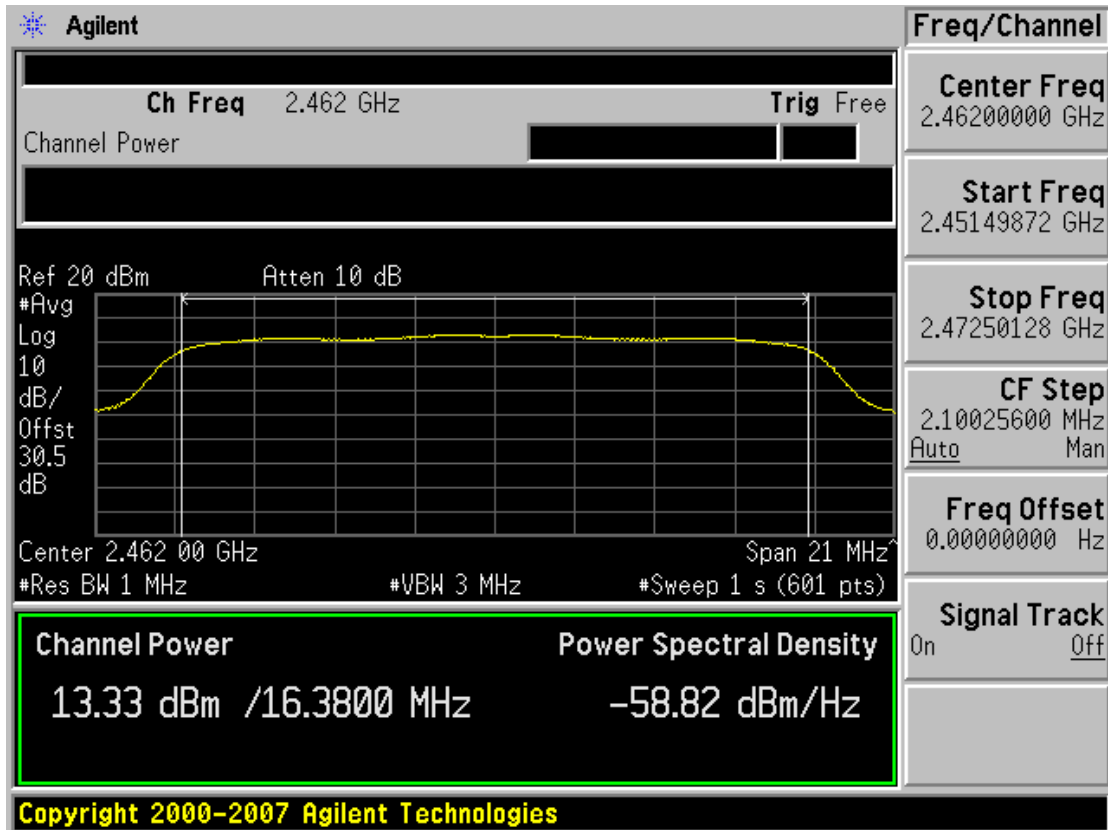
Conducted Output Power (802.11g-CH 11) 6Mbps



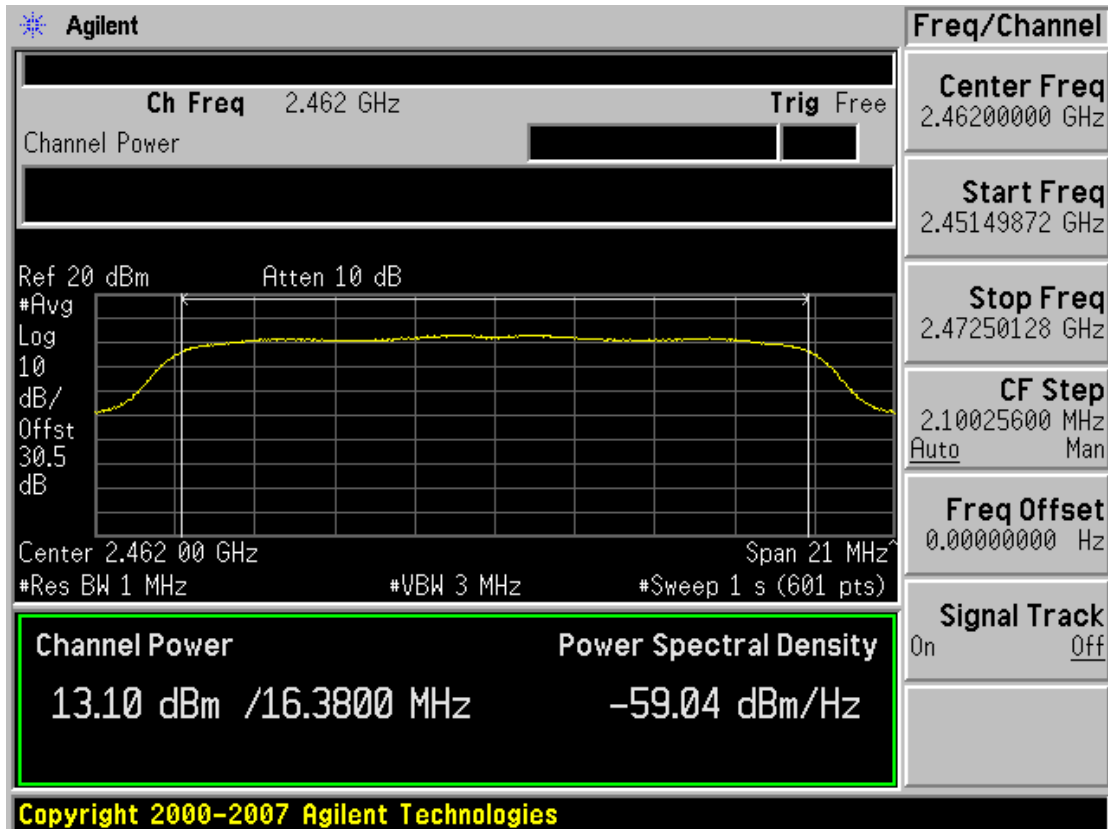
Conducted Output Power (802.11g-CH 11) 9Mbps



Conducted Output Power (802.11g-CH 11) 12Mbps

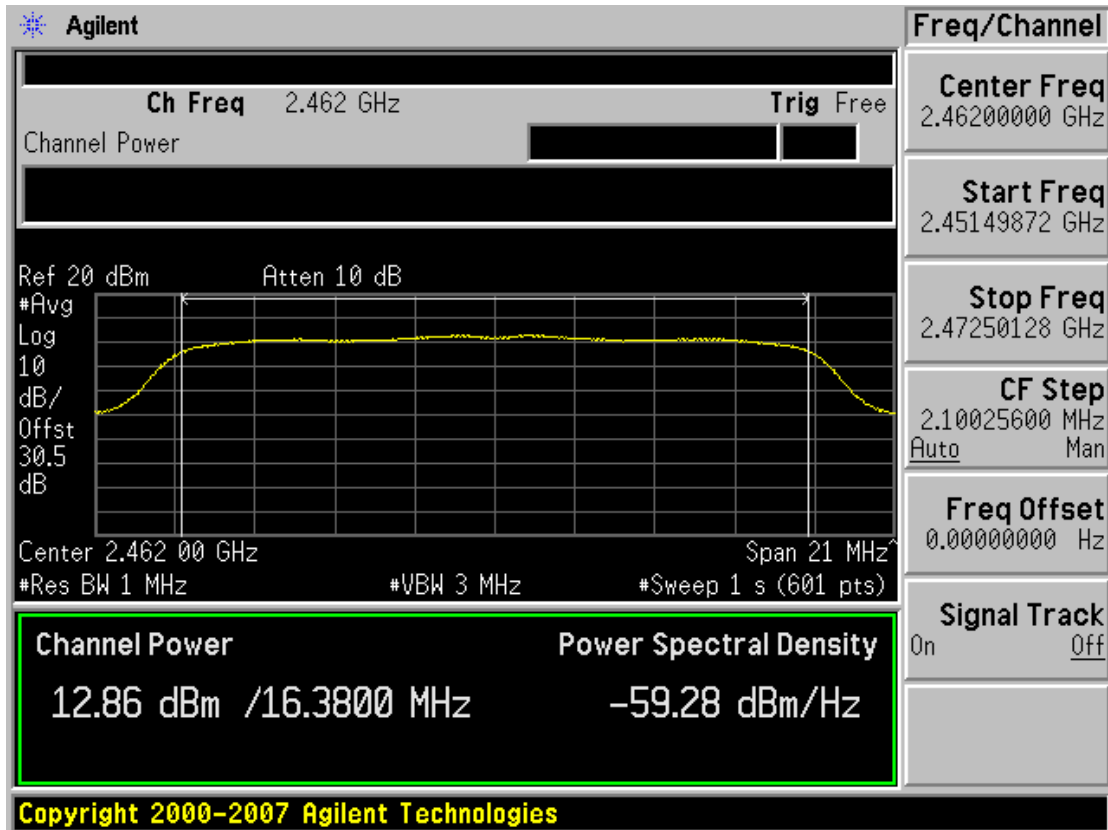


Conducted Output Power (802.11g-CH 11) 18Mbps

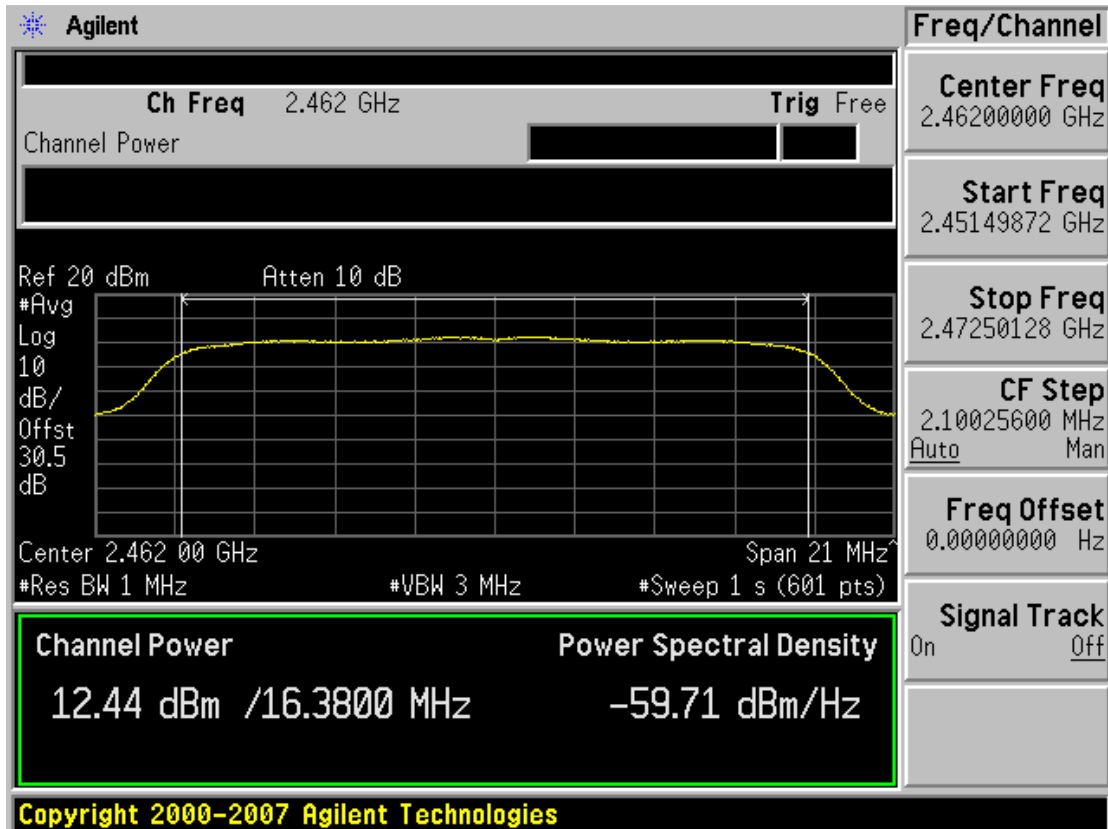


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
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Conducted Output Power (802.11g-CH 11) 24Mbps

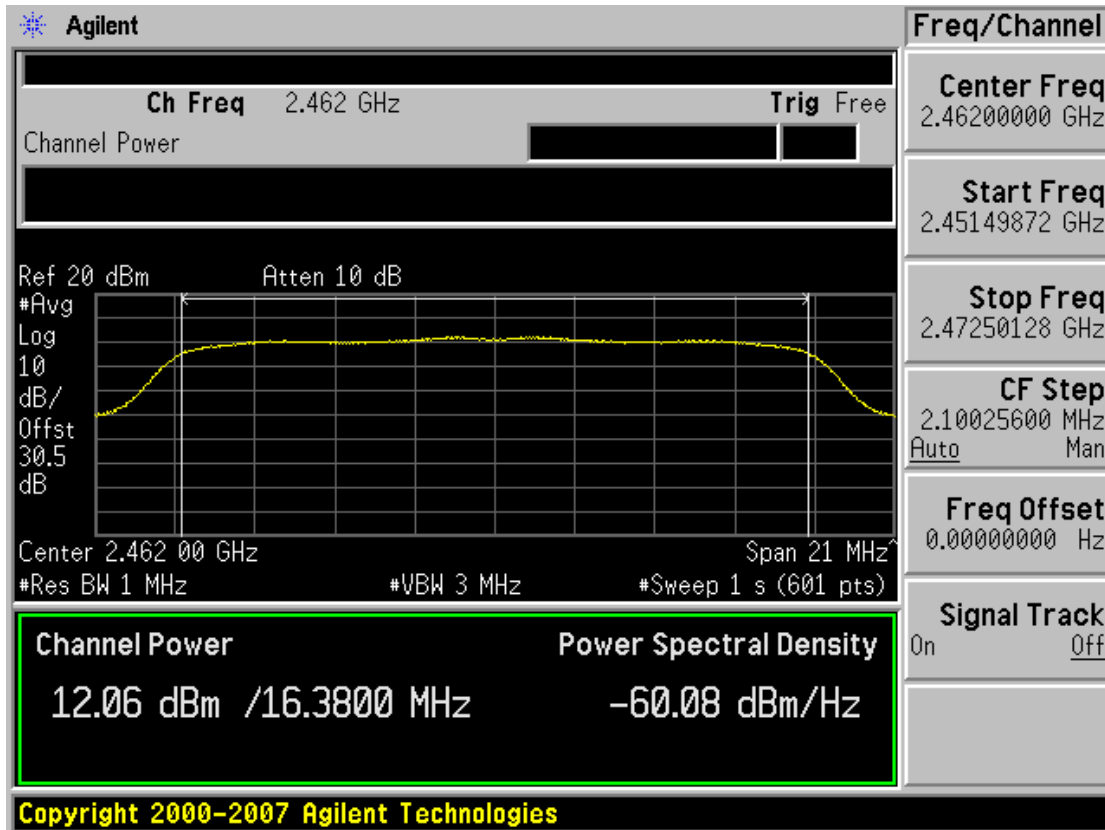


Conducted Output Power (802.11g-CH 11) 36Mbps

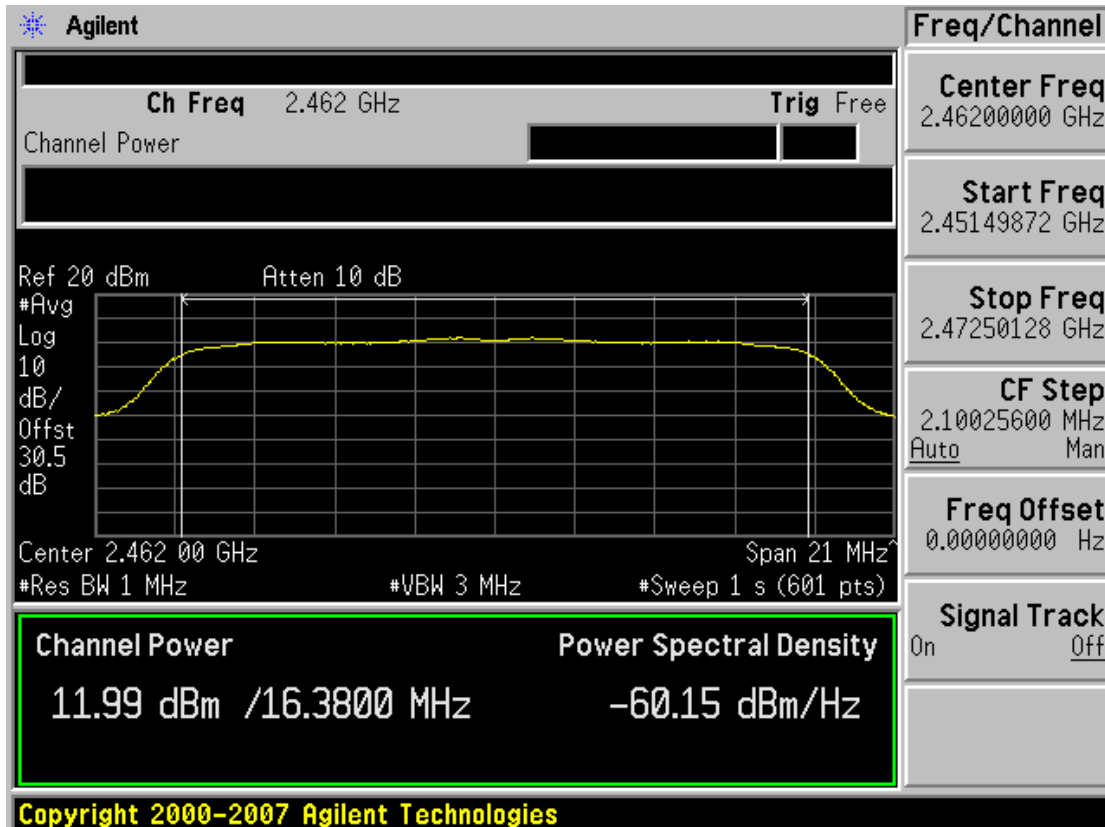


FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
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Conducted Output Power (802.11g-CH 11) 48Mbps

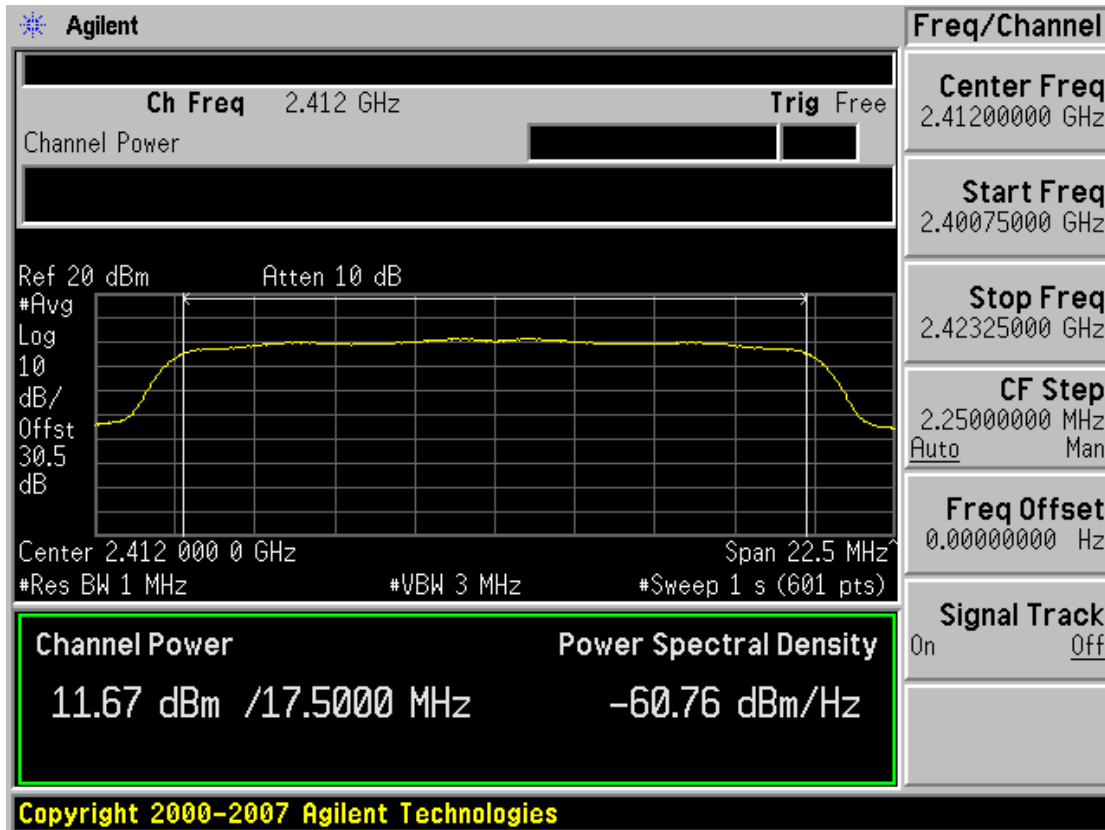


Conducted Output Power (802.11g-CH 11) 54Mbps

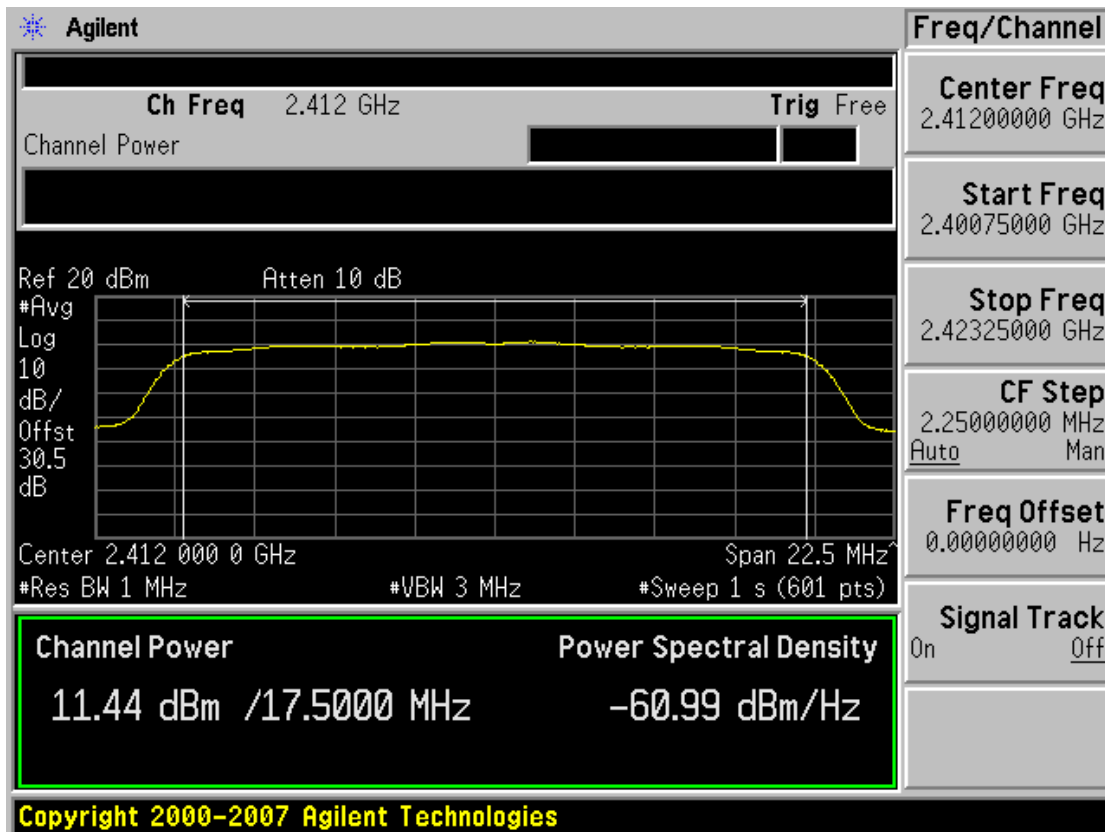


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Conducted Output Power (802.11n-CH 1) 6.5Mbps

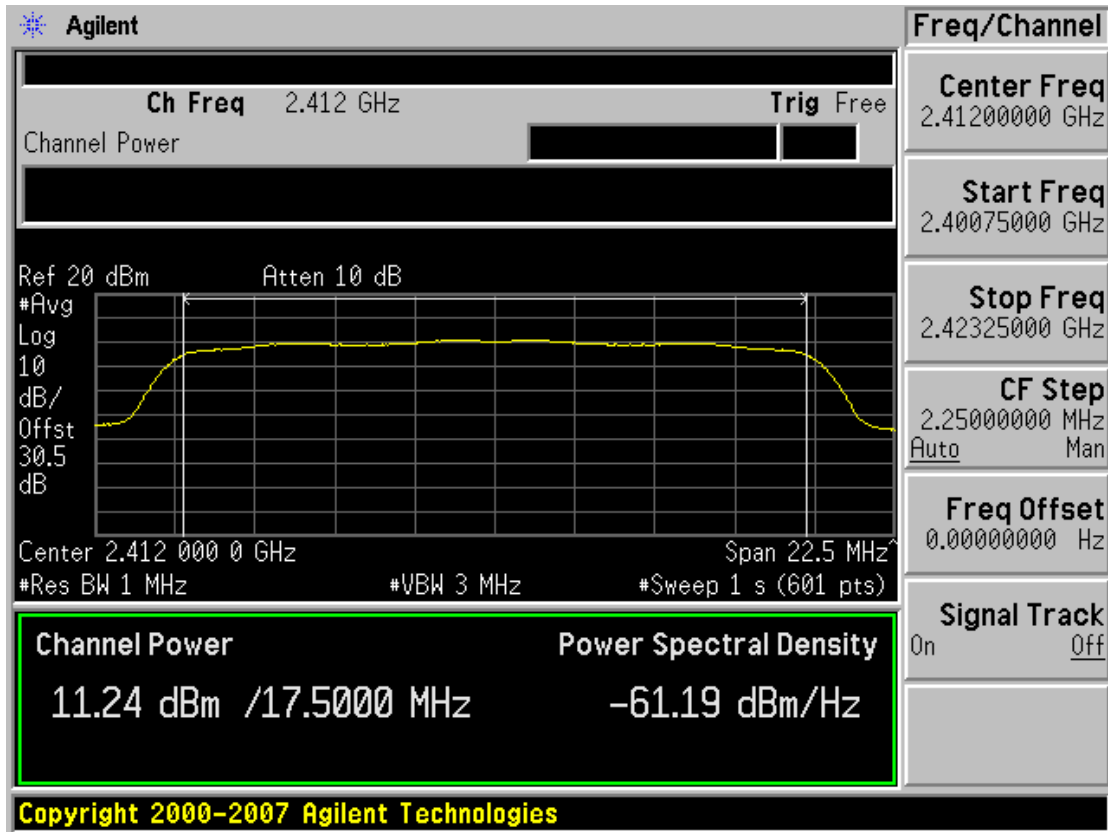


Conducted Output Power (802.11n-CH 1) 13Mbps

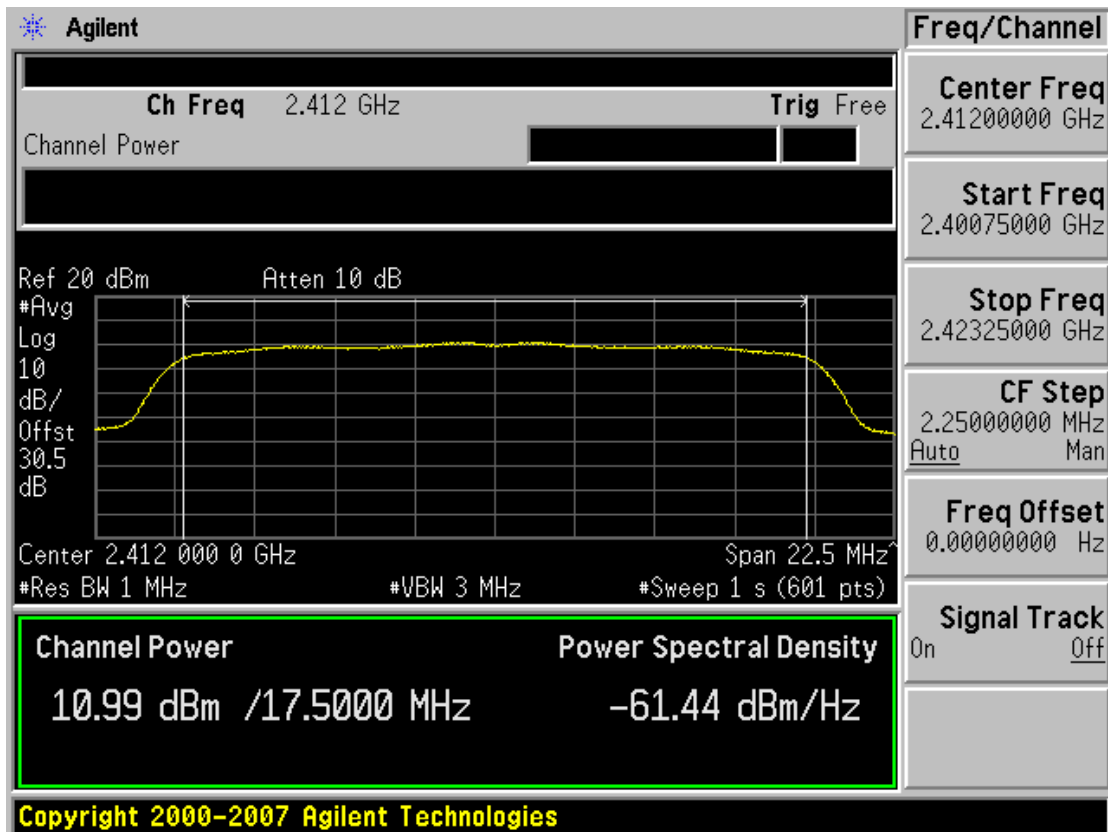


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1110FR12-2	Date of Issue: November 15, 2011	EUT Type: 850/1900 GSM/GPRS Phone with Bluetooth, WLAN and EDGE Rx Only	FCC ID: A3LGT5830I

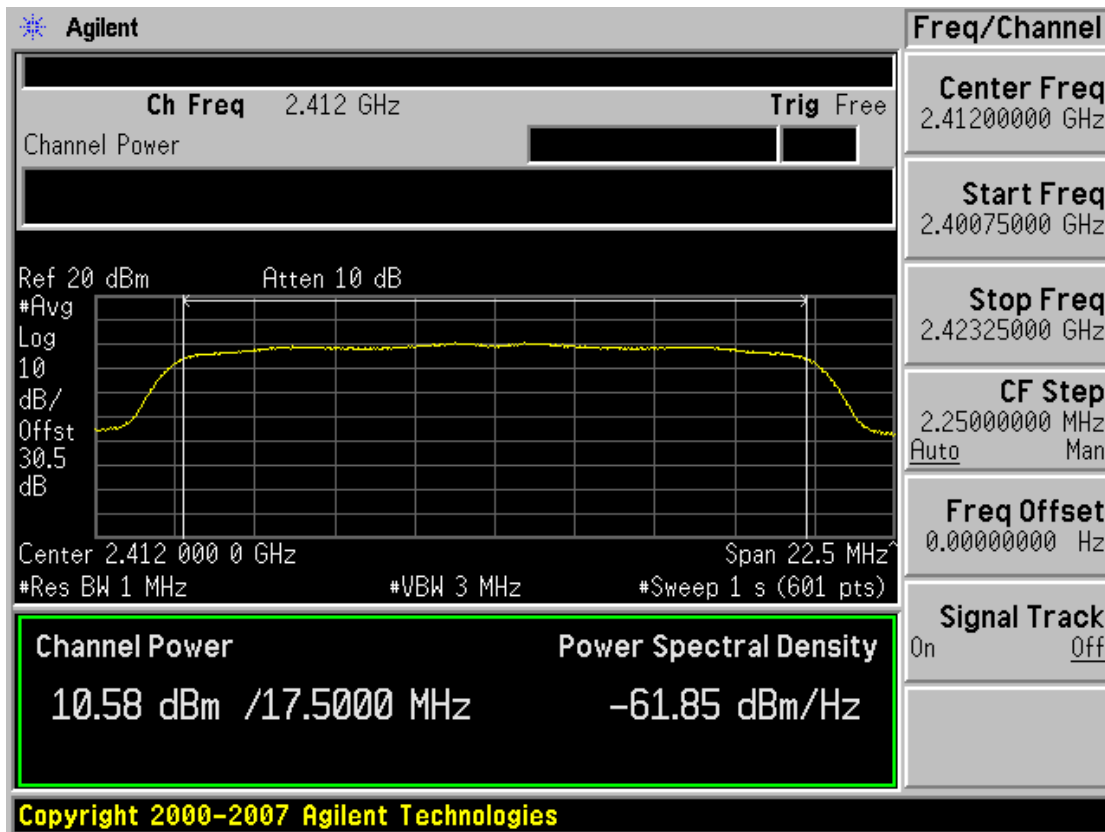
Conducted Output Power (802.11n-CH 1) 19.5Mbps



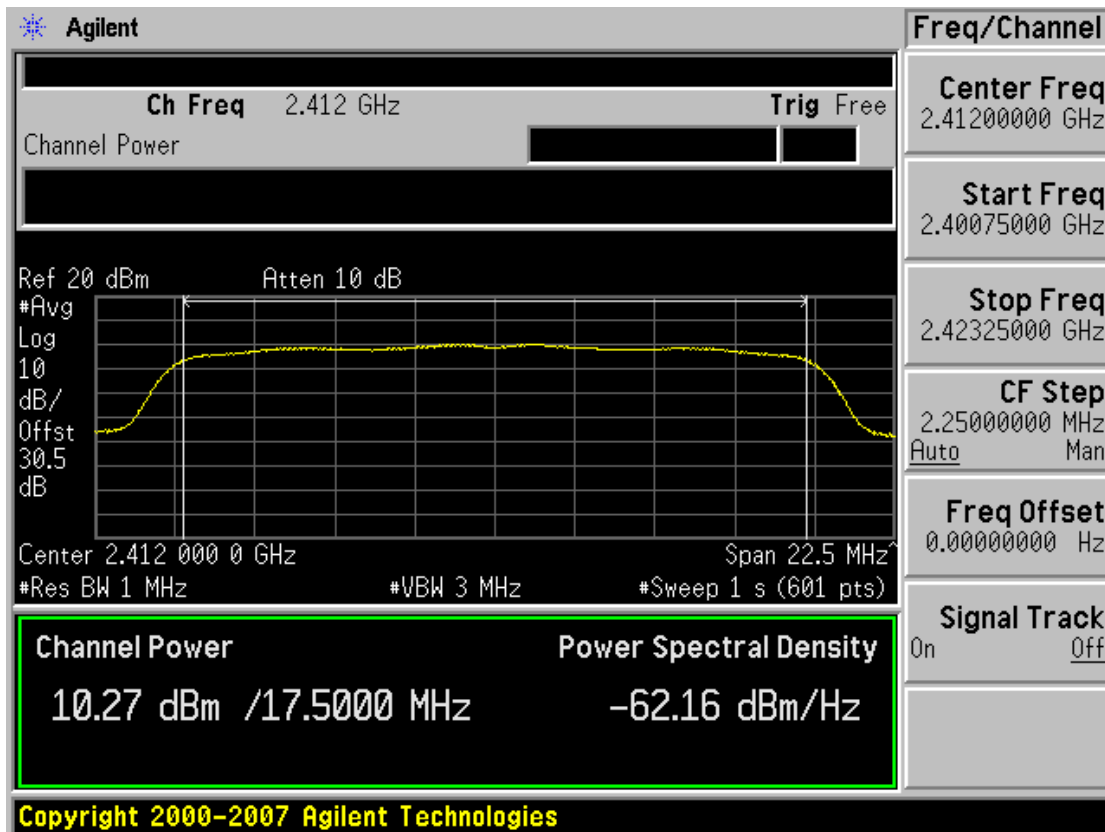
Conducted Output Power (802.11n-CH 1) 26Mbps



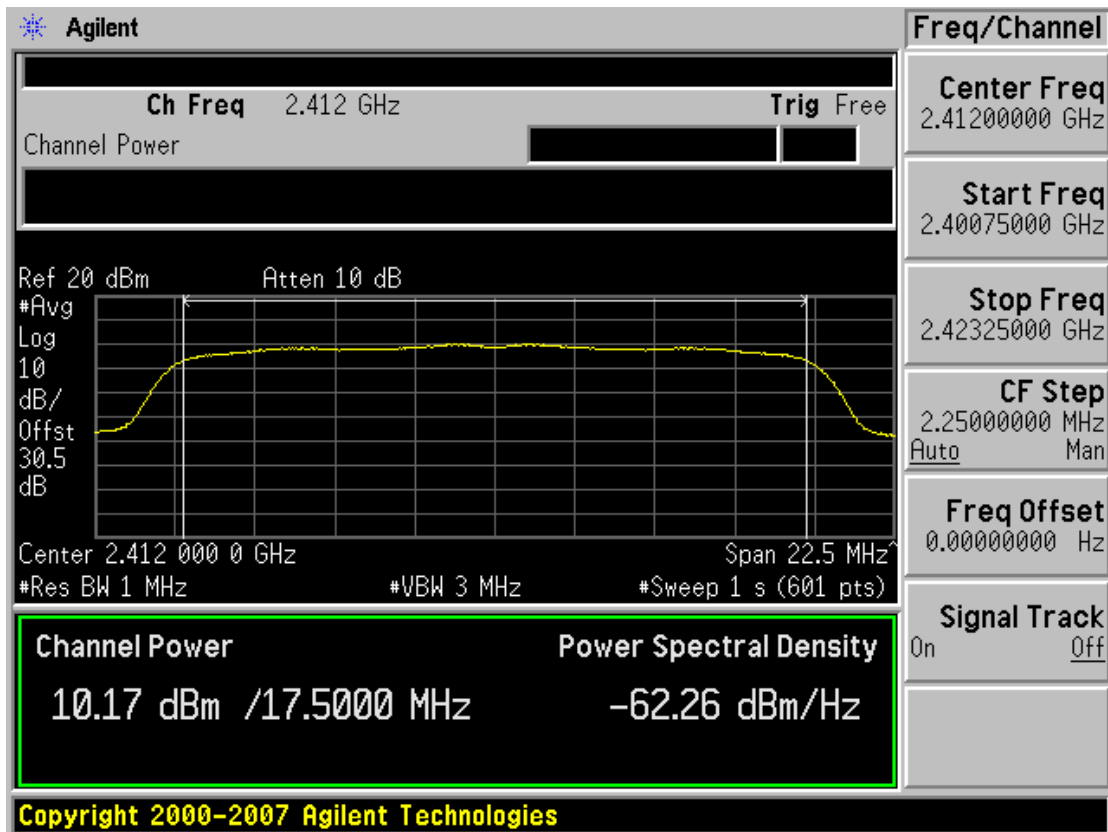
Conducted Output Power (802.11n-CH 1) 39Mbps



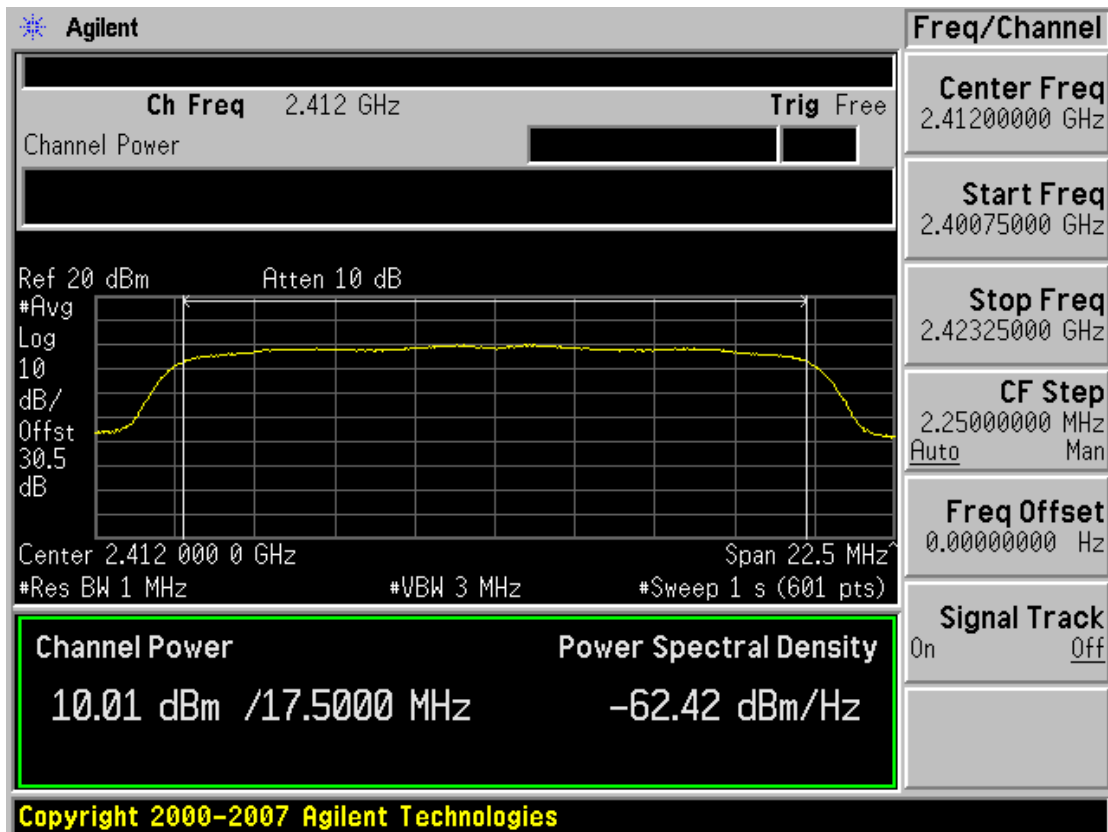
Conducted Output Power (802.11n-CH 1) 52Mbps



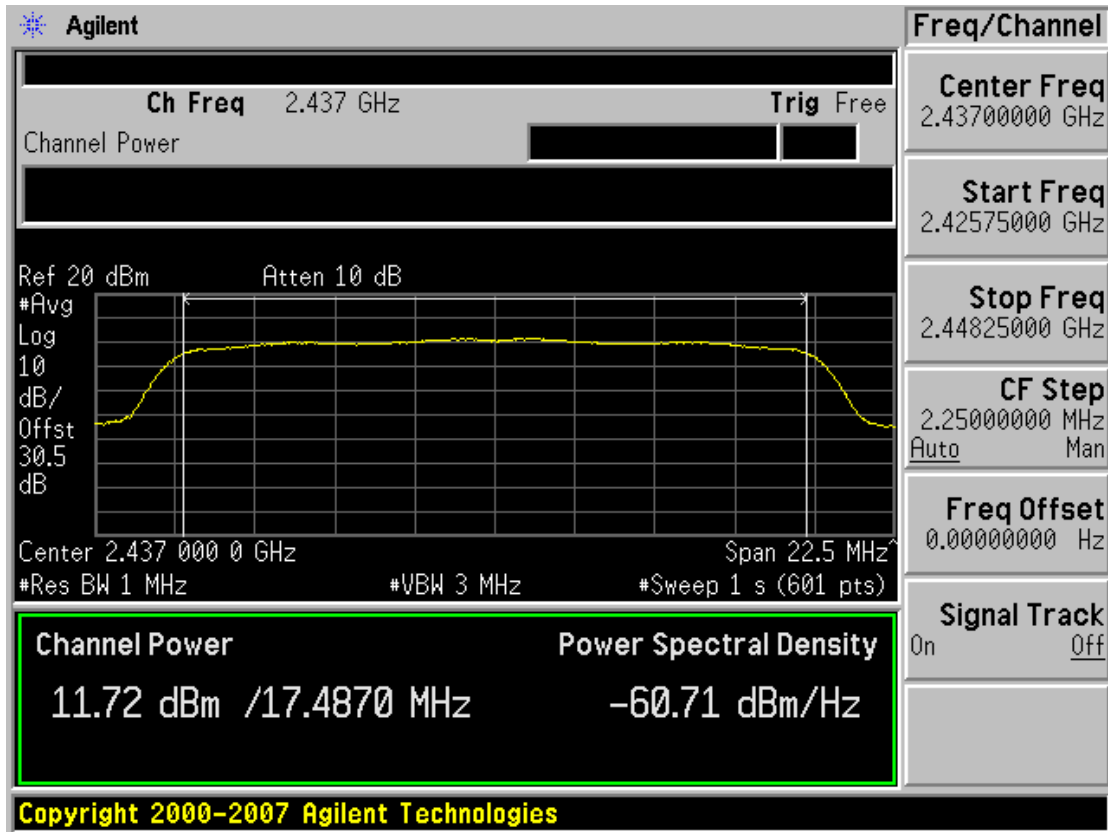
Conducted Output Power (802.11n-CH 1) 58.5Mbps



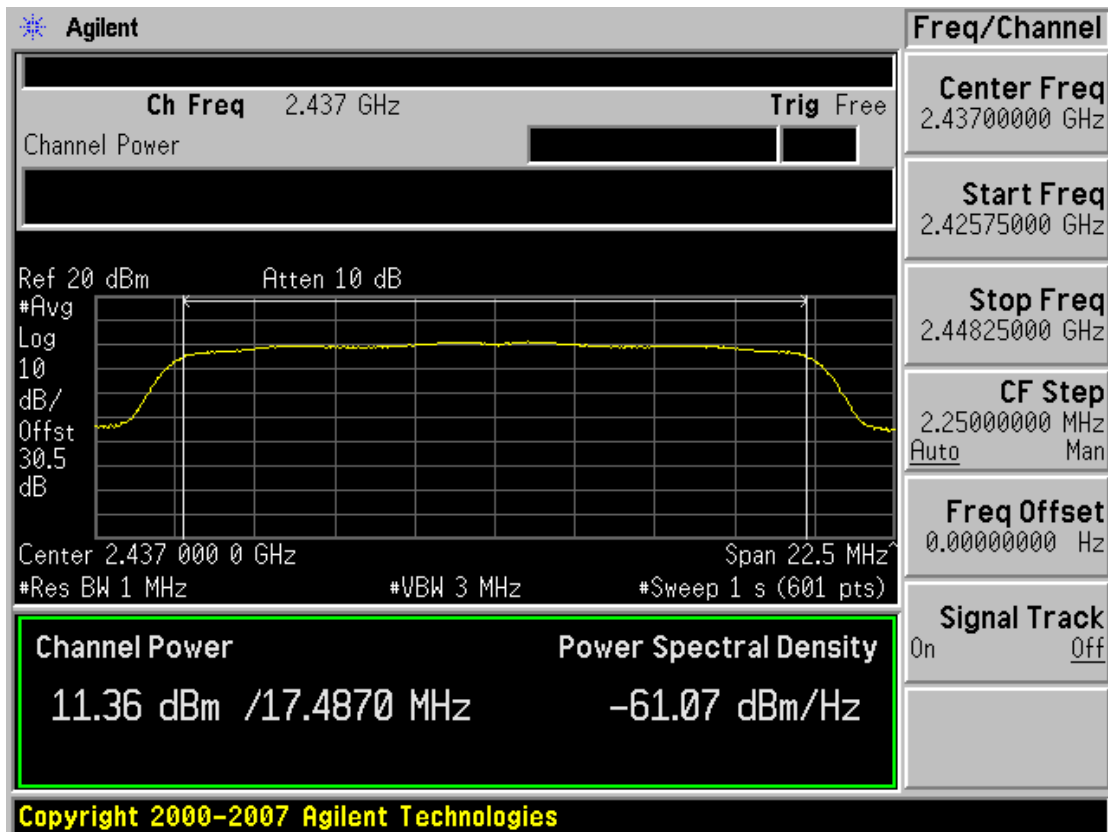
Conducted Output Power (802.11n-CH 1) 65Mbps



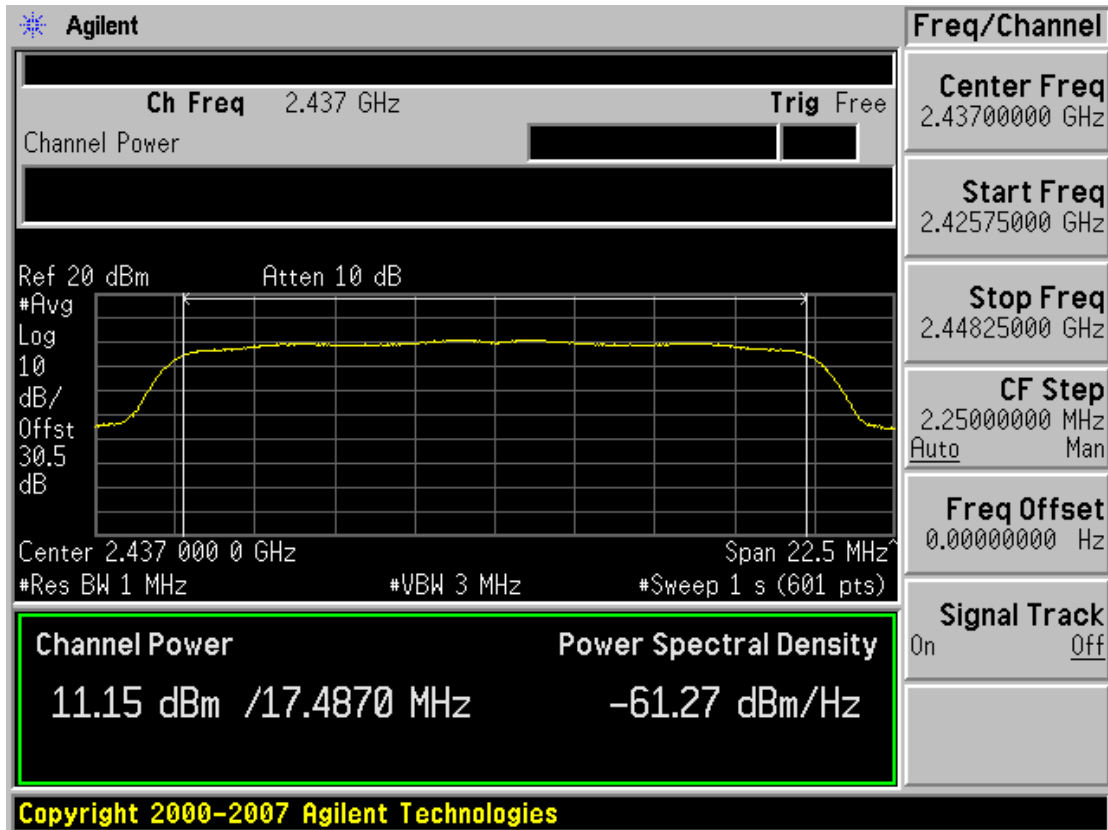
Conducted Output Power (802.11n-CH 6) 6.5Mbps



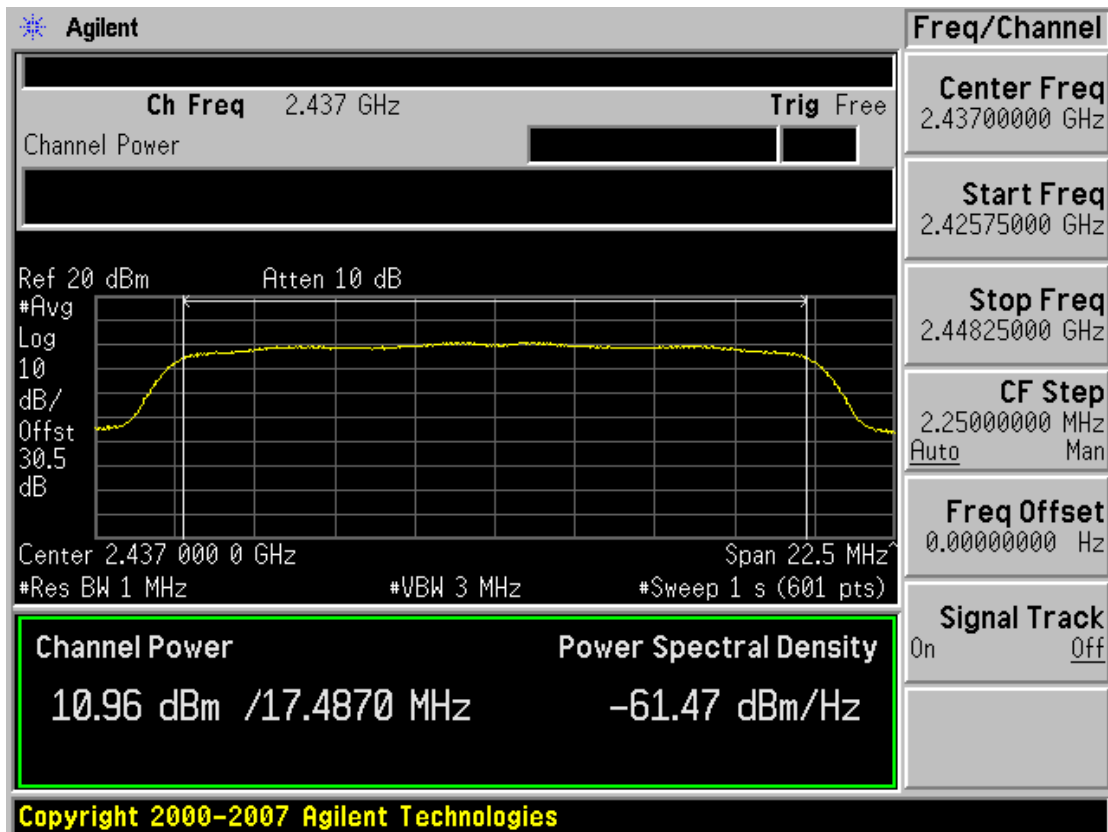
Conducted Output Power (802.11n-CH 6) 13Mbps



Conducted Output Power (802.11n-CH 6) 19.5Mbps

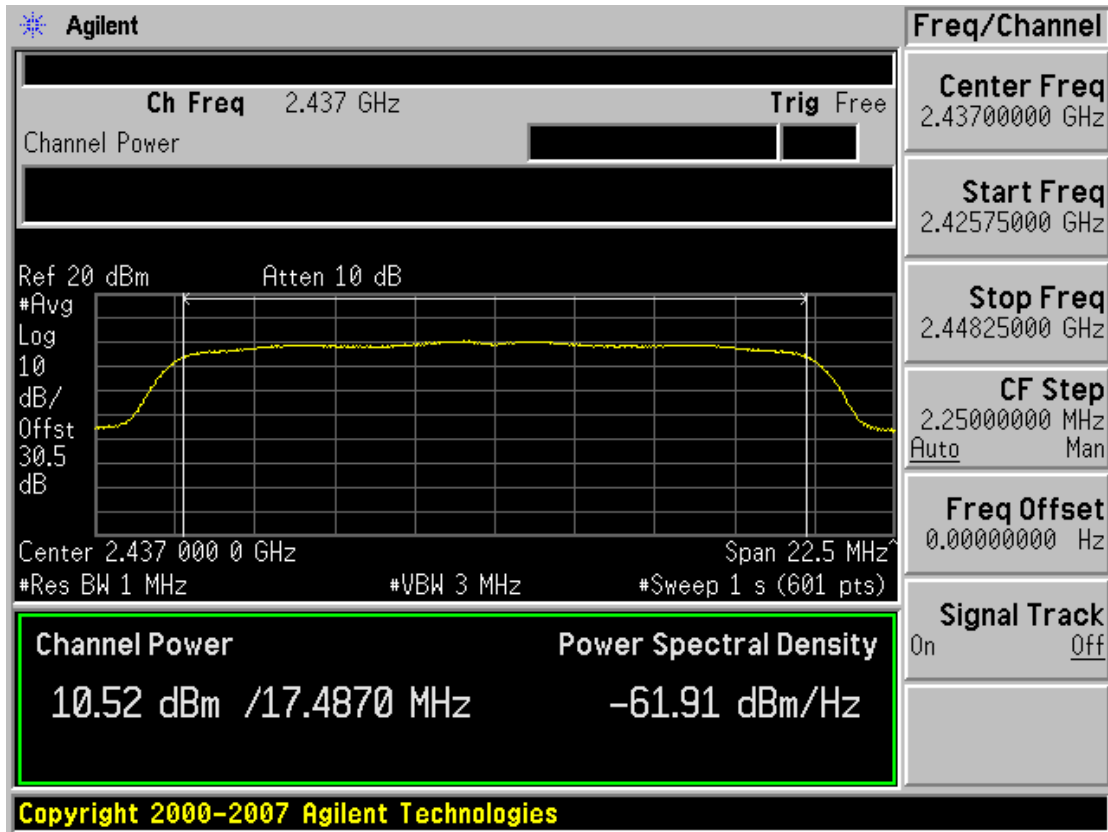


Conducted Output Power (802.11n-CH 6) 26Mbps

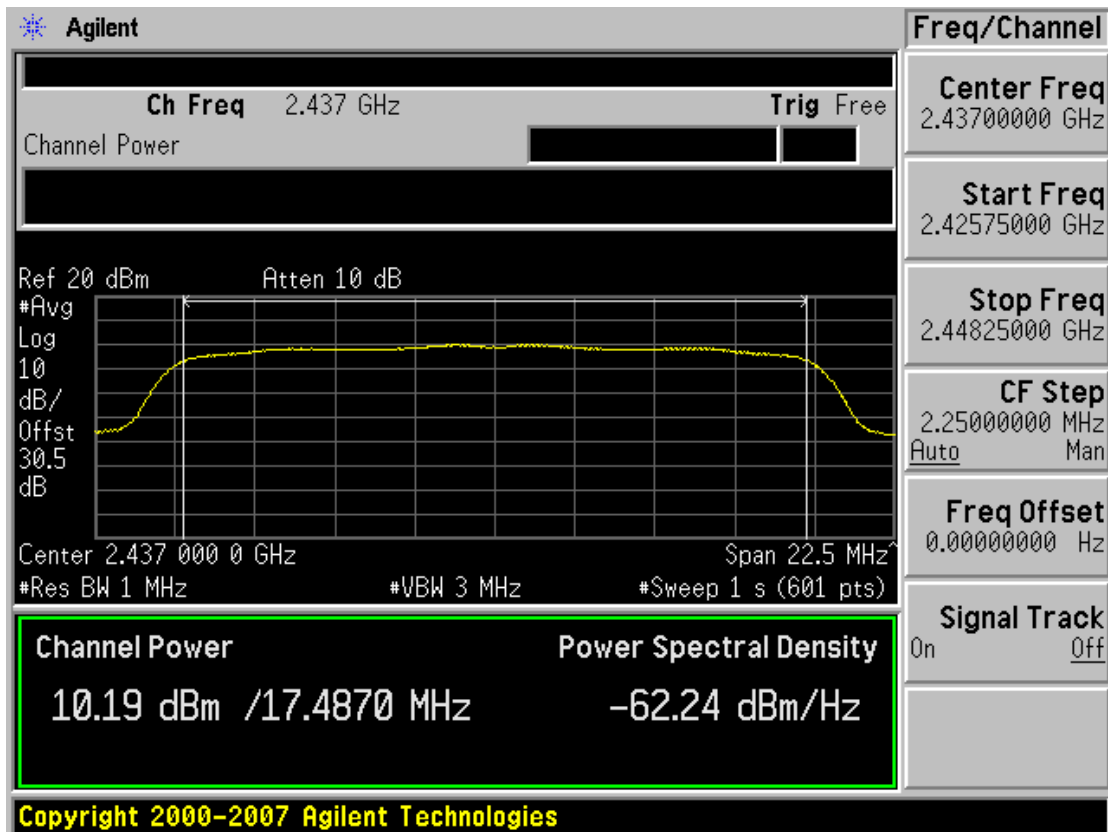


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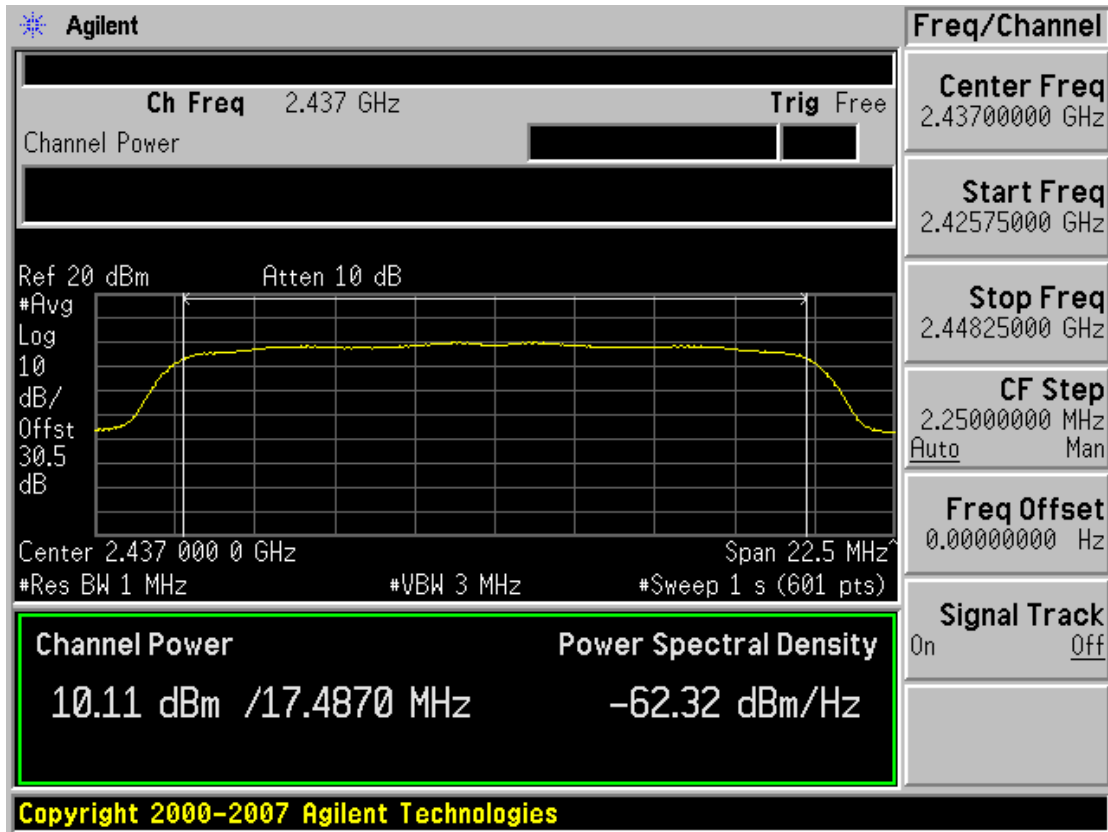
Conducted Output Power (802.11n-CH 6) 39Mbps



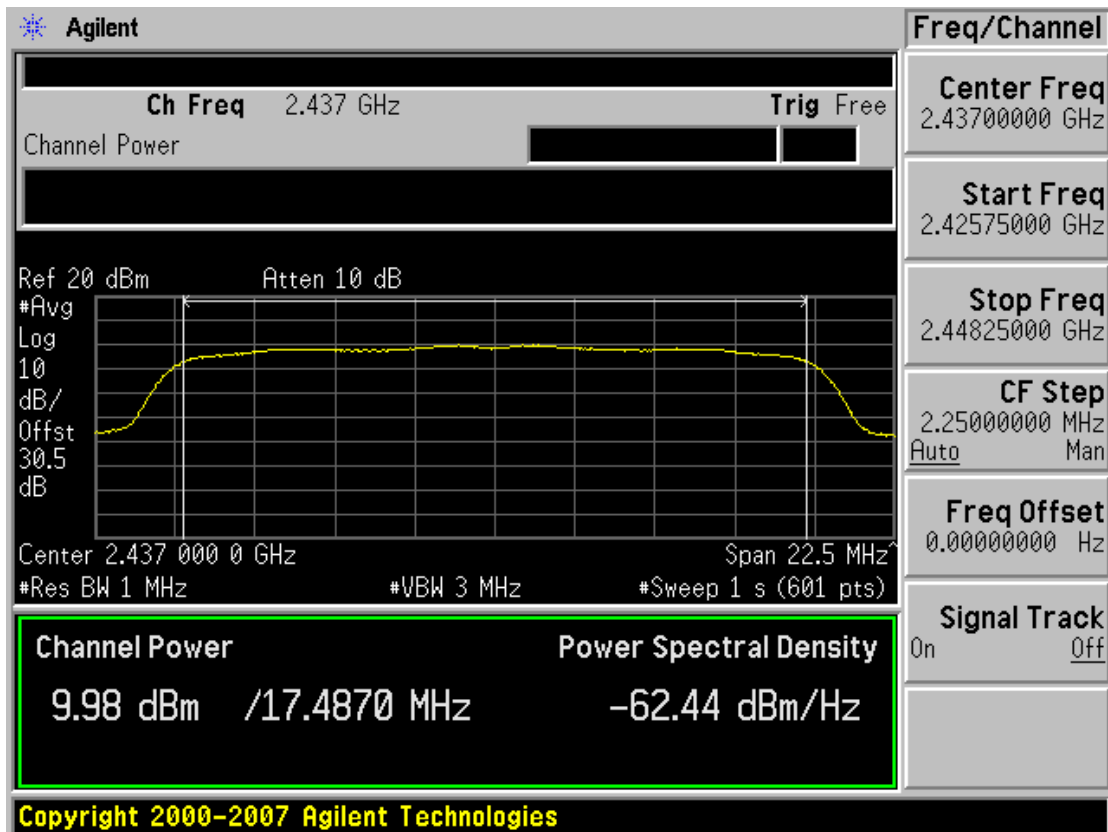
Conducted Output Power (802.11n-CH 6) 52Mbps



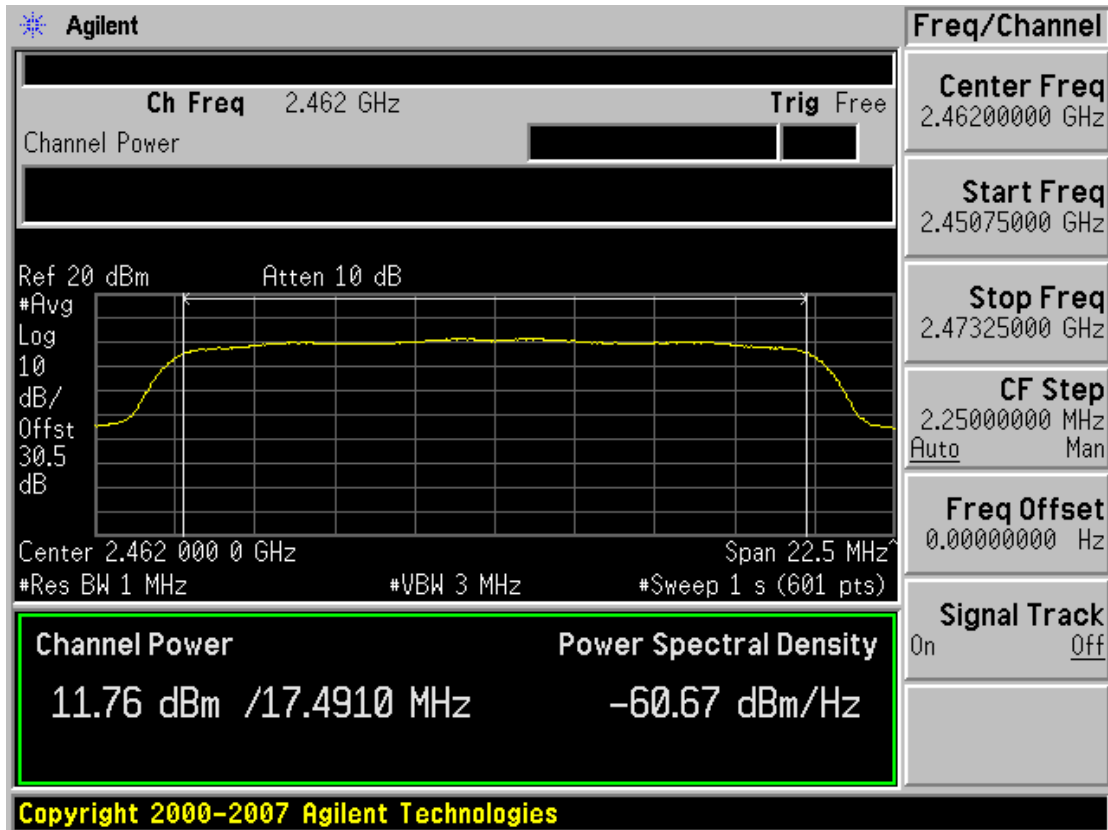
Conducted Output Power (802.11n-CH 6) 58.5Mbps



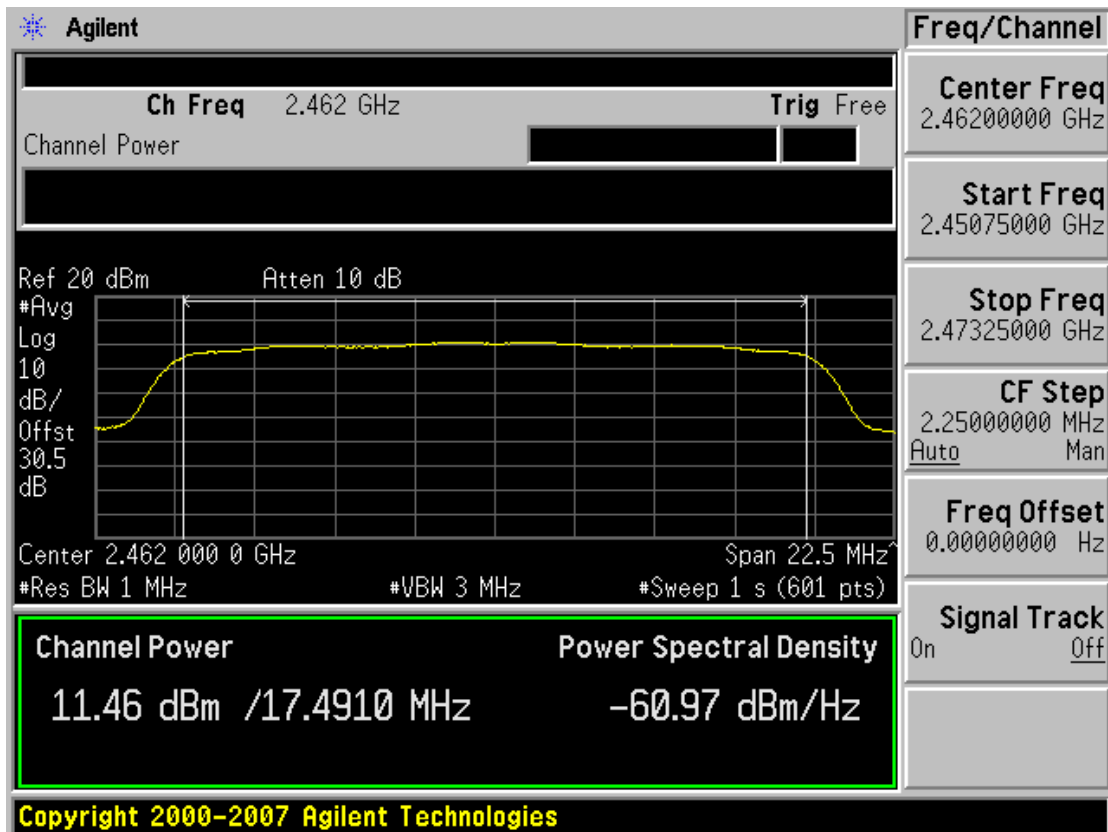
Conducted Output Power (802.11n-CH 6) 65Mbps



Conducted Output Power (802.11n-CH 11) 6.5Mbps

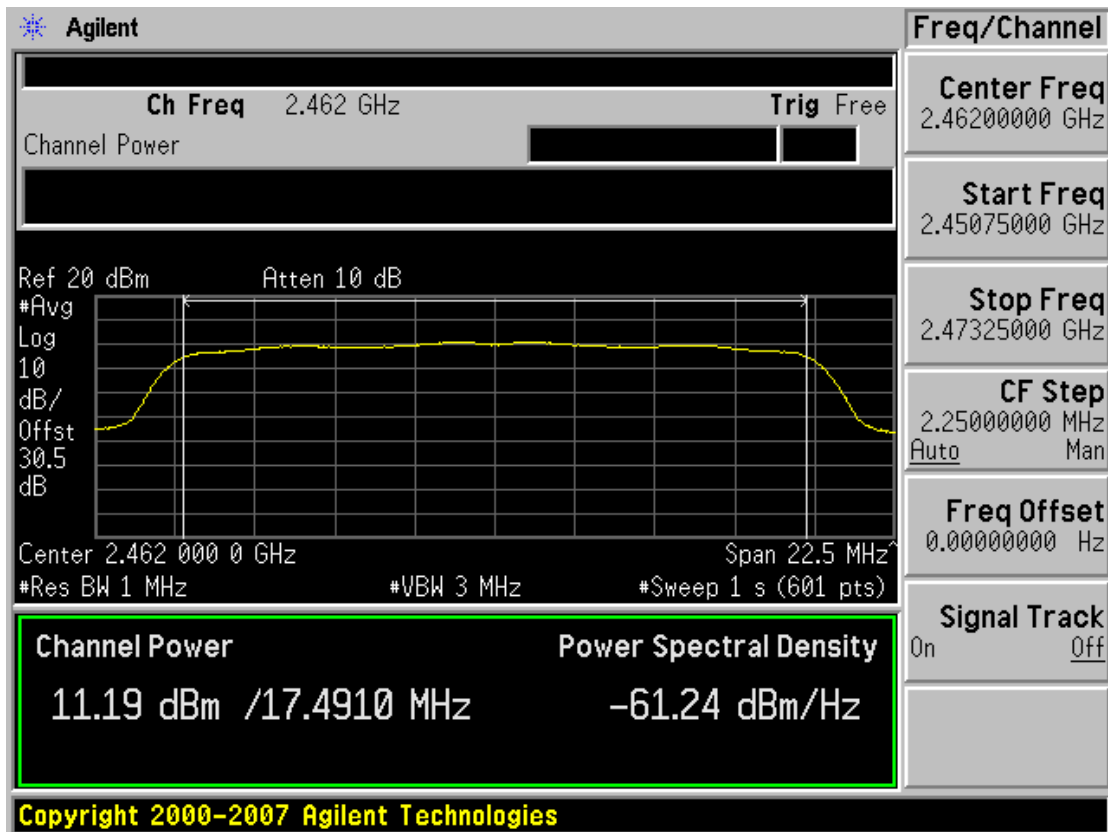


Conducted Output Power (802.11n-CH 11) 13Mbps

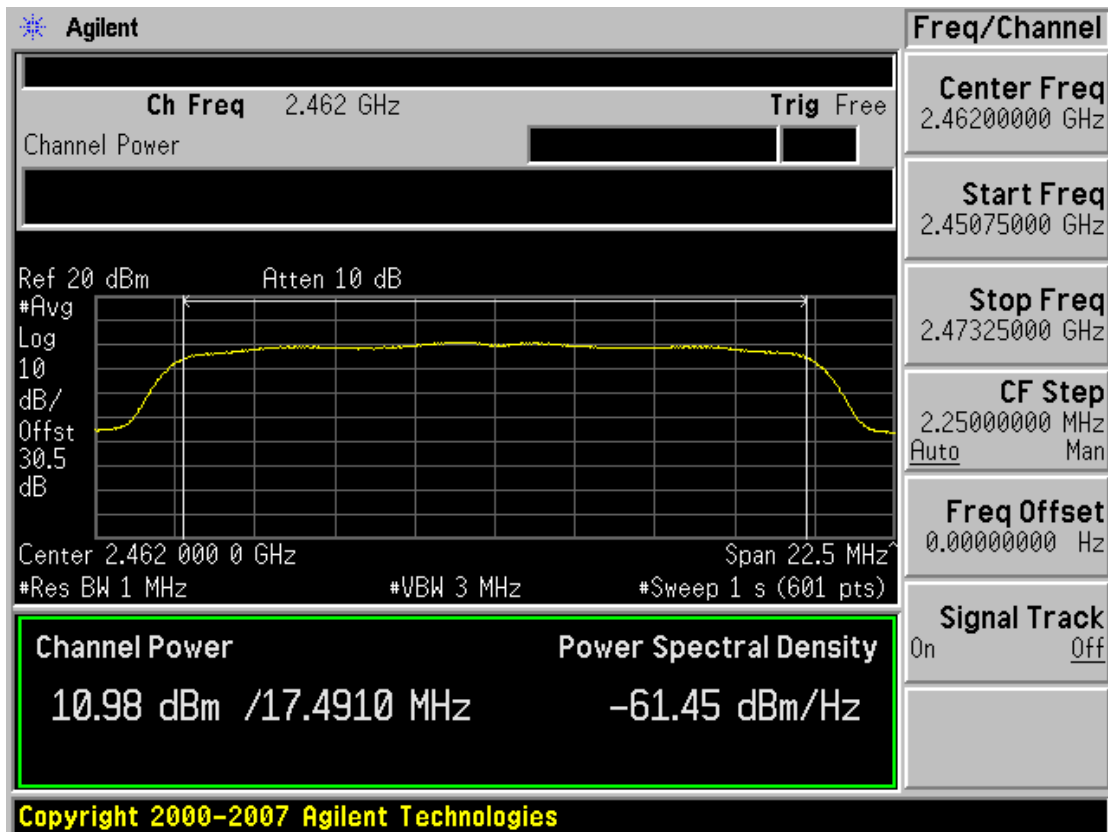


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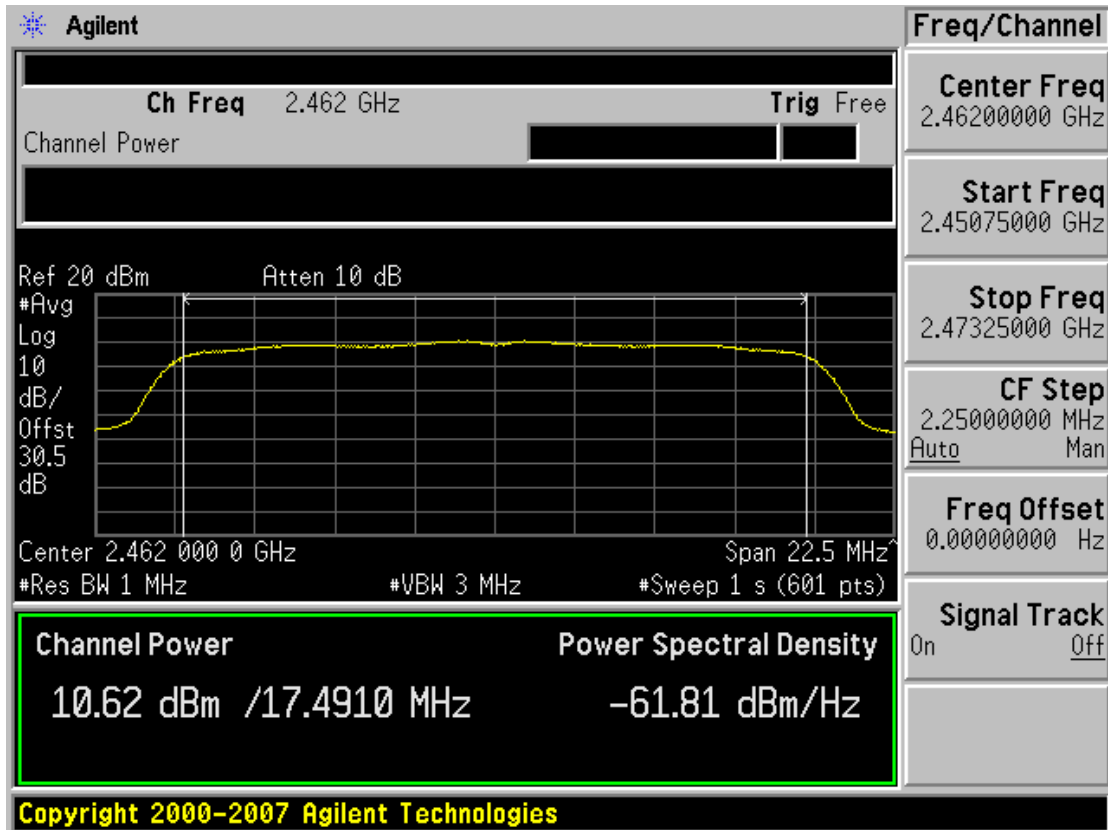
Conducted Output Power (802.11n-CH 11) 19.5Mbps



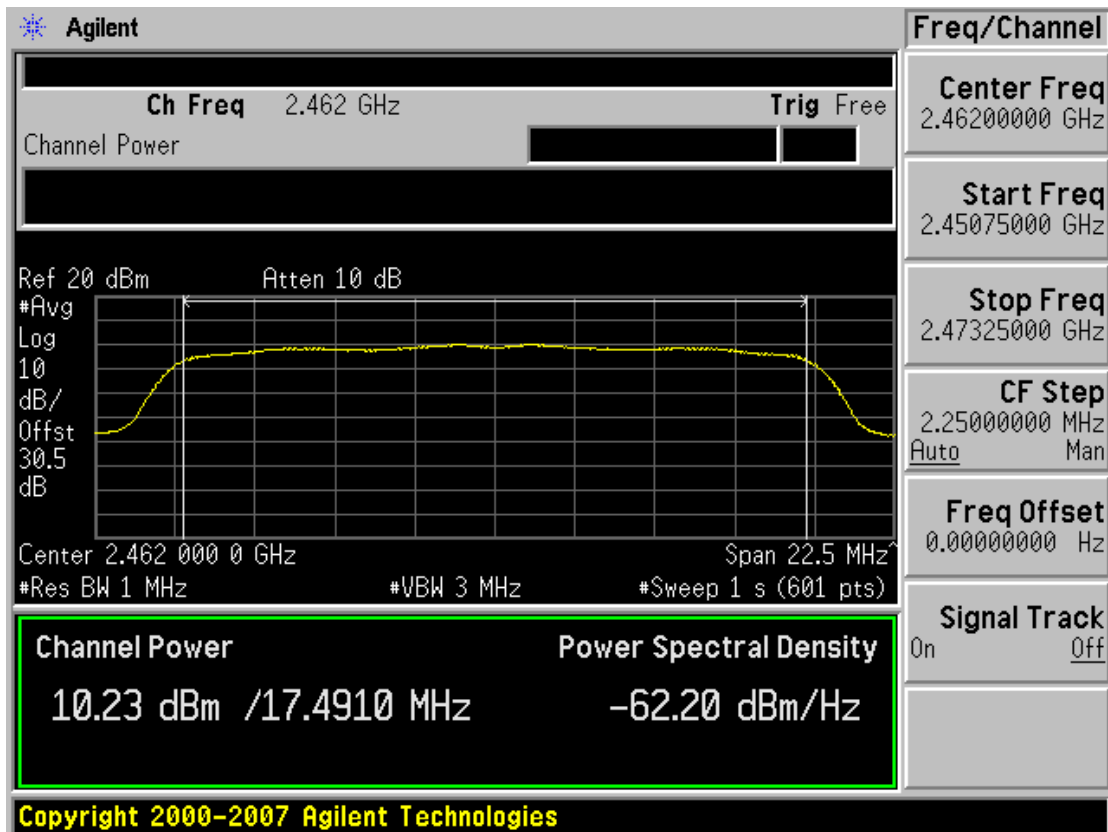
Conducted Output Power (802.11n-CH 11) 26Mbps



Conducted Output Power (802.11n-CH 11) 39Mbps

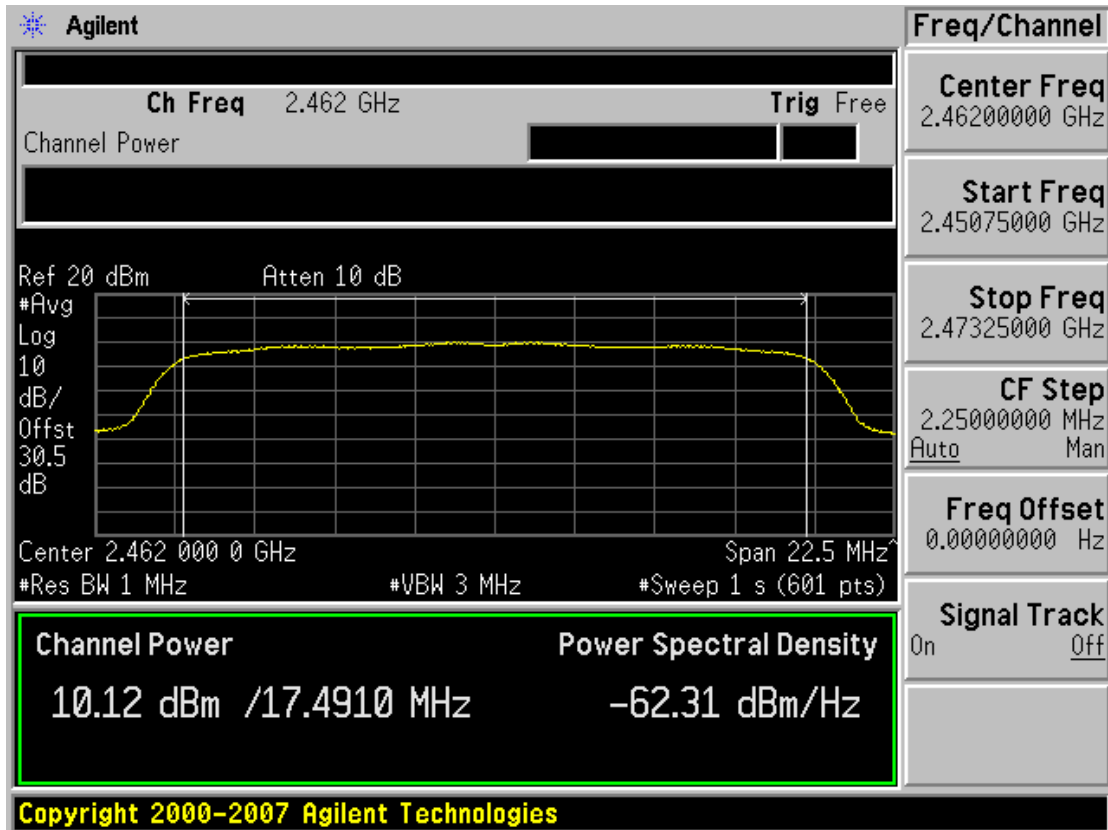


Conducted Output Power (802.11n-CH 11) 52Mbps



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Conducted Output Power (802.11n-CH 11) 58.5Mbps



Conducted Output Power (802.11n-CH 11) 65Mbps

