



HCT CO., LTD.

CERTIFICATE OF COMPLIANCE FCC Certification

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| Applicant Name: Pantech Co., Ltd. | Date of Issue: June 15, 2011 |
| Address: DMC I-2, PANTECH R&D Center Sang Am dong, Mapogu, 121-792, Korea | Test Site/Location: HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon, Icheon- si, Kyunggi-Do, Korea |
| | Report No.: HCTR1106FR21 |
| | HCT FRN: 0005866421 |

| | |
|-------------------|--------------------------|
| FCC ID: | JYCAPACHE |
| APPLICANT: | Pantech Co., Ltd. |

| | |
|------------------------------|--|
| FCC Model(s): | ADR8995 |
| EUT Type: | CDMA/LTE Phone with Bluetooth & WLAN |
| Max. RF Output Power: | 802.11b(22.80 dBm) / 802.11g (21.71 dBm) / 802.11n (19.83 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)

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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| FCC PT.15.247 TEST REPORT | FCC CERTIFICATION REPORT | | www.hct.co.kr |
| Test Report No. HCTR1106FR21 | Date of Issue: June 15, 2011 | EUT Type: CDMA/LTE Phone with Bluetooth & WLAN | FCC ID: JYCAPACHE |

Version

| TEST REPORT NO. | DATE | DESCRIPTION |
|-----------------|---------------|-------------------------|
| HCTR1106FR21 | June 15, 2011 | - First Approval Report |
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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)..... 4 9
 - 7.4 OUT OF BAND EMISSIONS AT THE BAND EDGE/ CONDUCTED SPURIOUS EMISSIONS ... 5 5
 - 7.5 RADIATED MEASUREMENT..... 6 9
 - 7.5.1 RADIATED SPURIOUS EMISSIONS..... 6 9
 - 7.5.2 RADIATED RESTRICTED BAND EDGE MEASUREMENTS 7 7
 - 7.6 POWERLINE CONDUCTED EMISSIONS 7 8
- 8. LIST OF TEST EQUIPMENT 8 3

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|---------------------------------|---------------------------------|---|--|
| FCC PT.15.247 TEST REPORT | FCC CERTIFICATION REPORT | | www.hct.co.kr |
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1. GENERAL INFORMATION

Applicant: Pantech Co., Ltd.
Address: DMC I-2, PANTECH R&D Center Sang Am dong, Mapogu, 121-792, Korea
FCC ID: JYCAPACHE
EUT Type: CDMA/LTE Phone with Bluetooth & WLAN
Model Name: ADR8995
Date(s) of Tests: May 30, 2011 ~ June 14, 2011
Contact person: Name: Seok Jin Hong
 Phone #: +82-2-2030-1320
 Fax #: +82-2-2030-2519
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 | CDMA/LTE Phone with Bluetooth & WLAN |
| Model Name | ADR8995 |
| 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: | 802.11b(22.80 dBm) / 802.11g (21.71 dBm)) / 802.11n (19.83 dBm) |
| Modulation Type | DSSS/CCK(802.11b), OFDM(802.11g, 802.11n) |
| Antenna Specification | Manufacturer: Dongnam Co., Ltd Antenna type: FPCB Antenna Peak Gain : -3.47 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.

7

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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| Test Report No. HCTR1106FR21 | Date of Issue: June 15, 2011 | EUT Type: CDMA/LTE Phone with Bluetooth & WLAN | | FCC ID: JYCAPACHE |

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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|--|--|--|--|
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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. TEST RESULT

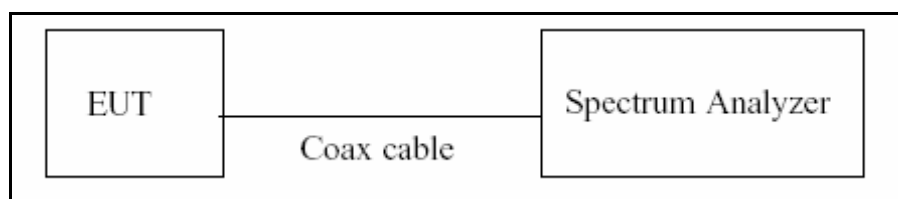
7.1 6dB BANDWIDTH MEASUREMENT (802.11b/g/n)

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 | 7.131 | 0.500 | Pass |
| 2437 | 6 | 6.959 | 0.500 | Pass |
| 2462 | 11 | 7.703 | 0.500 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11g

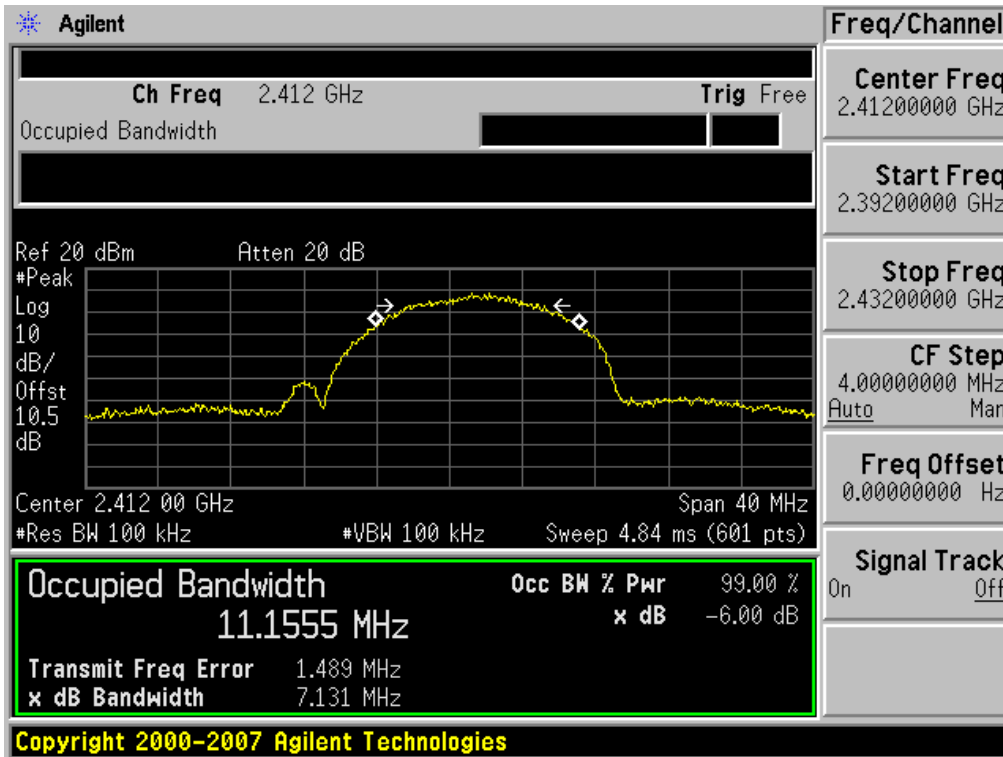
| 802.11g Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 2412 | 1 | 15.699 | 0.500 | Pass |
| 2437 | 6 | 15.415 | 0.500 | Pass |
| 2462 | 11 | 15.443 | 0.500 | Pass |

Conducted 6dB Bandwidth Measurements for 802.11n

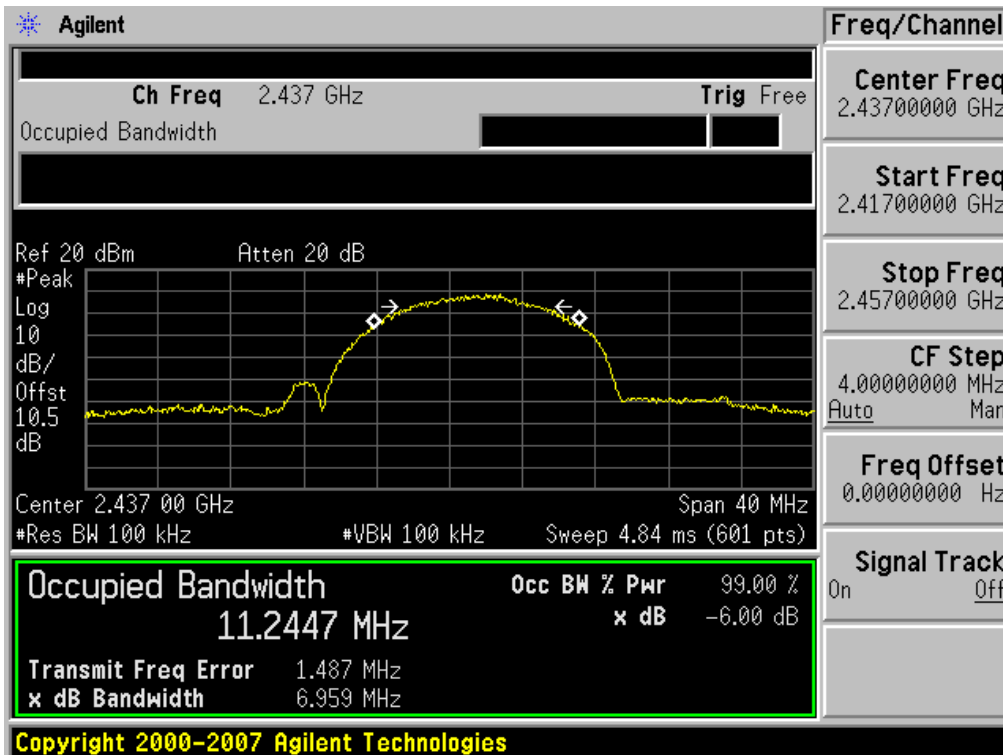
| 802.11n Mode | | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|----------------|-----------------------------|----------------------------|-------------|
| Frequency [MHz] | Channel No. | | | |
| 2412 | 1 | 16.110 | 0.500 | Pass |
| 2437 | 6 | 15.722 | 0.500 | Pass |
| 2462 | 11 | 15.700 | 0.500 | Pass |

RESULT PLOTS

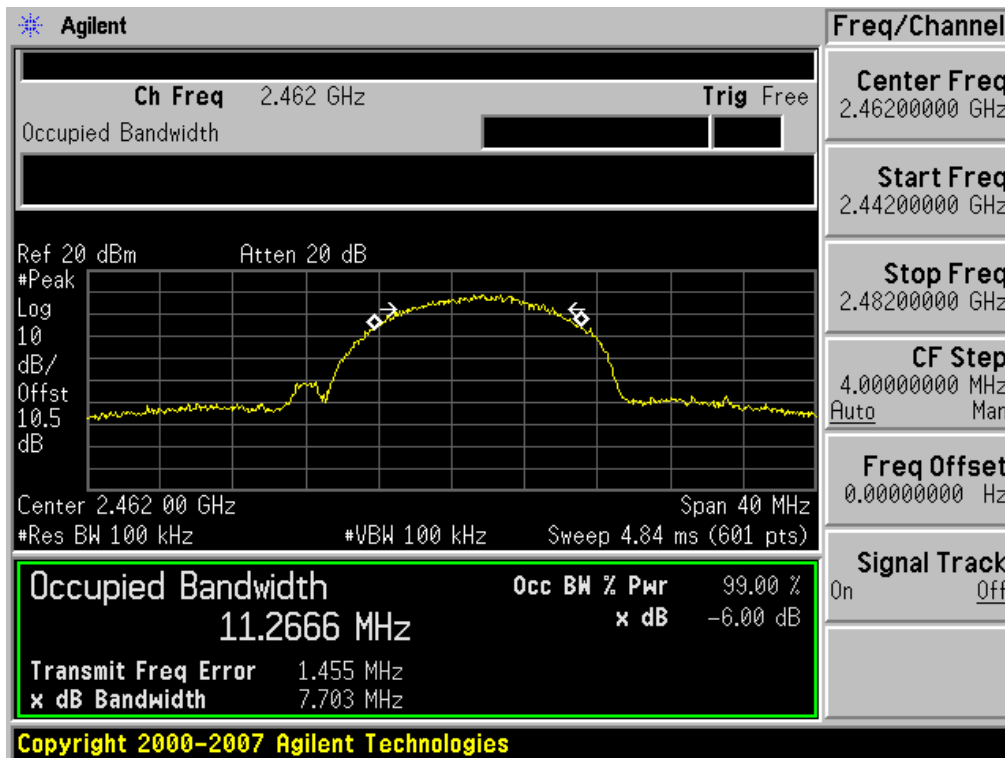
6dB Bandwidth plot (802.11b-CH 1)



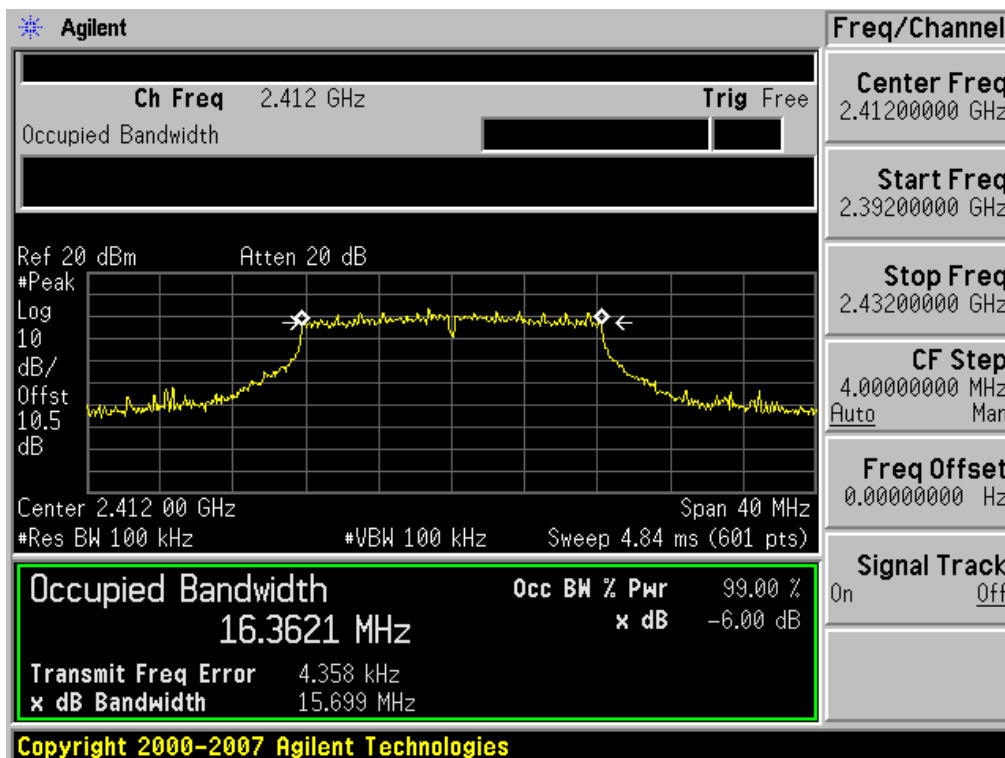
6dB Bandwidth plot (802.11b-CH 6)



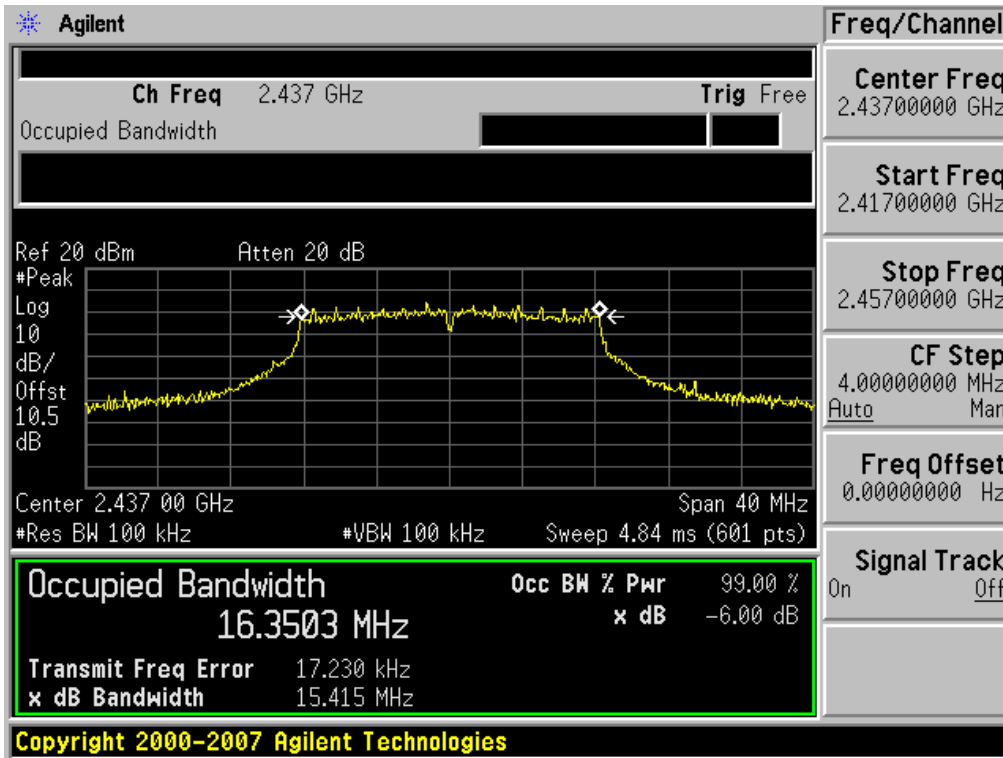
6dB Bandwidth plot (802.11b-CH 11)



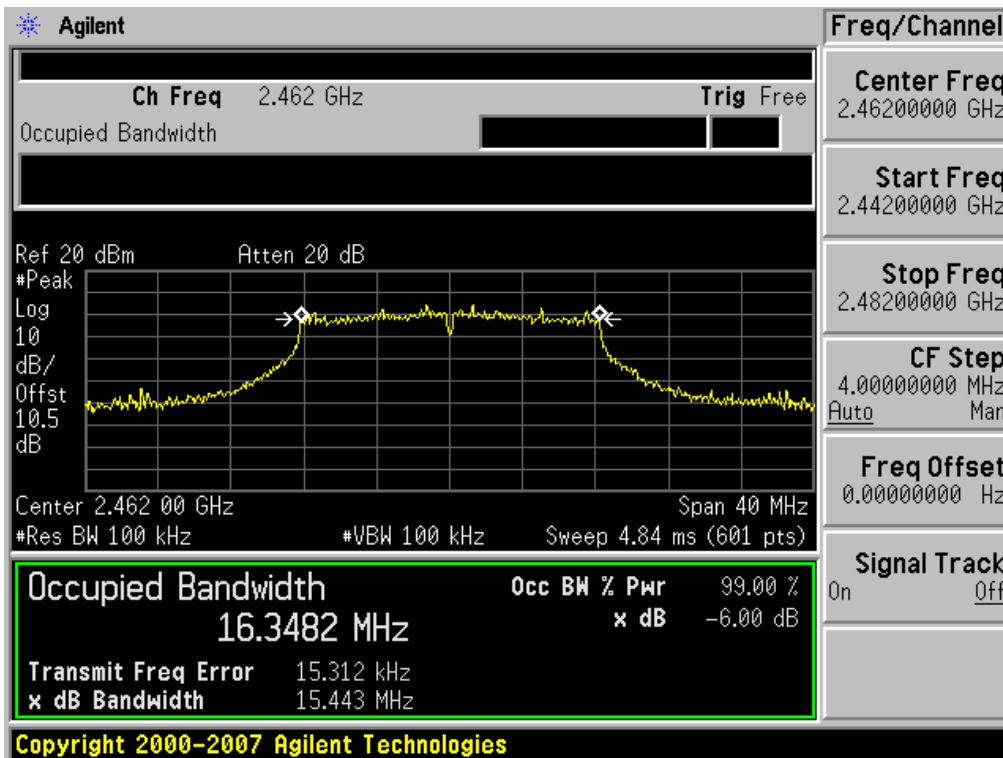
6dB Bandwidth plot (802.11g-CH 1)



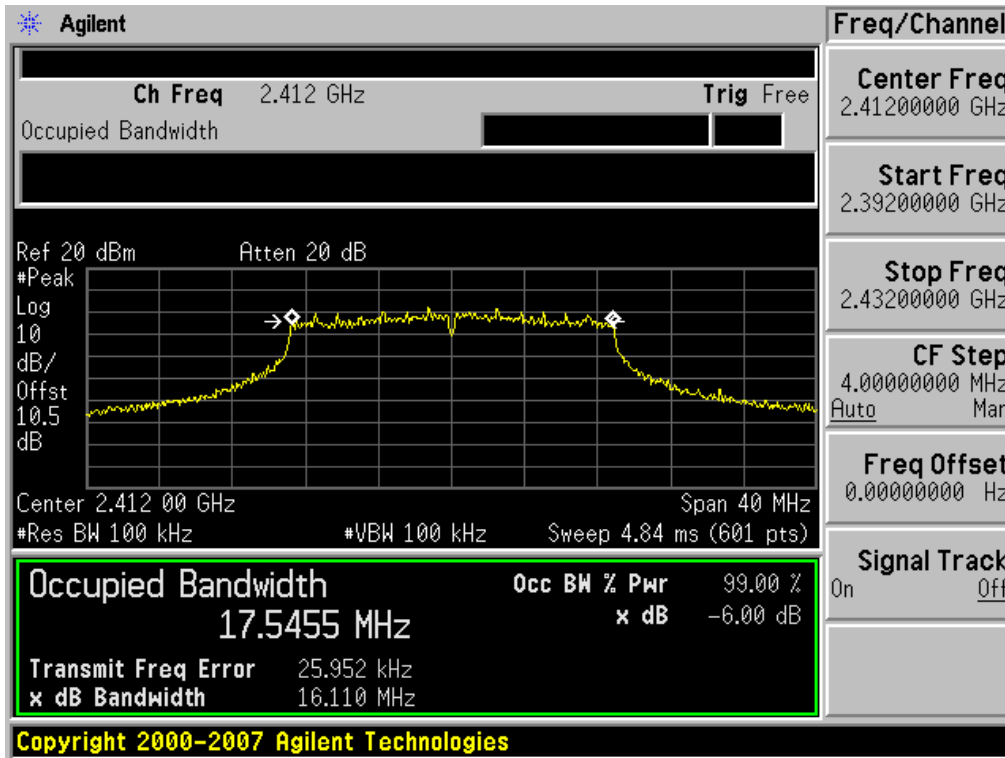
6dB Bandwidth plot (802.11g-CH 6)



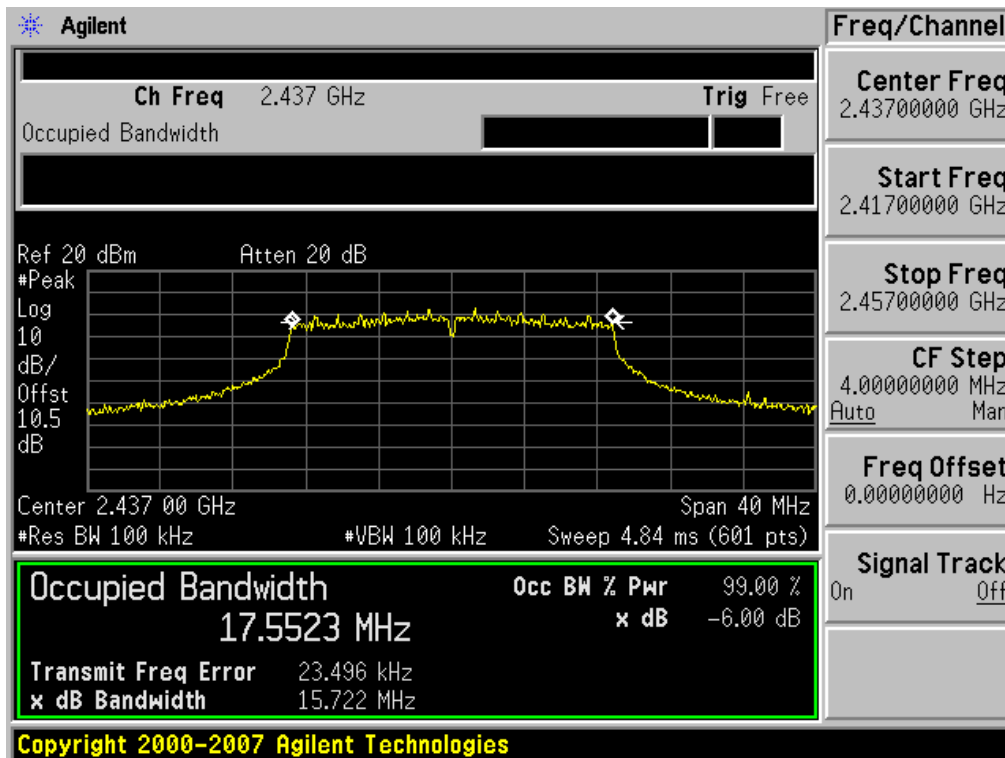
6dB Bandwidth plot (802.11g-CH 11)



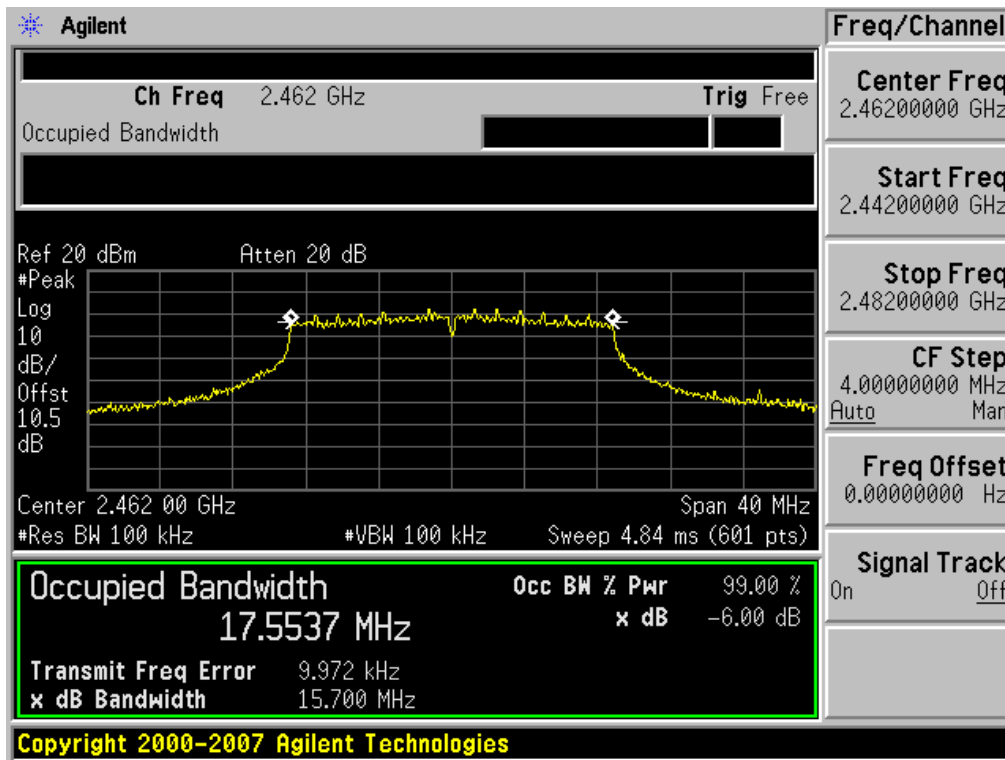
6dB Bandwidth plot (802.11n-CH 1)



6dB Bandwidth plot (802.11n-CH 6)



6dB Bandwidth plot (802.11n-CH 11)



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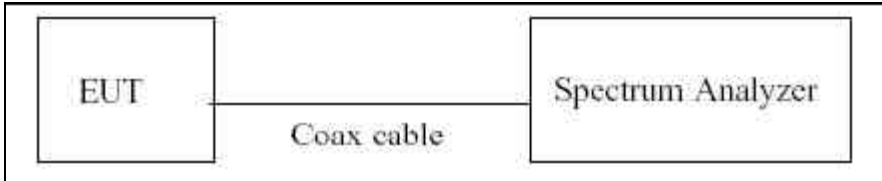
7.2 OUTPUT POWER MEASUREMENT (802.11b/g/n)

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.

The Spectrum Analyzer is set to

RBW: 1 MHz

VBW: 1 MHz

SPAN: 40 MHz

Detector Mode = Peak

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| FCC PT.15.247 TEST REPORT | FCC CERTIFICATION REPORT | | www.hct.co.kr |
| Test Report No. HCTR1106FR21 | Date of Issue: June 15, 2011 | EUT Type: CDMA/LTE Phone with Bluetooth & WLAN | FCC ID: JYCAPACHE |

■ TEST RESULTS

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 | 18.46 | 30 |
| | | 2 Mbps | 19.01 | 30 |
| | | 5.5 Mbps | 20.71 | 30 |
| | | 11 Mbps | 22.16 | 30 |
| 2437 | 6 | 1 Mbps | 18.89 | 30 |
| | | 2 Mbps | 19.22 | 30 |
| | | 5.5 Mbps | 21.07 | 30 |
| | | 11 Mbps | 22.61 | 30 |
| 2462 | 11 | 1 Mbps | 19.14 | 30 |
| | | 2 Mbps | 19.49 | 30 |
| | | 5.5 Mbps | 21.34 | 30 |
| | | 11 Mbps | 22.80 | 30 |

Conducted Output Power Measurements (802.11g Mode)

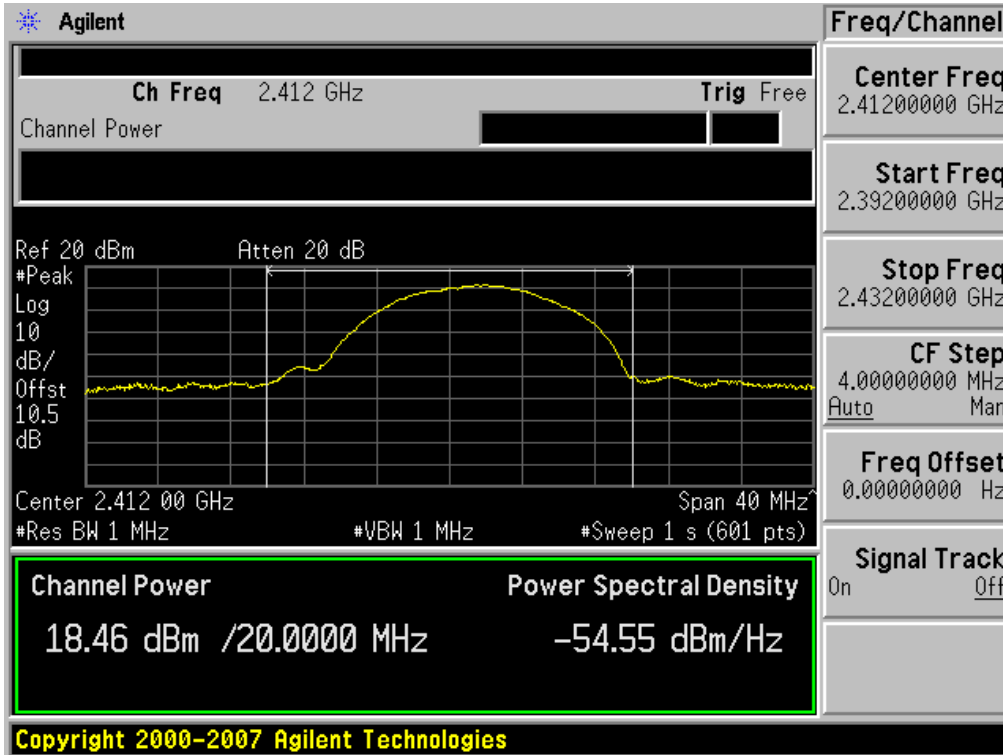
| 802.11g Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 2412 | 1 | 6 Mbps | 20.61 | 30 |
| | | 9 Mbps | 20.57 | 30 |
| | | 12 Mbps | 20.70 | 30 |
| | | 18 Mbps | 20.45 | 30 |
| | | 24 Mbps | 21.25 | 30 |
| | | 36 Mbps | 20.94 | 30 |
| | | 48 Mbps | 21.06 | 30 |
| | | 54 Mbps | 21.05 | 30 |
| 2437 | 6 | 6 Mbps | 20.91 | 30 |
| | | 9 Mbps | 20.83 | 30 |
| | | 12 Mbps | 20.91 | 30 |
| | | 18 Mbps | 20.99 | 30 |
| | | 24 Mbps | 21.44 | 30 |
| | | 36 Mbps | 21.37 | 30 |
| | | 48 Mbps | 21.34 | 30 |
| | | 54 Mbps | 21.38 | 30 |
| 2462 | 11 | 6 Mbps | 21.48 | 30 |
| | | 9 Mbps | 21.10 | 30 |
| | | 12 Mbps | 21.18 | 30 |
| | | 18 Mbps | 21.33 | 30 |
| | | 24 Mbps | 21.71 | 30 |
| | | 36 Mbps | 21.50 | 30 |
| | | 48 Mbps | 21.62 | 30 |
| | | 54 Mbps | 21.59 | 30 |

Conducted Output Power Measurements (802.11n Mode)

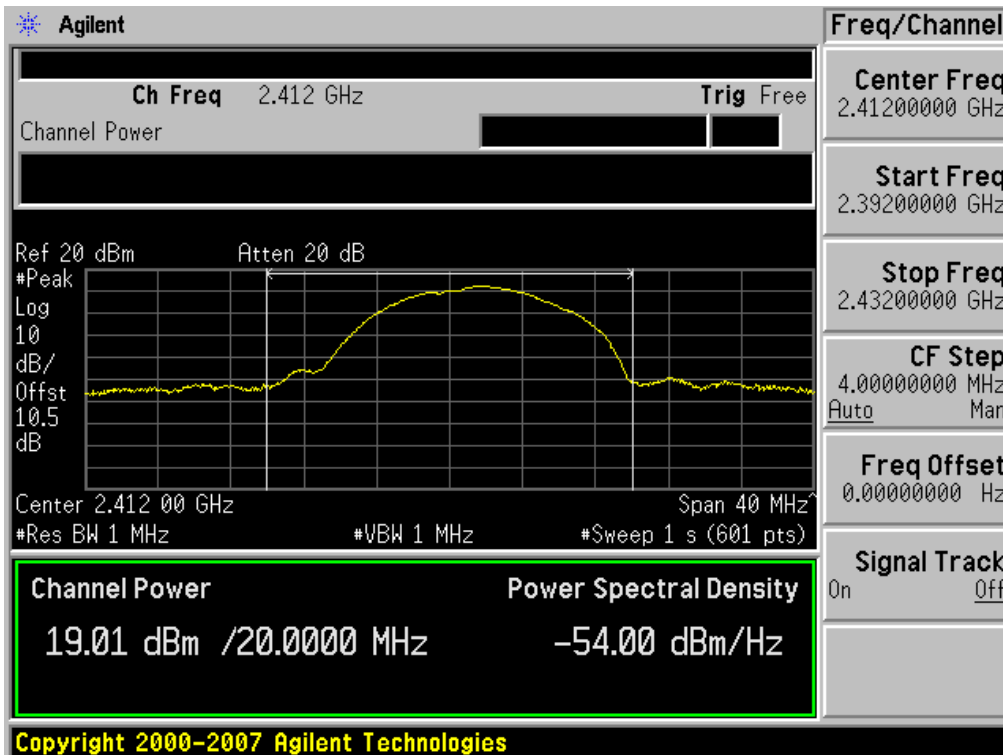
| 802.11n Mode | | Rate (Mbps) | Measured Power(dBm) | Limit (dBm) |
|----------------|-------------|----------------|------------------------|----------------|
| Frequency[MHz] | Channel No. | | | |
| 2412 | 1 | 6.5 Mbps | 18.60 | 30 |
| | | 13 Mbps | 18.62 | 30 |
| | | 19.5 Mbps | 18.58 | 30 |
| | | 26 Mbps | 19.05 | 30 |
| | | 39 Mbps | 18.92 | 30 |
| | | 52 Mbps | 18.95 | 30 |
| | | 58.5 Mbps | 18.91 | 30 |
| | | 65 Mbps | 18.82 | 30 |
| 2437 | 6 | 6.5 Mbps | 18.89 | 30 |
| | | 13 Mbps | 19.15 | 30 |
| | | 19.5 Mbps | 18.87 | 30 |
| | | 26 Mbps | 19.59 | 30 |
| | | 39 Mbps | 19.26 | 30 |
| | | 52 Mbps | 19.15 | 30 |
| | | 58.5 Mbps | 19.21 | 30 |
| | | 65 Mbps | 19.20 | 30 |
| 2462 | 11 | 6.5 Mbps | 19.09 | 30 |
| | | 13 Mbps | 19.29 | 30 |
| | | 19.5 Mbps | 19.10 | 30 |
| | | 26 Mbps | 19.83 | 30 |
| | | 39 Mbps | 19.46 | 30 |
| | | 52 Mbps | 19.43 | 30 |
| | | 58.5 Mbps | 19.45 | 30 |
| | | 65 Mbps | 19.38 | 30 |

RESULT PLOTS

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

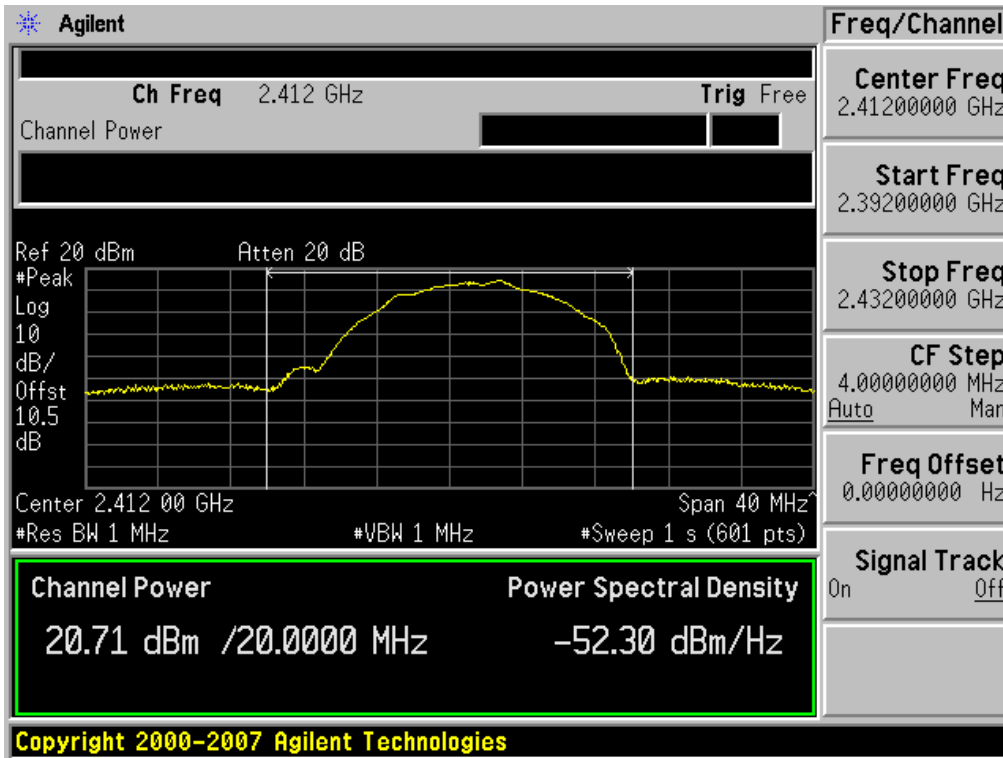


Conducted Output Power (802.11b-CH 1) 2Mbps

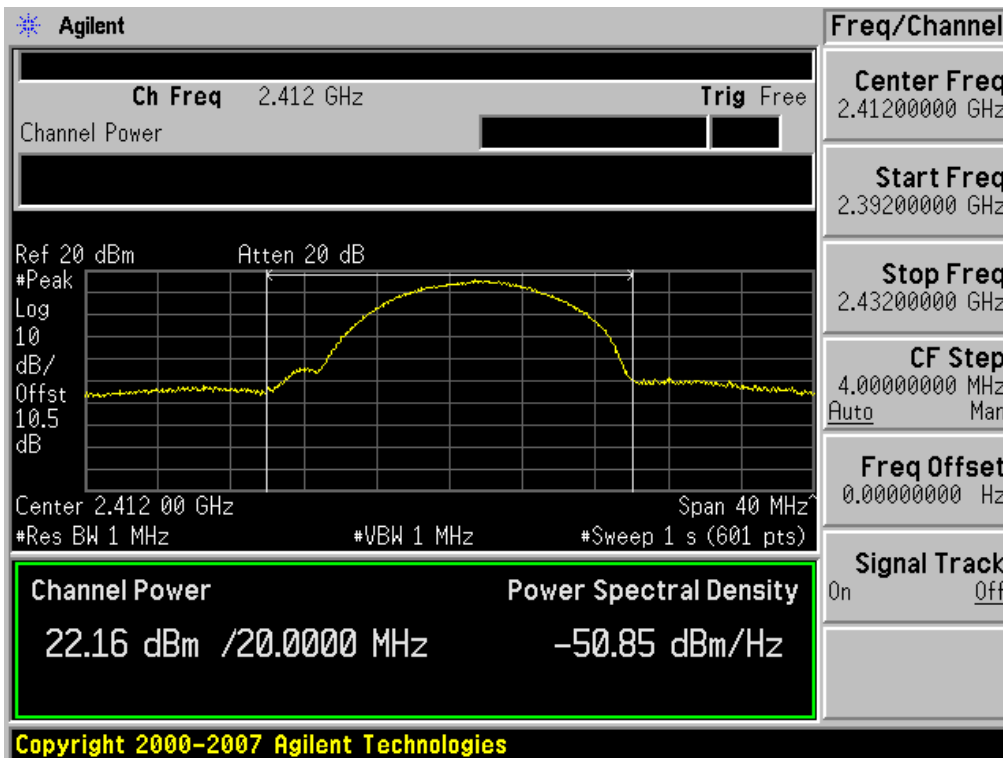


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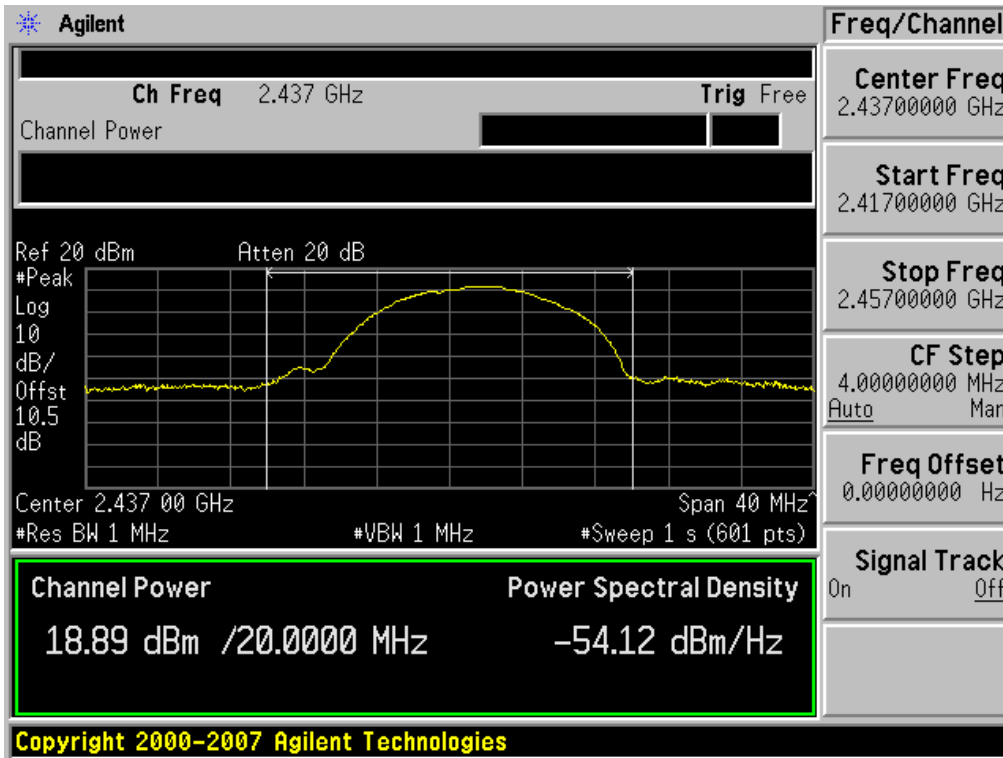
Conducted Output Power (802.11b-CH 1) 5.5Mbps



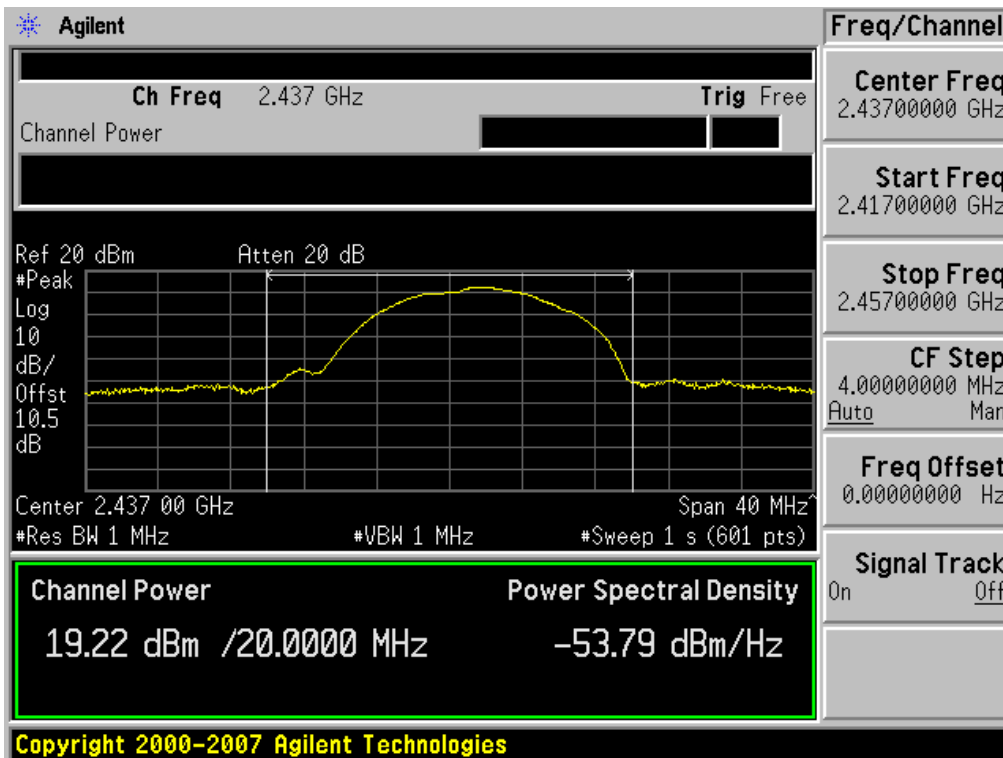
Conducted Output Power (802.11b-CH 1) 11Mbps



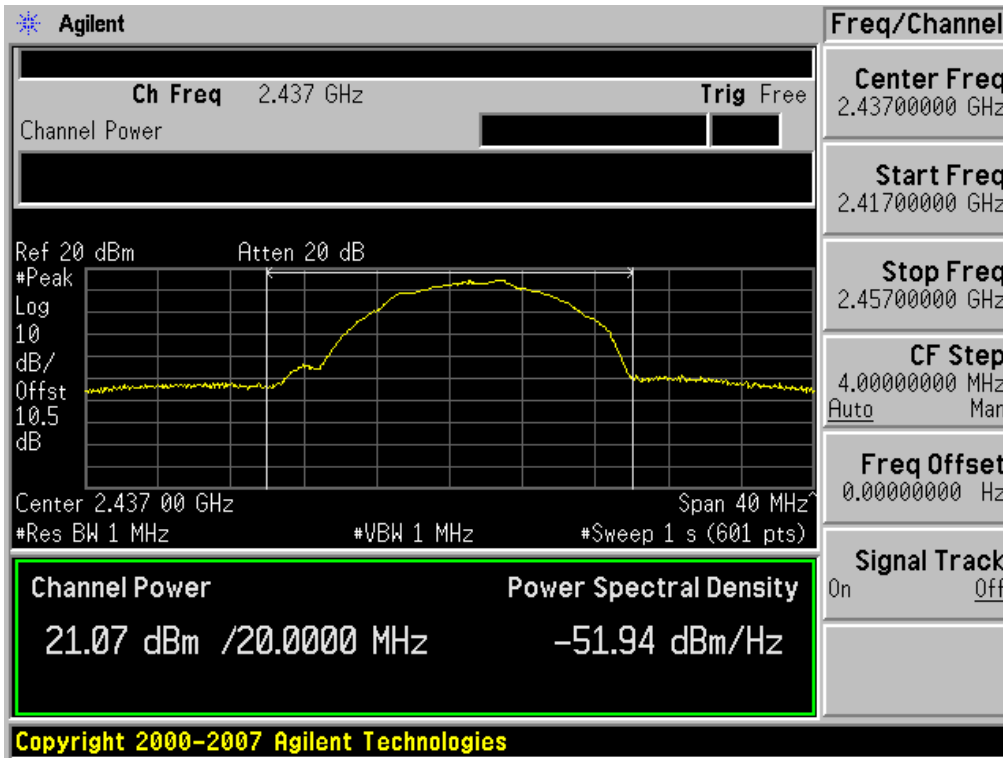
Conducted Output Power (802.11b-CH 6) 1Mbps



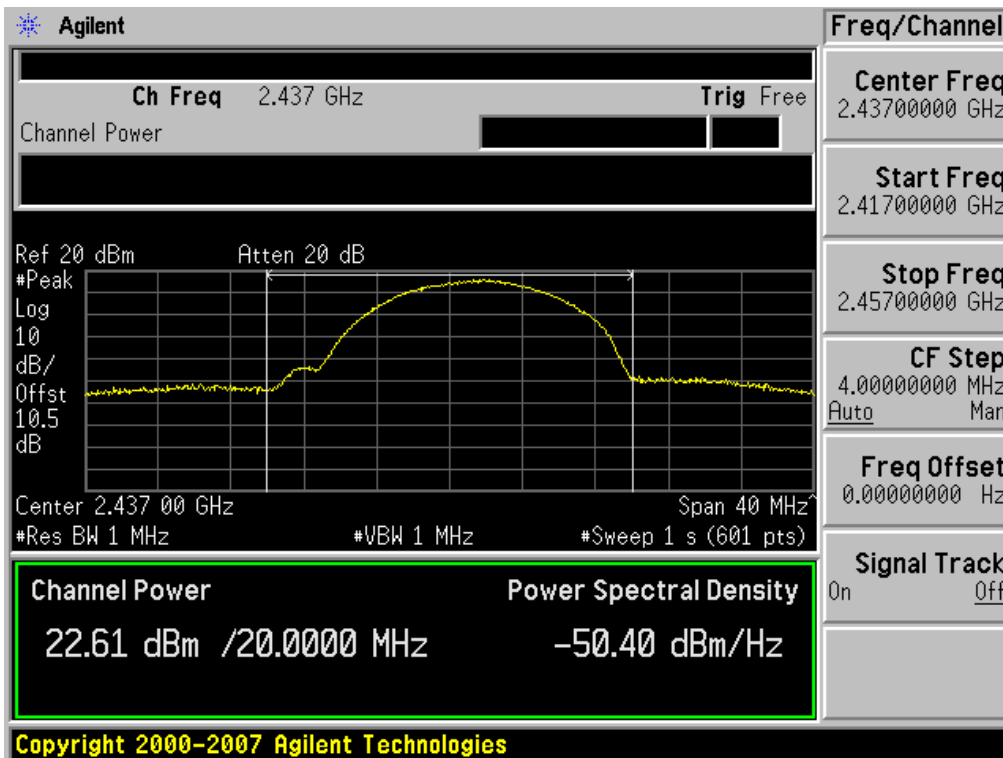
Conducted Output Power (802.11b-CH 6) 2Mbps



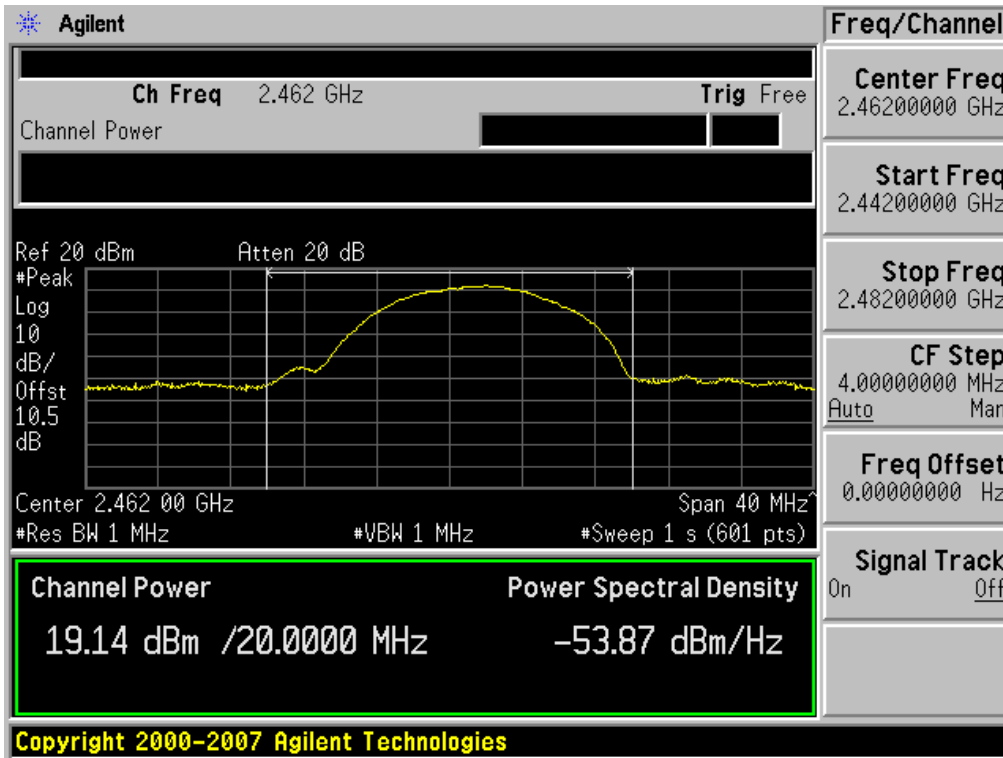
Conducted Output Power (802.11b-CH 6) 5.5Mbps



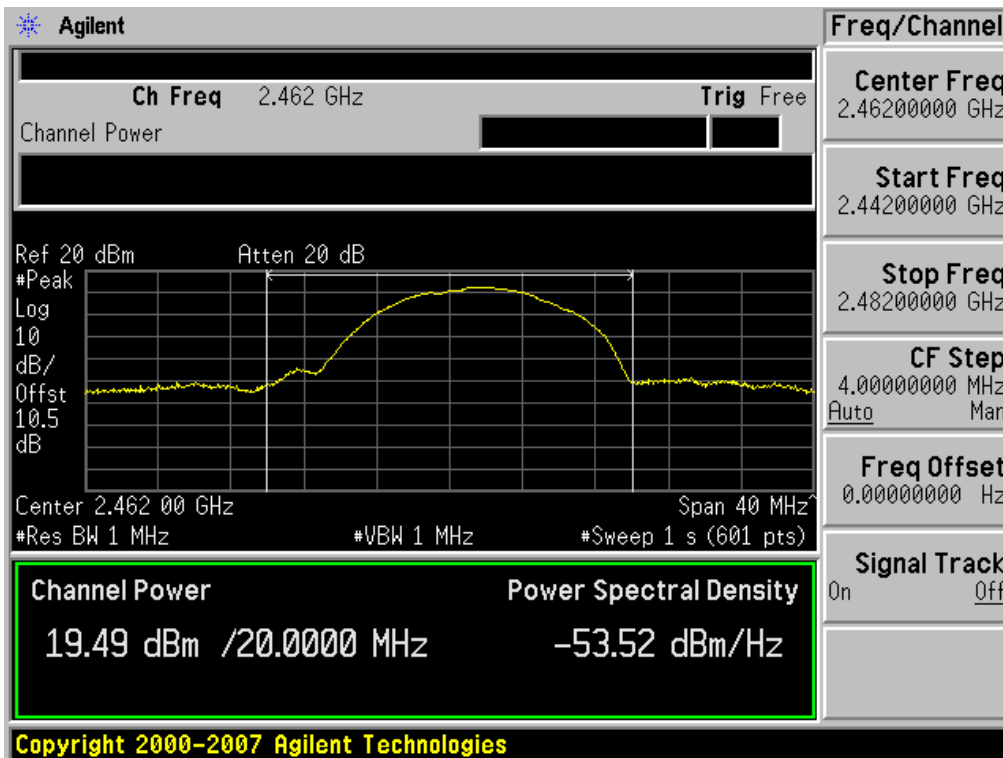
Conducted Output Power (802.11b-CH 6) 11Mbps



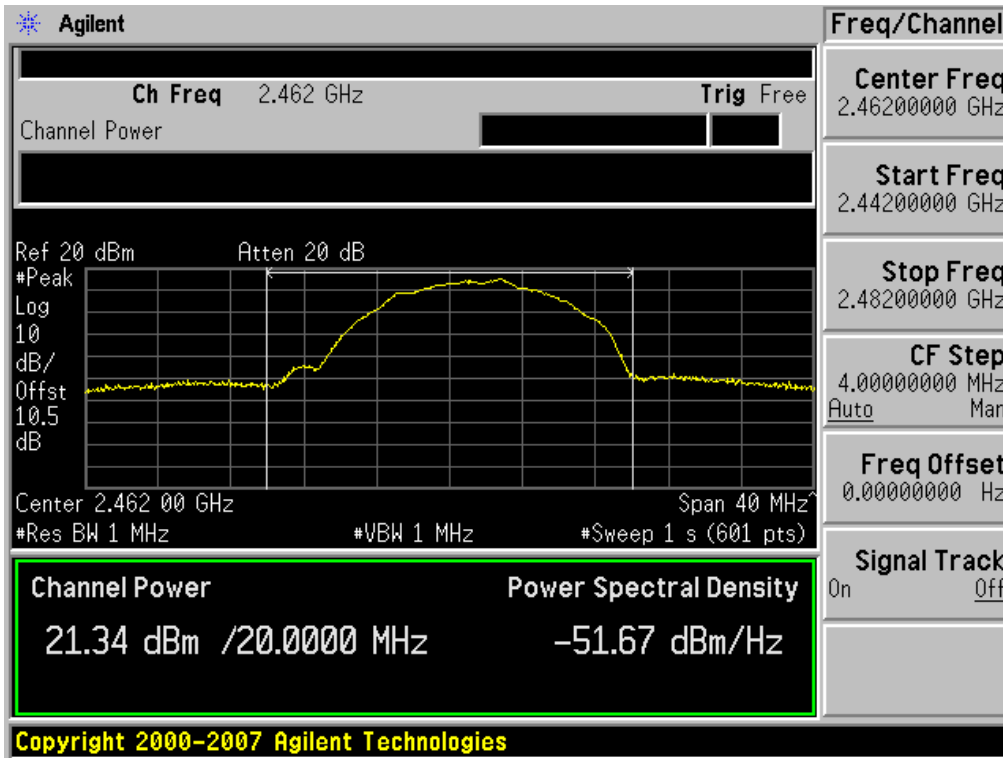
Conducted Output Power (802.11b-CH 11) 1Mbps



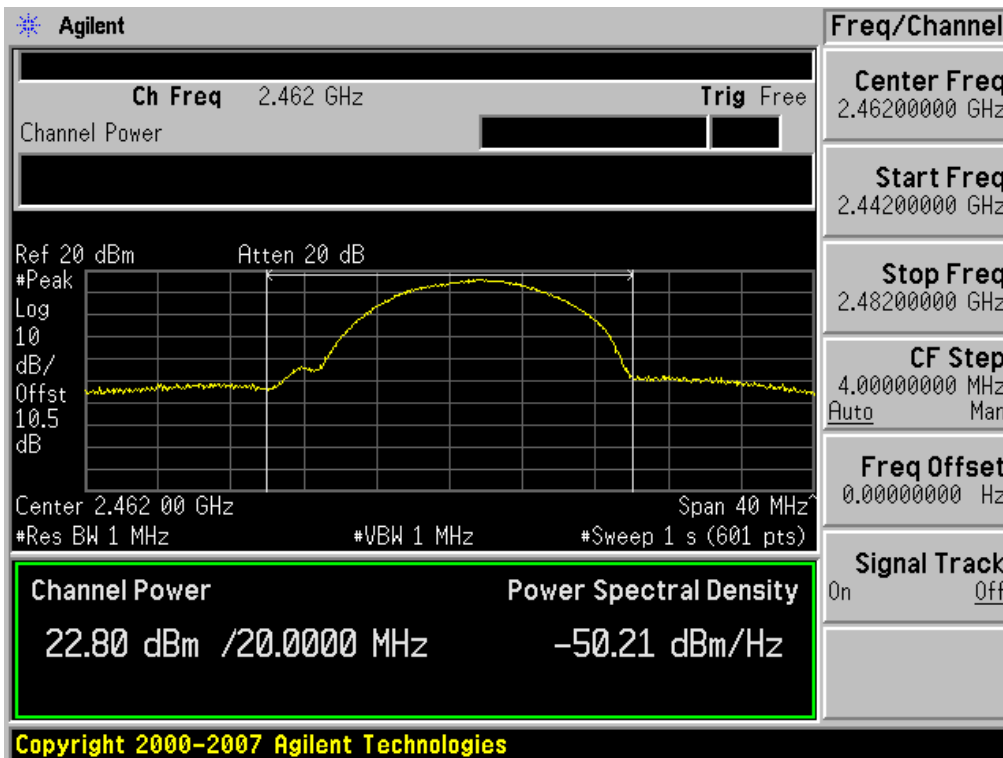
Conducted Output Power (802.11b-CH 11) 2Mbps



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



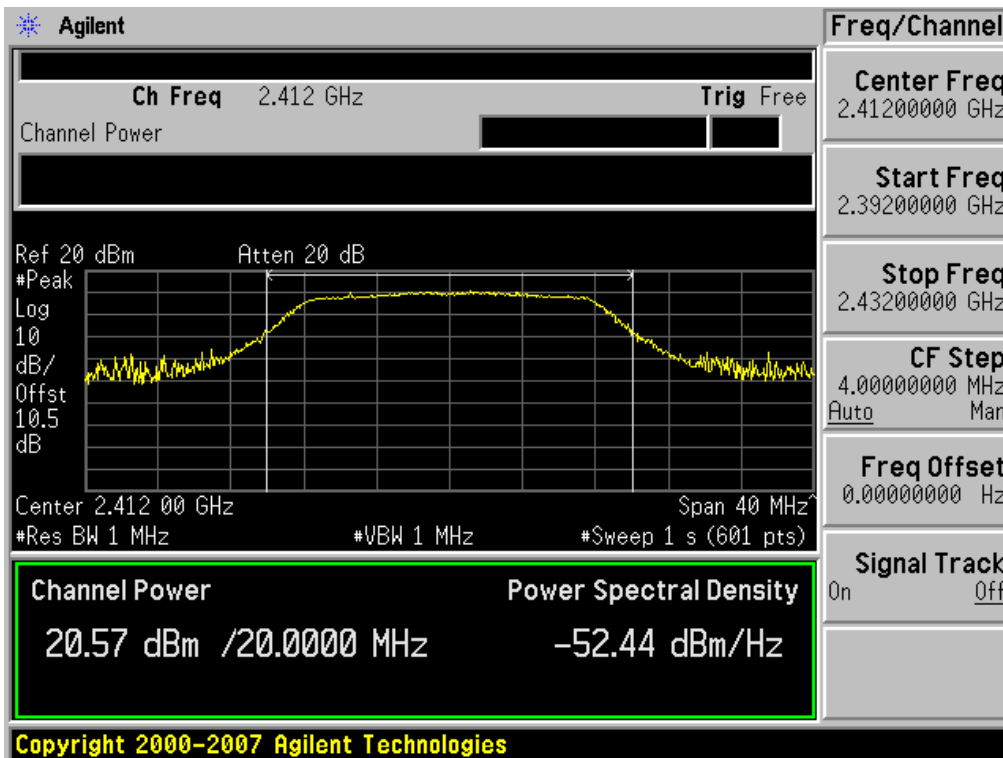
Conducted Output Power (802.11b-CH 11) 11Mbps



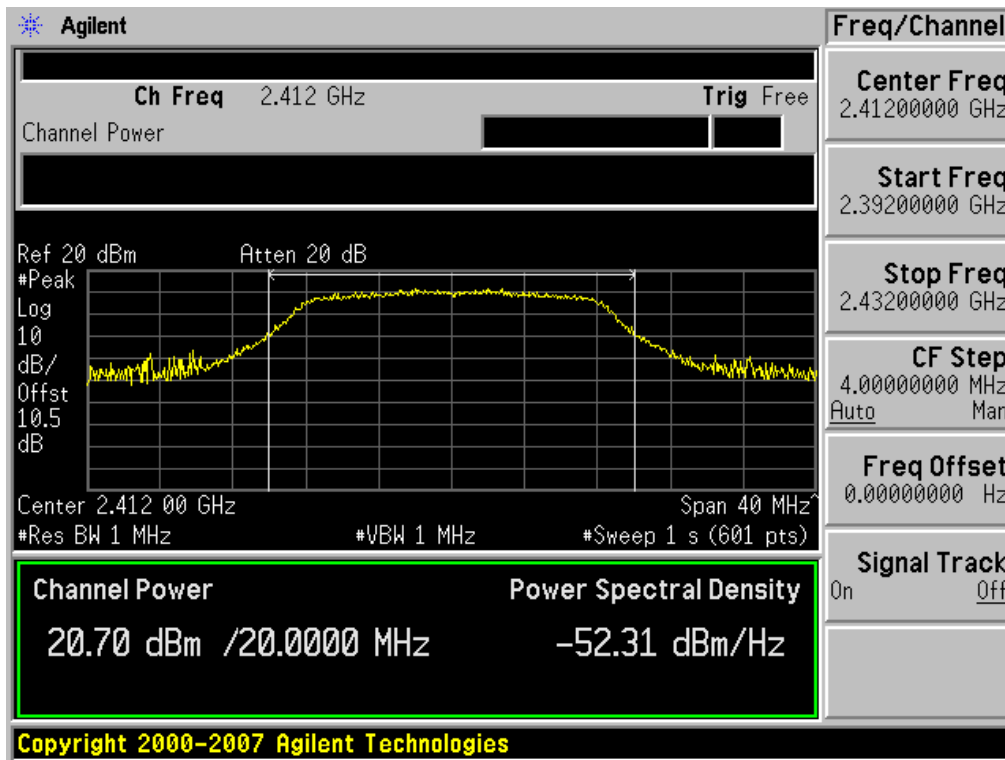
Conducted Output Power (802.11g-CH 1) 6Mbps



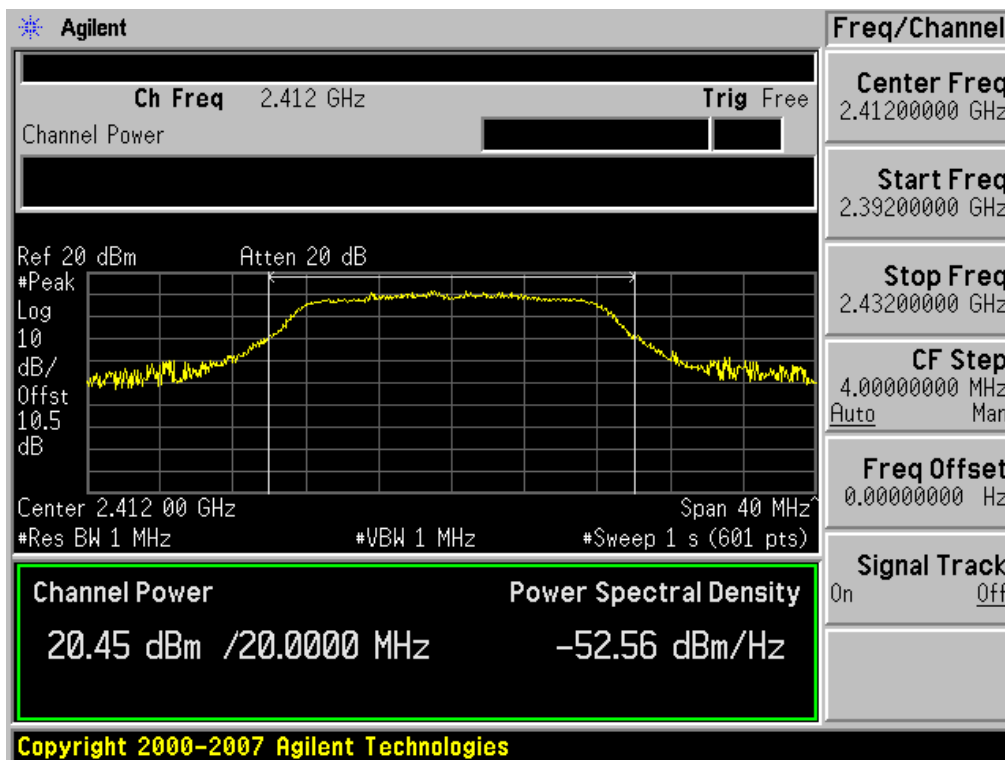
Conducted Output Power (802.11g-CH 1) 9Mbps



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



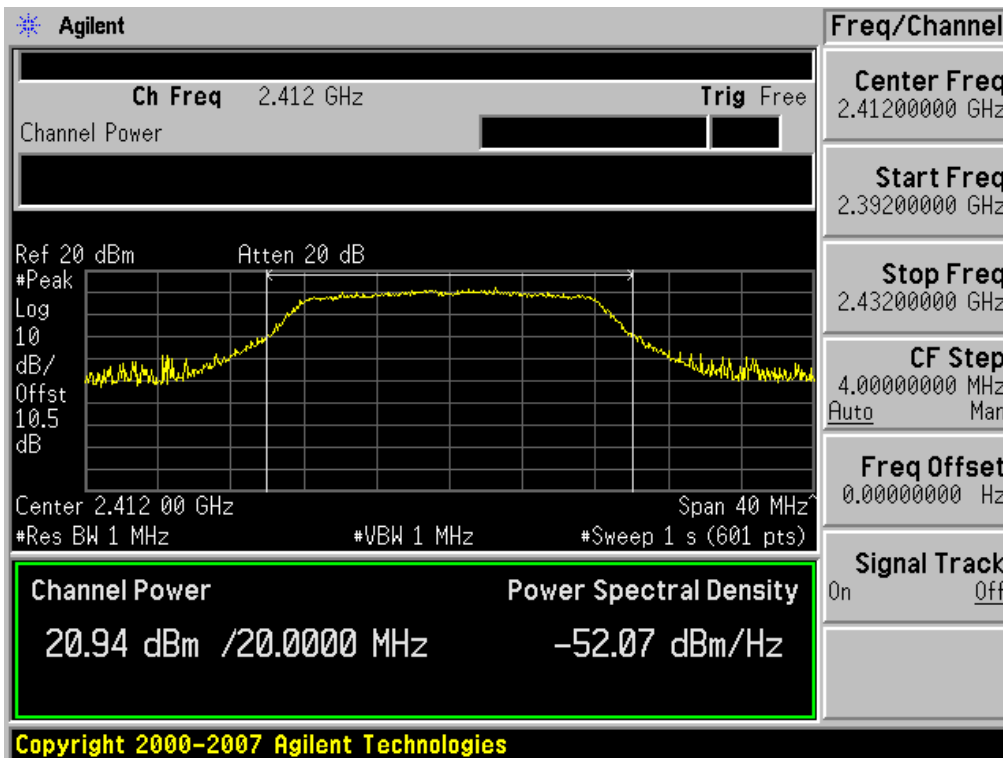
Conducted Output Power (802.11g-CH 1) 18Mbps



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

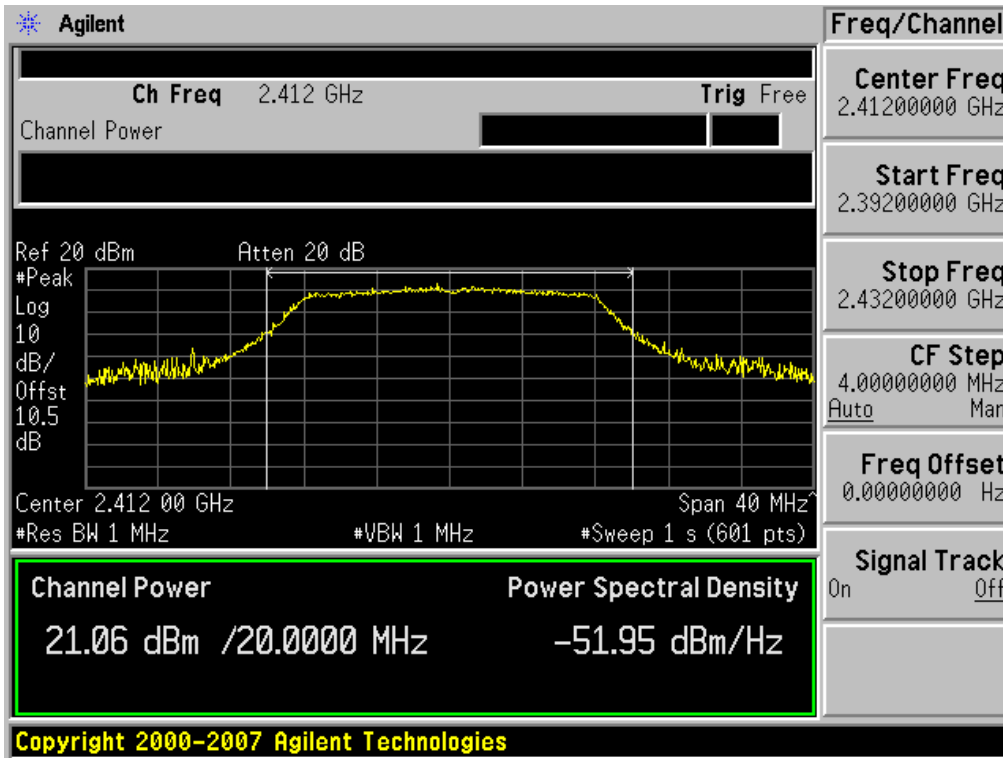


Conducted Output Power (802.11g-CH 1) 36Mbps

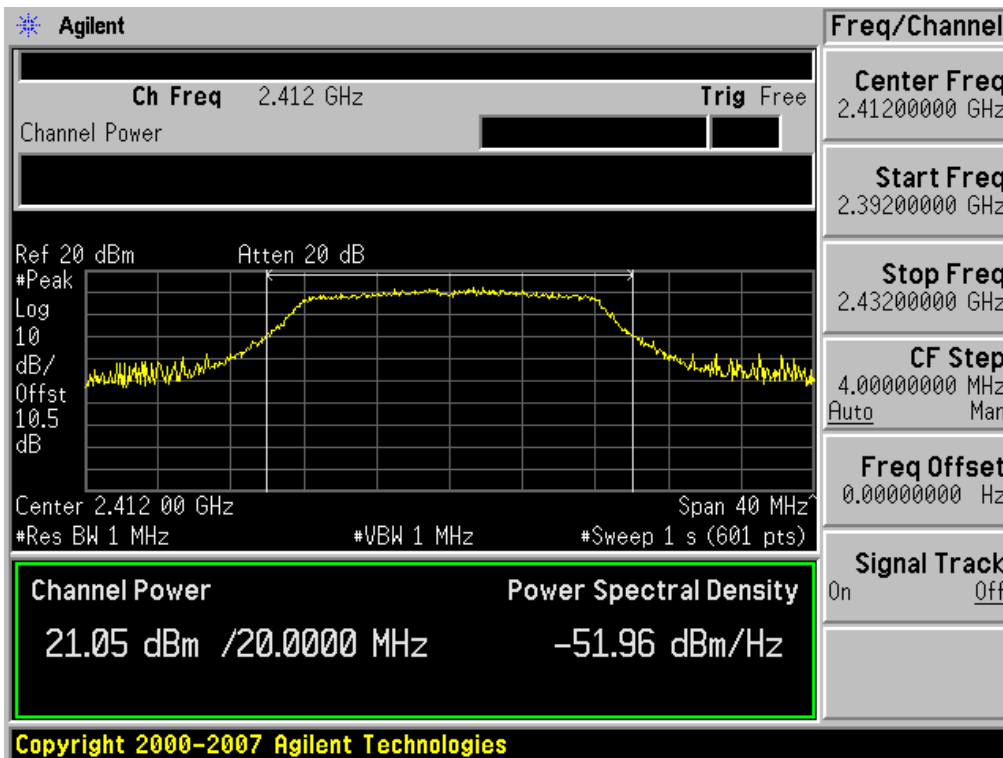


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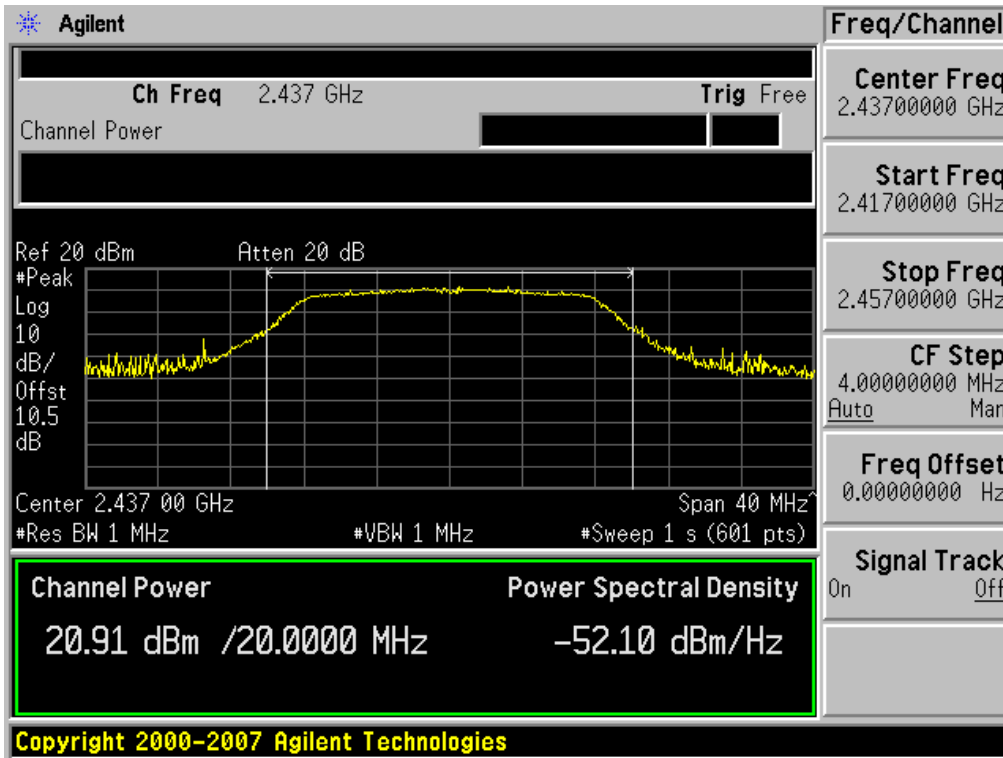
Conducted Output Power (802.11g-CH 1) 48Mbps



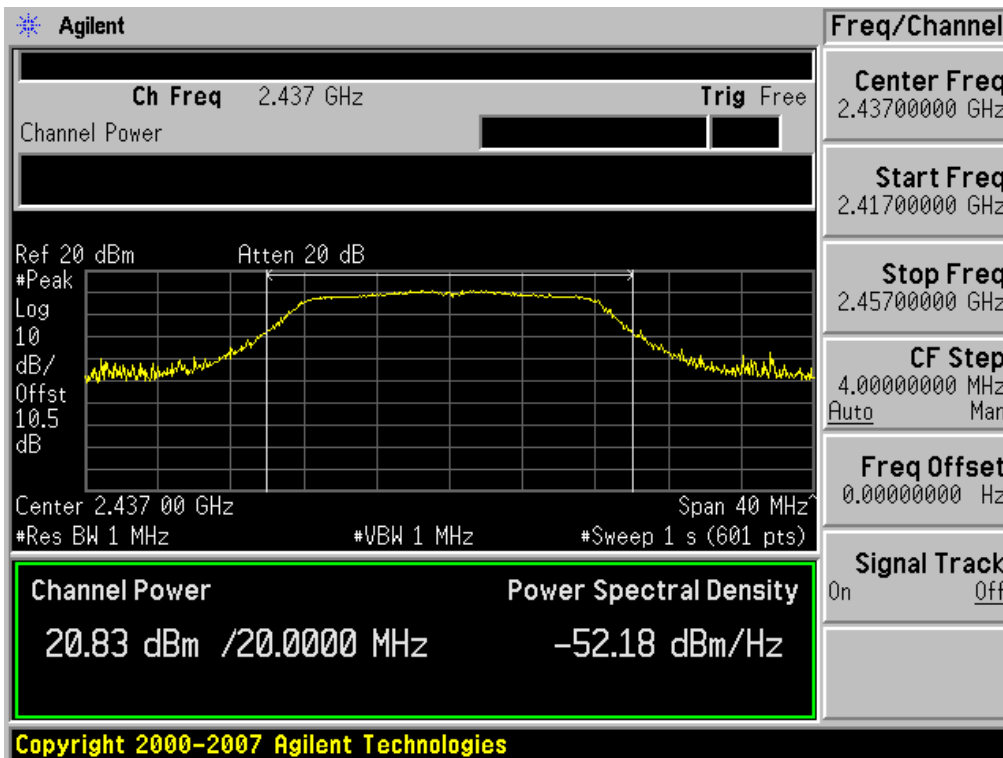
Conducted Output Power (802.11g-CH 1) 54Mbps



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



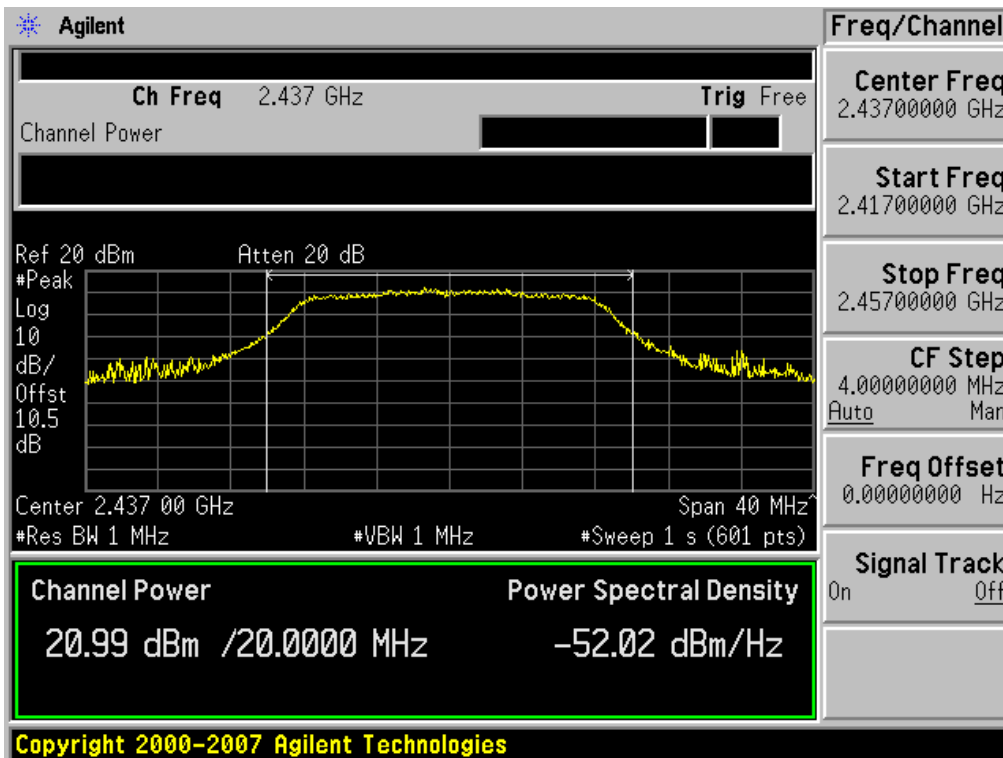
Conducted Output Power (802.11g-CH 6) 9Mbps



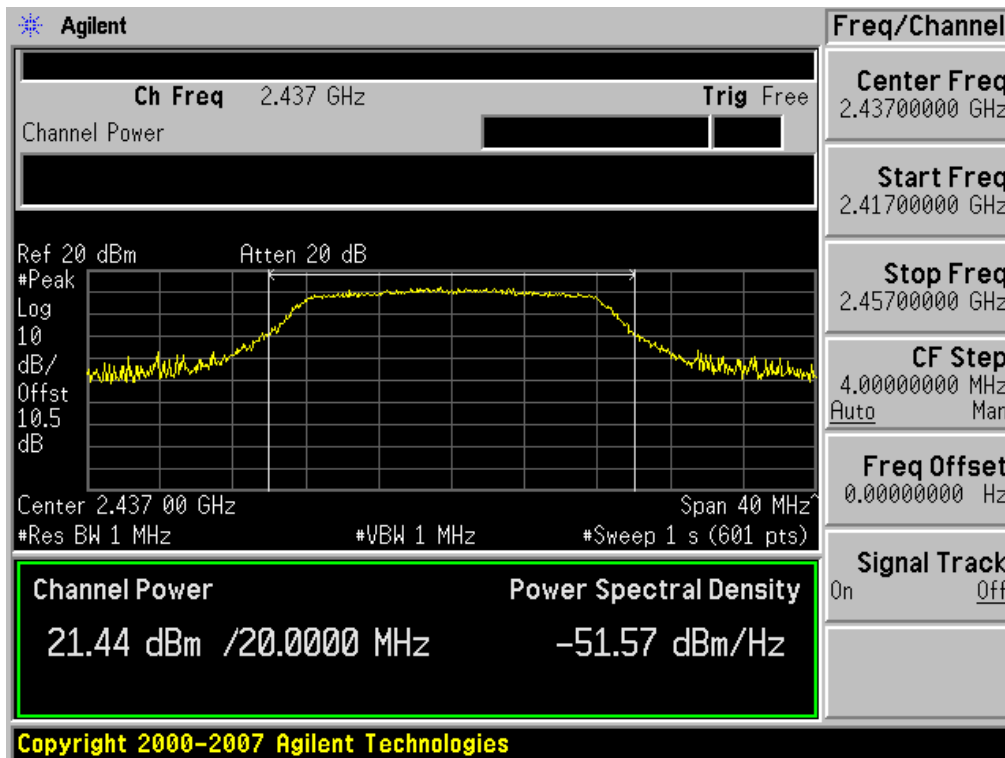
Conducted Output Power (802.11g-CH 6) 12Mbps



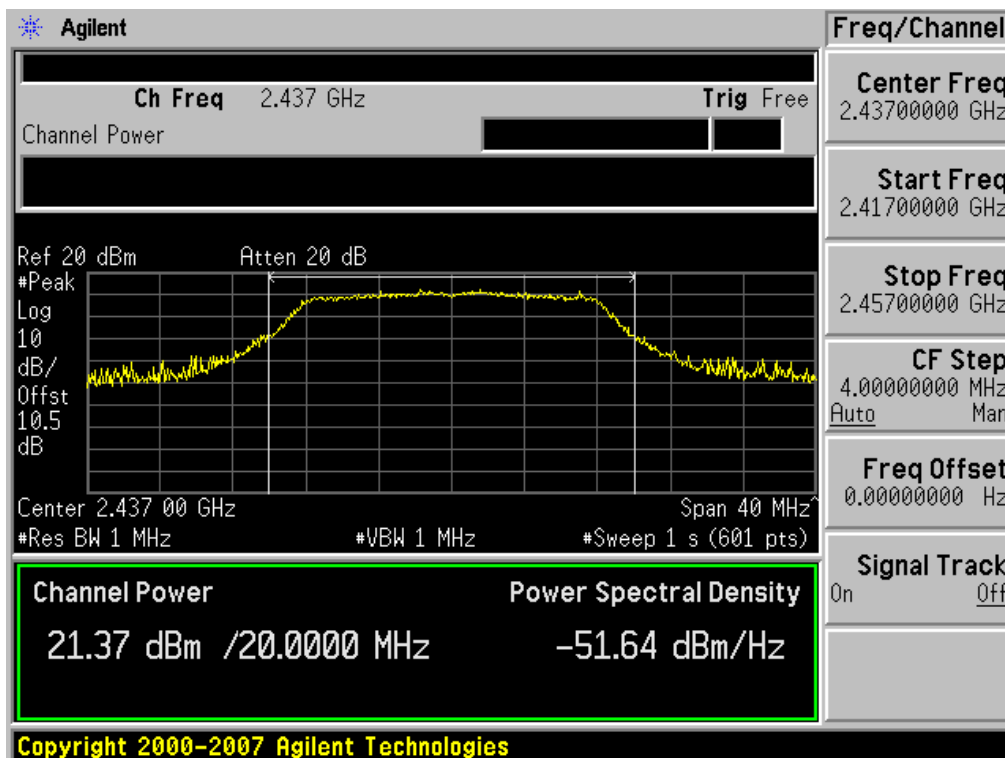
Conducted Output Power (802.11g-CH 6) 18Mbps



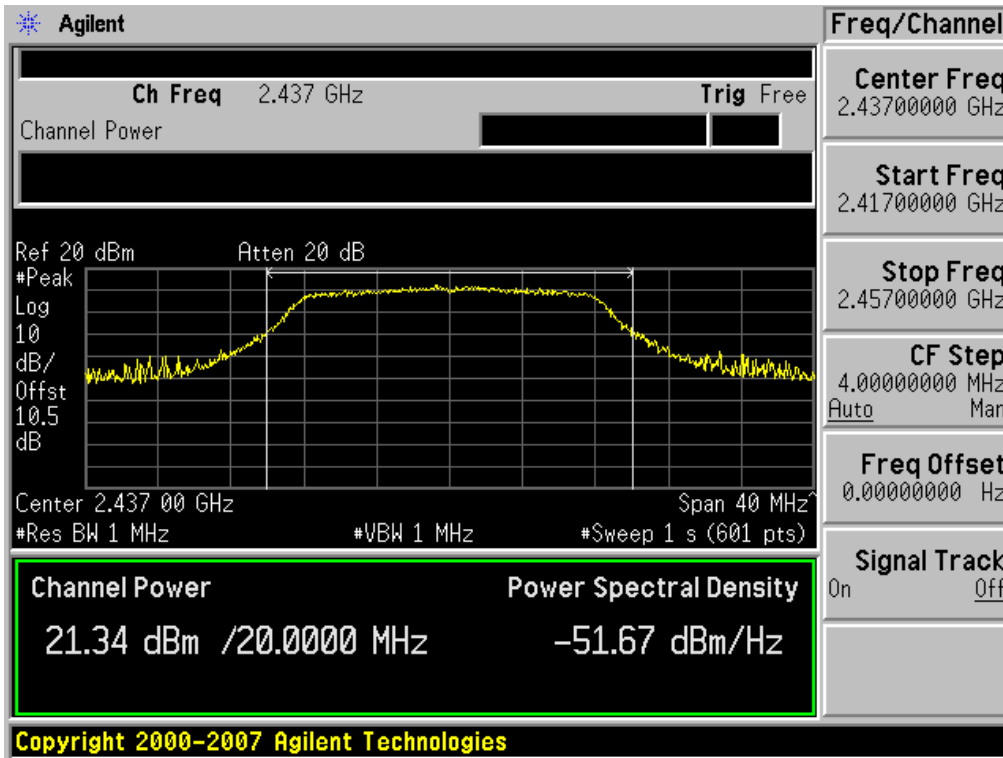
Conducted Output Power (802.11g-CH 6) 24Mbps



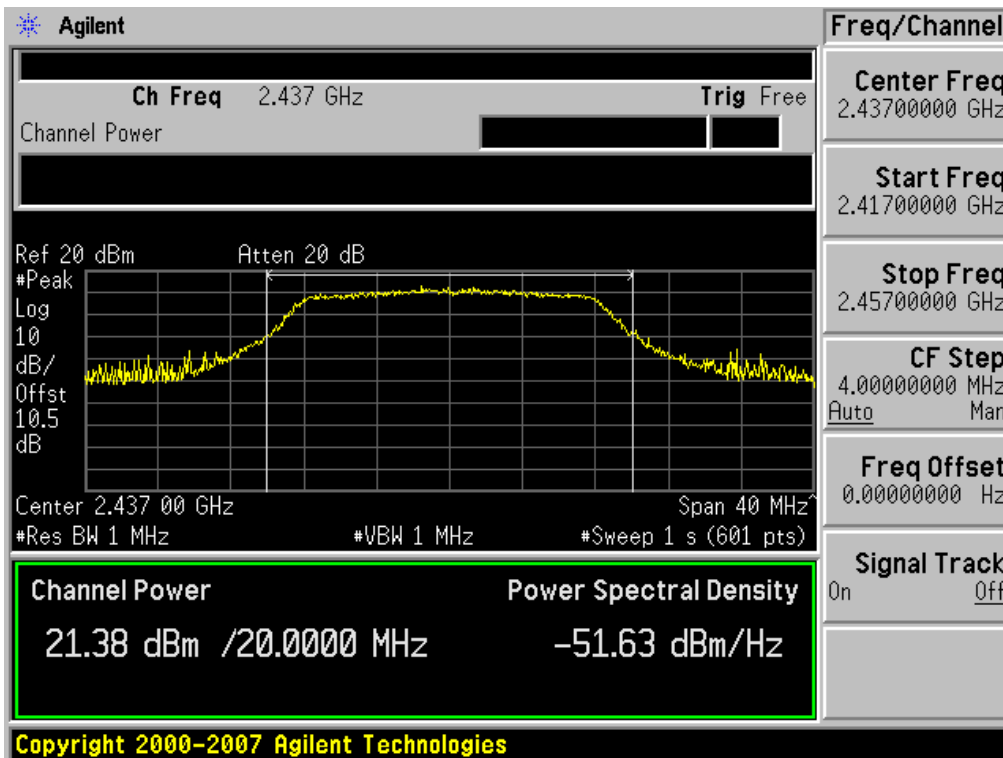
Conducted Output Power (802.11g-CH 6) 36Mbps



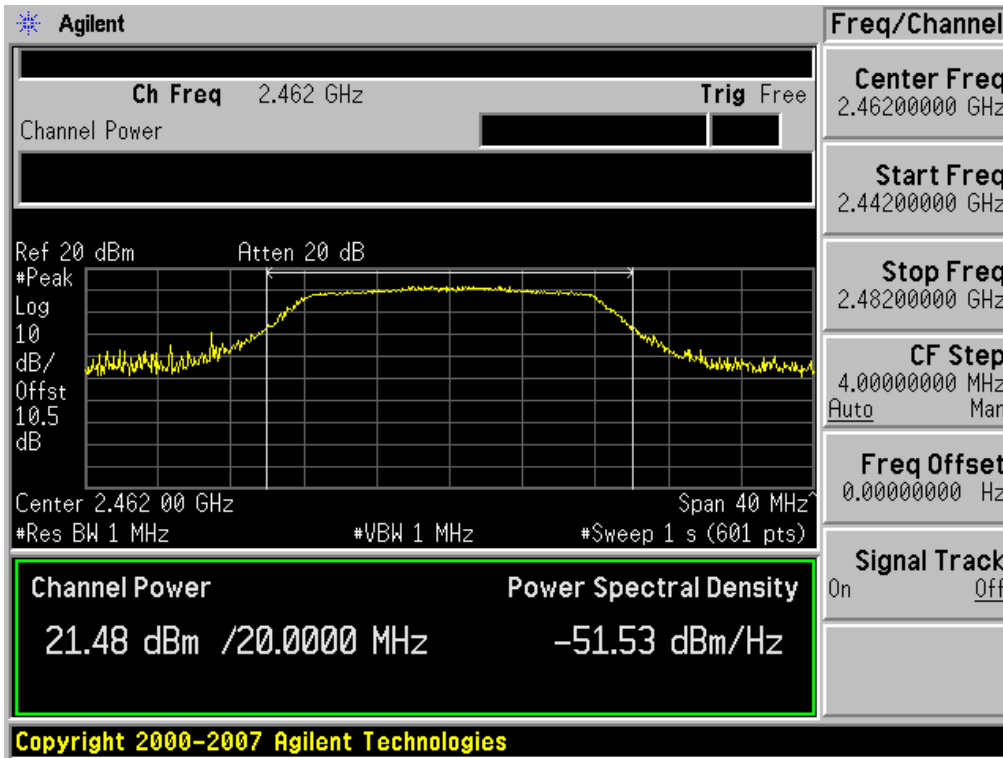
Conducted Output Power (802.11g-CH 6) 48Mbps



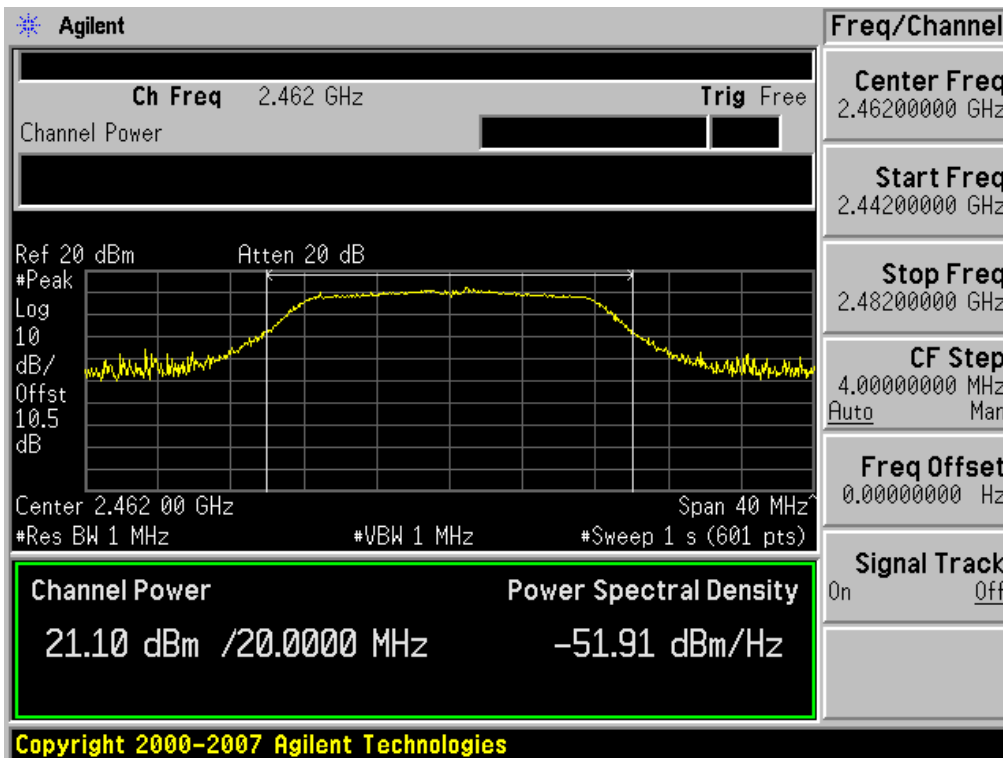
Conducted Output Power (802.11g-CH 6) 54Mbps



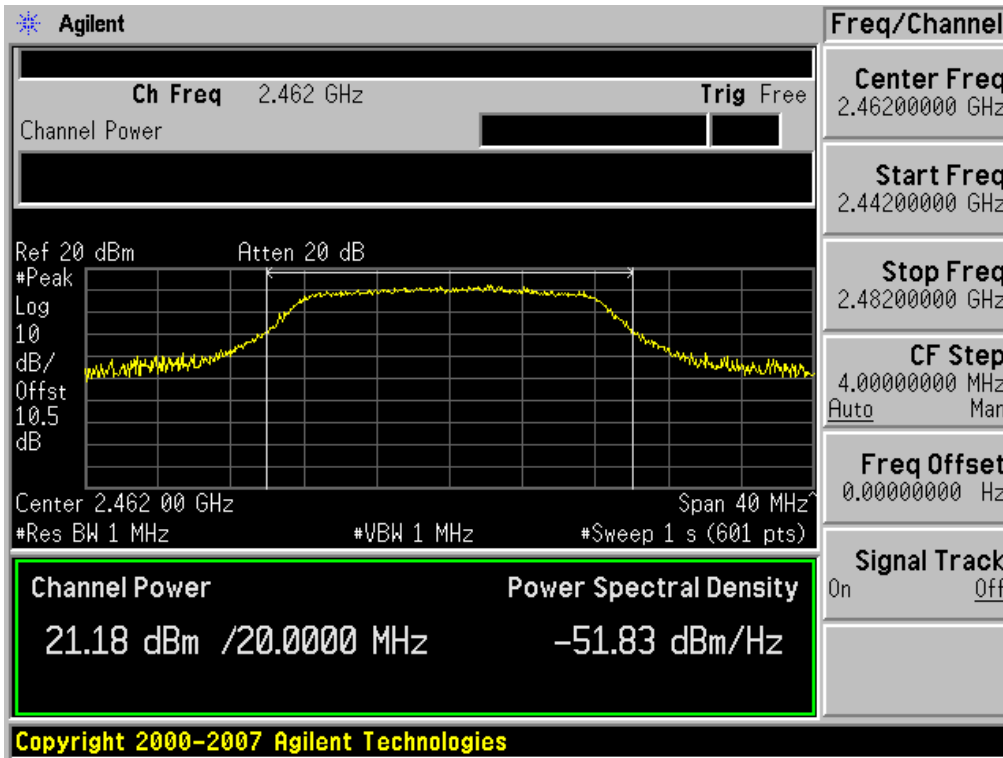
Conducted Output Power (802.11g-CH 11) 6Mbps



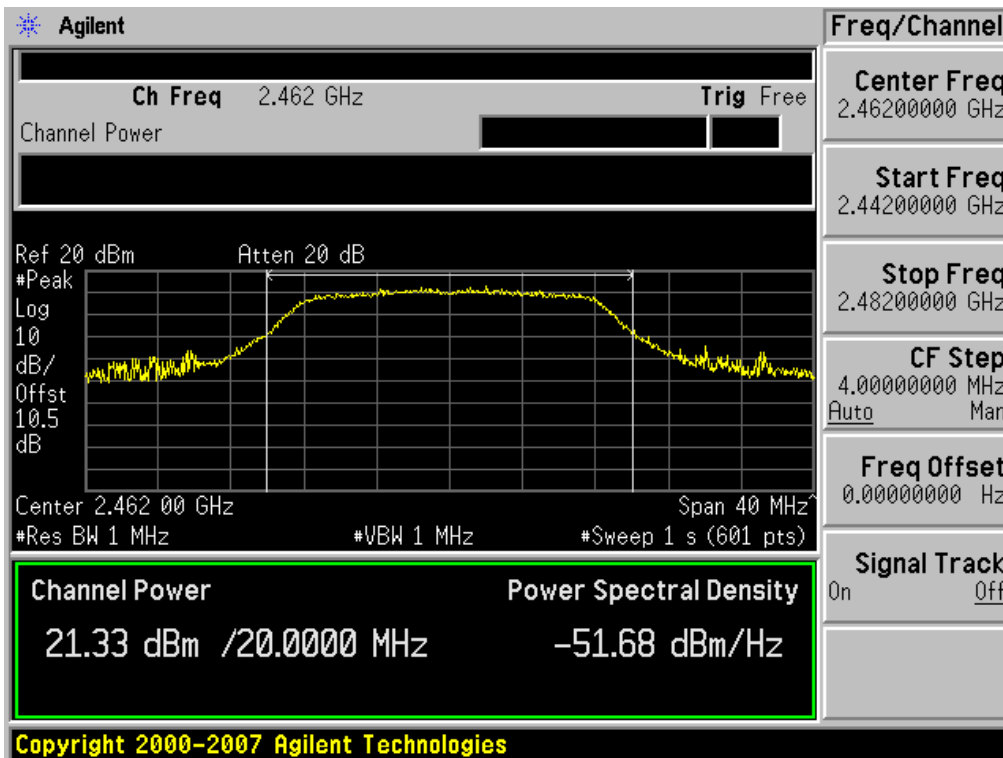
Conducted Output Power (802.11g-CH 11) 9Mbps



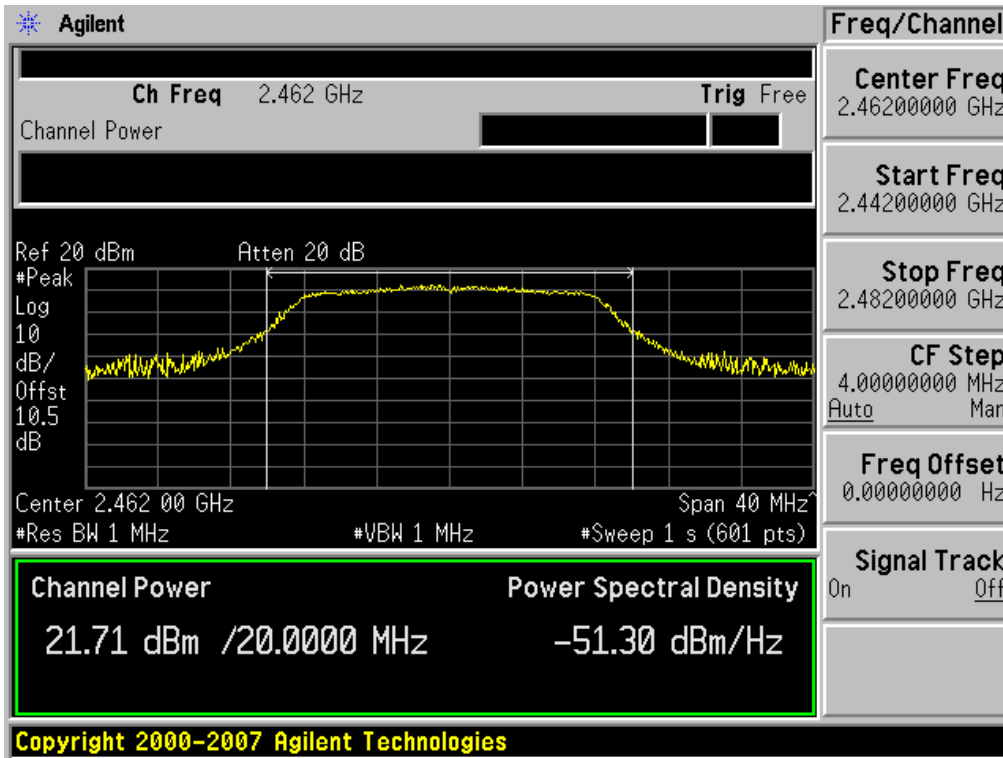
Conducted Output Power (802.11g-CH 11) 12Mbps



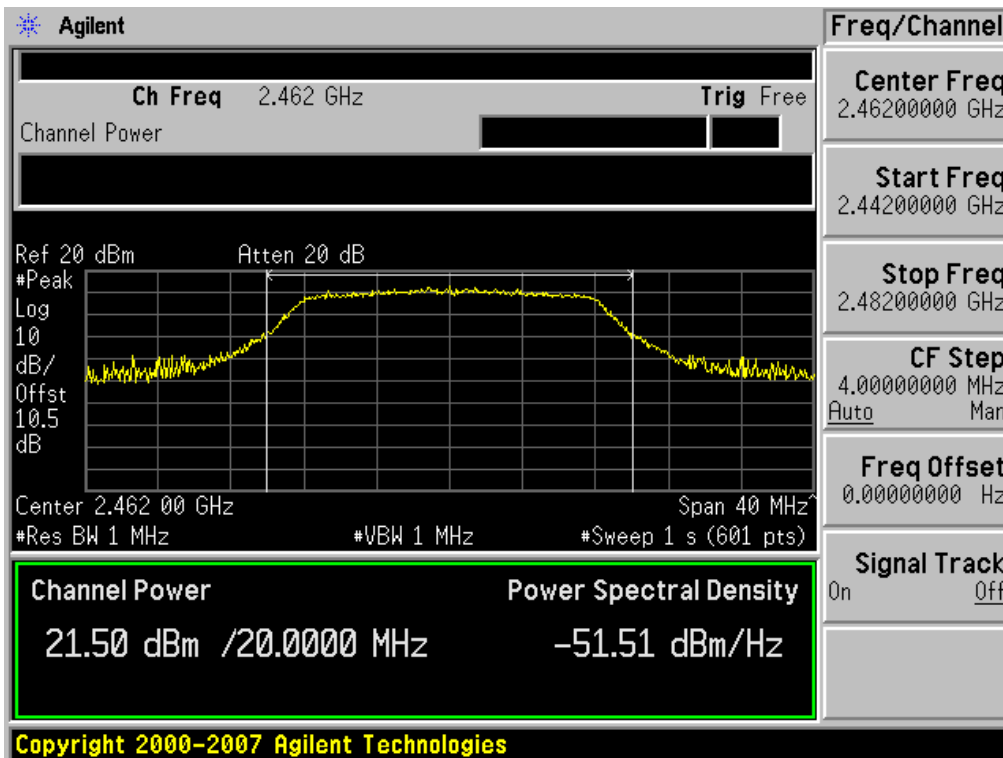
Conducted Output Power (802.11g-CH 11) 18Mbps



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



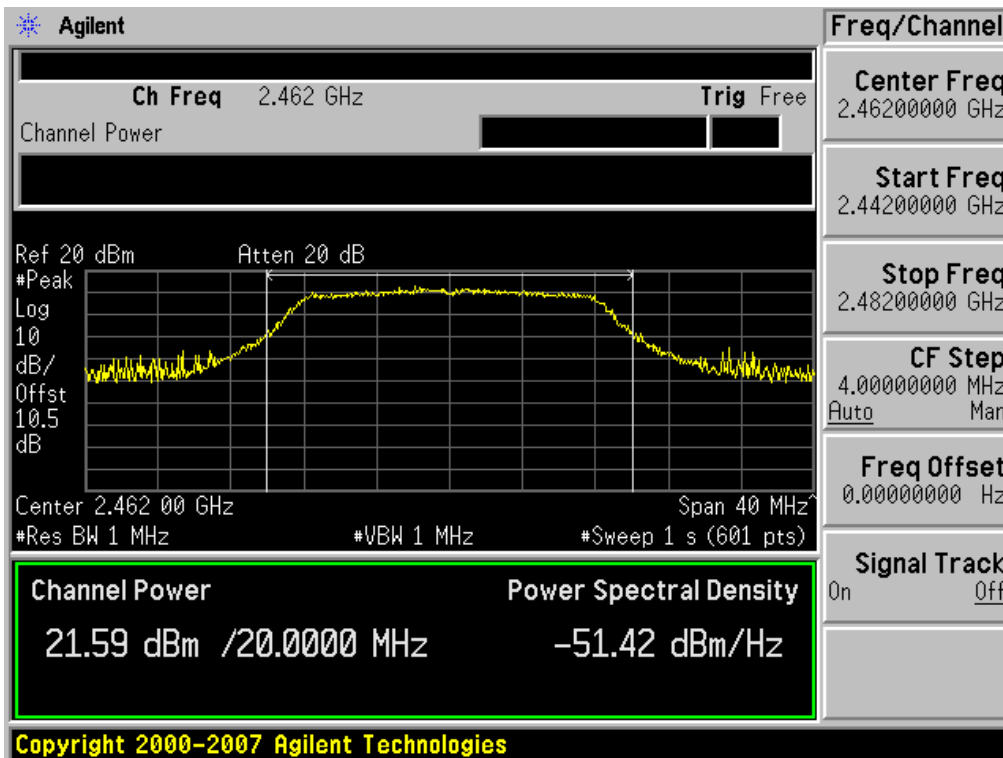
Conducted Output Power (802.11g-CH 11) 36Mbps



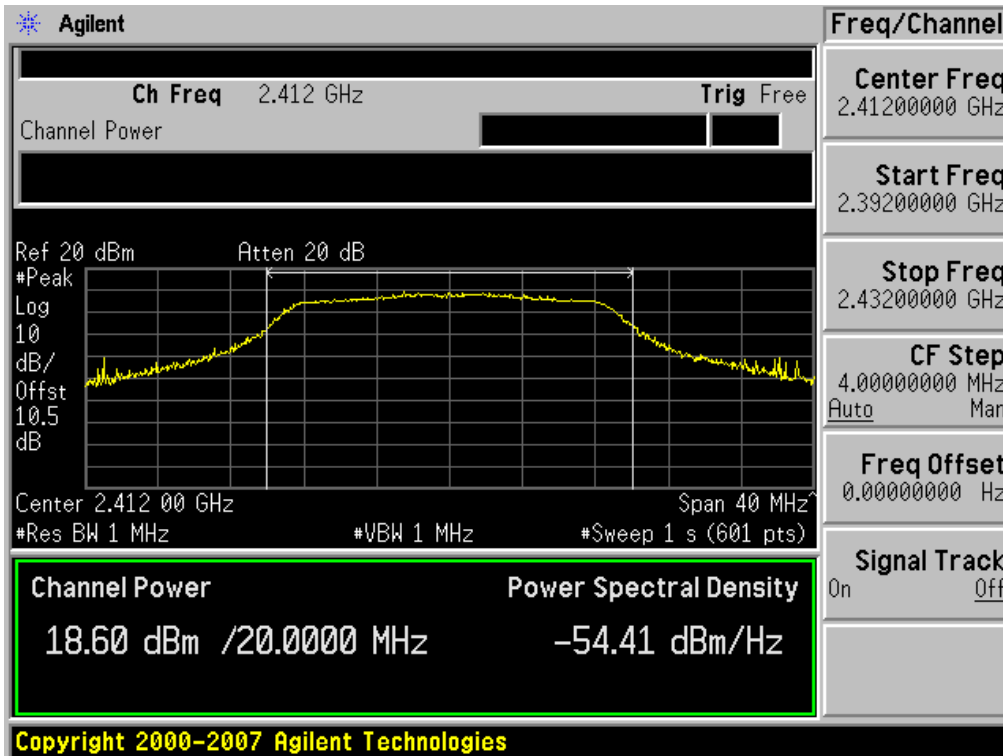
Conducted Output Power (802.11g-CH 11) 48Mbps



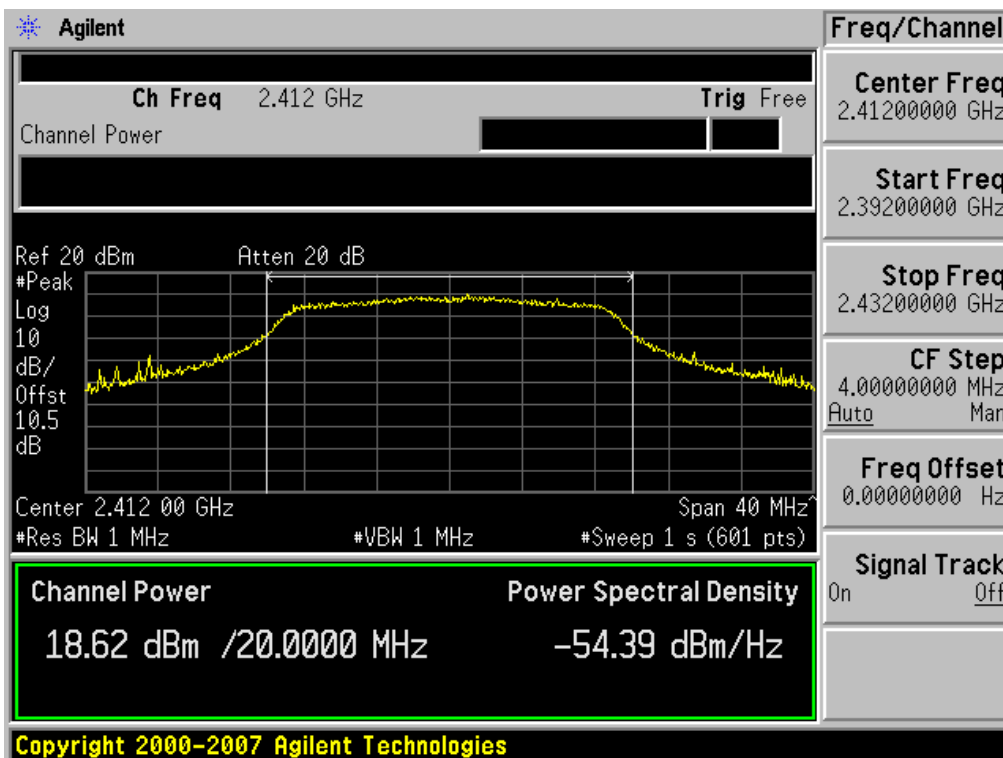
Conducted Output Power (802.11g-CH 11) 54Mbps



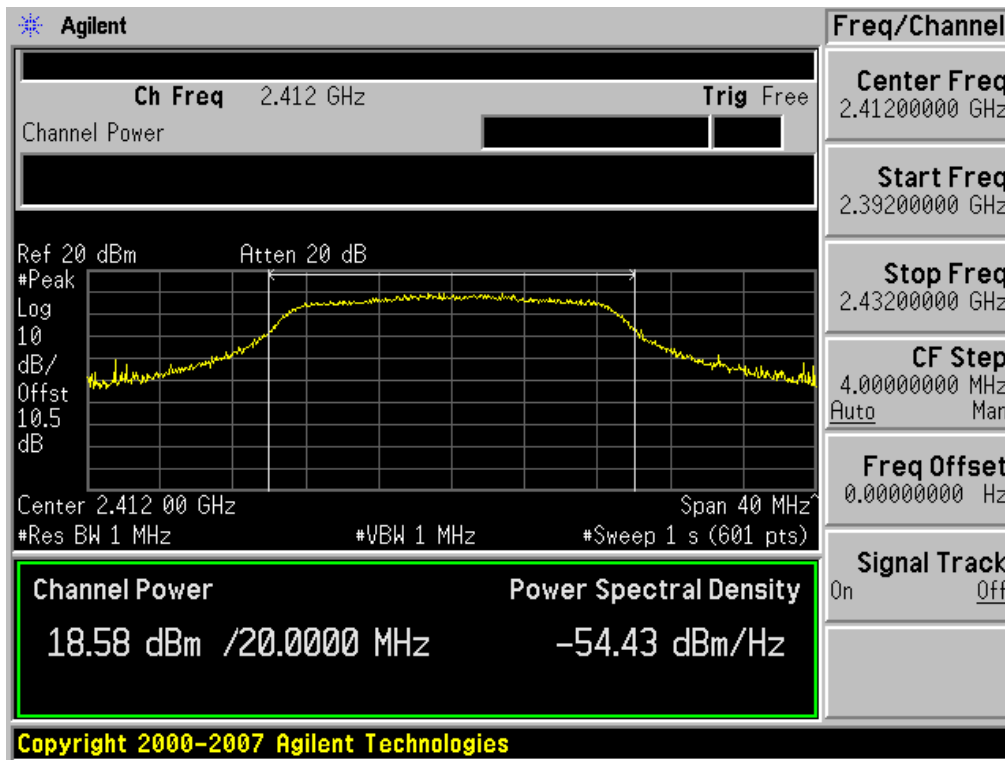
Conducted Output Power (802.11n-CH 1) 6.5Mbps



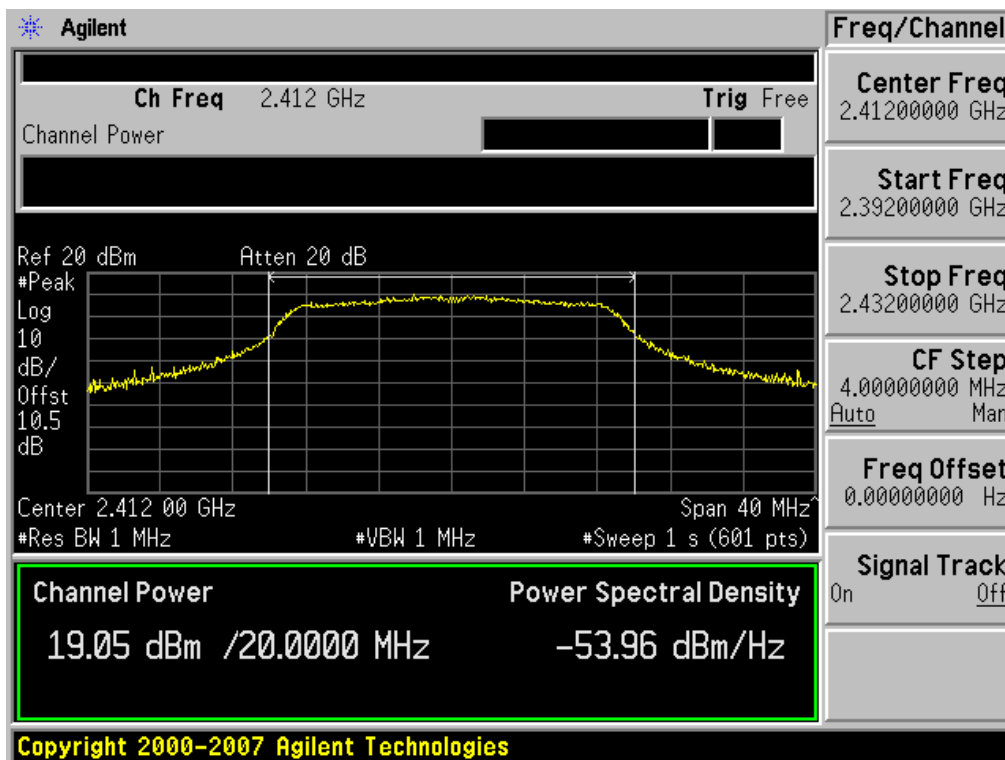
Conducted Output Power (802.11n-CH 1) 13Mbps



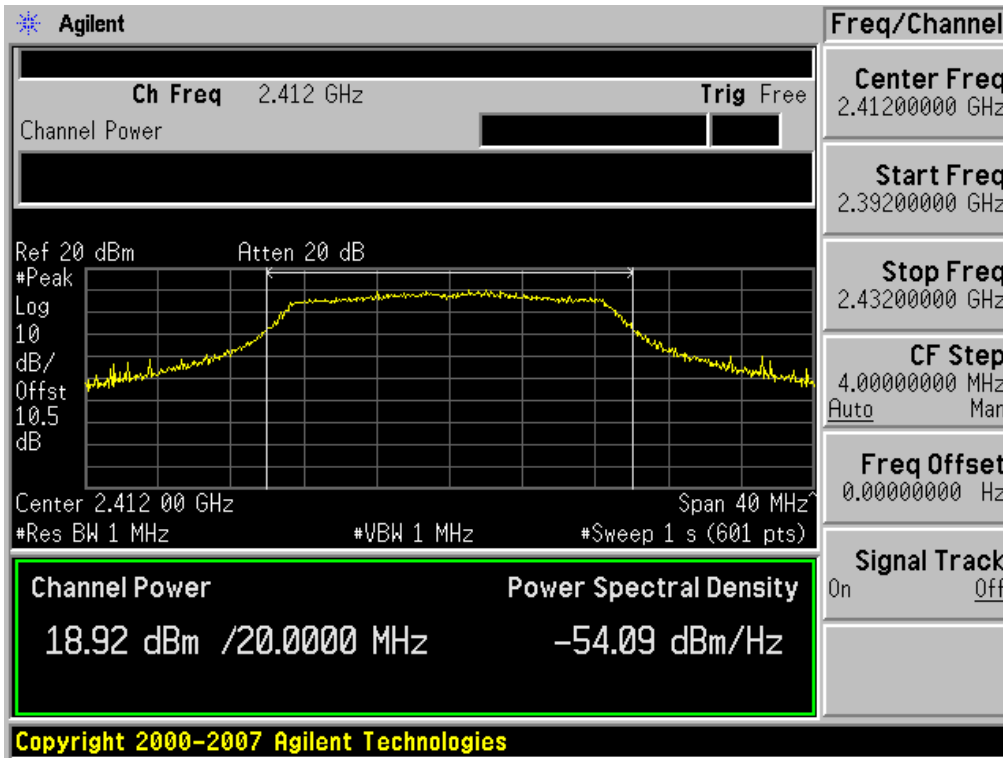
Conducted Output Power (802.11n-CH 1) 19.5Mbps



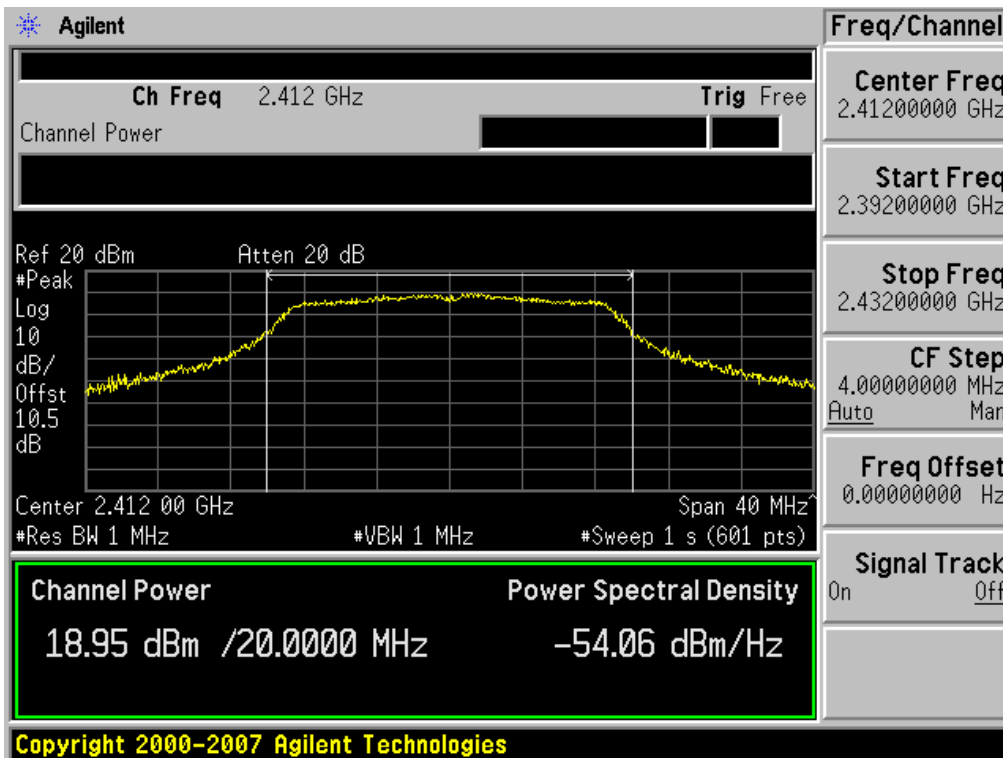
Conducted Output Power (802.11n-CH 1) 26Mbps



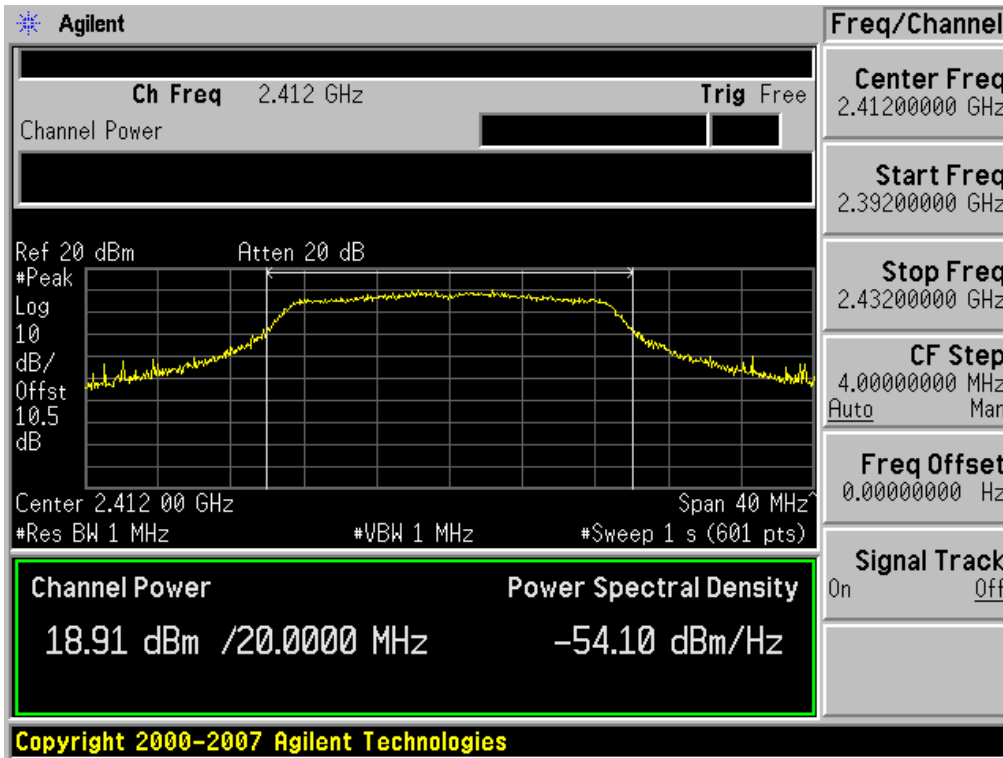
Conducted Output Power (802.11n-CH 1) 39Mbps



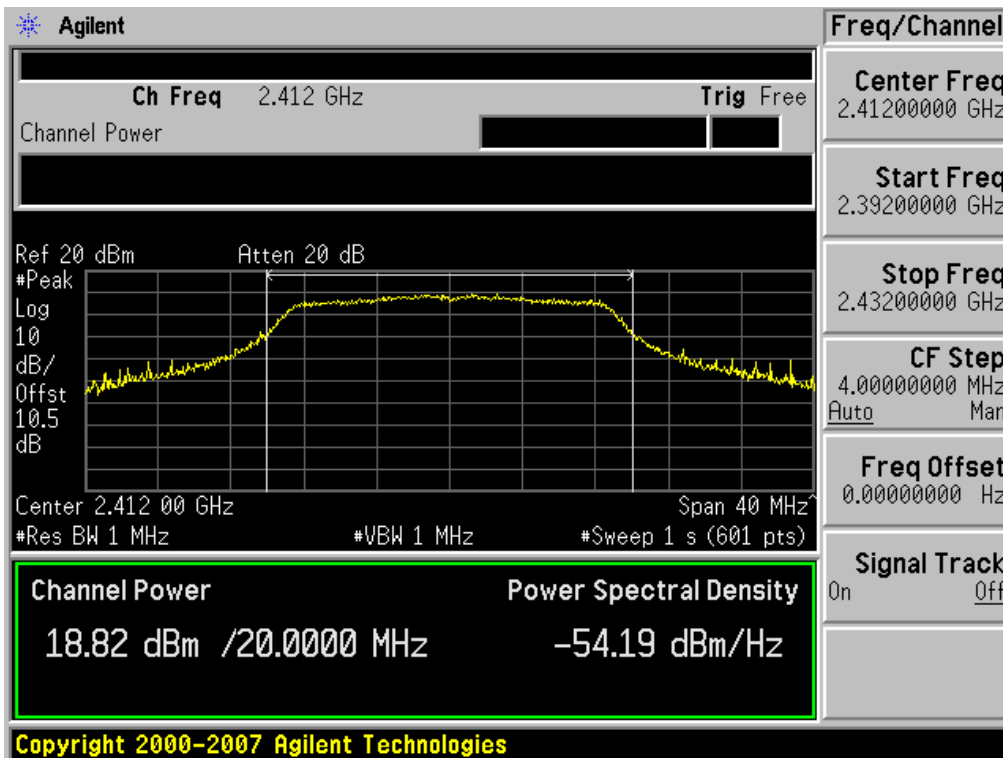
Conducted Output Power (802.11n-CH 1) 52Mbps



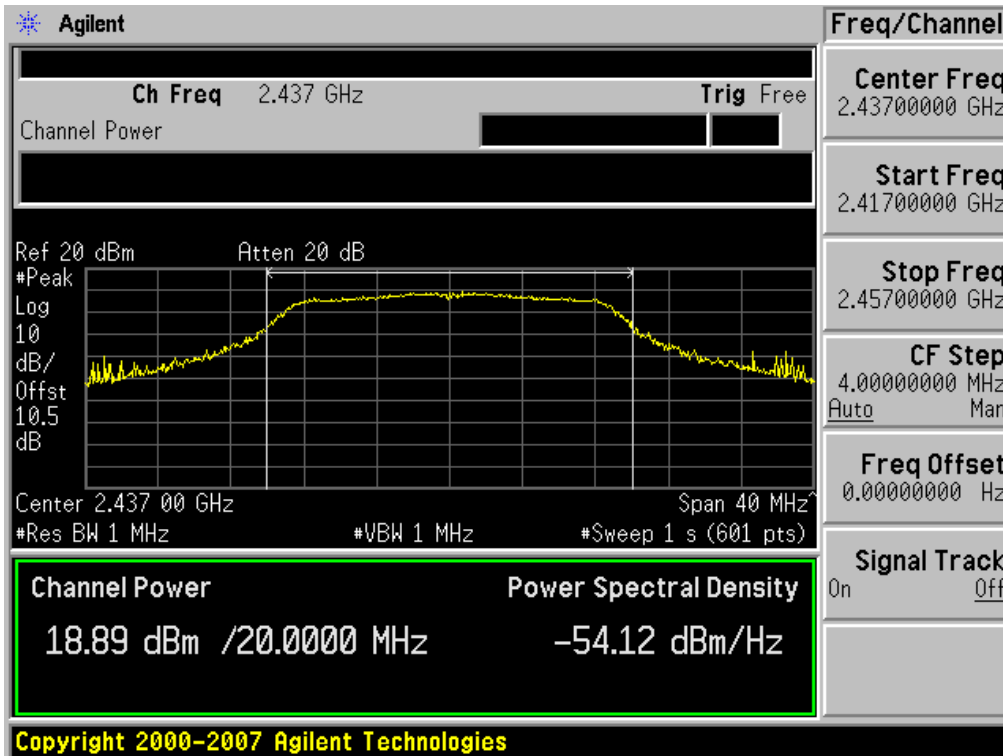
Conducted Output Power (802.11n-CH 1) 58.5Mbps



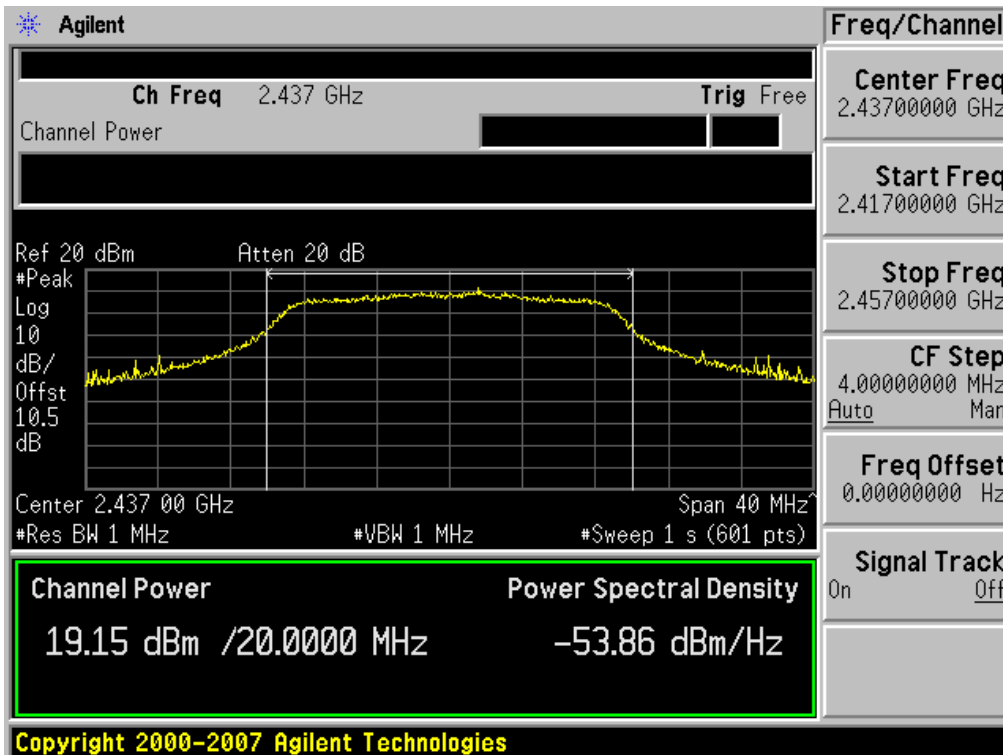
Conducted Output Power (802.11n-CH 1) 65Mbps



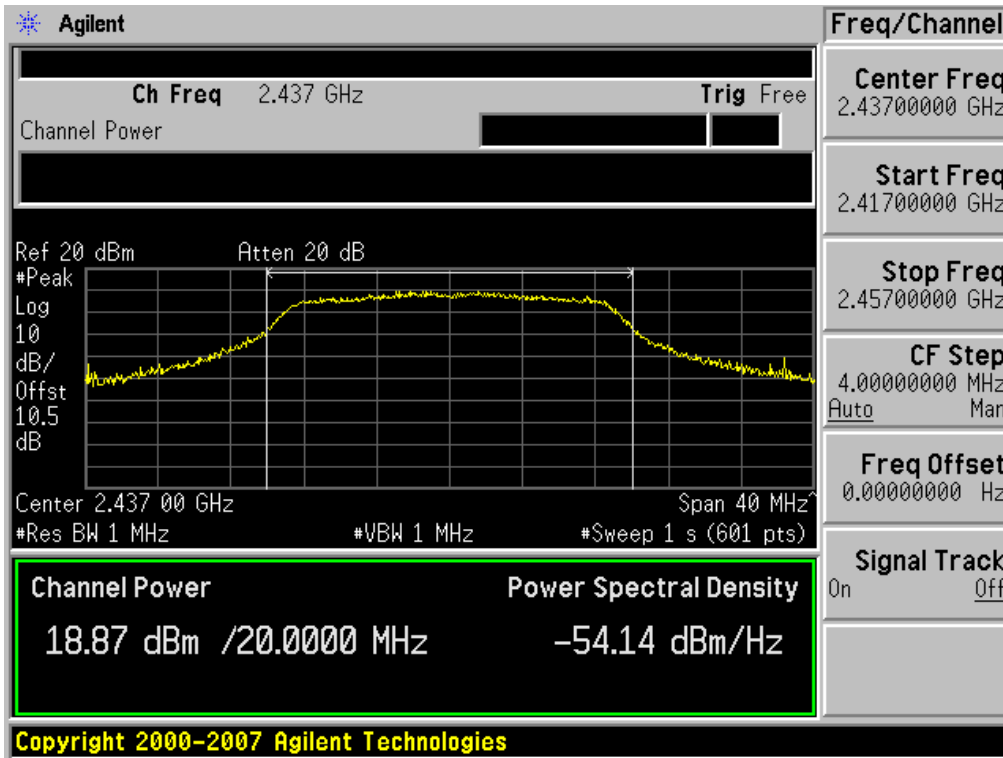
Conducted Output Power (802.11n-CH 6) 6.5Mbps



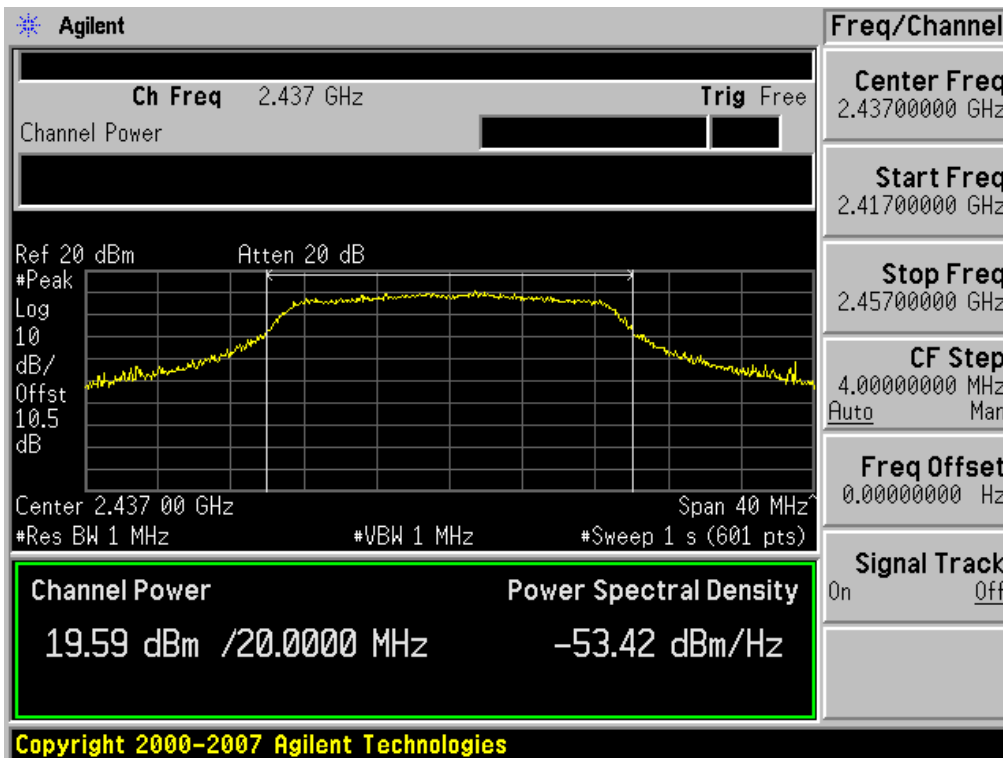
Conducted Output Power (802.11n-CH 6) 13Mbps



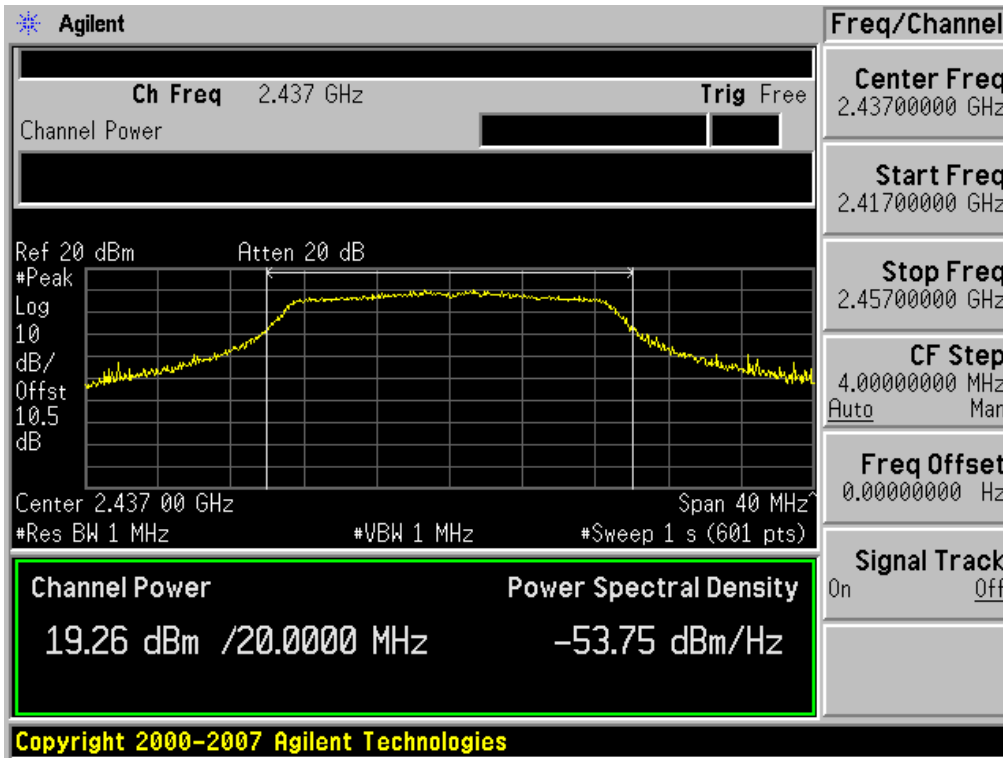
Conducted Output Power (802.11n-CH 6) 19.5Mbps



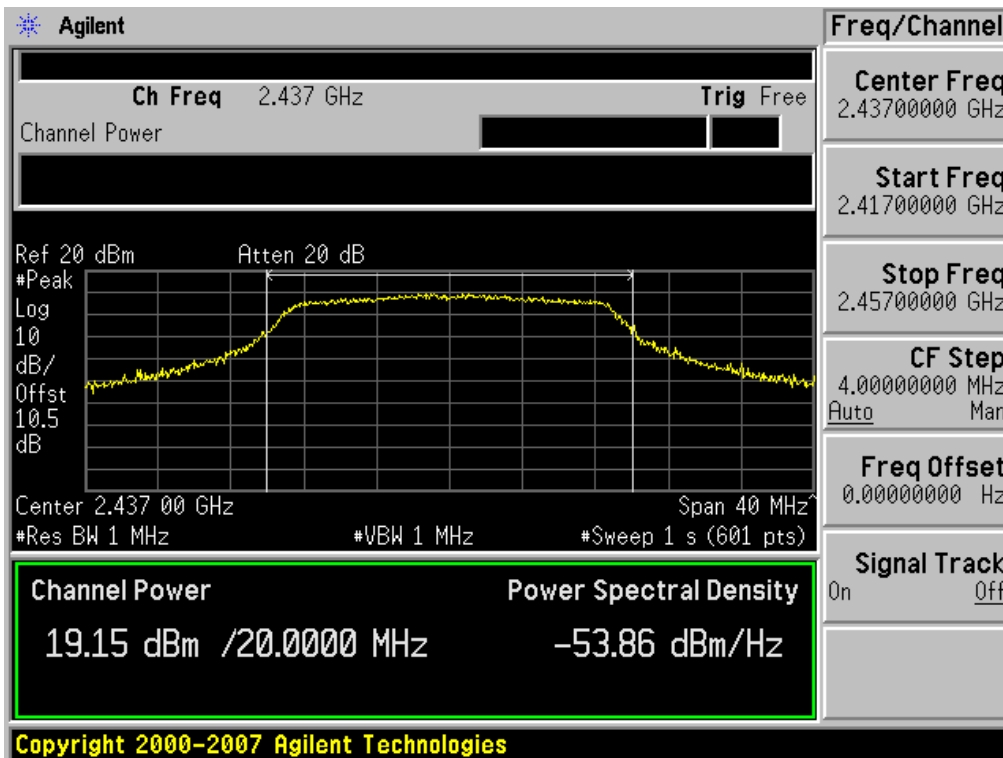
Conducted Output Power (802.11n-CH 6) 26Mbps



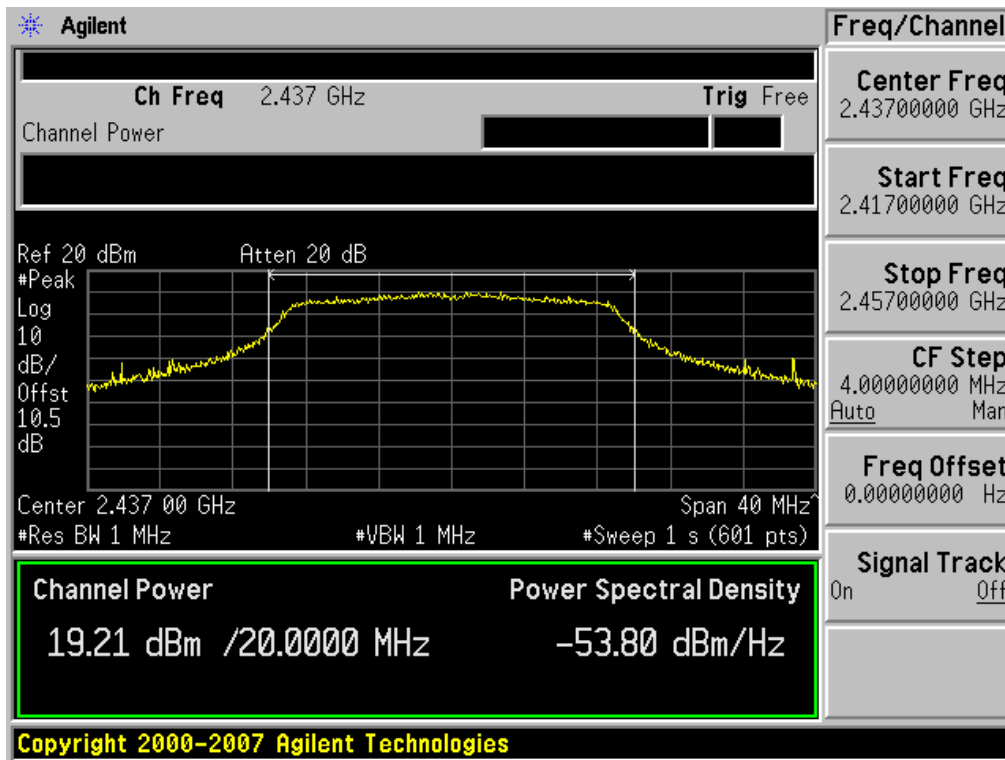
Conducted Output Power (802.11n-CH 6) 39Mbps



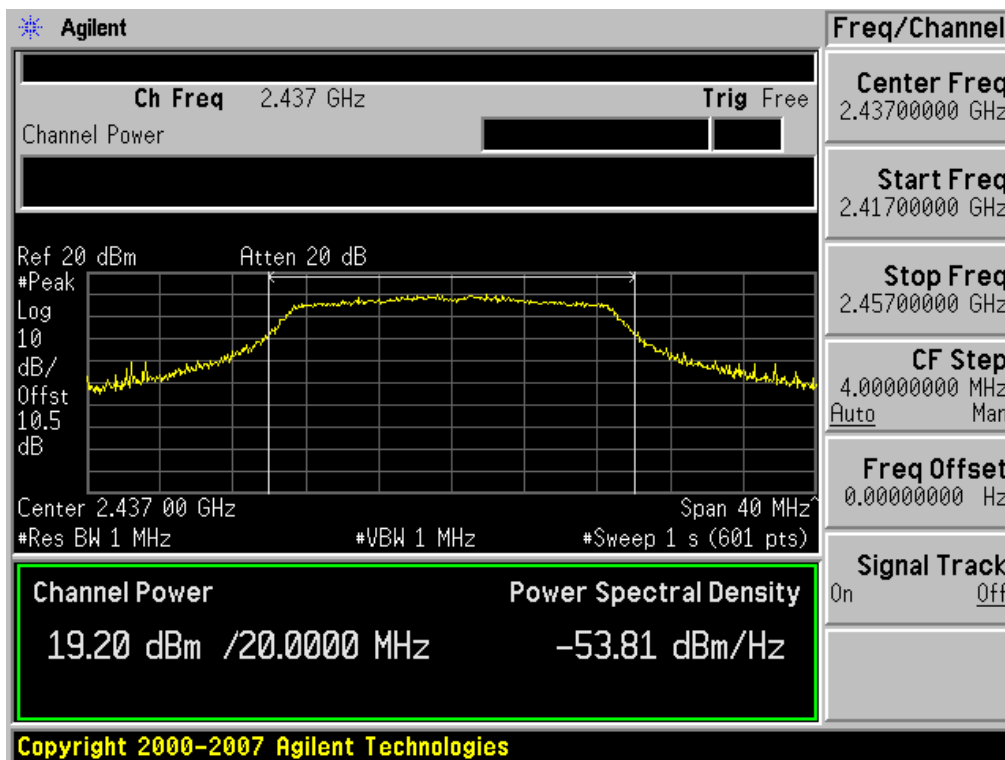
Conducted Output Power (802.11n-CH 6) 52Mbps



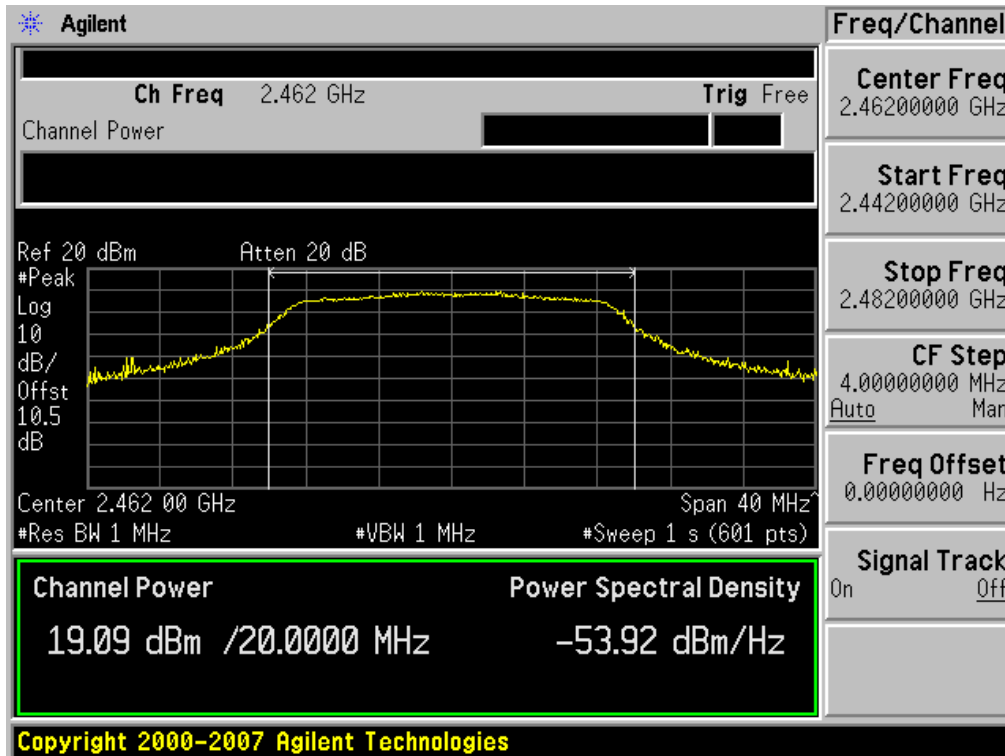
Conducted Output Power (802.11n-CH 6) 58.5Mbps



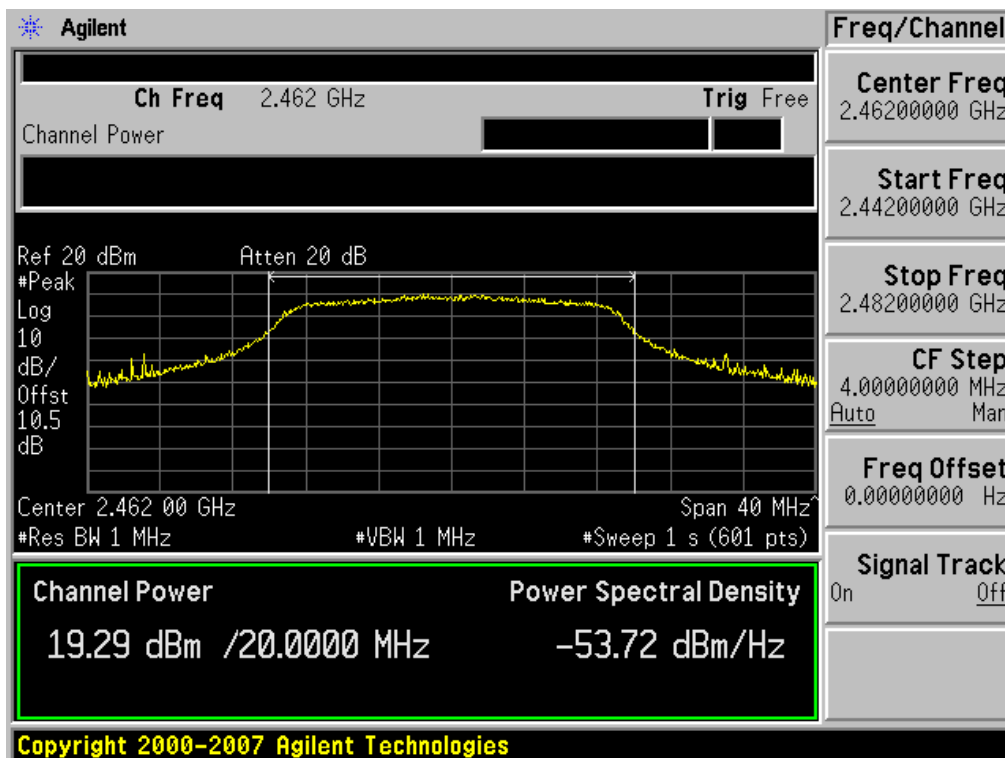
Conducted Output Power (802.11n-CH 6) 65Mbps



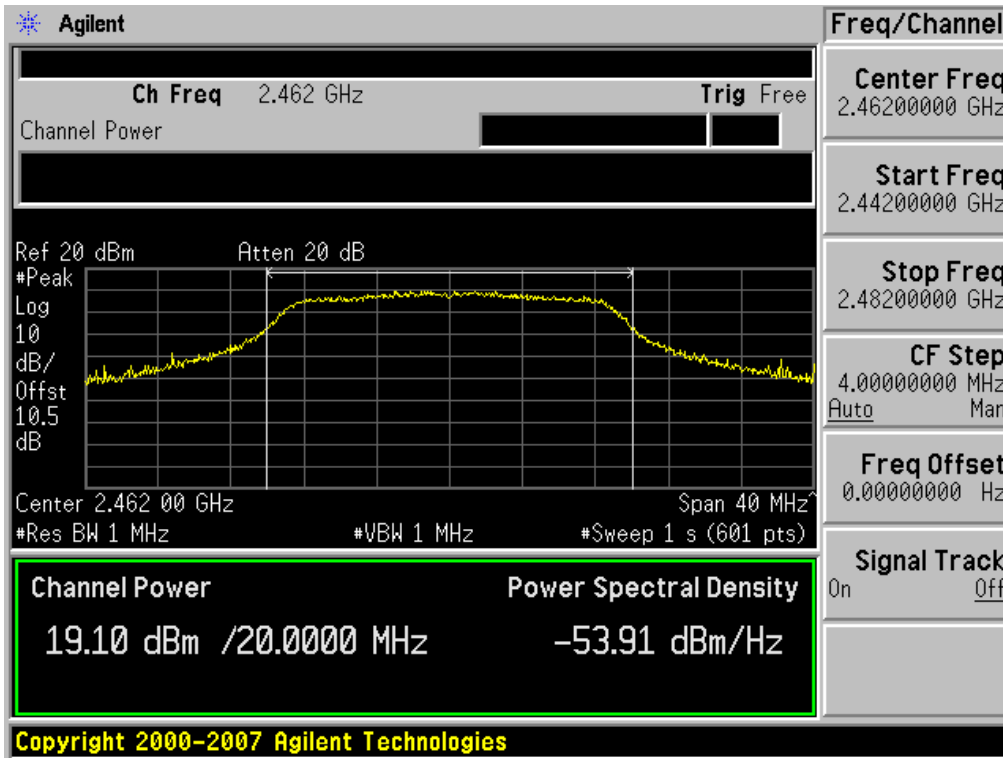
Conducted Output Power (802.11n-CH 11) 6.5Mbps



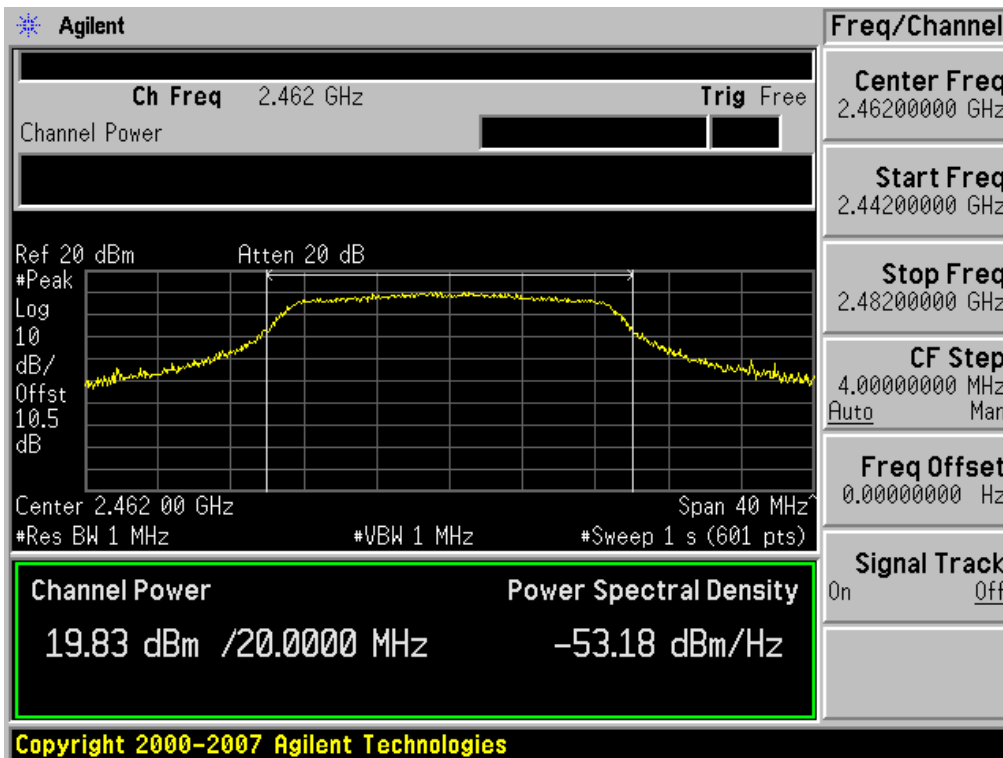
Conducted Output Power (802.11n-CH 11) 13Mbps



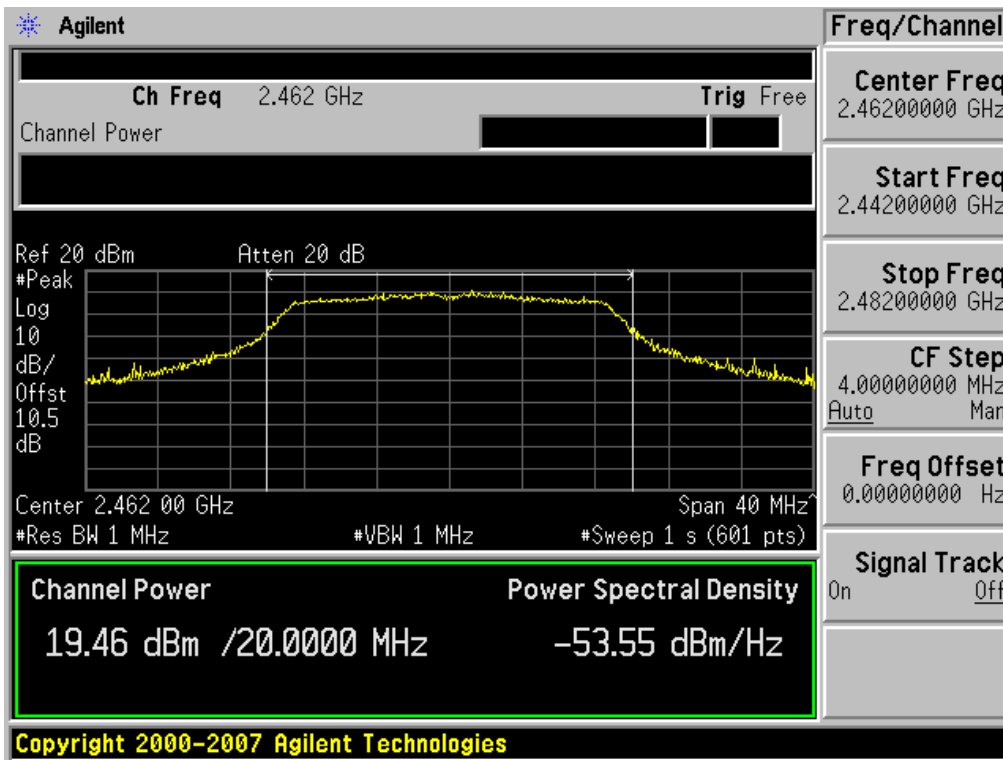
Conducted Output Power (802.11n-CH 11) 19.5Mbps



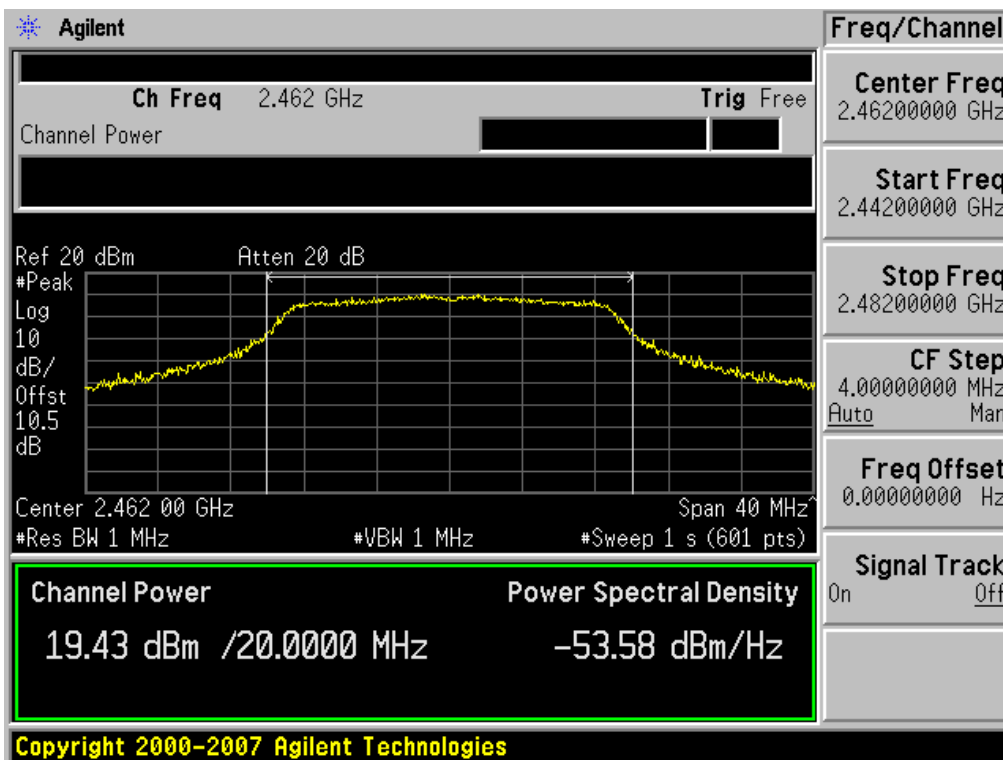
Conducted Output Power (802.11n-CH 11) 26Mbps



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



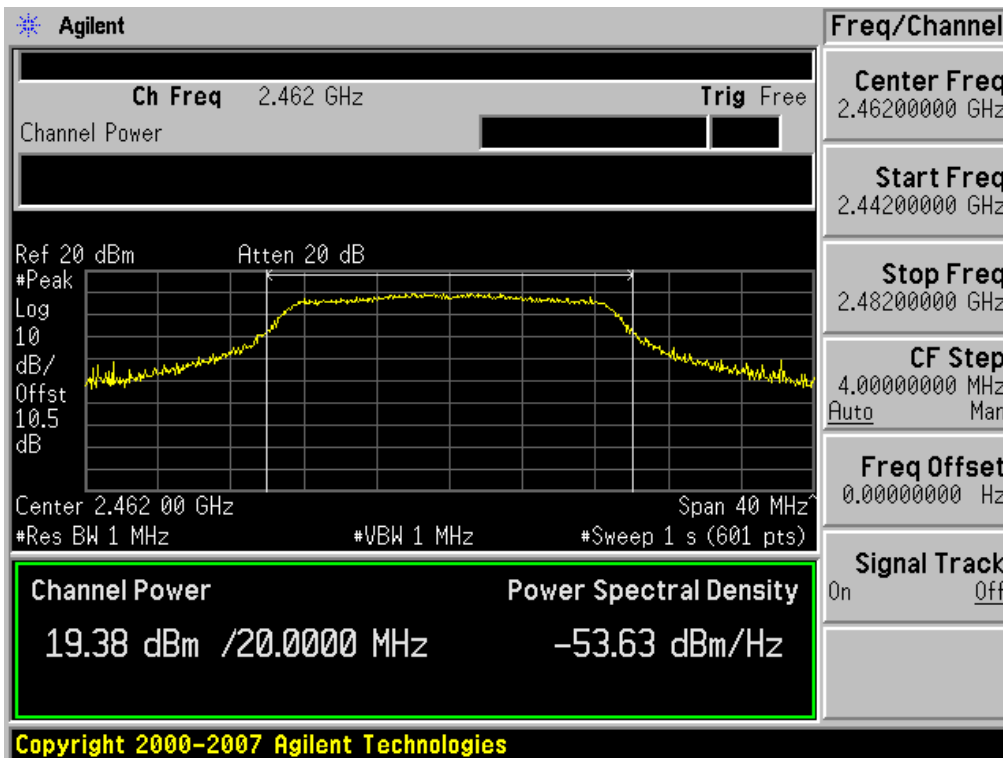
Conducted Output Power (802.11n-CH 11) 52Mbps



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



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



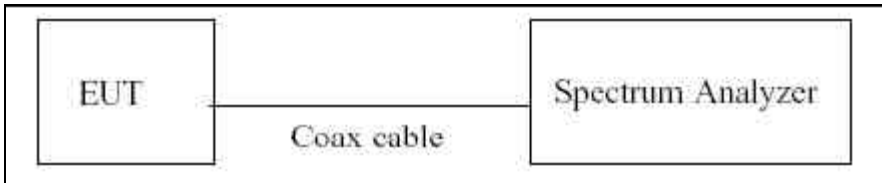
7.3 POWER SPECTRAL DENSITY (802.11b/g/n)

Test Requirements and limit, §15.247(e)

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

Minimum Standard – The transmitter power density average over 1-second interval shall not be greater than 8dBm in any 3kHz BW.

■ TEST CONFIGURATION



■ TEST PROCEDURE

The spectrum analyzer is set to :

1. Span = 300 kHz
2. RBW = 3 kHz (7dB/div)
3. VBW = 3 kHz
4. Sweep = 100 sec
5. Detector Mode = Peak

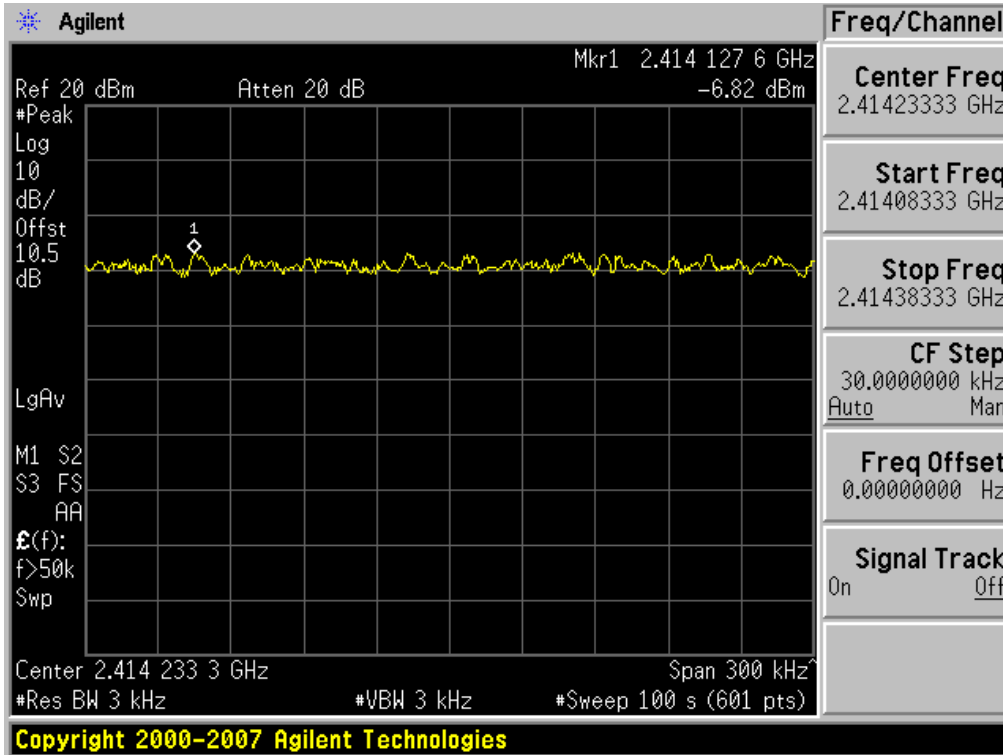
■ TEST RESULTS

Conducted Power Density Measurements

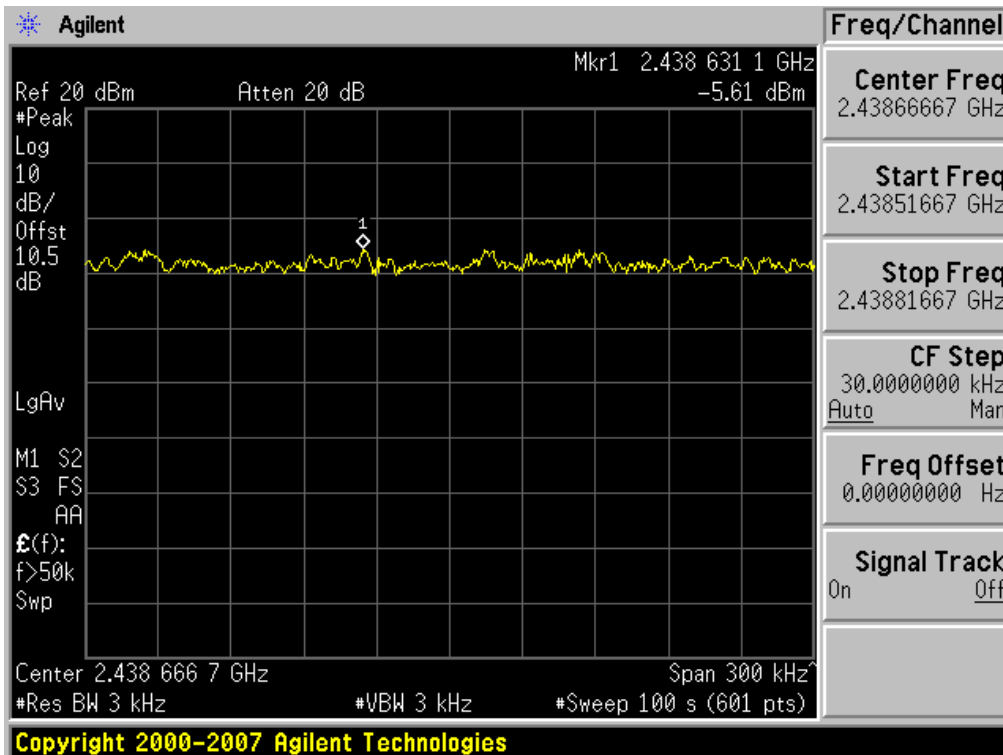
| Frequency (MHz) | Channel No. | Mode | Test Result | |
|-----------------|-------------|---------|---------------------|-----------|
| | | | Power Density (dBm) | Pass/Fail |
| 2412 | 1 | 802.11b | -6.82 | Pass |
| 2437 | 6 | | -5.61 | Pass |
| 2462 | 11 | | -5.49 | Pass |
| 2412 | 1 | 802.11g | -10.66 | Pass |
| 2437 | 6 | | -10.85 | Pass |
| 2462 | 11 | | -10.72 | Pass |
| 2412 | 1 | 802.11n | -14.29 | Pass |
| 2437 | 6 | | -13.75 | Pass |
| 2462 | 11 | | -13.60 | Pass |

RESULT PLOTS

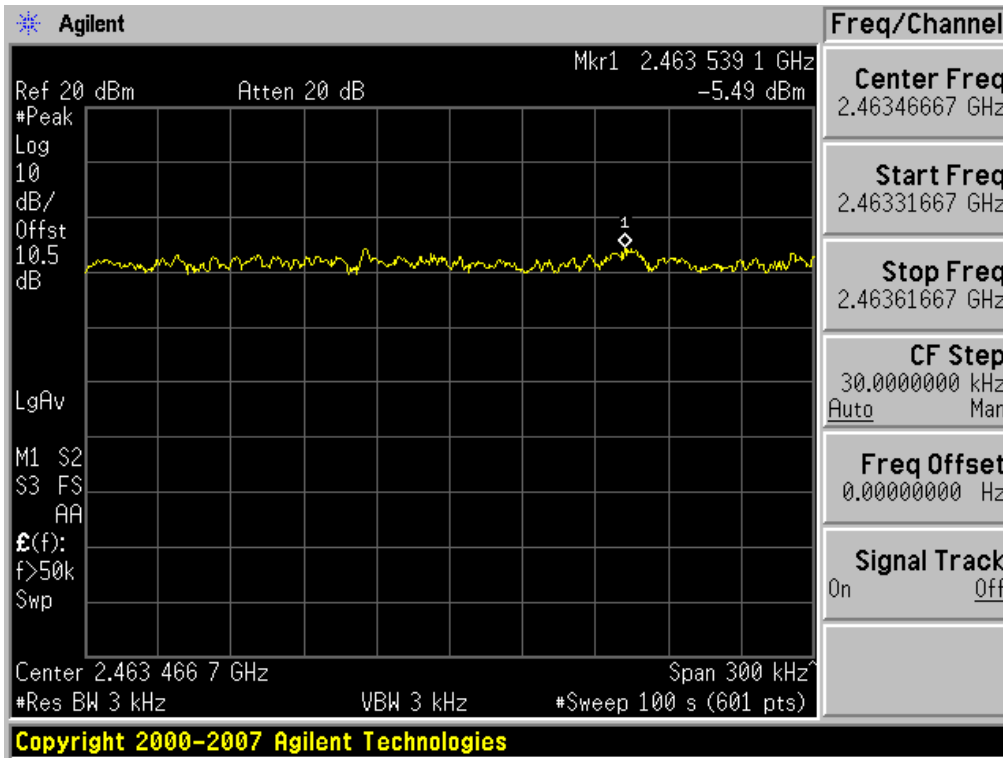
Power Spectral Density (802.11b-CH 1)



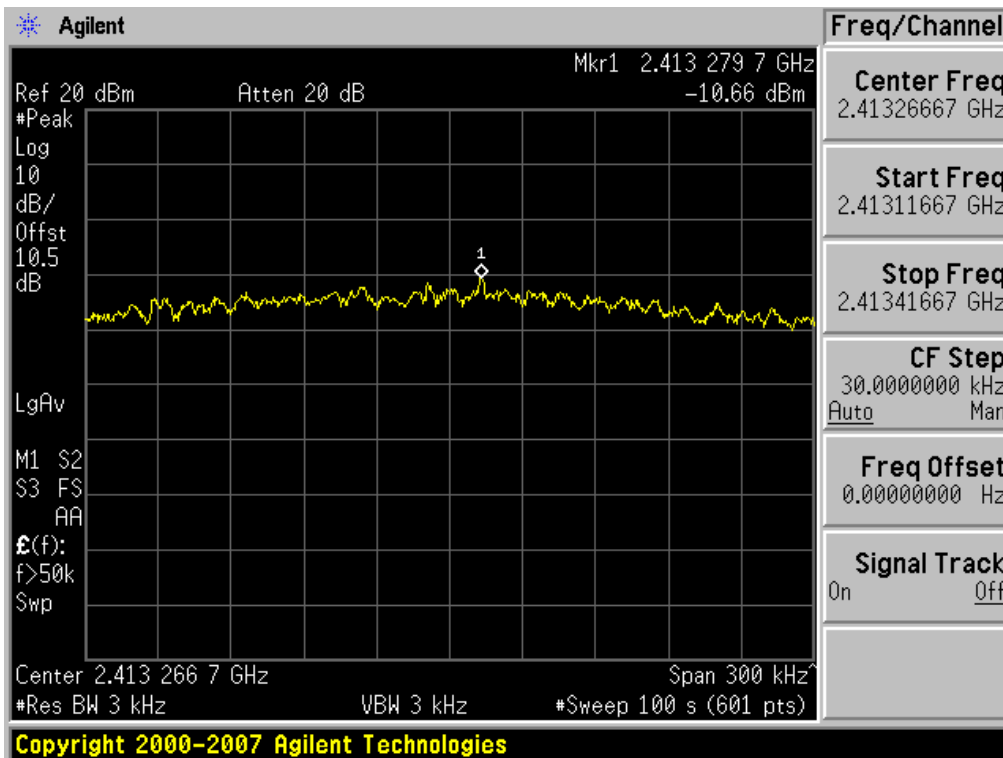
Power Spectral Density (802.11b-CH 6)



Power Spectral Density (802.11b-CH 11)

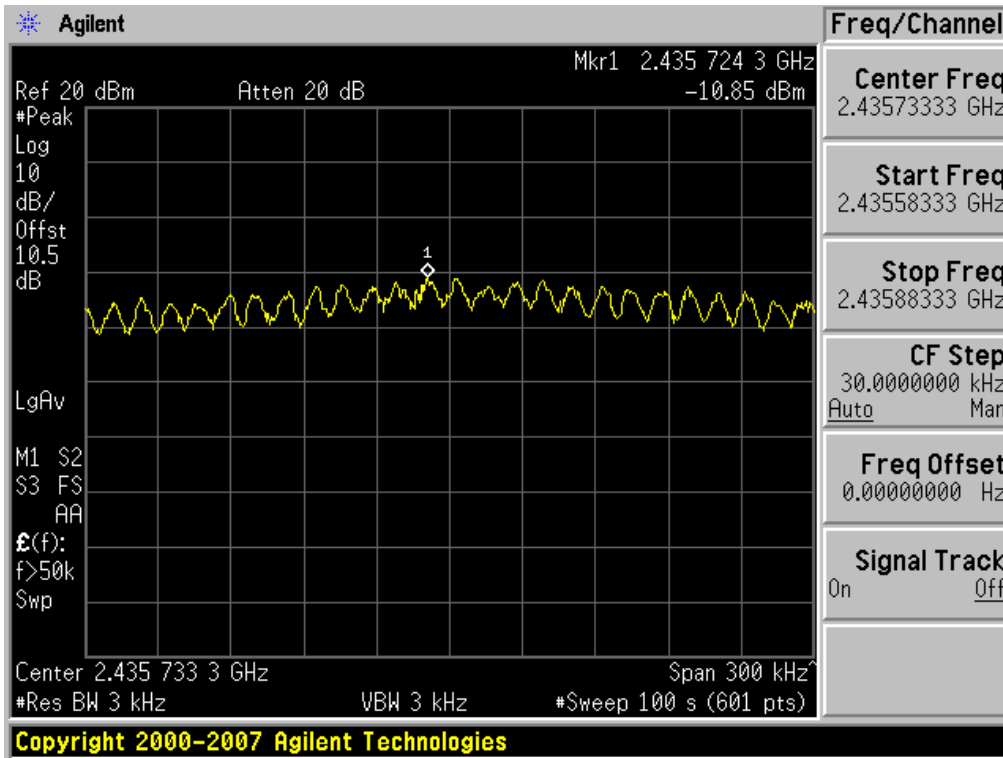


Power Spectral Density (802.11g-CH 1)

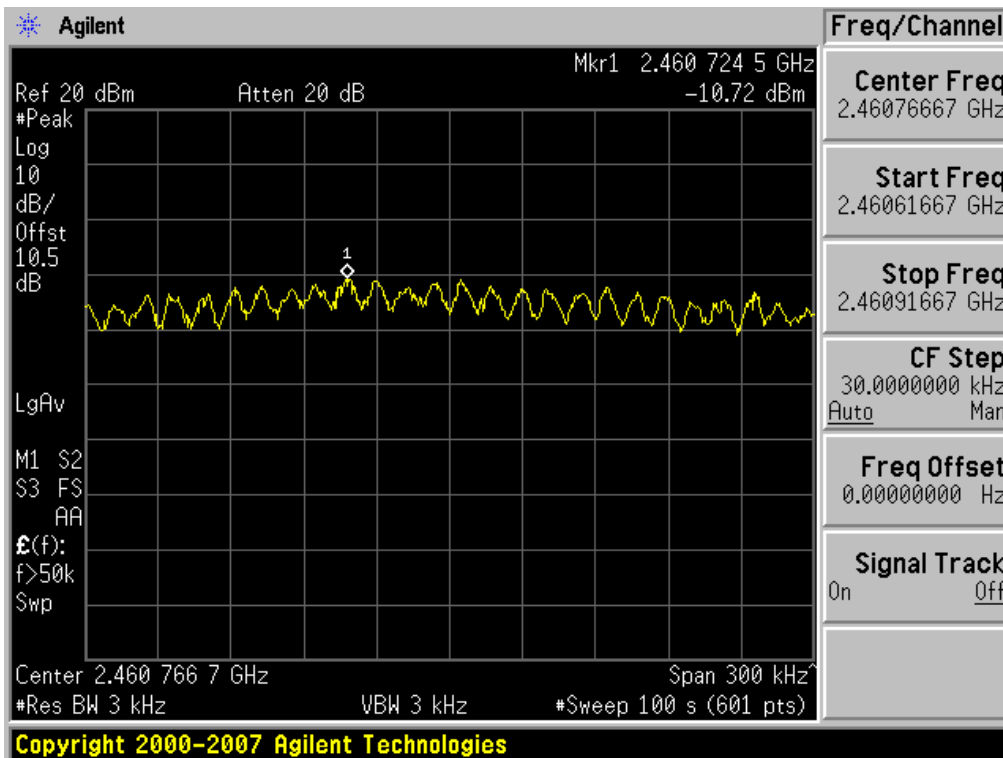


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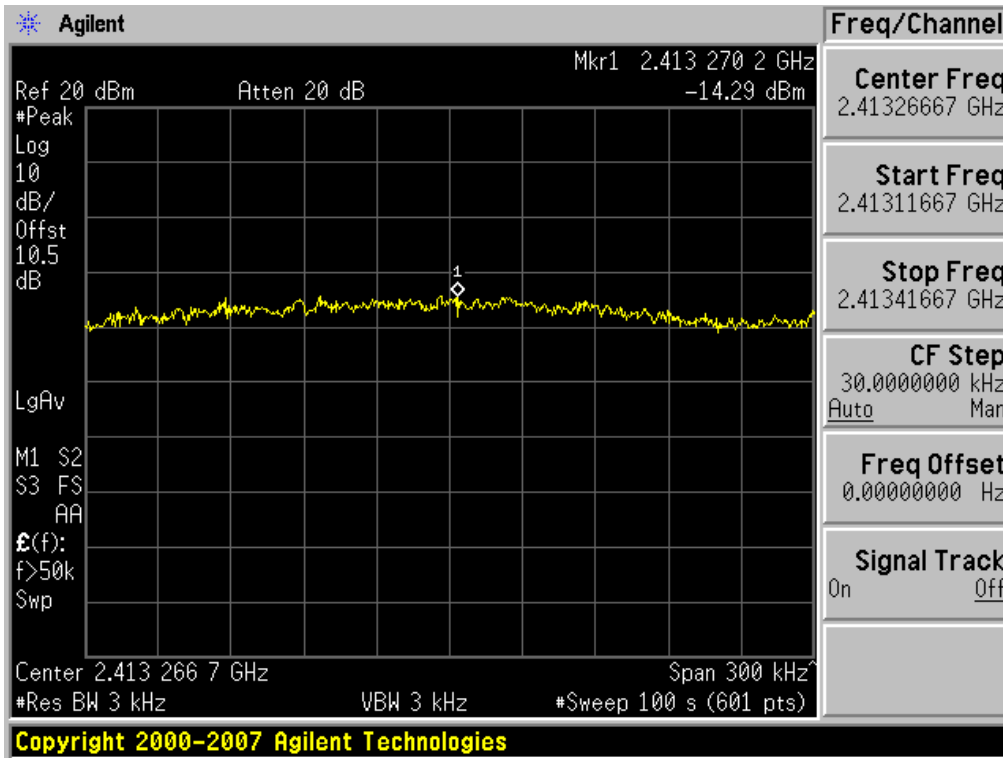
Power Spectral Density (802.11g-CH 6)



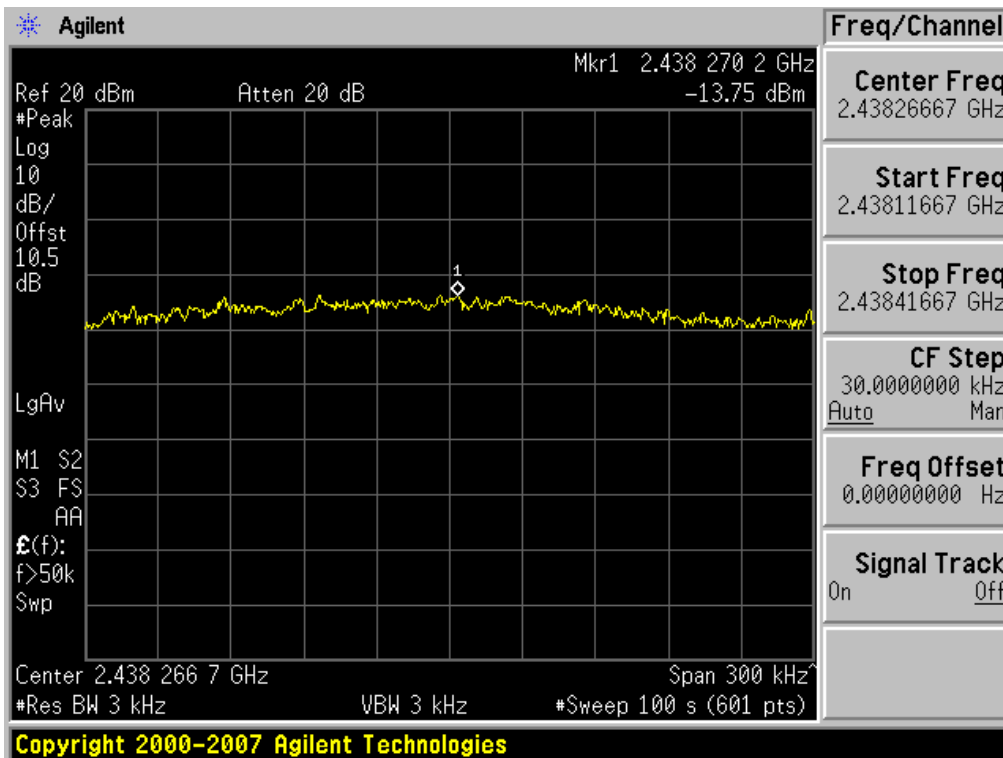
Power Spectral Density (802.11g-CH11)



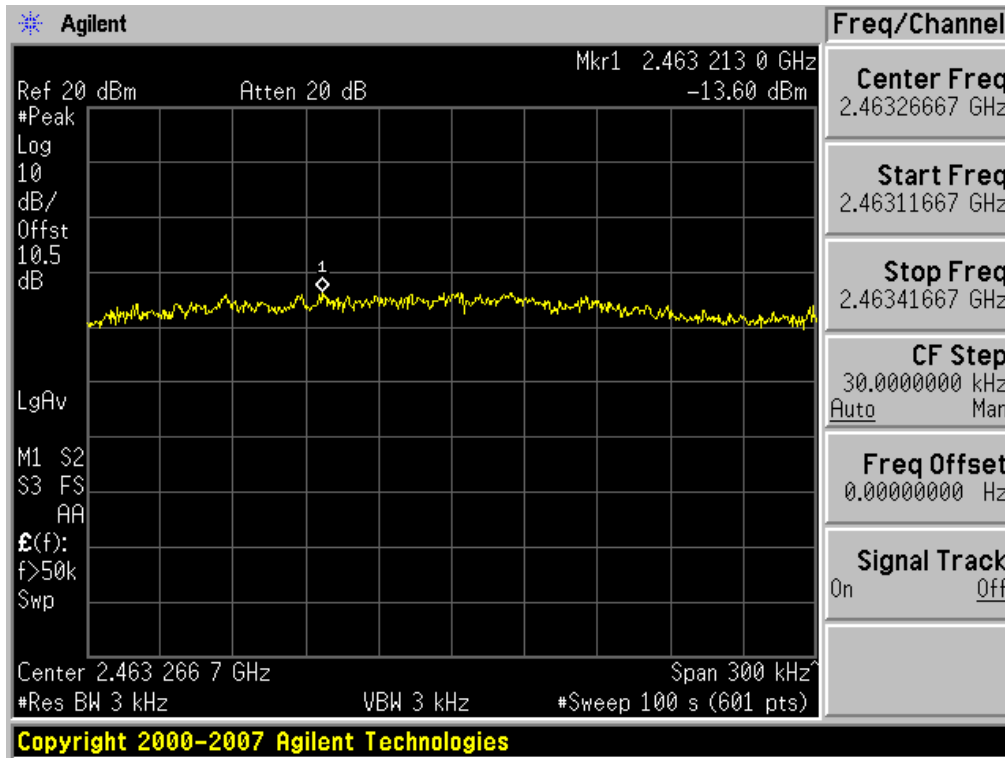
Power Spectral Density (802.11n-CH 1)



Power Spectral Density (802.11n-CH 6)



Power Spectral Density (802.11n-CH11)



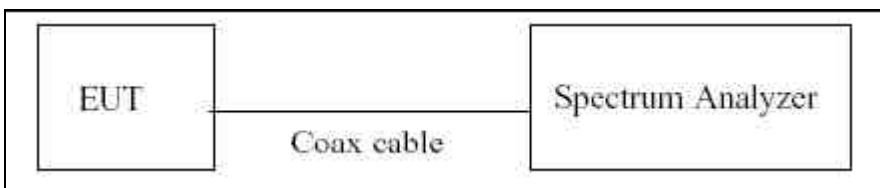
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7.4 OUT OF BAND EMISSIONS AT THE BAND EDGE/ CONDUCTED SPURIOUS EMISSIONS

Test Requirements and limit, §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

■ TEST CONFIGURATION



■ TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

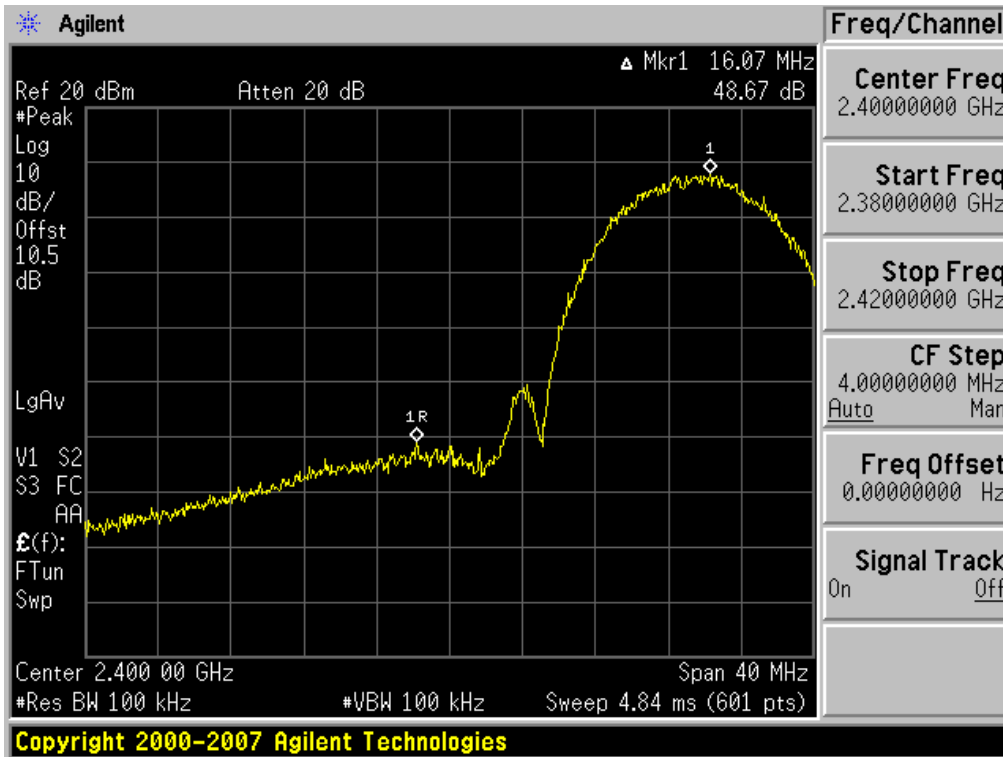
Detector Mode is set to a peak detector Mode.

Measurements are made over the 30 MHz to 26 GHz range with the transmitter set to the lowest, middle, and highest channels.

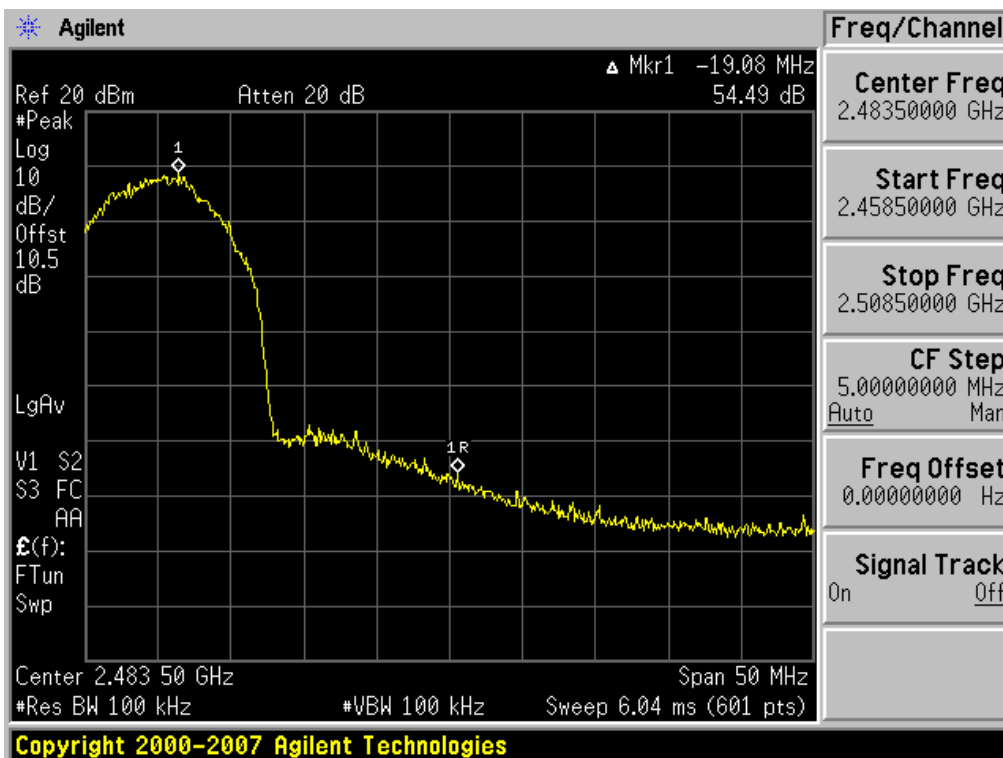
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RESULT PLOTS

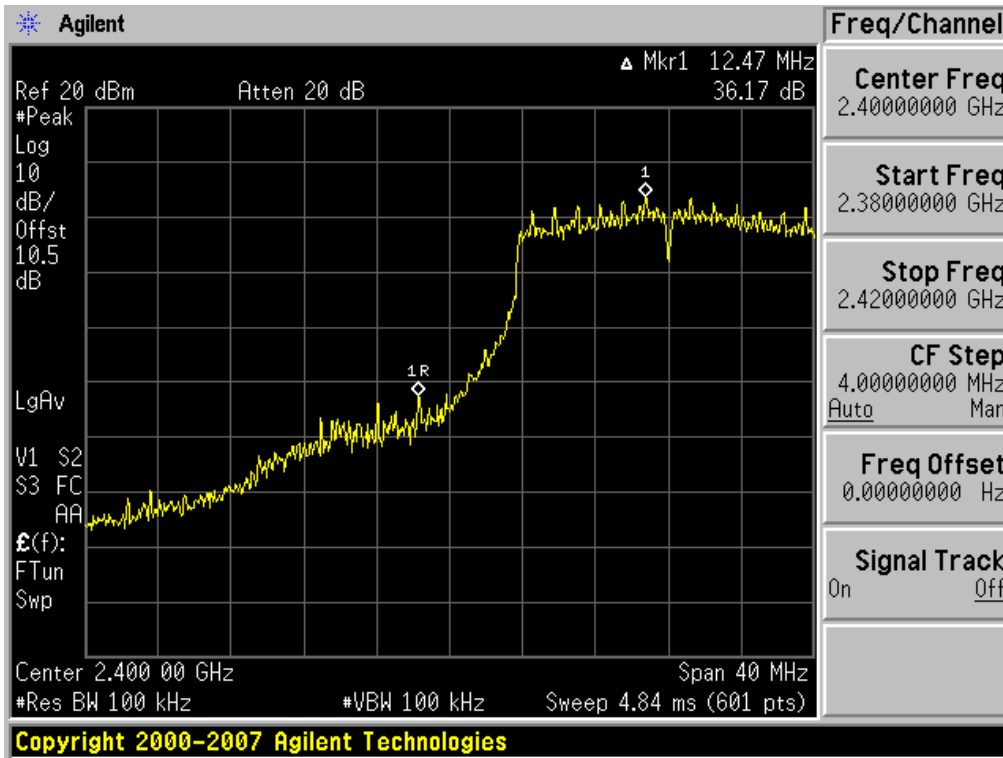
BandEdge (802.11b-CH1)



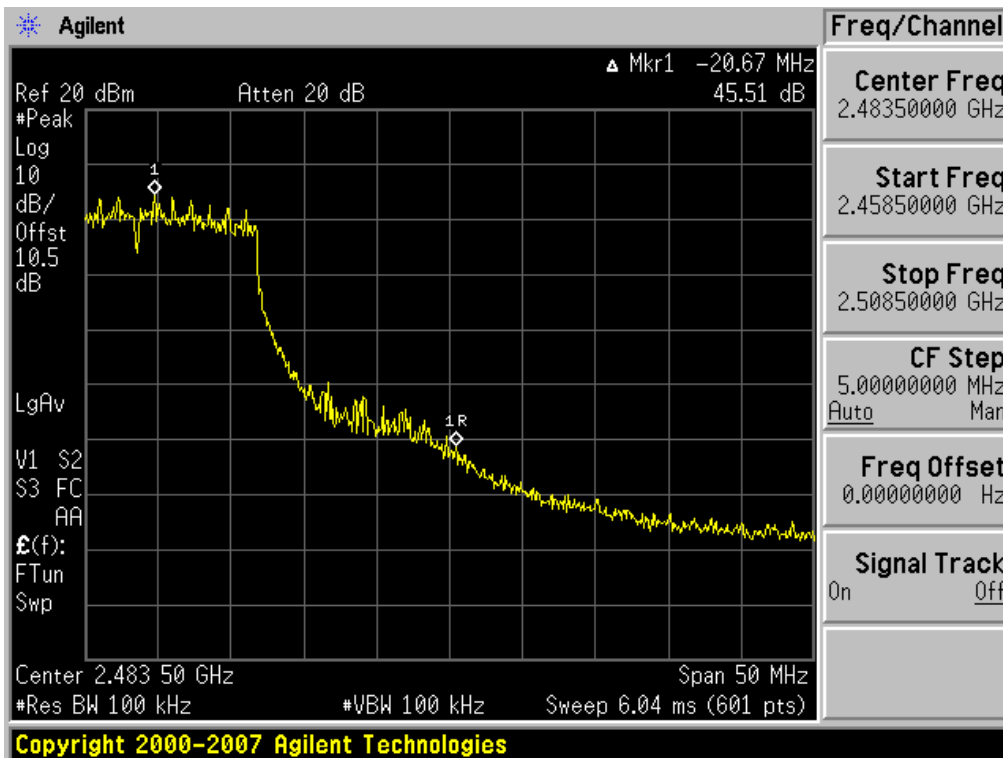
BandEdge (802.11b-CH11)



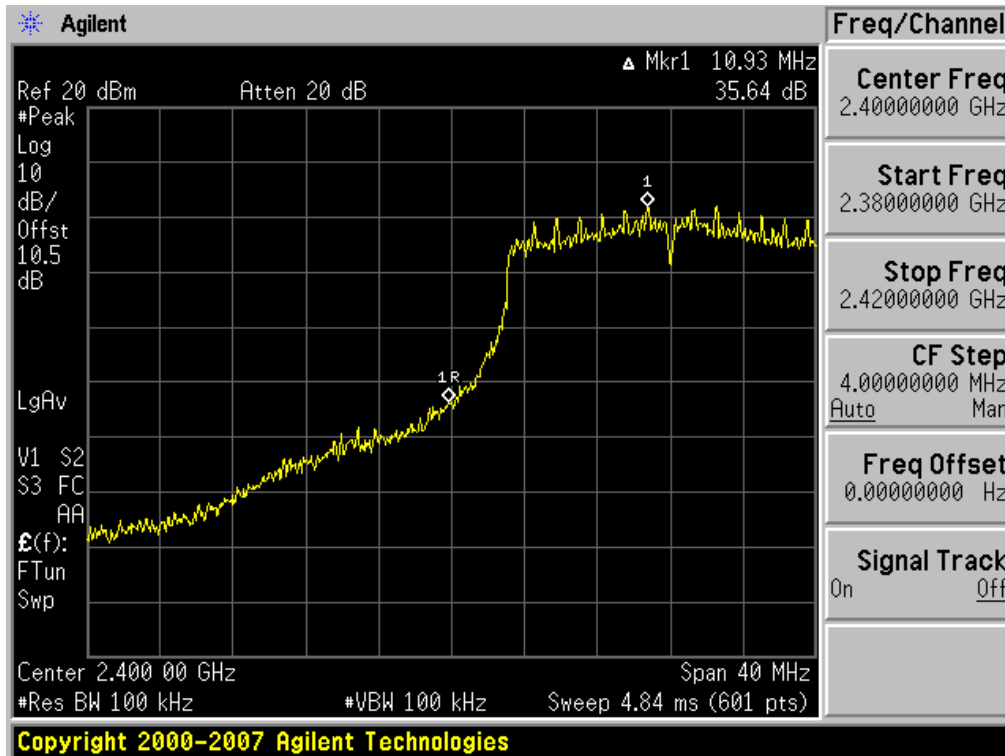
BandEdge (802.11g-CH1)



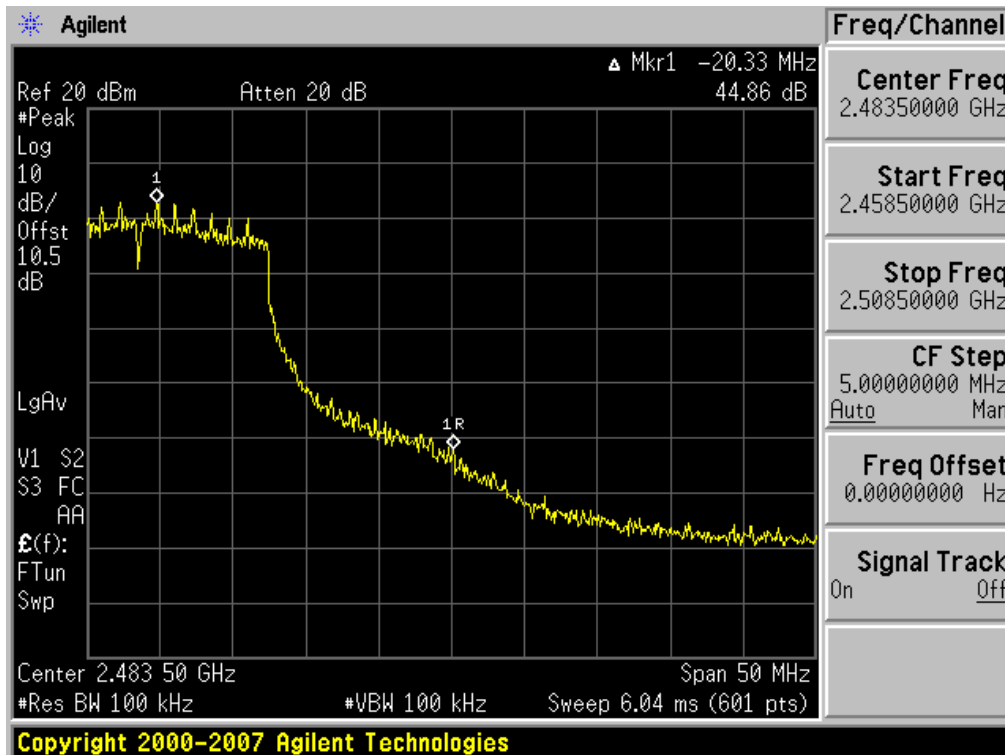
BandEdge (802.11g-CH11)



BandEdge (802.11n-CH1)

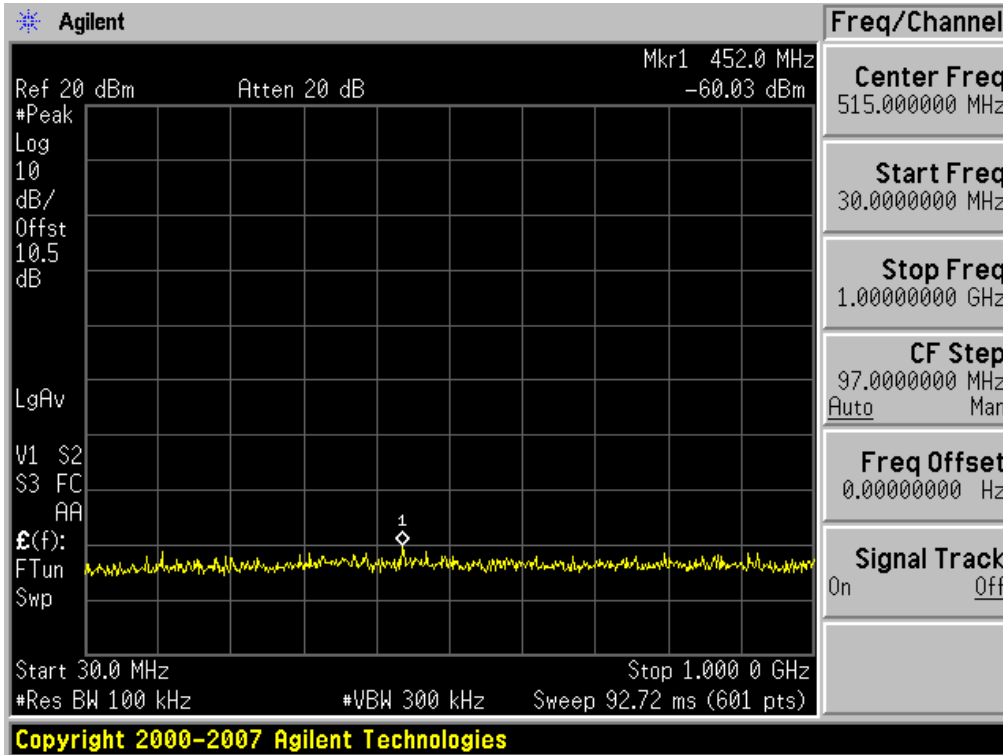


BandEdge (802.11n-CH11)

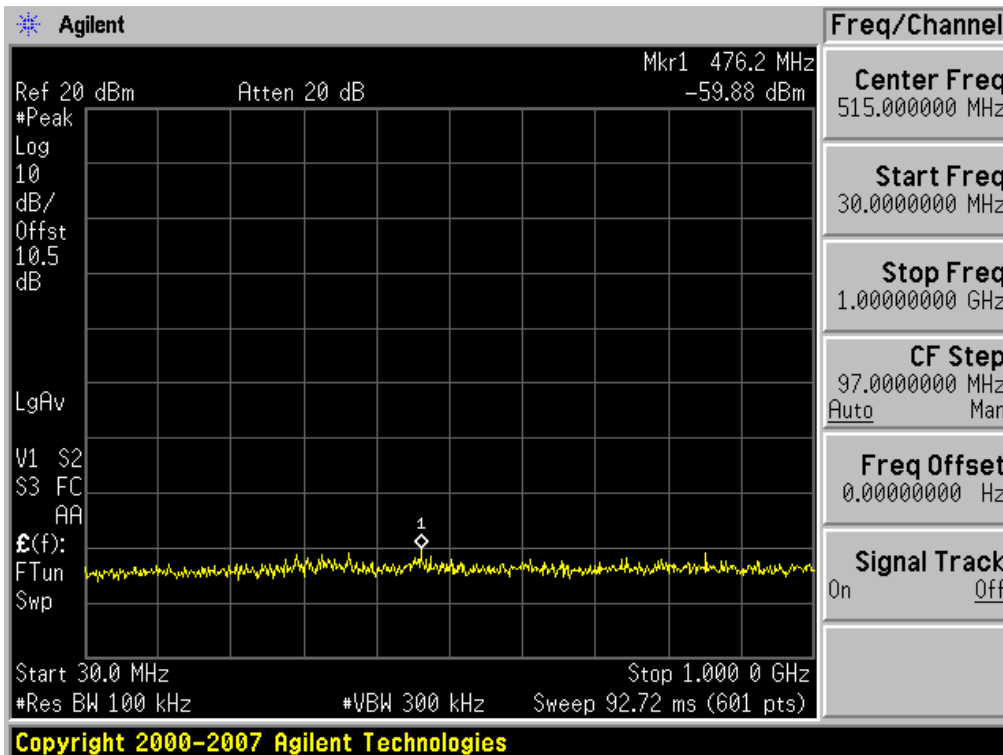


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| Test Report No. HCTR1106FR21 | Date of Issue: June 15, 2011 | EUT Type: CDMA/LTE Phone with Bluetooth & WLAN | FCC ID: JYCAPACHE |

Conducted Spurious Emission (802.11b-CH1)

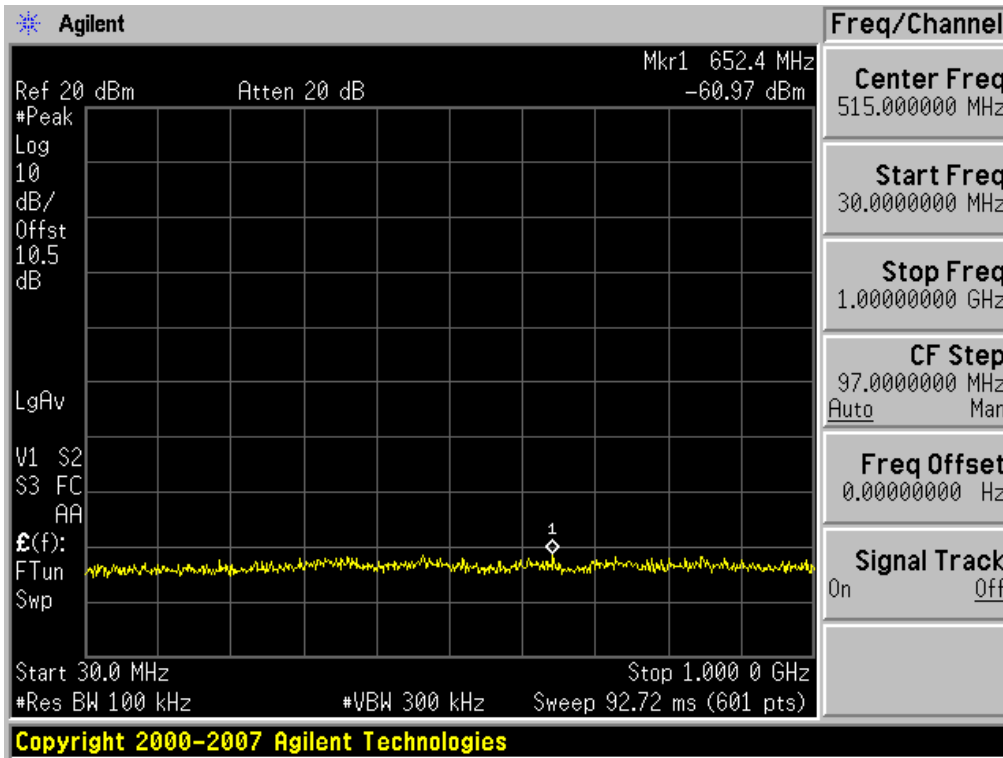


Conducted Spurious Emission (802.11b-CH6)

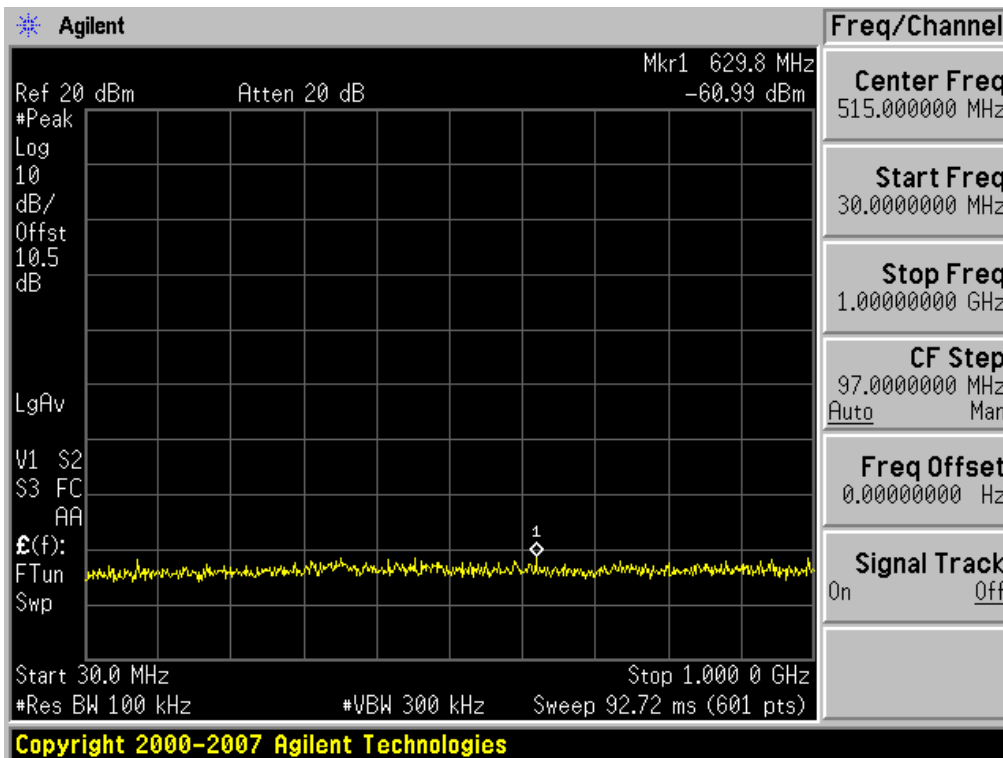


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| Test Report No. HCTR1106FR21 | Date of Issue: June 15, 2011 | EUT Type: CDMA/LTE Phone with Bluetooth & WLAN | FCC ID: JYCAPACHE |

Conducted Spurious Emission (802.11b-CH11)

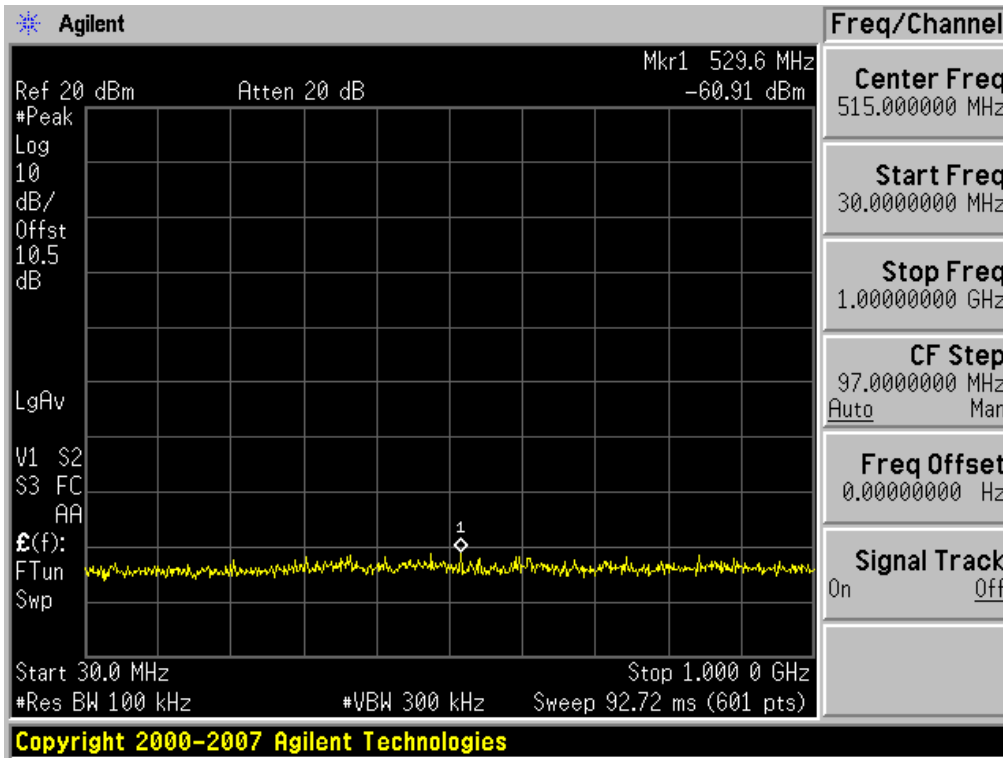


Conducted Spurious Emission (802.11g-CH1)

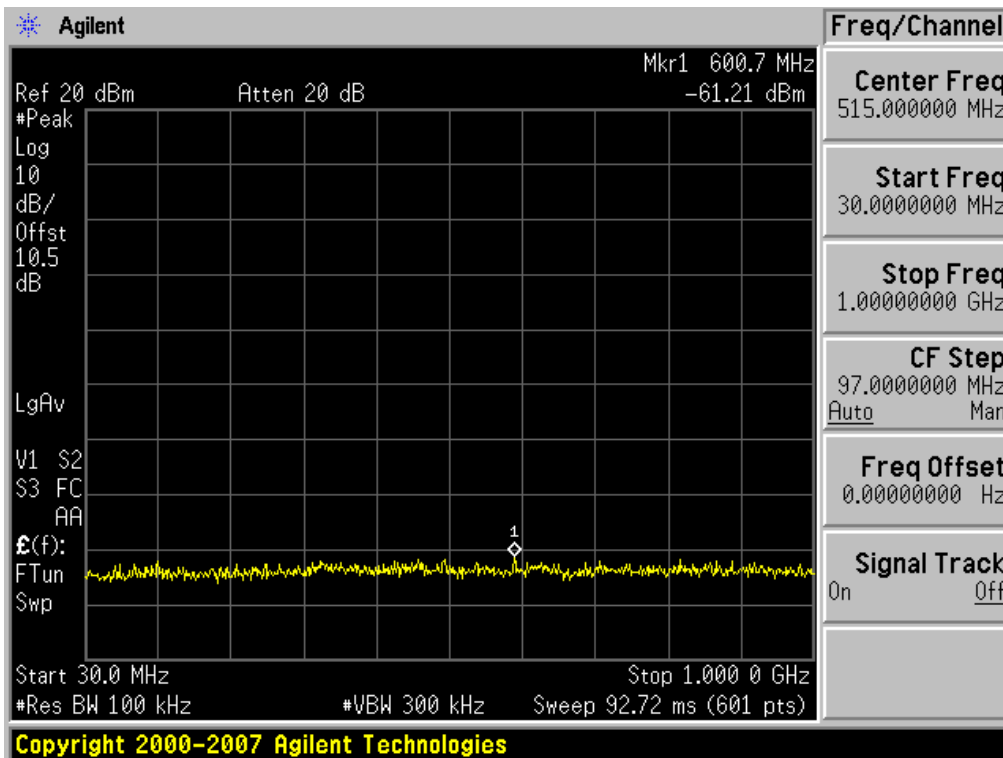


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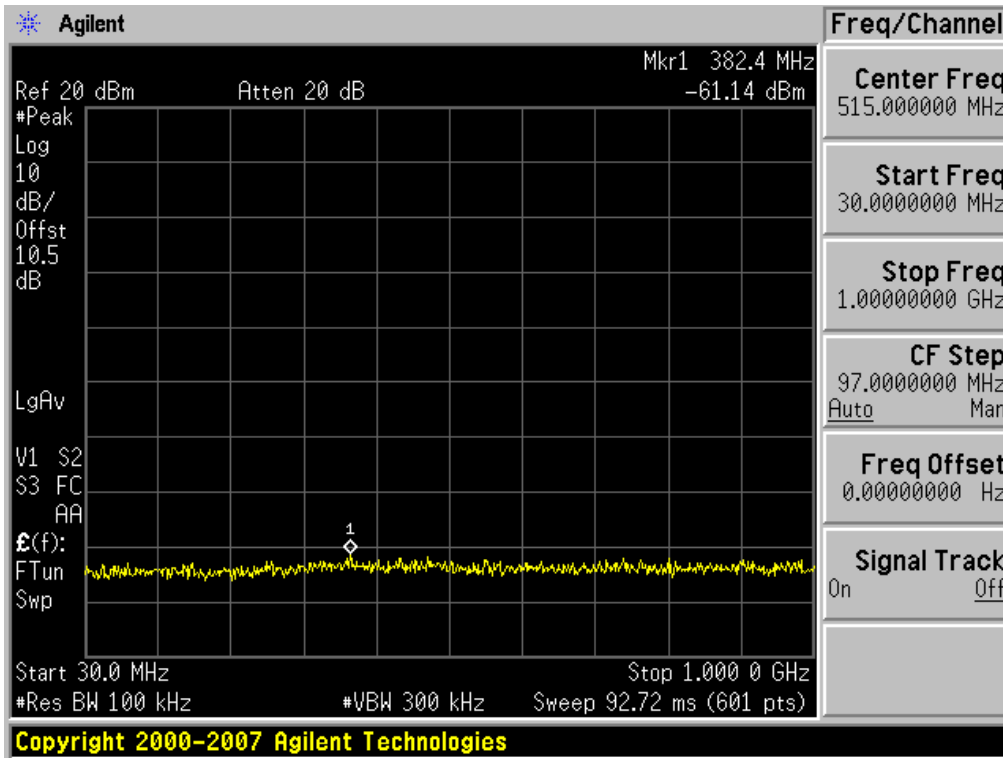
Conducted Spurious Emission (802.11g-CH6)



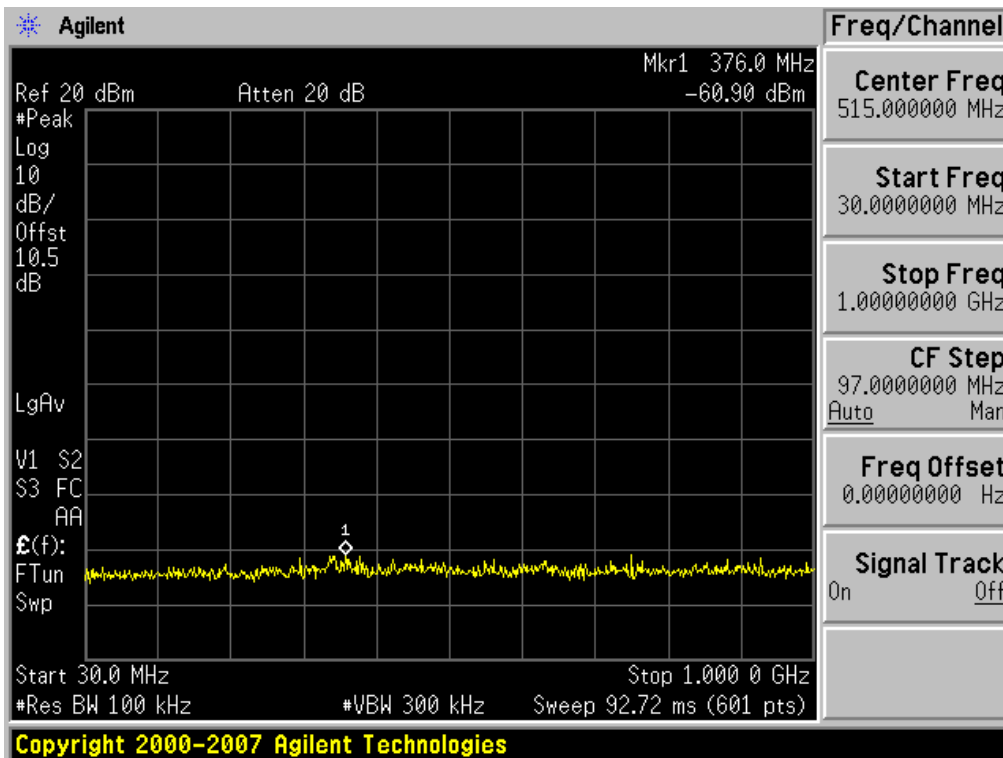
Conducted Spurious Emission (802.11g-CH11)



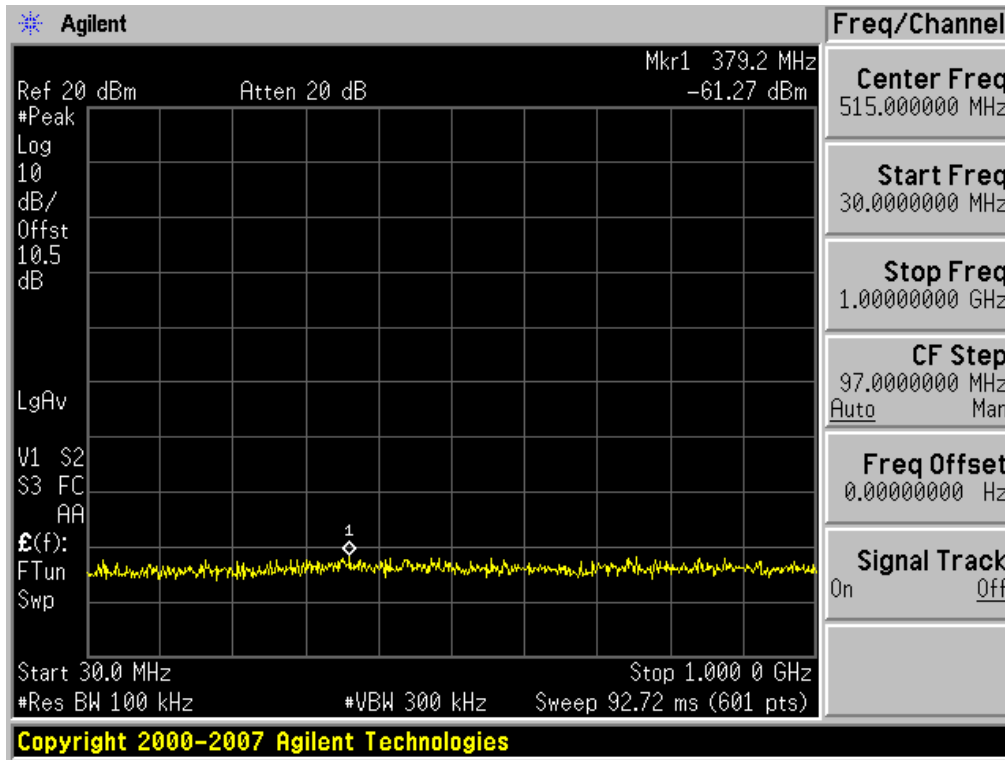
Conducted Spurious Emission (802.11n-CH1)



Conducted Spurious Emission (802.11n-CH6)



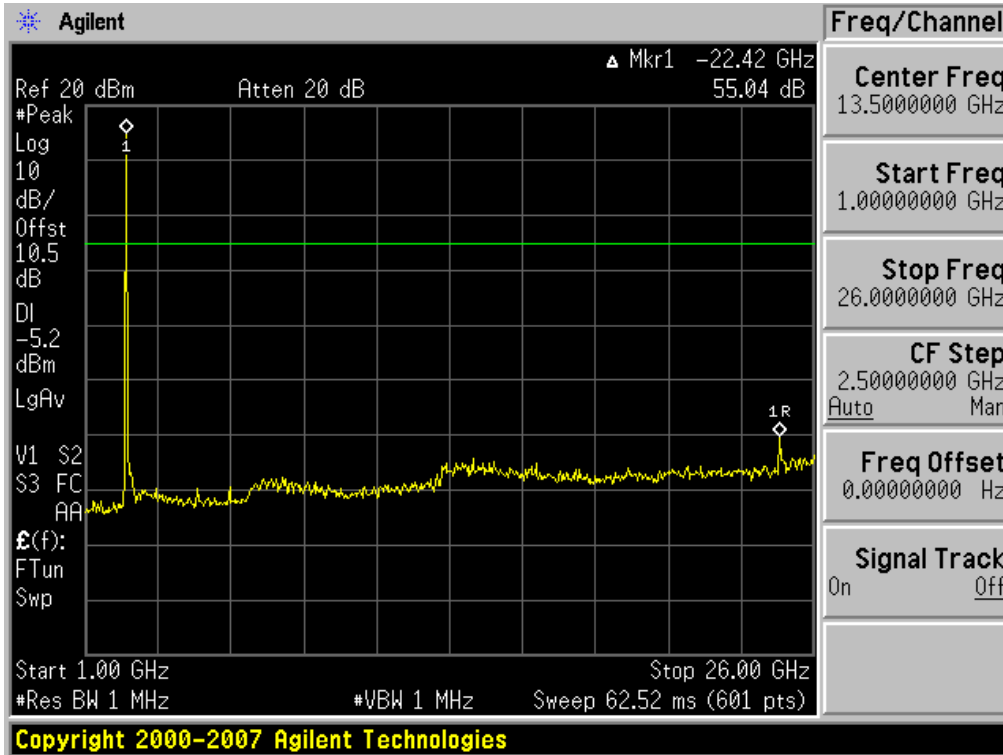
Conducted Spurious Emission (802.11n-CH11)



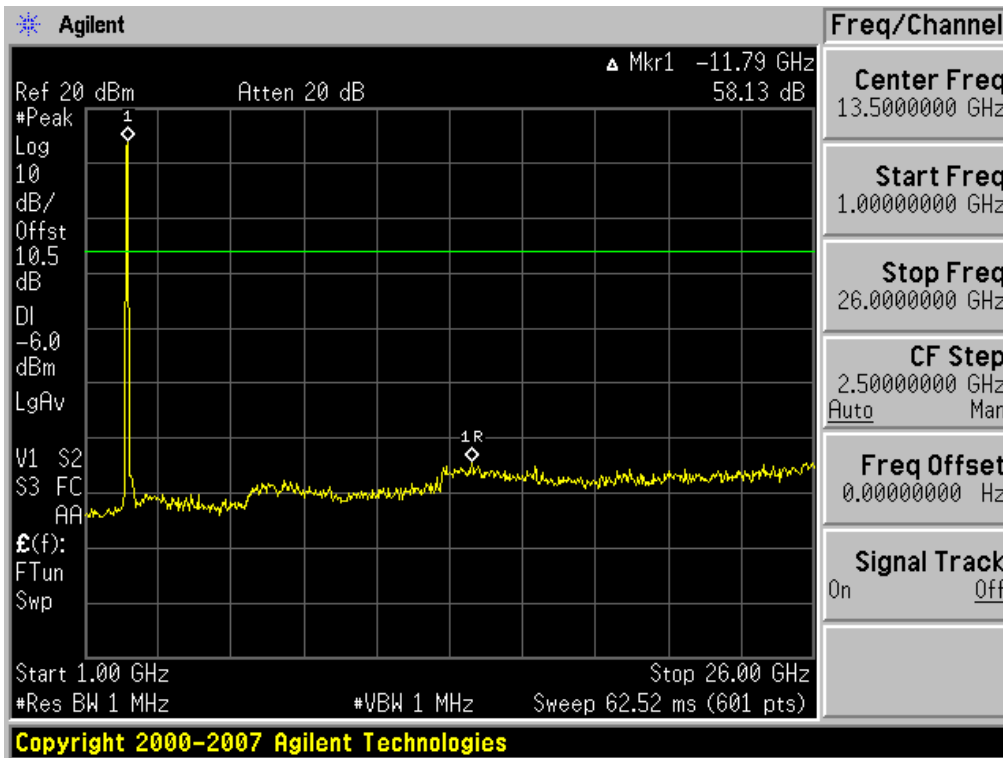
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1 GHz ~ 26 GHz

Conducted Spurious Emission (802.11b-CH1)

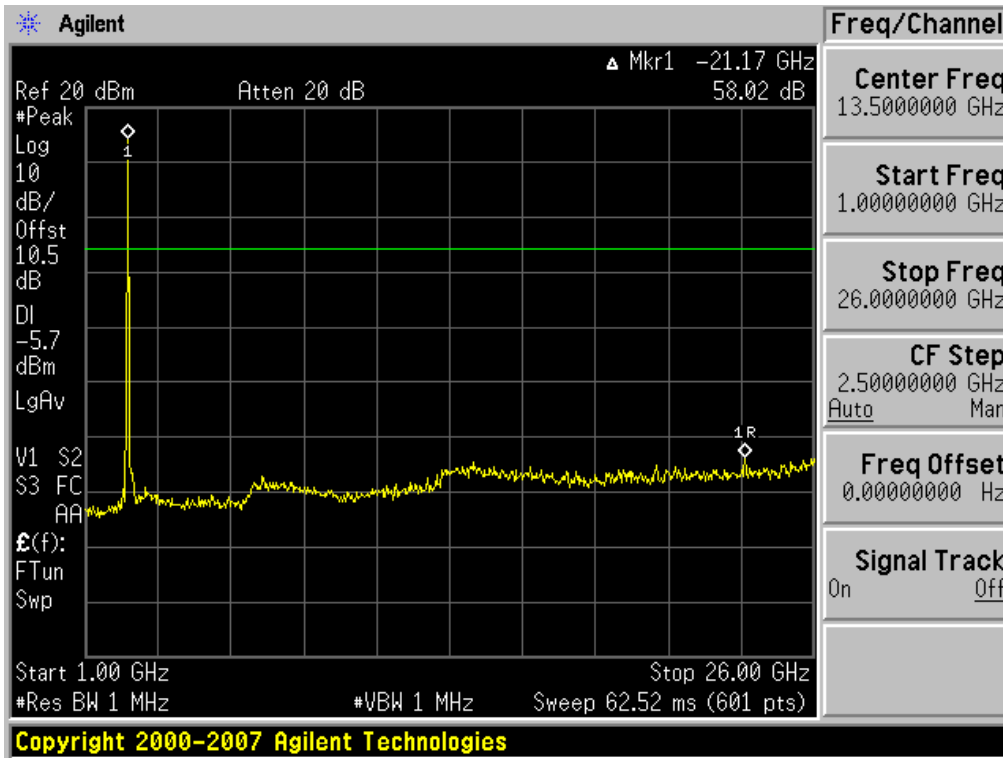


Conducted Spurious Emission (802.11b-CH6)

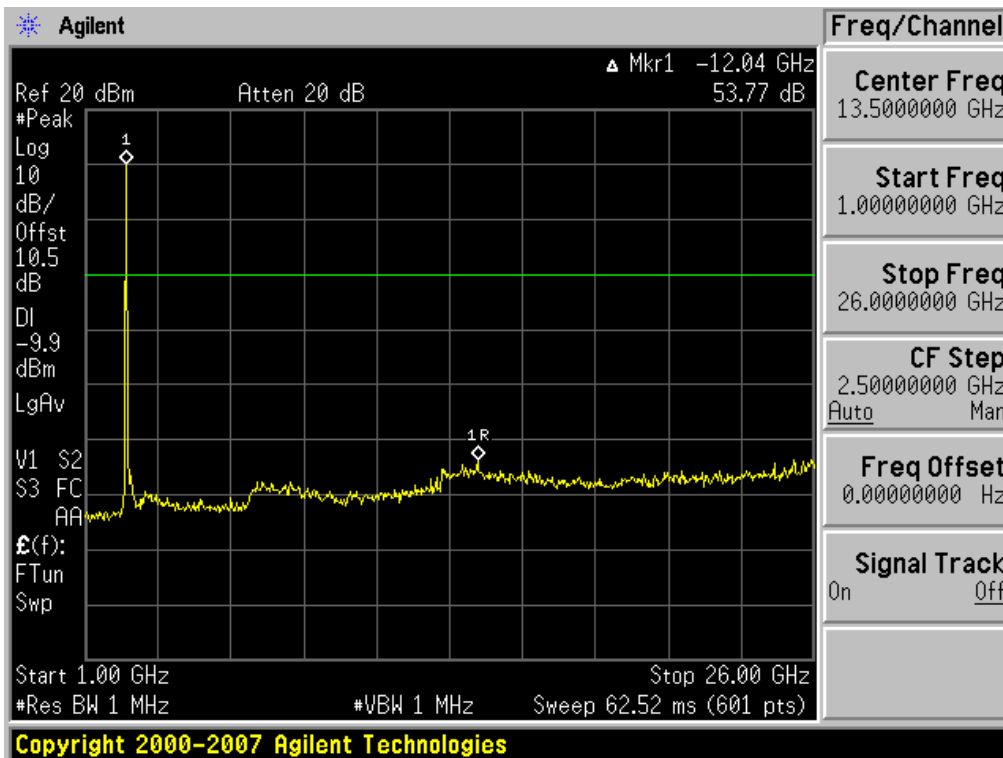


| | | | | |
|---------------------------------|---------------------------------|---|--|--|
| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
| Test Report No. HCTR1106FR21 | Date of Issue: June 15, 2011 | EUT Type: CDMA/LTE Phone with Bluetooth & WLAN | | FCC ID: JYCAPACHE |

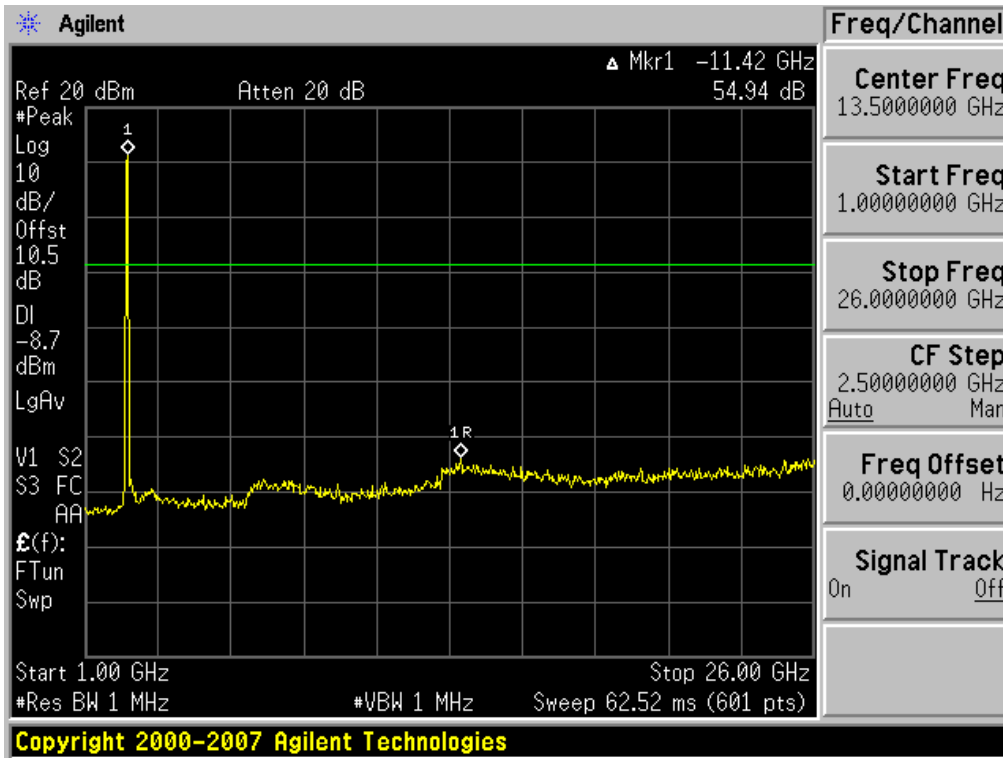
Conducted Spurious Emission (802.11b-CH11)



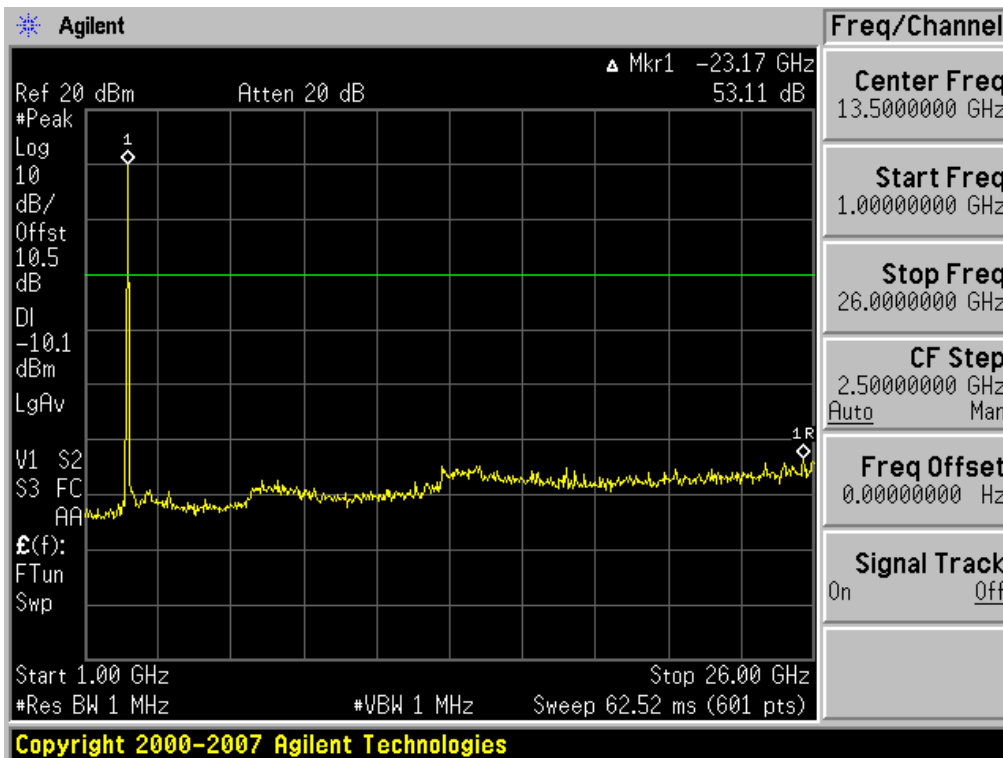
Conducted Spurious Emission (802.11g-CH1)



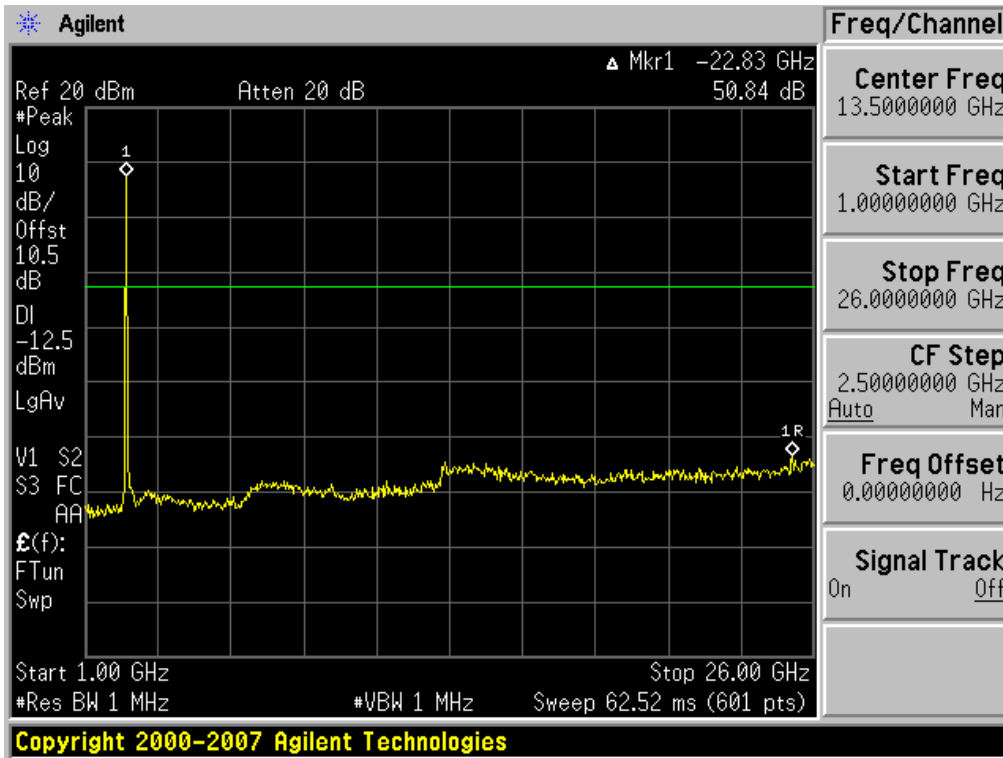
Conducted Spurious Emission (802.11g-CH6)



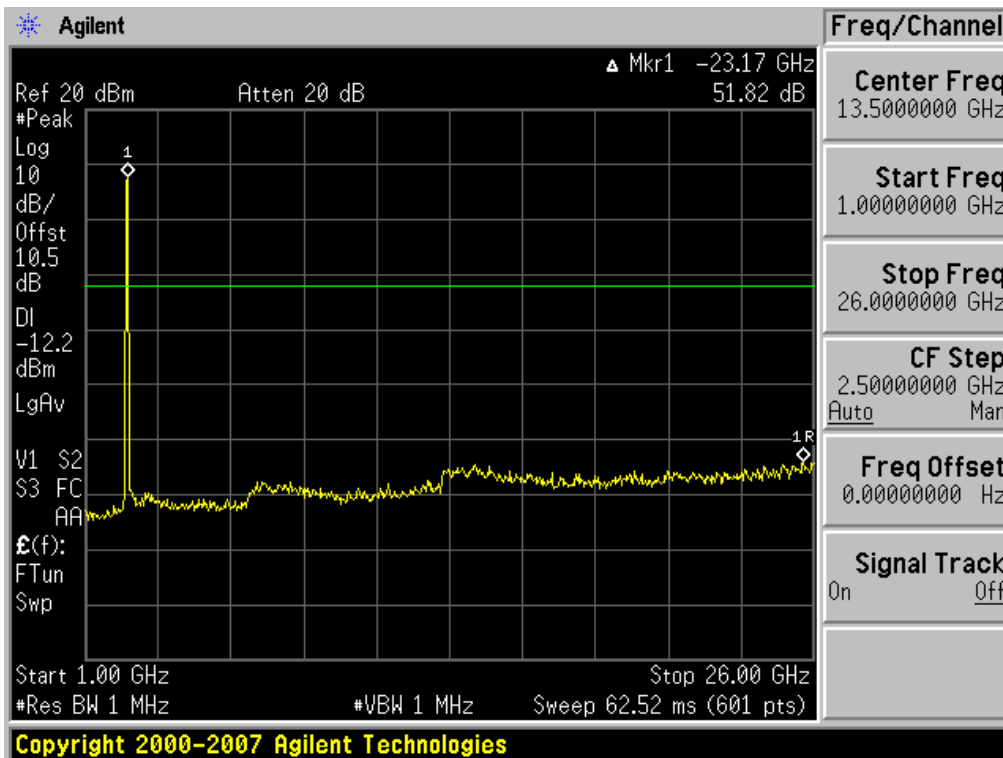
Conducted Spurious Emission (802.11g-CH11)



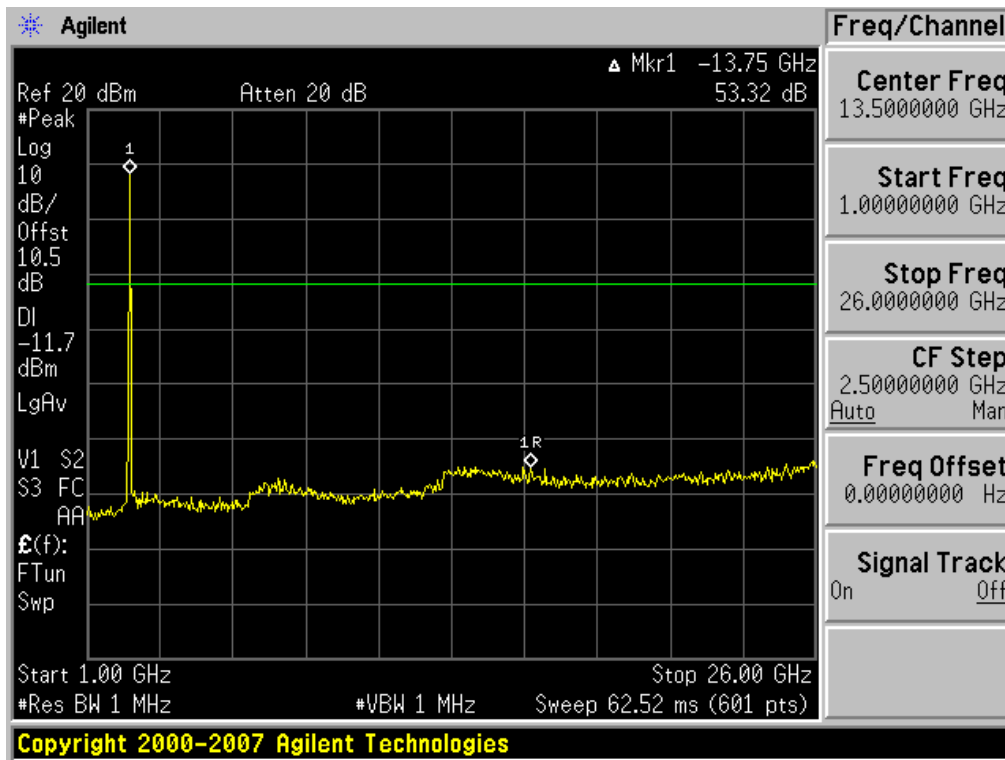
Conducted Spurious Emission (802.11n-CH1)



Conducted Spurious Emission (802.11n-CH6)



Conducted Spurious Emission (802.11n-CH11)



| | | | |
|--|--|--|--|
| FCC PT.15.247 TEST REPORT | FCC CERTIFICATION REPORT | | www.hct.co.kr |
| Test Report No. HCTR1106FR21 | Date of Issue: June 15, 2011 | EUT Type: CDMA/LTE Phone with Bluetooth & WLAN | FCC ID: JYCAPACHE |

7.5 RADIATED MEASUREMENT.

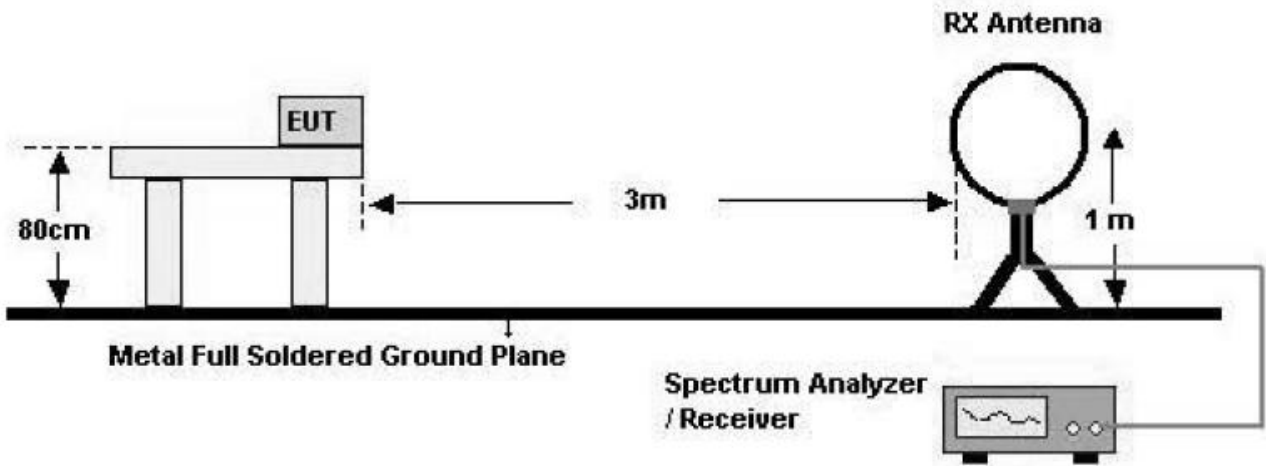
7.5.1 RADIATED SPURIOUS EMISSIONS.

Test Requirements and limit, §15.205, §15.209

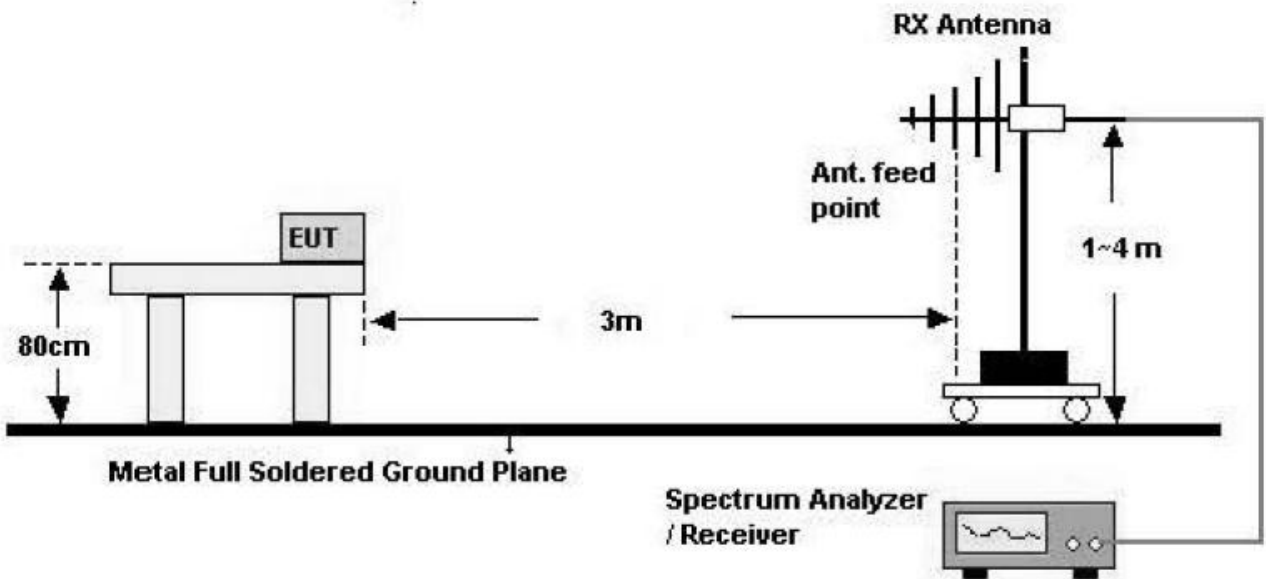
| Frequency (MHz) | Field Strength (uV/m) | Measurement Distance (m) |
|-----------------|-----------------------|--------------------------|
| 0.009 – 0.490 | 2400/F(kHz) | 300 |
| 0.490 – 1.705 | 24000/F(kHz) | 30 |
| 1.705 – 30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Test Configuration

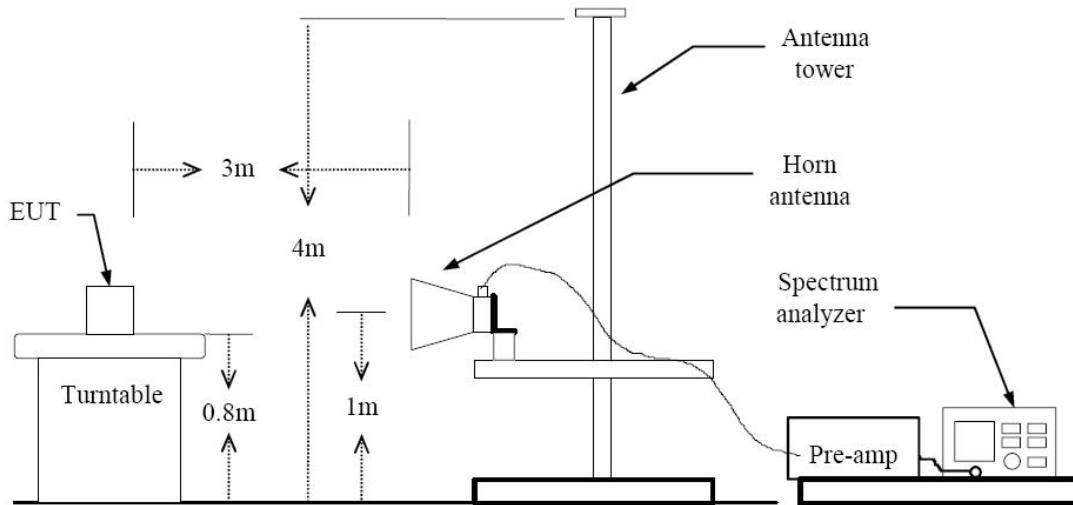
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3 m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

| | | | | |
|--|--|--|--|--|
| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
| Test Report No. HCTR1106FR21 | Date of Issue: June 15, 2011 | EUT Type: CDMA/LTE Phone with Bluetooth & WLAN | | FCC ID: JYCAPACHE |

TEST RESULTS

9 kHz – 30MHz

Operation Mode: Normal Mode

| Frequency | Reading | Ant. factor | Cable loss | Ant. POL | Total | Limit | Margin |
|-------------------------|------------|-------------|------------|----------|--------------|--------------|--------|
| MHz | dB μ V | dB /m | dB | (H/V) | dB μ V/m | dB μ V/m | dB |
| No Critical peaks found | | | | | | | |

Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
4. Limit line = specific Limits (dBuV) + Distance extrapolation factor

TEST RESULTS

Below 1 GHz

Operation Mode: 802.11b Mode (Channel : 11 , Data rate : 11 Mbps)

| Frequency MHz | Reading dBuV | Ant. Factor dB/m | Cable Loss dB | ANT POL (H/V) | Total dBuV/m | Limit dBuV/m | Margin dB |
|------------------|-----------------|------------------------|---------------------|------------------|-----------------|-----------------|--------------|
| 161.2 | 25.40 | 13.30 | 1.30 | H | 40.0 | 43.5 | 3.5 |
| 165.8 | 24.68 | 12.92 | 1.40 | V | 39.0 | 43.5 | 4.5 |
| 195.1 | 24.96 | 10.60 | 1.44 | H | 37.0 | 43.5 | 6.5 |
| 475.5 | 21.17 | 17.20 | 2.43 | H | 40.8 | 46.0 | 5.2 |
| 512.7 | 17.77 | 17.80 | 2.53 | H | 38.1 | 46.0 | 7.9 |
| 754.2 | 12.16 | 21.60 | 3.14 | V | 36.9 | 46.0 | 9.1 |

Notes:

1. Measuring frequencies from 30 MHz to the 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
3. We have done 802.11b Mode, 802.11g and 802.11n mode test. Worst case of EUT is 802.11b Mode.

Above 1 GHz

| | |
|---------------------|----------|
| Operation Mode: | 802.11 b |
| Transfer Rate: | 1 Mbps |
| Operating Frequency | 2412 |
| Channel No. | 01 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 4824 | 54.03 | -3.81 | V | 50.22 | 74 | 23.78 | PK |
| 4824 | 43.23 | -3.81 | V | 39.42 | 54 | 14.58 | AV |
| 4824 | 53.55 | -3.81 | H | 49.74 | 74 | 24.26 | PK |
| 4824 | 41.06 | -3.81 | H | 37.25 | 54 | 16.75 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
 - a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 10 Hz.
5. We have done 802.11b, 802.11g and 802.11n test. Worst case of EUT is 1 Mbps in 802.11b.

| | |
|---------------------|----------|
| Operation Mode: | 802.11 b |
| Transfer Rate: | 1 Mbps |
| Operating Frequency | 2437 |
| Channel No. | 06 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 4874 | 53.24 | -3.72 | V | 49.52 | 74 | 24.48 | PK |
| 4874 | 42.16 | -3.72 | V | 38.44 | 54 | 15.56 | AV |
| 4874 | 52.78 | -3.72 | H | 49.06 | 74 | 24.94 | PK |
| 4874 | 40.16 | -3.72 | H | 36.44 | 54 | 17.56 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
 - a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 10 Hz.
5. We have done 802.11b, 802.11g and 802.11n test. Worst case of EUT is 1 Mbps in 802.11b.

Operation Mode: 802.11 b
 Transfer Rate: 1 Mbps
 Operating Frequency: 2462
 Channel No. 11 Ch

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP G [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|-----------------|--------------|-------------------|----------------|----------------|----------------|-------------|--------|
| 4924 | 53.23 | -3.58 | V | 49.65 | 74 | 24.35 | PK |
| 4924 | 41.21 | -3.58 | V | 37.63 | 54 | 16.37 | AV |
| 4924 | 52.12 | -3.58 | H | 48.54 | 74 | 25.46 | PK |
| 4924 | 39.30 | -3.58 | H | 35.72 | 54 | 18.28 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
 - a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MH.
 - b. AV Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 10 Hz.
5. We have done 802.11b, 802.11g and 802.11n test. Worst case of EUT is 1 Mbps in 802.11b.

7.5.2 RADIATED RESTRICTED BAND EDGE MEASUREMENTS

Test Requirements and limit, §15.247(d) §15.205, §15.209

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c)).

| | |
|---------------------|--------------------|
| Operation Mode: | 802.11 g |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 2412 MHz, 2462 MHz |
| Channel No. | 01 Ch, 11 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|-----------------|--------------|-------------|----------------|----------------|----------------|-------------|--------|
| 2390.0 | 32.58 | 33.25 | H | 65.83 | 74 | 8.17 | PK |
| 2390.0 | 12.51 | 33.25 | H | 45.76 | 54 | 8.24 | AV |
| 2390.0 | 29.94 | 33.25 | V | 63.19 | 74 | 10.81 | PK |
| 2390.0 | 11.72 | 33.25 | V | 44.97 | 54 | 9.03 | AV |
| 2483.5 | 32.54 | 33.73 | H | 66.27 | 74 | 7.73 | PK |
| 2483.5 | 12.67 | 33.73 | H | 46.40 | 54 | 7.60 | AV |
| 2483.5 | 28.24 | 33.73 | V | 61.97 | 74 | 12.03 | PK |
| 2483.5 | 11.73 | 33.73 | V | 45.46 | 54 | 8.54 | AV |

Notes:

1. Spectrum setting:
 - a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 10 Hz.
2. We have done 802.11b, 802.11g and 802.11n test. Worst case of EUT is 6 Mbps in 802.11g.

7.6 POWERLINE CONDUCTED EMISSIONS

Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

| Frequency Range (MHz) | Limits (dB μ V) | |
|-----------------------|---------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference groundplane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

RESULT PLOTS

Conducted Emissions (Line 1)

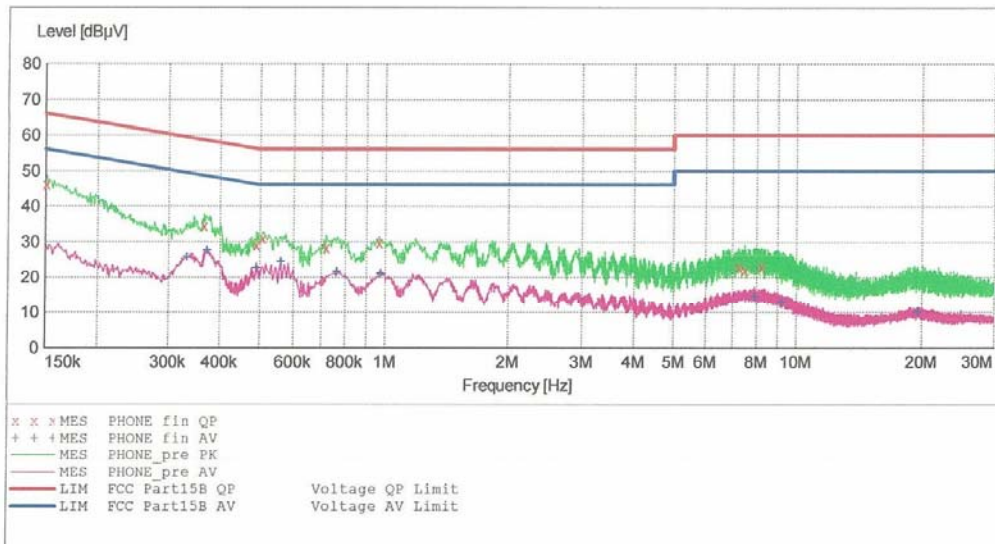
HCT

EMC

EUT: ADR8995
 Manufacturer: PANTECH
 Operating Condition: WLAN MODE
 Test Site: SHIELD ROOM
 Operator: JS-LEE
 Test Specification: H

SCAN TABLE: "FCC PART 15 B(H)"

| Start | Stop | Step | Detector | Meas. Time | IF Bandw. | Transducer |
|-----------|-----------|---------|----------|------------|-----------|------------|
| 150.0 kHz | 500.0 kHz | 1.0 kHz | MaxPeak | 10.0 ms | 9 kHz | None |
| 500.0 kHz | 5.0 MHz | 4.0 kHz | Average | 10.0 ms | 9 kHz | None |
| 5.0 MHz | 30.0 MHz | 4.0 kHz | MaxPeak | 10.0 ms | 9 kHz | None |
| | | | Average | | | |



MEASUREMENT RESULT: "PHONE_fin_QP"

6/14/2011 9:46AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Line | PE |
|---------------|------------|-----------|------------|-----------|------|-----|
| 0.151010 | 46.10 | 10.1 | 66 | 19.9 | --- | --- |
| 0.366010 | 34.40 | 10.1 | 59 | 24.1 | --- | --- |
| 0.490010 | 29.10 | 10.1 | 56 | 27.1 | --- | --- |
| 0.508000 | 31.00 | 10.1 | 56 | 25.0 | --- | --- |
| 0.720000 | 28.40 | 10.1 | 56 | 27.6 | --- | --- |
| 0.968000 | 29.80 | 10.1 | 56 | 26.2 | --- | --- |
| 7.256000 | 23.10 | 10.8 | 60 | 36.9 | --- | --- |
| 7.496000 | 22.10 | 10.8 | 60 | 37.9 | --- | --- |
| 8.240000 | 22.90 | 10.8 | 60 | 37.1 | --- | --- |

MEASUREMENT RESULT: "PHONE_fin AV"

6/14/2011 9:46AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Line | PE |
|------------------|---------------|--------------|---------------|--------------|------|-----|
| 0.333010 | 25.80 | 10.1 | 49 | 23.6 | --- | --- |
| 0.372010 | 27.60 | 10.1 | 49 | 20.9 | --- | --- |
| 0.490010 | 22.70 | 10.1 | 46 | 23.4 | --- | --- |
| 0.560000 | 24.40 | 10.1 | 46 | 21.6 | --- | --- |
| 0.764000 | 21.70 | 10.1 | 46 | 24.3 | --- | --- |
| 0.976000 | 21.20 | 10.1 | 46 | 24.8 | --- | --- |
| 7.924000 | 14.50 | 10.8 | 50 | 35.5 | --- | --- |
| 9.240000 | 12.80 | 10.9 | 50 | 37.2 | --- | --- |
| 19.528000 | 10.10 | 11.8 | 50 | 39.9 | --- | --- |

| | | | |
|--|--|--|--|
| FCC PT.15.247 TEST REPORT | FCC CERTIFICATION REPORT | | www.hct.co.kr |
| Test Report No. HCTR1106FR21 | Date of Issue: June 15, 2011 | EUT Type: CDMA/LTE Phone with Bluetooth & WLAN | FCC ID: JYCAPACHE |

Conducted Emissions (Line 2)

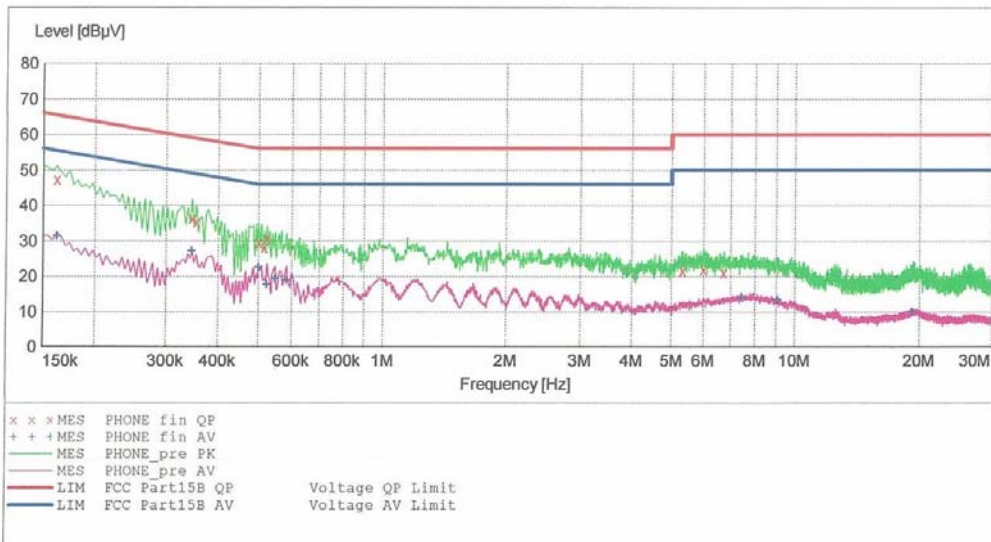
HCT

EMC

EUT: ADR8995
 Manufacturer: PANTECH
 Operating Condition: WLAN MODE
 Test Site: SHIELD ROOM
 Operator: JS-LEE
 Test Specification: N

SCAN TABLE: "FCC PART 15 B(N)"

| Start | Stop | Step | FCC PART 15 | CLASS B | Meas. Time | IF Bandw. | Transducer |
|-----------|-----------|---------|-------------|---------|------------|-----------|------------|
| 150.0 kHz | 500.0 kHz | 4.0 kHz | Detector | | 10.0 ms | 9 kHz | None |
| | | | Average | | | | |
| 500.0 kHz | 5.0 MHz | 4.0 kHz | Detector | | 10.0 ms | 9 kHz | None |
| | | | Average | | | | |
| 5.0 MHz | 30.0 MHz | 4.0 kHz | Detector | | 10.0 ms | 9 kHz | None |
| | | | Average | | | | |



MEASUREMENT RESULT: "PHONE_fin_QP"

6/14/2011 9:43AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Line | PE |
|---------------|------------|-----------|------------|-----------|------|-----|
| 0.162010 | 47.20 | 10.3 | 65 | 18.1 | --- | --- |
| 0.346010 | 36.40 | 10.3 | 59 | 22.6 | --- | --- |
| 0.354010 | 35.40 | 10.3 | 59 | 23.5 | --- | --- |
| 0.500000 | 29.50 | 10.3 | 56 | 26.5 | --- | --- |
| 0.516000 | 28.20 | 10.3 | 56 | 27.8 | --- | --- |
| 0.524000 | 30.90 | 10.3 | 56 | 25.1 | --- | --- |
| 5.324000 | 21.70 | 10.8 | 60 | 38.3 | --- | --- |
| 5.992000 | 22.00 | 10.8 | 60 | 38.0 | --- | --- |
| 6.732000 | 21.20 | 10.9 | 60 | 38.8 | --- | --- |

MEASUREMENT RESULT: "PHONE_fin AV"

6/14/2011 9:43AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Line | PE |
|------------------|---------------|--------------|---------------|--------------|------|-----|
| 0.162010 | 31.30 | 10.3 | 55 | 24.0 | --- | --- |
| 0.346010 | 27.20 | 10.3 | 49 | 21.8 | --- | --- |
| 0.500000 | 22.50 | 10.3 | 46 | 23.5 | --- | --- |
| 0.524000 | 17.70 | 10.3 | 46 | 28.3 | --- | --- |
| 0.548000 | 19.30 | 10.3 | 46 | 26.7 | --- | --- |
| 0.584000 | 19.00 | 10.3 | 46 | 27.0 | --- | --- |
| 7.436000 | 14.00 | 11.0 | 50 | 36.0 | --- | --- |
| 9.104000 | 13.30 | 11.0 | 50 | 36.7 | --- | --- |
| 19.184000 | 10.00 | 11.7 | 50 | 40.0 | --- | --- |

| | | | |
|--|--|--|--|
| FCC PT.15.247 TEST REPORT | FCC CERTIFICATION REPORT | | www.hct.co.kr |
| Test Report No. HCTR1106FR21 | Date of Issue: June 15, 2011 | EUT Type: CDMA/LTE Phone with Bluetooth & WLAN | FCC ID: JYCAPACHE |

8. LIST OF TEST EQUIPMENT

| Manufacturer | Model / Equipment | Calibration Interval | Calibration Due | Serial No. |
|-----------------------|--|----------------------|-----------------|--------------------|
| Rohde & Schwarz | ESH2-Z5/ LISN | Annual | 02/01/2012 | 861741/013 |
| Schwarzbeck | VULB 9168/ TRILOG Antenna | Biennial | 02/09/2013 | 9168-200 |
| HD | MA240/ Antenna Position Tower | N/A | N/A | 556 |
| EMCO | 1050/ Turn Table | N/A | N/A | 114 |
| HD GmbH | HD 100/ Controller | N/A | N/A | 13 |
| HD GmbH | KMS 560/ SlideBar | N/A | N/A | 12 |
| Rohde & Schwarz | ESH3-Z2/ PULSE LIMITER | Annual | 10/25/2011 | 375.8810.352 |
| Rohde & Schwarz | SCU-18/ Signal Conditioning Unit | Annual | 09/29/2011 | 10094 |
| Schwarzbeck | BBHA 9120D/ Horn Antenna | Biennial | 09/23/2011 | 296 |
| Rohde & Schwarz | FSP30 / Spectrum Analyzer | Annual | 03/23/2012 | 839117/011 |
| Agilent | E4440A / Spectrum Analyzer | Annual | 05/02/2012 | US45303008 |
| Agilent | E4416A /Power Meter | Annual | 01/04/2012 | GB41291412 |
| Agilent | E9327A /POWER SENSOR | Annual | 05/02/2012 | MY4442009 |
| Wainwright Instrument | WHF3.3/18G-10EF / High Pass Filter | Annual | 05/02/2012 | 1 |
| Wainwright Instrument | WRCJ2400/2483.5-2370/2520-60/14SS / Band Reject Filter | Annual | 05/02/2012 | 1 |
| Hewlett Packard | 11636B/Power Divider | Annual | 12/29/2011 | 11377 |
| Hewlett Packard | 11667B / Power Splitter | Annual | 11/08/2011 | 10126 |
| DIGITAL | EP-3010 /DC POWER SUPPLY | Annual | 01/04/2012 | 3110117 |
| ITECH | IT6720 / DC POWER SUPPLY | Annual | 12/01/2011 | 010002156287001199 |
| TESCOM | TC-3000A / BLUETOOTH TESTER | Annual | 01/10/2012 | 3000A490112 |
| Rohde & Schwarz | CBT / BLUETOOTH TESTER | Annual | 05/02/2012 | 100422 |
| EMCO | 6502.LOOP ANTENNA | Biennial | 01/13/2012 | 9009-2536 |