



PCTEST ENGINEERING LABORATORY, INC.

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CERTIFICATE OF COMPLIANCE FCC Part 24 & 22 Certification

Applicant Name:
LG Electronics USA
1000 Sylvan Avenue
Englewood Cliffs, NJ 07632
United States

Date of Testing:
July 11 - 13, 2006
Test Site/Location:
PCTEST Lab, Columbia, MD, USA
Test Report Serial No.:
0607050571-W

FCC ID: BEJCU400

APPLICANT: LG ELECTRONICS USA

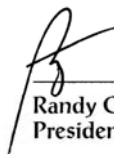
Application Type: Certification
FCC Classification: Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s): §24(E), §22(H); §2
EUT Type: Dual-Band Dual-Mode GSM/EDGE/WCDMA Phone w/ Bluetooth
Model(s): CU400
Tx Frequency Range: 826.40 - 846.60 MHz (Cellular WCDMA) /
1852.4 - 1907.6 MHz (PCS WCDMA)
Rx Frequency Range: 871.4 - 891.8 MHz (Cellular WCDMA) /
1932.4 - 1995.6 MHz (PCS WCDMA)
Max. SAR Measurement: 0.707 W/kg Cell. WCDMA Head SAR; 0.673 W/kg Cell. WCDMA Body SAR
1.140 W/kg PCS WCDMA Head SAR; 0.337 W/kg PCS WCDMA Body SAR
Max. RF Output Power: 0.242 W ERP Cellular WCDMA (23.830 dBm) /
0.396 W EIRP PCS WCDMA (25.976 dBm)
Emission Designator(s): 4M19F9W (WCDMA)
Test Device Serial No.: identical prototype [S/N: 606KPED091060]

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Grant Conditions: Power output listed is ERP for Part 22 and EIRP for Part 24. SAR compliance for body-worn operating configuration is based on a separation distance of 1.5 cm between the back of the unit and the body of the user. End-users must be informed of the body-worn operating requirements for satisfying RF exposure compliance. Belt clips or holsters may not contain metallic components.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.


Randy Ortanez
President

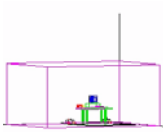


PCTEST™ PT. 22/24 WCDMA TEST REPORT		FCC MEASUREMENT REPORT (WCDMA)			Reviewed by: Quality Manager
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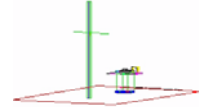
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1.0 SCOPE



Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.



§2.1033 General Information

Applicant Name: LG Electronics USA
Address: 1000 Sylvan Avenue
Englewood Cliffs, NJ 07632
United States

- FCC ID: BEJCU400
- Quantity: Quantity production is planned
- Emission Designators: 4M19F9W (WCDMA)
- Tx Freq. Range: 826.40 - 846.60 MHz (Cellular WCDMA) /
1852.4 - 1907.6 MHz (PCS WCDMA)
- Rx Freq. Range: 871.4 - 891.8 MHz (Cellular WCDMA) /
1932.4 - 1995.6 MHz (PCS WCDMA)
- Max. Power Rating: 0.242 W ERP Cellular WCDMA (23.830 dBm) /
0.396 W EIRP PCS WCDMA (25.976 dBm)
- FCC Classification(s): Licensed Transmitter Held to Ear (PCE)
- Equipment (EUT) Type: Dual-Band Dual-Mode GSM/WCDMA Phone w/ Bluetooth
- Modulation(s): QPSK
- Frequency Tolerance: ± 0.00025 % (2.5 ppm)
- FCC Rule Part(s): § 24(E), §22(H)
- Dates of Test(s): July 11 - 13, 2006
- Place of Tests: PCTEST Lab, Columbia, MD U.S.A.
- Test Report S/N: 0607050571-W
- Deviation from measurement procedure - None

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2.0 INTRODUCTION

2.1 Testing Facility

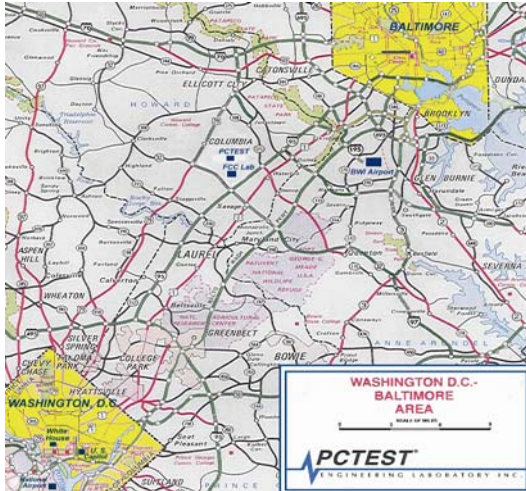


Figure 1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

These measurement tests were conducted at PCTEST Engineering Laboratory, Inc. facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2003 on January 27, 2006 and Industry Canada.

2.2 Measurement Procedure

The radiated spurious measurements were made outdoors at a 3-meter test range (see Figure2). The equipment under test is placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.

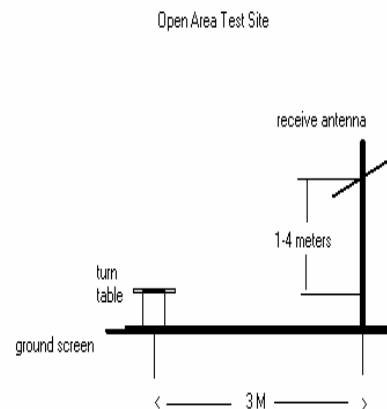


Figure 2. Diagram of 3-meter outdoor test range

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3.0 INSERTS

Function of Active Devices (Confidential)

Block & Schematic Diagrams (Confidential)

Operating Instructions

Parts List & Tune-Up Procedure (Confidential)

Description of Freq. Stabilization Circuit (Confidential)

Description for Suppression of Spurious Radiation, for Limiting Modulation, and Harmonic Suppression Circuits (Confidential)

** These exhibits are not included.*

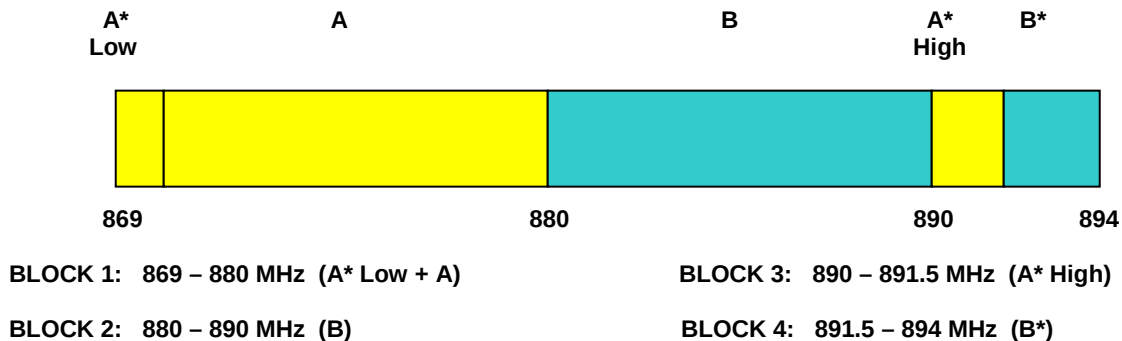
PCTEST™ PT. 22/24 WCDMA TEST REPORT		 FCC MEASUREMENT REPORT (WCDMA)		 LG		Reviewed by: Quality Manager
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4.0 DESCRIPTION OF TESTS

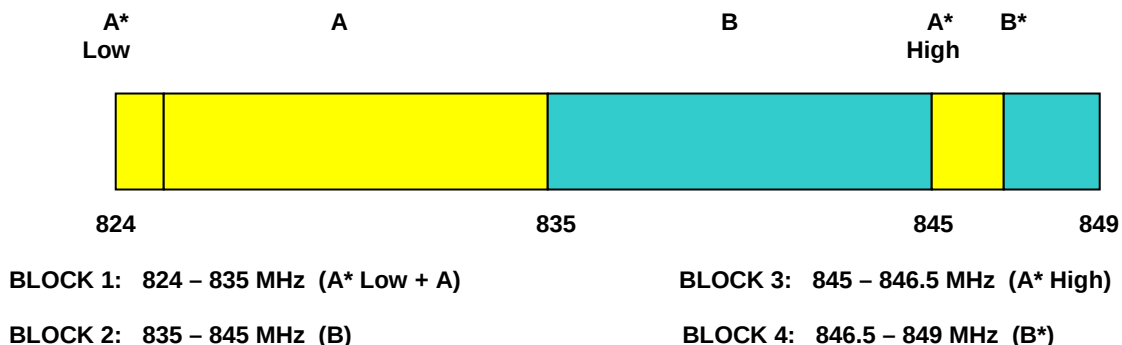
4.1 Occupied Bandwidth Emission Limits

- On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. The spectrum is measured from the lowest frequency generated in the equipment through the 10th harmonic.
- Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
- When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
- The measurement of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

4.2 Cellular - Base Frequency Blocks

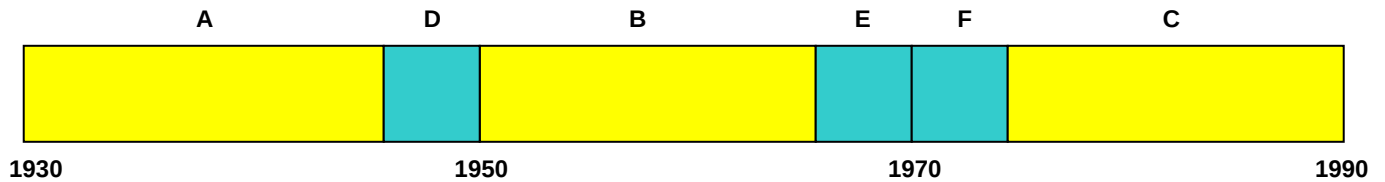


4.3 Cellular - Mobile Frequency Blocks



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4.4 PCS - Base Frequency Blocks



BLOCK 1: 1930 – 1945 MHz (A)

BLOCK 4: 1965 – 1970 MHz (E)

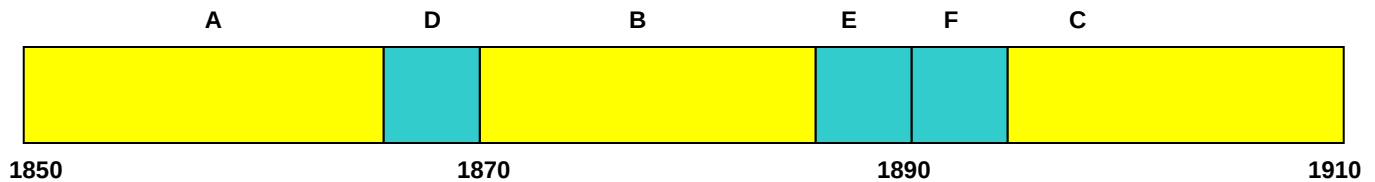
BLOCK 2: 1945 – 1950 MHz (D)

BLOCK 5: 1970 – 1975 MHz (F)

BLOCK 3: 1950 – 1965 MHz (B)

BLOCK 6: 1975 – 1990 MHz (C)

4.5 PCS - Mobile Frequency Blocks



BLOCK 1: 1850 – 1865 MHz (A)

BLOCK 4: 1885 – 1890 MHz (E)

BLOCK 2: 1865 – 1870 MHz (D)

BLOCK 5: 1890 – 1895 MHz (F)

BLOCK 3: 1870 – 1885 MHz (B)

BLOCK 6: 1895 – 1910 MHz (C)

4.6 Frequencies

At the input terminals of the spectrum analyzer, an isolator (RF pad) and a high-pass filter are connected between the test transceiver (for conducted tests) or the receive antenna (for radiated tests) and the analyzer. The high-pass filter (signals below 1.6 GHz) is to limit the fundamental frequency from interfering with the measurement of low-level spurious and harmonic emissions and to ensure that the preamplifier is not saturated.

4.7 Radiated Spurious and Harmonic Emissions

Radiation and harmonic emissions are measured outdoors at our 3-meter test range. The equipment under test is placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration. This device was tested under all configurations and the worst case is reported at 12.2 kbps AMR with TPC bits all set to "1". The spectrum is measured from 9 kHz up to the 10th harmonic.

4.8 Frequency Stability / Temperature Variation

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +60°C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ± 0.00025 (± 2.5 ppm) of the center frequency.

Time Period and Procedure:

1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature (22°C to 25°C to provide a reference).
2. The equipment is subjected to an overnight “soak” at -30°C without any power applied.
3. After the overnight “soak” at -30°C (usually 14-16 hours), the equipment is turned on in a “standby” condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter and the individual oscillators is made within a three minute interval after applying power to the transmitter.
4. Frequency measurements are made at 10°C interval up to room temperature. At least a period of one and one half-hour is provided to allow stabilization of the equipment at each temperature level.

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4.8 Frequency Stability / Temperature Variation (Cont'd)

5. Again the transmitter carrier frequency and the individual oscillators are measured at room temperature to begin measurement of the upper temperature levels.
6. Frequency measurements are at 10 intervals starting at -30°C up to +50°C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after re-applying power to the transmitter.
7. The artificial load is mounted external to the temperature chamber.

NOTE: The EUT is tested down to the battery endpoint.

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5.0 CONDUCTED OUTPUT POWER

This device was tested under all configurations and the worst case is reported at 12.2 kbps AMR with TPC bits all set to "1".

5.1 SAR Measurement Conditions for WCDMA

The following procedures were followed according to FCC "SAR Measurement Procedures for 3G Devices", June 2006.

5.2 Output Power Verification

The maximum output power is a measure of the maximum power the UE can transmit (i.e. the actual power as would be measured assuming no measurement error) in a bandwidth of at least $(1 + \alpha)$ times the chip rate of the radio access mode.

The default test configuration is to configure an established radio link between the UE and a communication test set using a 12.2 kbps RMC (reference measurement channel) configured in Test Loop Mode 1. Maximum output power is verified according to 3GPP TS 34.121 Section 5.2.

1. Configure TPC (Transmit Power Control) set to "All 1"s.
2. RMC and AMR connections at 12.2 kbps are measured under 3.4 kbps SRB (signaling radio bearer)
3. Measure the mean power of the UE in a bandwidth of at least $(1 + \alpha)$ times the chip rate of the radio access mode. The mean power shall be averaged over at least one timeslot.

Operating Band	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
Band II	+24	+1/-3	+21	+2/-2
Band V	+24	+1/-3	+21	+2/-2

Table 5-2.1.
3GPP TS 34.121 Nominal Maximum Output Power

	Channel	12.2 kbps RMC	12.2 kbps AMR
UMTS	4132	22.74	22.64
	4175	22.81	22.78
	4233	22.75	22.72
PCS			
	9262	22.94	22.96
	9400	22.78	22.58
	9538	22.52	22.46

Table 5-2.2.
Maximum Power Output Table for CU400

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6.0 EFFECTIVE RADIATED POWER

6.1 Effective Radiated Power Output Data

POWER: High (WCDMA Mode)

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
826.40	-18.203	V	0.203	23.070	Standard
835.00	-18.521	V	0.196	22.912	Standard
846.60	-17.753	V	0.242	23.830	Standard

Note: Standard batteries were used to test this phone.

NOTES:

Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

This device was tested under all configurations and the worst case is reported at 12.2 kbps AMR with TPC bits all set to "1".

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7.0 EQUIVALENT ISOTROPIC RADIATED POWER

7.1 Equivalent Isotropic Radiated Power Output Data

Radiated measurements at 3 meters

Supply Voltage: 3.7 VDC

Modulation: PCS WCDMA

FREQ. (MHz)	REF. LEVEL (dBm)	POL (H/V)	Azimuth (o angle)	EIRP (dBm)	EIRP (W)	Battery
1852.40	-17.105	H	60	25.976	0.396	Standard
1880.00	-17.467	H	60	25.784	0.379	Standard
1907.60	-17.988	H	60	25.433	0.349	Standard

Note: Standard batteries were used to test this phone.

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

This device was tested under all configurations and the worst case is reported at 12.2 kbps AMR with TPC bits all set to "1".

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8.0 RADIATED MEASUREMENTS

8.1 Cellular WCDMA Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 826.40 MHz
 CHANNEL: 4132 (Low)
 MEASURED OUTPUT POWER: 23.830 dBm = 0.242 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 36.84 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1652.80	-84.13	6.10	-78.03	H	101.9
2479.20	-89.35	6.70	-82.65	H	106.5
3305.60	-89.58	6.80	-82.78	V	106.6

NOTES:

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested under all configurations and the worst case is reported at 12.2 kbps AMR with TPC bits all set to "1".

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8.1 Cellular WCDMA Radiated Measurements (Cont'd)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 835.00 MHz
 CHANNEL: 4175 (Mid)
 MEASURED OUTPUT POWER: 23.830 dBm = 0.242 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 36.83 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1670.00	-84.83	6.10	-78.73	H	102.6
2505.00	-88.46	6.70	-81.76	H	105.6
3340.00	-89.48	6.80	-82.68	V	106.5

NOTES:

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested under all configurations and the worst case is reported at 12.2 kbps AMR with TPC bits all set to "1".

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8.1 Cellular WCDMA Radiated Measurements (Cont'd)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 846.60 MHz
 CHANNEL: 4233 (High)
 MEASURED OUTPUT POWER: 23.830 dBm = 0.242 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 36.83 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1693.20	-84.94	6.10	-78.84	V	102.7
2539.80	-88.06	6.70	-81.36	H	105.2
3386.40	-89.08	6.80	-82.28	V	106.1

NOTES:

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested under all configurations and the worst case is reported at 12.2 kbps AMR with TPC bits all set to "1".

PCTEST™ PT. 22/24 WCDMA TEST REPORT		FCC MEASUREMENT REPORT (WCDMA)		Reviewed by: Quality Manager
Test Report S/N: 0607050571-W	Test Dates: July 11 - 13, 2006	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone w/ Bluetooth	FCC ID: BEJCU400	Page 15 of 26

8.2 PCS WCDMA Radiated Measurements

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1852.40 MHz
 CHANNEL: 9262 (Low)
 MEASURED OUTPUT POWER: 25.976 dBm = 0.396 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 38.98 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3704.80	-74.95	8.70	-66.25	H	92.2
5557.20	-65.00	9.70	-55.30	V	81.3
7409.60	-79.43	9.90	-69.53	H	95.5

NOTES:

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested under all configurations and the worst case is reported at 12.2 kbps AMR with TPC bits all set to "1".

PCTEST™ PT. 22/24 WCDMA TEST REPORT		FCC MEASUREMENT REPORT (WCDMA)		Reviewed by: Quality Manager
Test Report S/N: 0607050571-W	Test Dates: July 11 - 13, 2006	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone w/ Bluetooth	FCC ID: BEJCU400	Page 16 of 26

8.2 PCS WCDMA Radiated Measurements (Cont'd)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 9400 (Mid)
 MEASURED OUTPUT POWER: 25.976 dBm = 0.396 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.98 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3760.00	-75.10	8.70	-66.40	V	92.4
5640.00	-65.18	9.70	-55.48	H	81.5
7520.00	-79.13	9.90	-69.23	H	95.2

NOTES:

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested under all configurations and the worst case is reported at 12.2 kbps AMR with TPC bits all set to "1".

PCTEST™ PT. 22/24 WCDMA TEST REPORT		FCC MEASUREMENT REPORT (WCDMA)		Reviewed by: Quality Manager
Test Report S/N: 0607050571-W	Test Dates: July 11 - 13, 2006	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone w/ Bluetooth	FCC ID: BEJCU400	Page 17 of 26

8.2 PCS WCDMA Radiated Measurements (Cont'd)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1907.60 MHz
 CHANNEL: 9538 (High)
 MEASURED OUTPUT POWER: 25.976 dBm = 0.396 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.98 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3815.20	-74.24	8.70	-65.54	V	91.5
5722.80	-58.42	9.70	-48.72	H	74.7
7630.40	-78.93	9.90	-69.03	V	95.0

NOTES:

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested under all configurations and the worst case is reported at 12.2 kbps AMR with TPC bits all set to "1".

PCTEST™ PT. 22/24 WCDMA TEST REPORT		FCC MEASUREMENT REPORT (WCDMA)		Reviewed by: Quality Manager
Test Report S/N: 0607050571-W	Test Dates: July 11 - 13, 2006	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone w/ Bluetooth	FCC ID: BEJCU400	Page 18 of 26

9.0 FREQUENCY STABILITY

9.1 Frequency Stability (Cellular WCDMA)

OPERATING FREQUENCY: 835,000,012 Hz

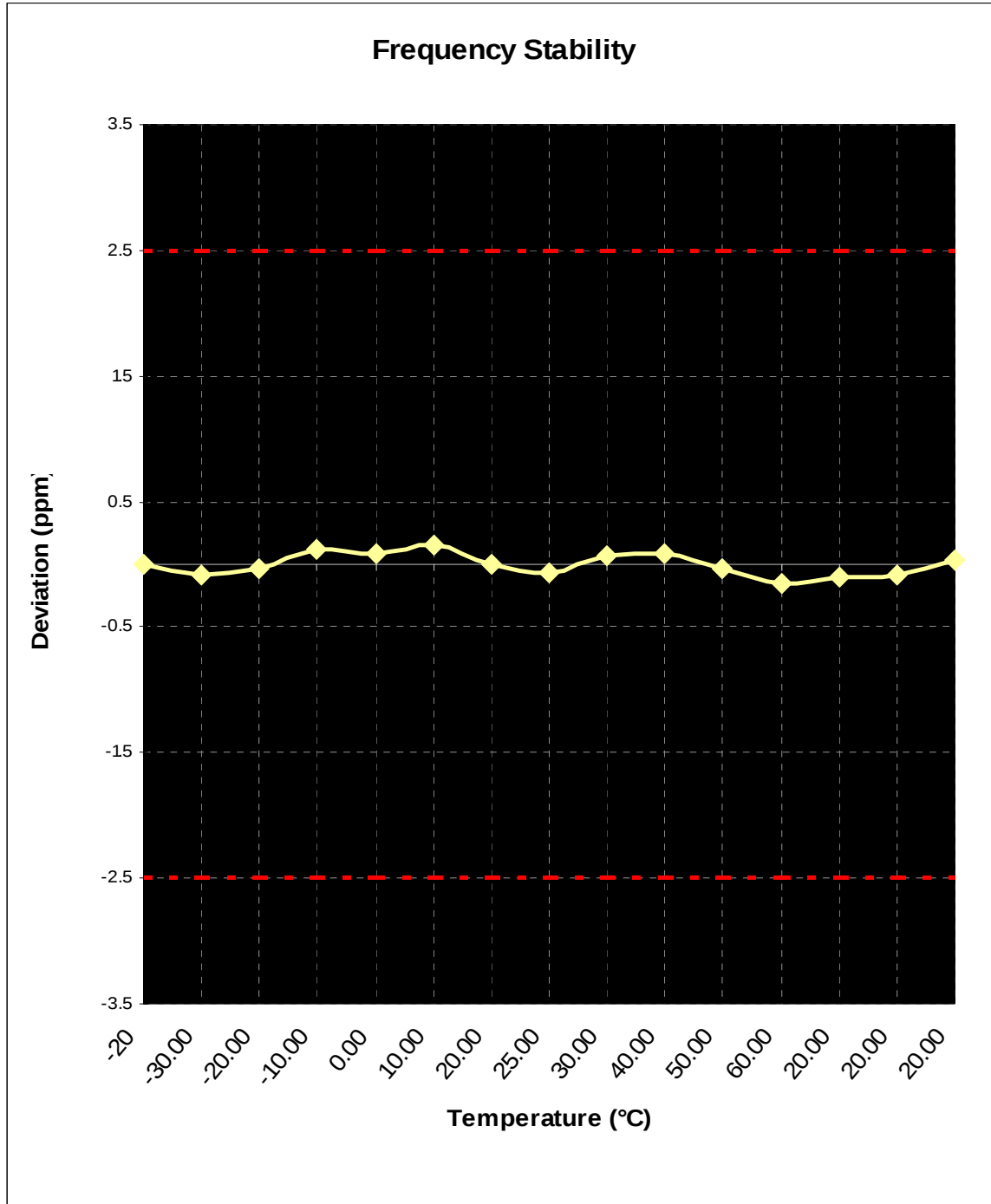
CHANNEL: 4175

REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	835,000,012	0.00	0.000000
100 %		-30	835,000,079	-66.80	-0.000008
100 %		-20	835,000,037	-25.05	-0.000003
100 %		-10	834,999,912	100.20	0.000012
100 %		0	834,999,937	75.15	0.000009
100 %		10	834,999,887	125.25	0.000015
100 %		20	835,000,012	0.00	0.000000
100 %		25	835,000,062	-50.10	-0.000006
100 %		30	834,999,954	58.45	0.000007
100 %		40	834,999,937	75.15	0.000009
100 %		50	835,000,037	-25.05	-0.000003
100 %		60	835,000,146	-133.60	-0.000016
85 %	3.15	20	835,000,104	-91.85	-0.000011
115 %	4.26	20	835,000,087	-75.15	-0.000009
BATT. ENDPOINT	3.10	20	834,999,979	33.40	0.000004

9.1 Frequency Stability (Cellular WCDMA) (Cont'd)



9.2 Frequency Stability (PCS WCDMA)

OPERATING FREQUENCY: 1,880,000,007 Hz

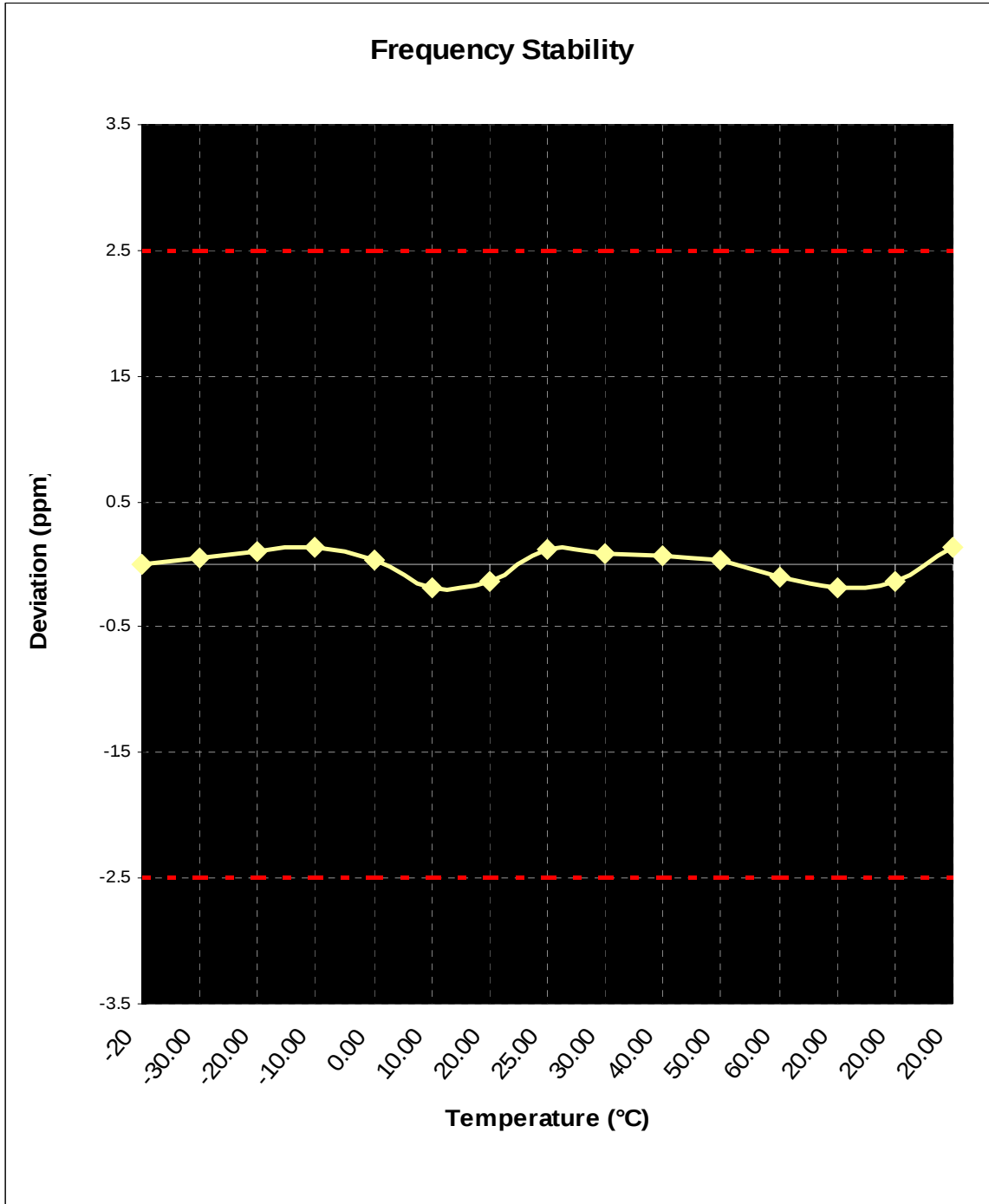
CHANNEL: 9400

REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	1,880,000,007	0.00	0.000000
100 %		-30	1,879,999,913	94.00	0.000005
100 %		-20	1,879,999,800	206.80	0.000011
100 %		-10	1,879,999,763	244.40	0.000013
100 %		0	1,879,999,932	75.20	0.000004
100 %		10	1,880,000,345	-338.40	-0.000018
100 %		20	1,880,000,270	-263.20	-0.000014
100 %		25	1,879,999,781	225.60	0.000012
100 %		30	1,879,999,838	169.20	0.000009
100 %		40	1,879,999,875	131.60	0.000007
100 %		50	1,879,999,951	56.40	0.000003
100 %		60	1,880,000,214	-206.80	-0.000011
85 %	3.15	20	1,880,000,345	-338.40	-0.000018
115 %	4.26	20	1,880,000,270	-263.20	-0.000014
BATT. ENDPOINT	3.04	20	1,879,999,763	244.40	0.000013

9.2 Frequency Stability (PCS WCDMA) (Cont'd)



10.0 PLOT(S) OF EMISSIONS

(SEE ATTACHMENT A)

11.0 TEST EQUIPMENT

TYPE	MODEL	CAL. DUE DATE	CAL. INTERVAL	SERIAL No.
Microwave Spectrum Analyzer	Agilent E4448A (3Hz-50GHz)	09/19/06	Annual	US42510244
Spectrum Analyzer/Tracking Generator	HP 8591A (9kHz-1.8GHz)	06/02/07	Annual	3144A02458
Spectrum Analyzer	HP 8591A (9kHz-1.8GHz)	10/15/06	Annual	3108A02053
Spectrum Analyzer	HP 8594A (9kHz-2.9GHz)	11/02/06	Annual	3051A00187
Signal Generator	HP 8640D (500Hz-1GHz)	12/02/07	Annual	3613A00315
Signal Generator	Rohde & Schwarz (0.1-1GHz)	09/22/06	Annual	894215/012
Ailtech/Eaton Receiver	NM 37/57A-SL (30MHz-1GHz)	04/12/07	Annual	0792-03271
Ailtech/Eaton Receiver	NM 37/57A (30MHz-1GHz)	03/11/07	Annual	0805-03334
Ailtech/Eaton Receiver	NM 17/27A (0.1-32MHz)	09/17/06	Annual	0608-03241
Quasi-Peak Adapter	HP 85650A	08/09/06	Annual	2043A00301
Ailtech/Eaton Adapter	CCA-7 CISPR/ANSI QP Adapter	03/11/07	Annual	0194-04082
RG58 Coax Test Cable	No.167			n/a
Harmonic/Flicker Test System	HP 6841A (IEC 555-2/3)			3531A00115
Broadband Amplifier (2)	HP 8447D			1145A00470, 1937A03348
Broadband Amplifier	HP 8447F			2443A03784
Transient Limiter	HP 11947A (9kHz-200MHz)			2820A00300
Horn Antenna (2)	EMCO Model 3115 (1-18GHz)			9704-5182, 9205-3874
Horn Antenna	EMCO Model 3116 (18-40GHz)			9203-2178
Biconical Antenna (3)	Eaton 94455-1			1295, 1332, 1277
Log-Spiral Antenna (2)	Ailtech/Eaton 93490-1			0227, 1104
Log-Spiral Antenna	Singer 93490-1			147
Roberts Dipoles	Compliance Design (1 set) A100			5118
Ailtech Dipoles	DM-105A (1set)			33448-111
EMCO LISN (3)	3816/2, 3816/2, 3725/2			1077, 1079, 2099
50-ohm Terminator	n/a			n/a
Microwave Preamp 40dB Gain	HP 83017A (0.5-26.5GHz)			3123A00181
Microwave Cables	MicroCoax (1.0-26.5GHz)			n/a
Ailtech/Eaton Receiver	NM37/57A-SL			0792-03271
Spectrum Analyzer	HP 8591A			3034A01395
Modulation Analyzer	HP 8901A			2432A03467
NTSC Pattern Generator	Leader 408			0377433
Noise Figure Meter	HP 8970B, Ailtech 7510			3106A02189, TE31700
Noise Generator	Ailtech 7010			1473
Microwave Survey Meter	Holaday Model 1501 (2.45GHz)			80931
Digital Thermometer	Extech Instruments 421305			426966
Attenuator	HP 8495A (0-70dB) DC-4GHz			
Bi-Directional Coax Coupler	Narda 3020A (50-1000MHz)			
Shielded Screen Room	RF Lindgren Model 26-2/2-0	N/A		6710 (PCT270)
Shielded Semi-Anechoic Chamber	Ray Proof Model S81	N/A		R2437 (PCT278)
Environmental Chamber	Associated Systems 1025			PCT285
OATS	n/a	12/31/2006	Tri-annual	

Table 11-1. Test Equipment

PCTEST™ PT. 22/24 WCDMA TEST REPORT		FCC MEASUREMENT REPORT (WCDMA)		Reviewed by: Quality Manager	
Test Report S/N: 0607050571-W	Test Dates: July 11 - 13, 2006	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone w/ Bluetooth	FCC ID: BEJCU400	Page 24 of 26	

12.0 SAMPLE CALCULATIONS

Emission Designator

Emission Designator = 4M25F9W

WCDMA BW = 4.25 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data) (Measured at the 99.75% power bandwidth)

Spurious Radiated Emission - PCS Band

Example: Channel 9262 PCS Mode 2nd Harmonic (3704.80 MHz)

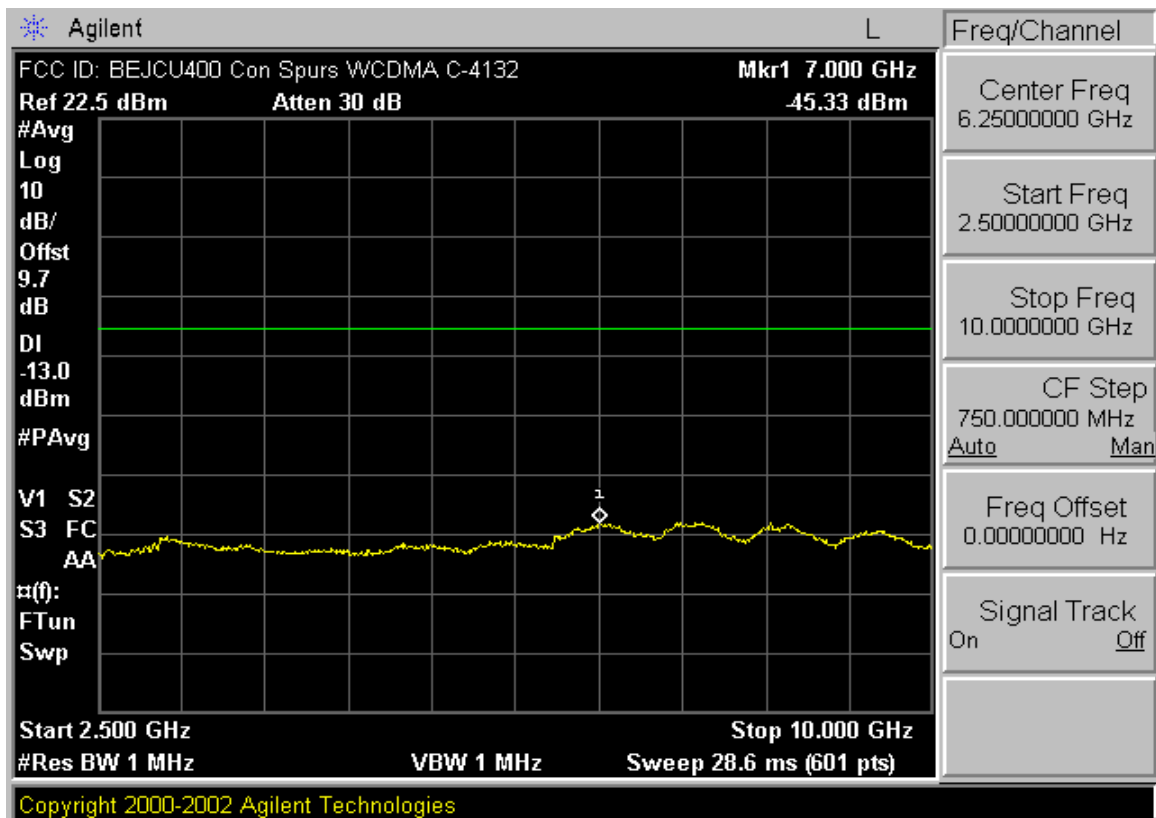
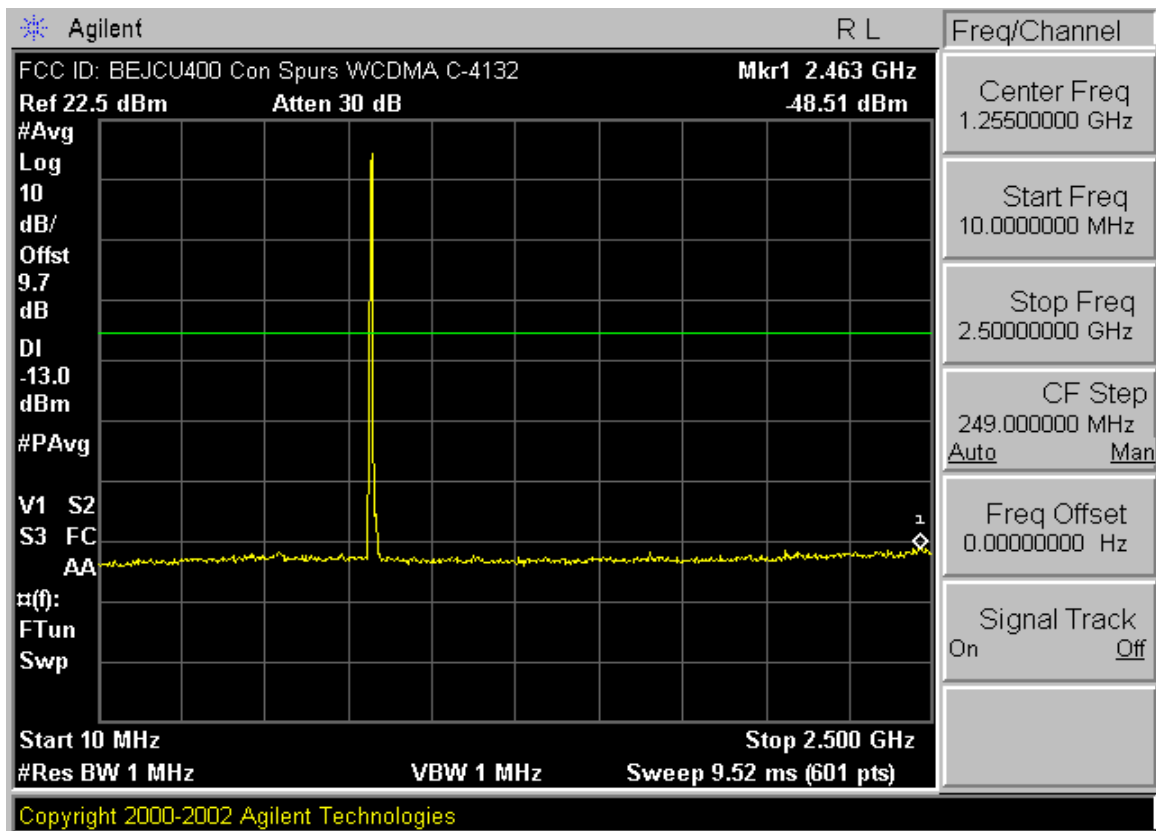
The receive analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the receive analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3704.80 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm - (-24.80) = 50.3 dBc.

PCTEST™ PT. 22/24 WCDMA TEST REPORT		FCC MEASUREMENT REPORT (WCDMA)		Reviewed by: Quality Manager
Test Report S/N: 0607050571-W	Test Dates: July 11 - 13, 2006	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone w/ Bluetooth	FCC ID: BEJCU400	Page 25 of 26

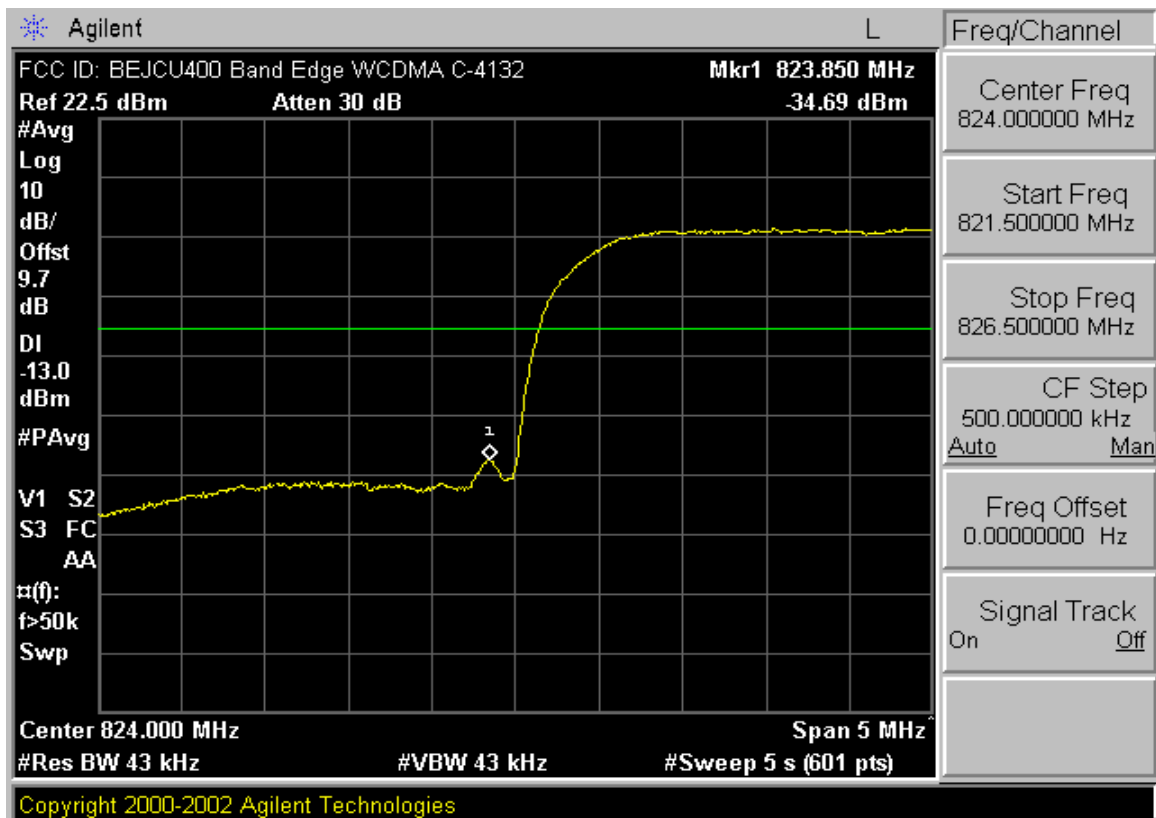
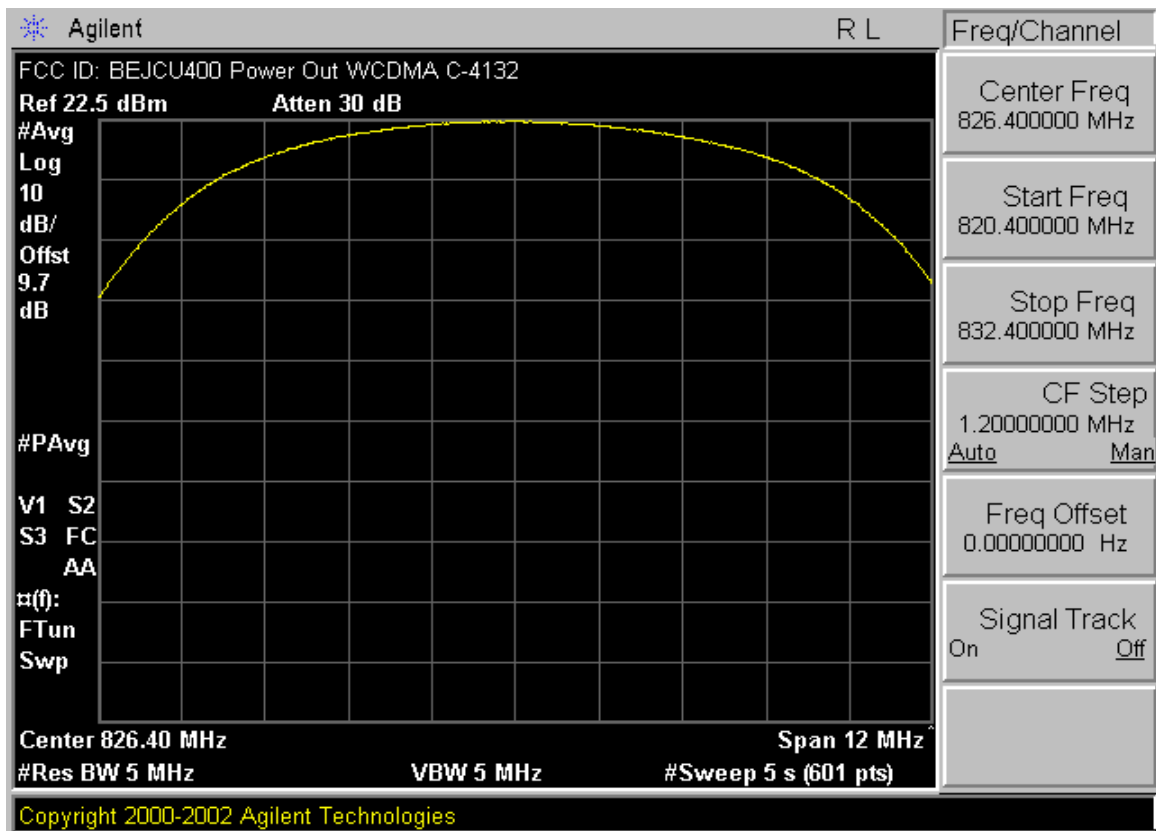
13.0 CONCLUSION

The data collected shows that the LG Electronics Dual-Band Dual-Mode GSM/WCDMA Phone w/ Bluetooth FCC ID: BEJCU400 complies with all the requirements of Parts 2, 22, and 24 of the FCC rules.

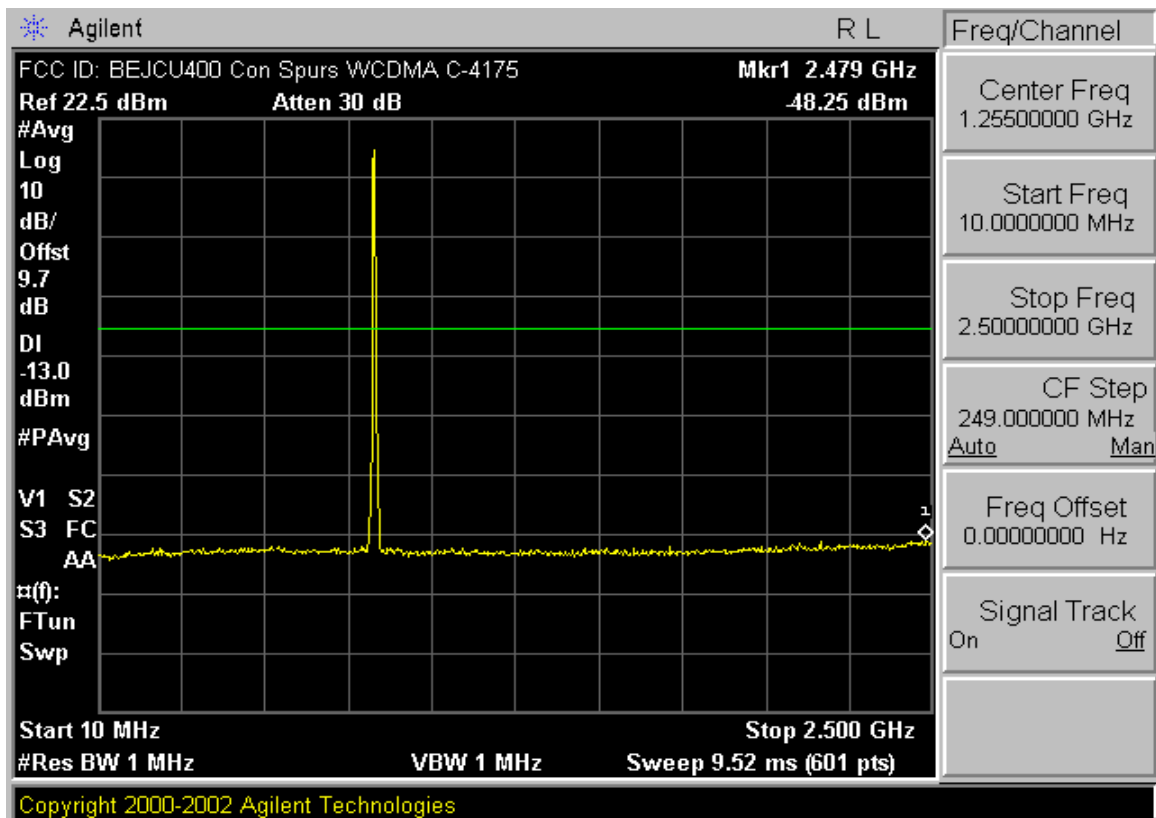
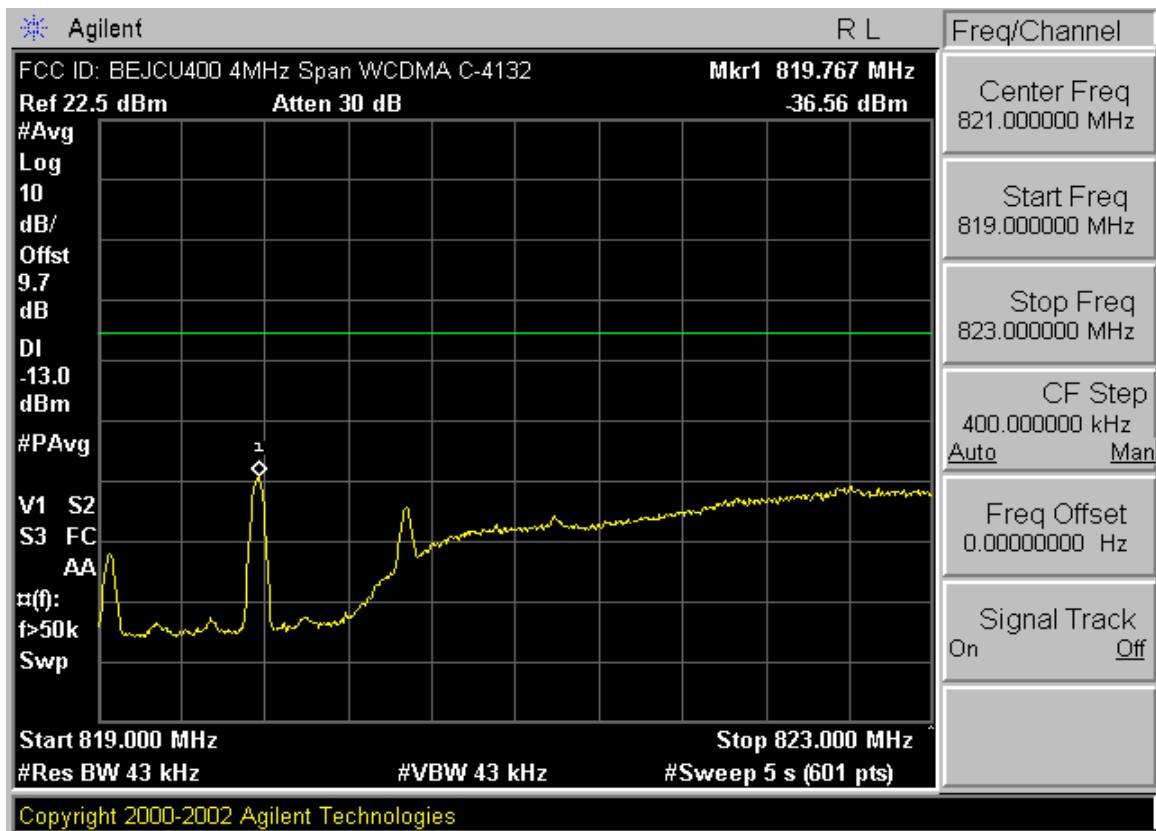
PCTEST™ PT. 22/24 WCDMA TEST REPORT		FCC MEASUREMENT REPORT (WCDMA)		Reviewed by: Quality Manager
Test Report S/N: 0607050571-W	Test Dates: July 11 - 13, 2006	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone w/ Bluetooth	FCC ID: BEJCU400	Page 26 of 26



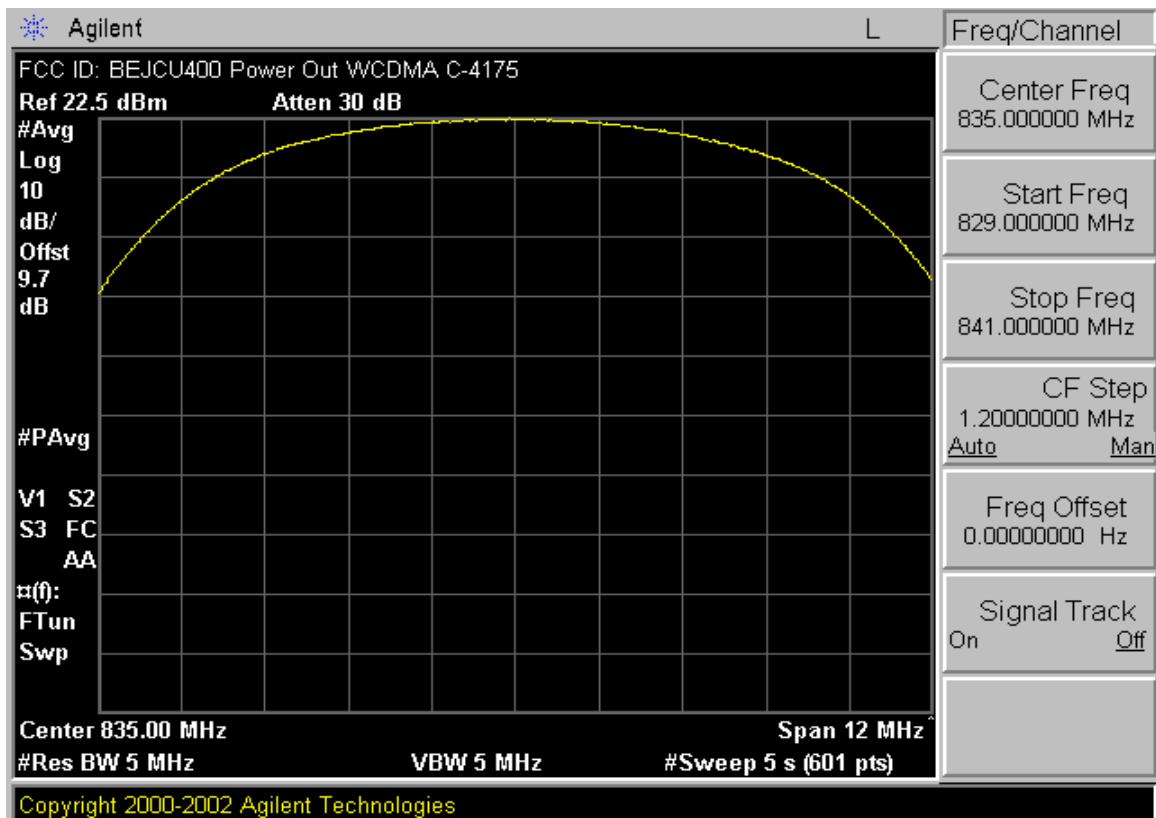
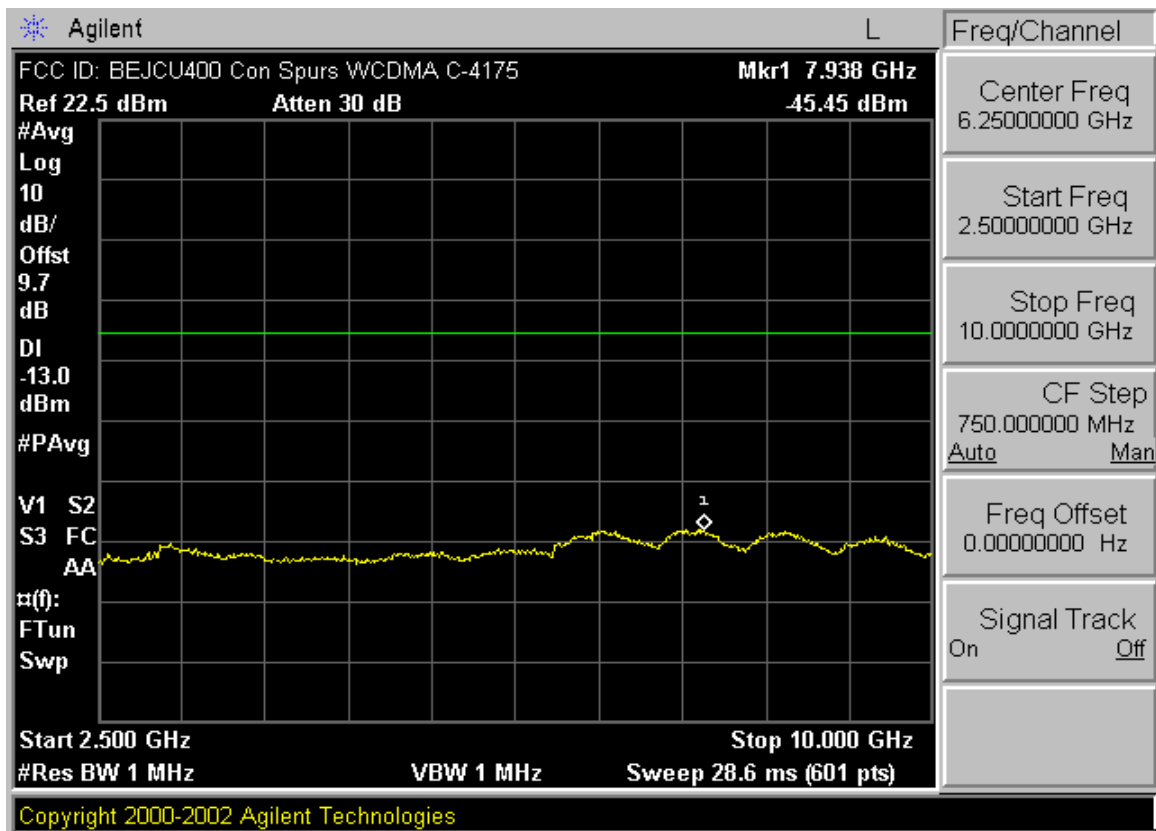
PCTEST™ PT. 22/24 CONDUCTED PLOTS	 WCDMA MODE			Reviewed by: Quality Manager
Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 1 of 15



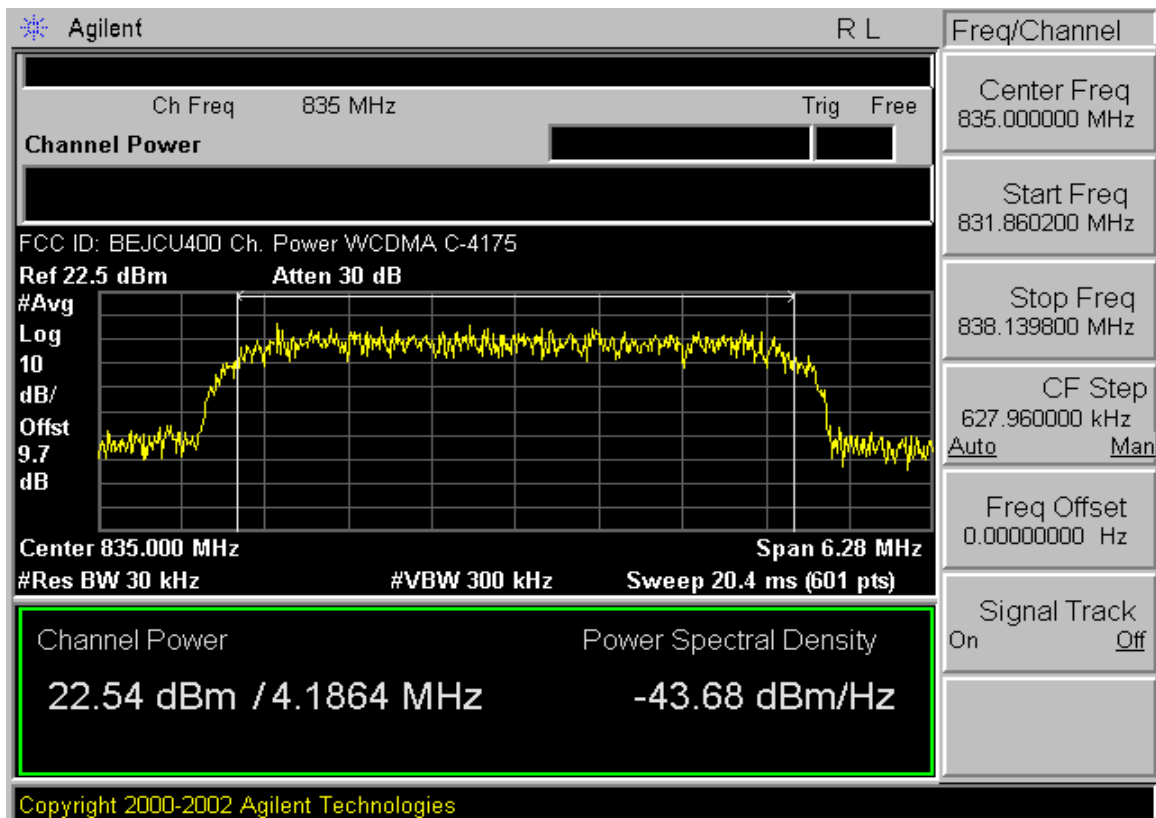
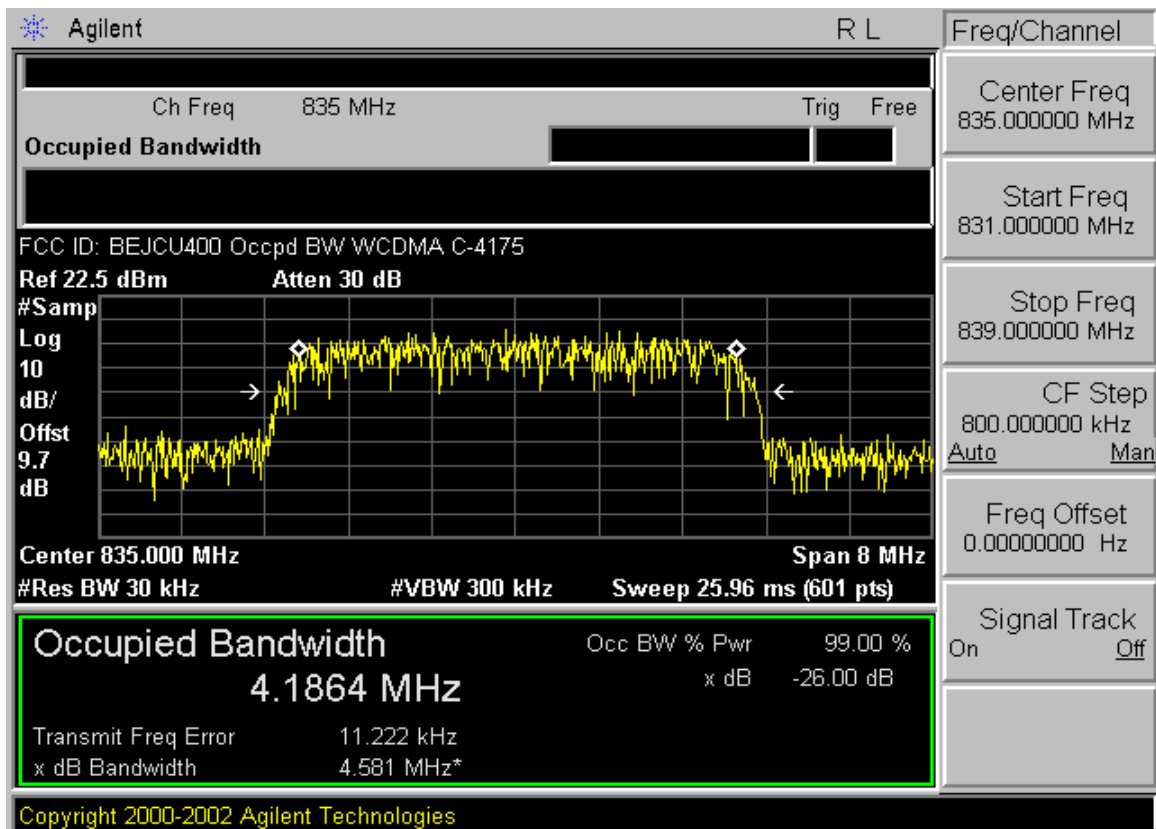
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Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 2 of 15	



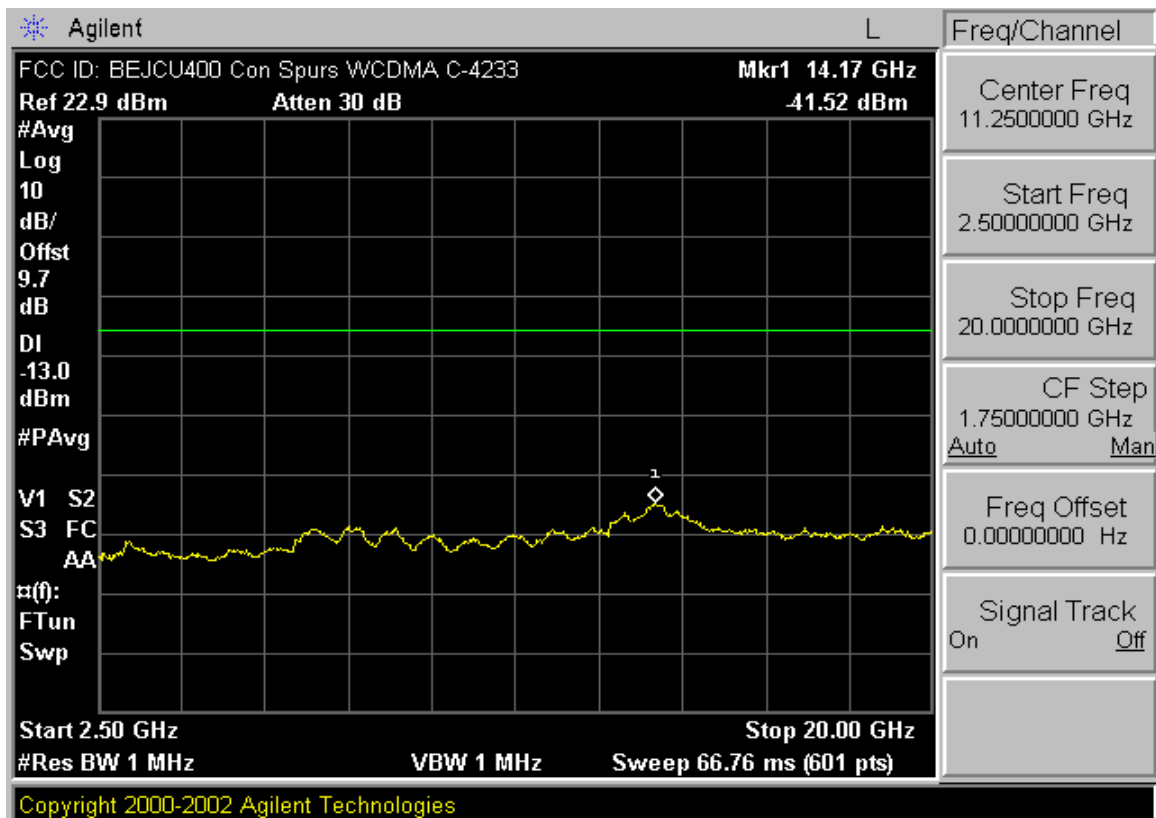
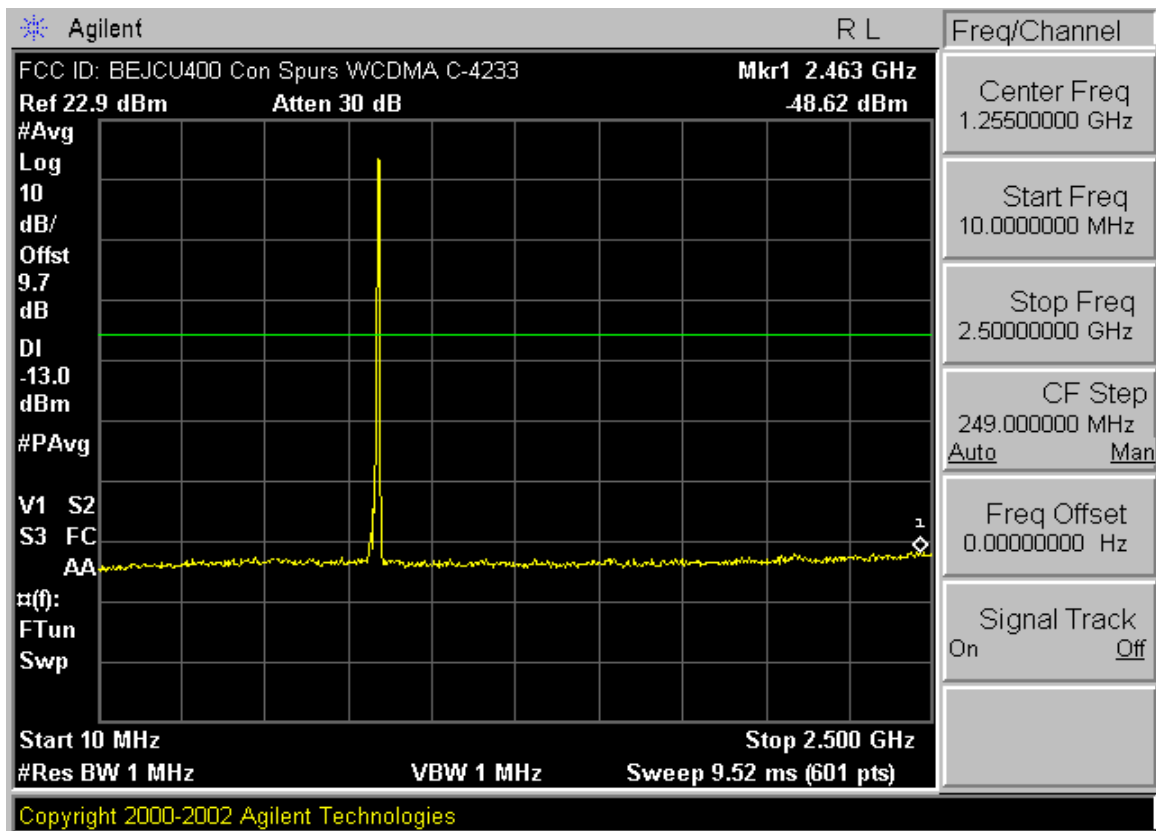
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Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 3 of 15	



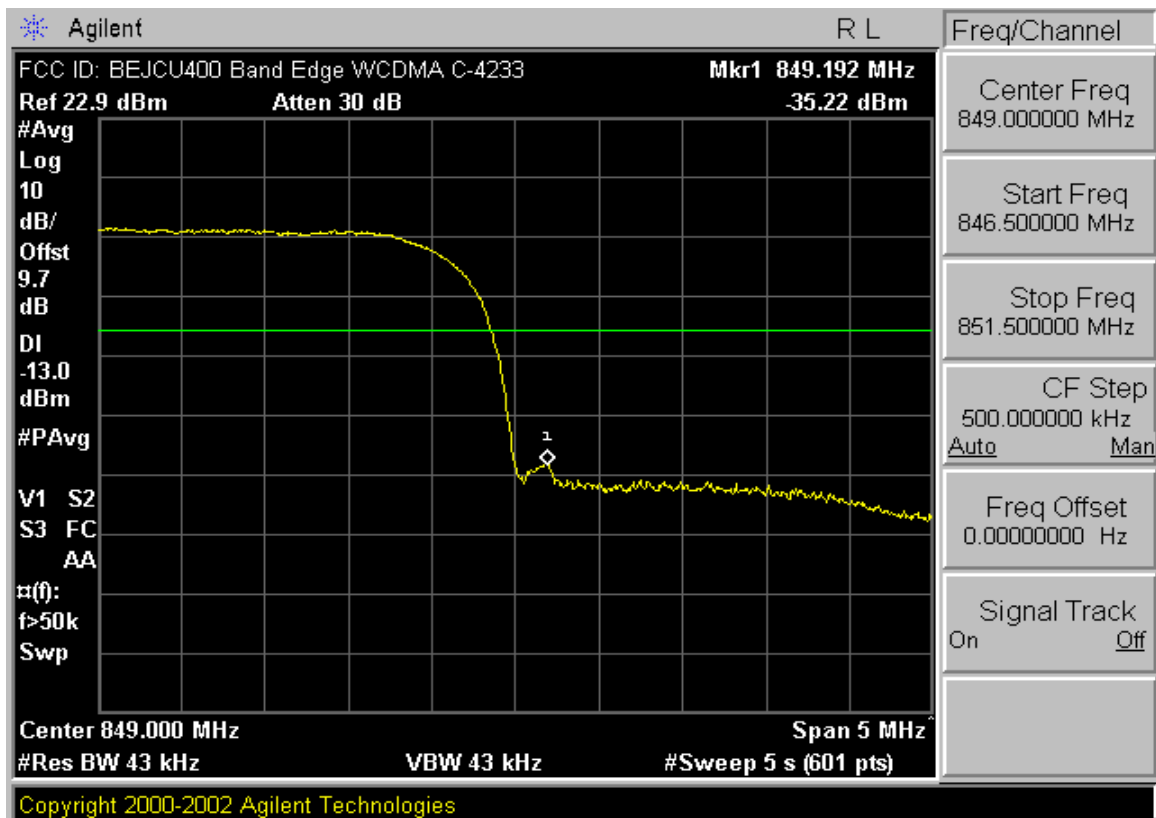
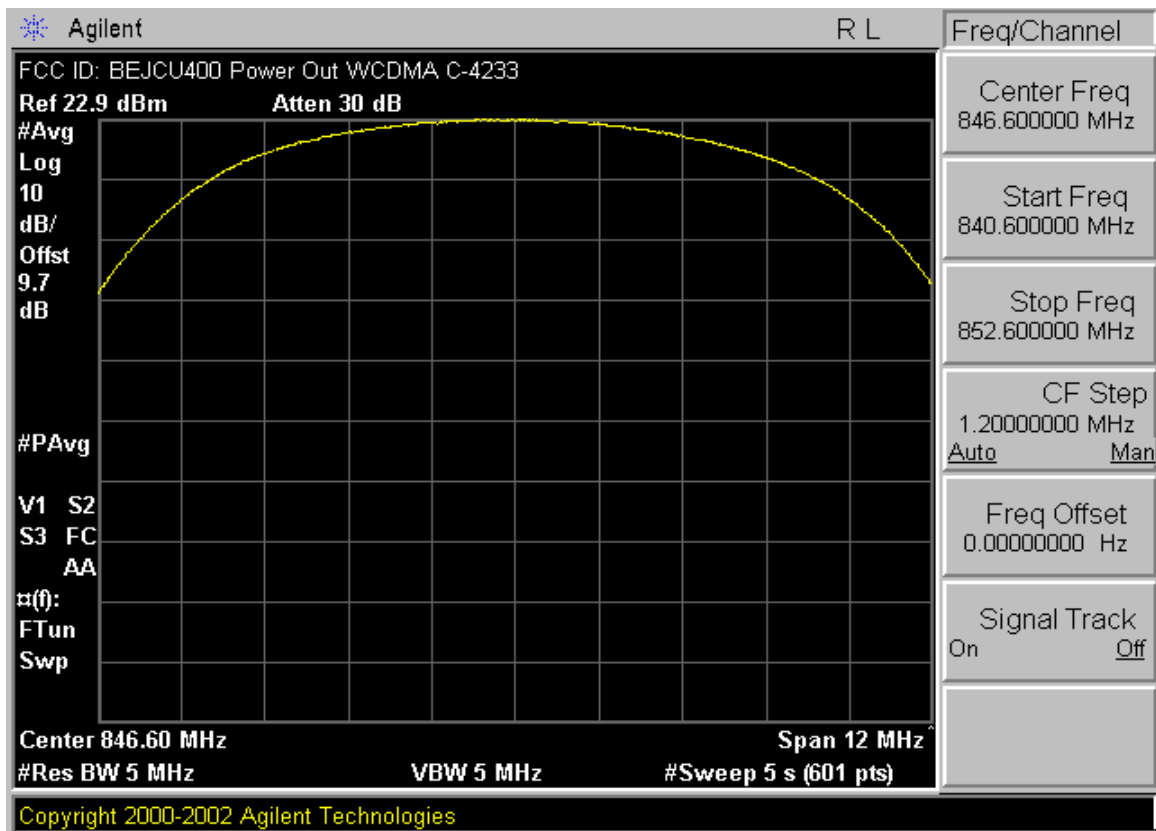
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Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 4 of 15



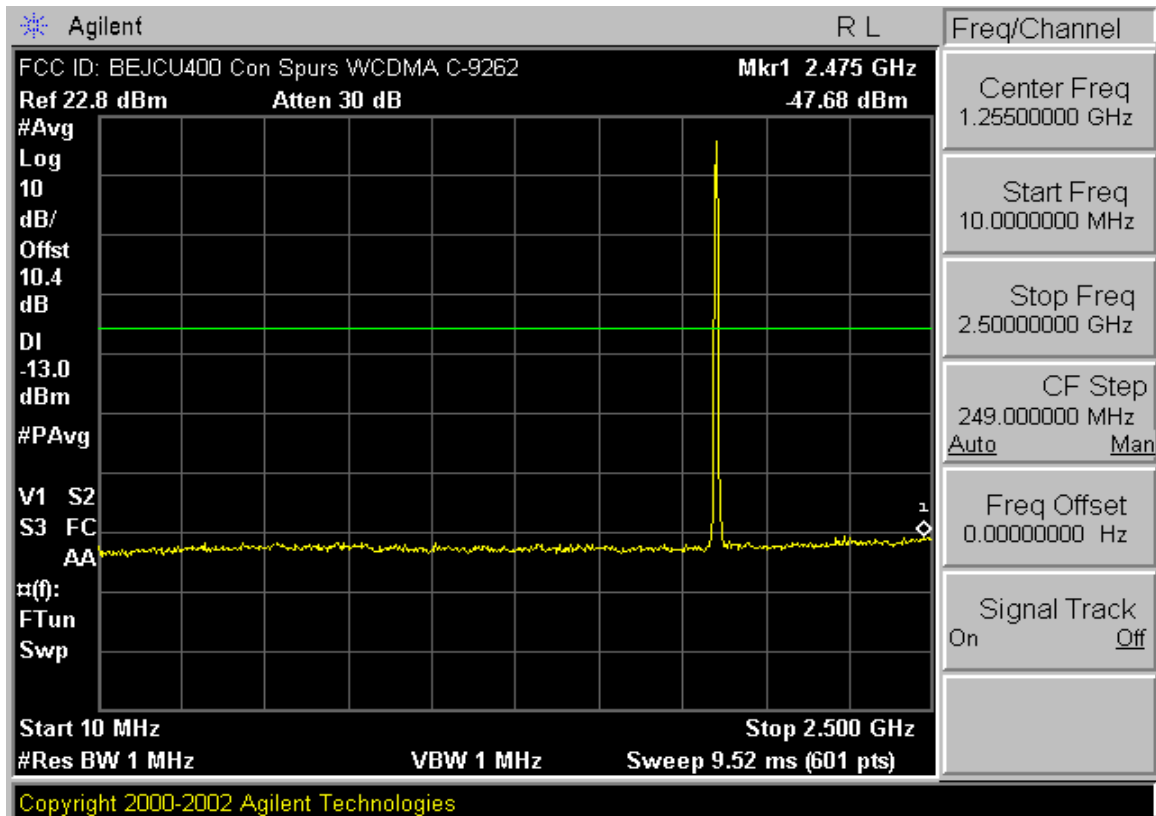
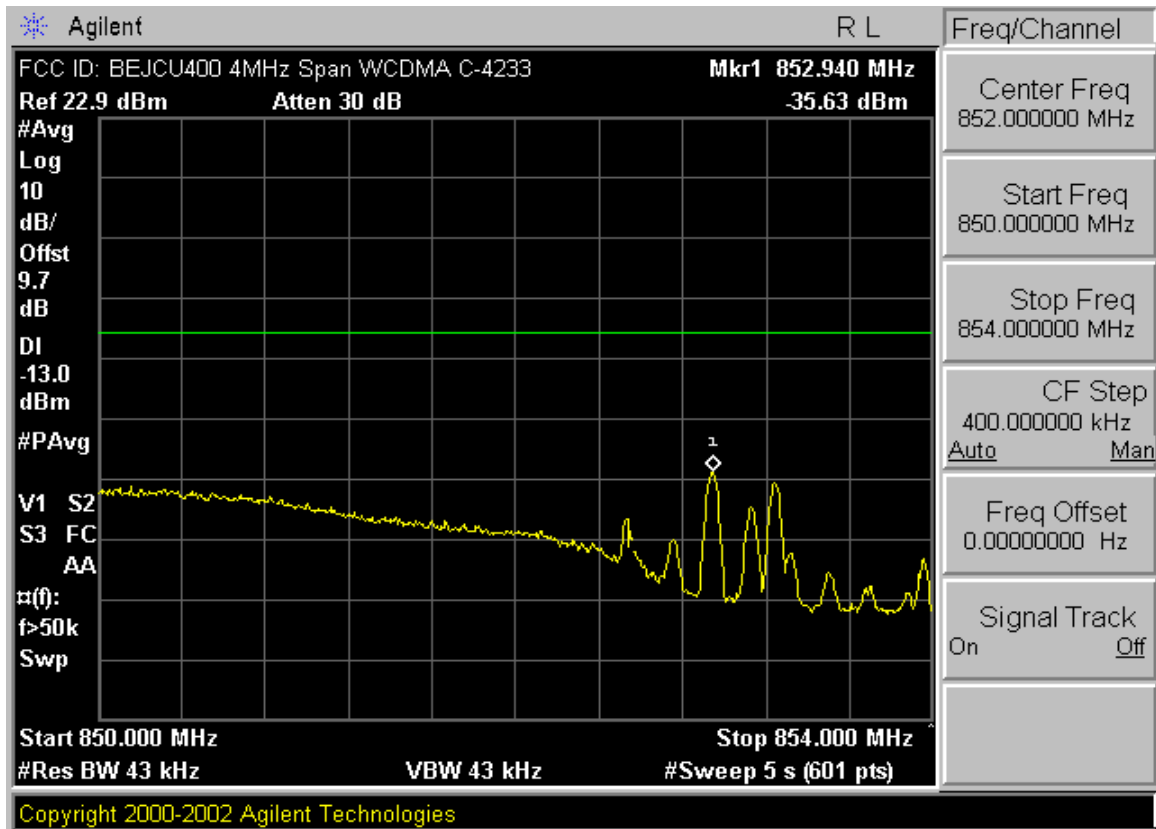
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Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 5 of 15



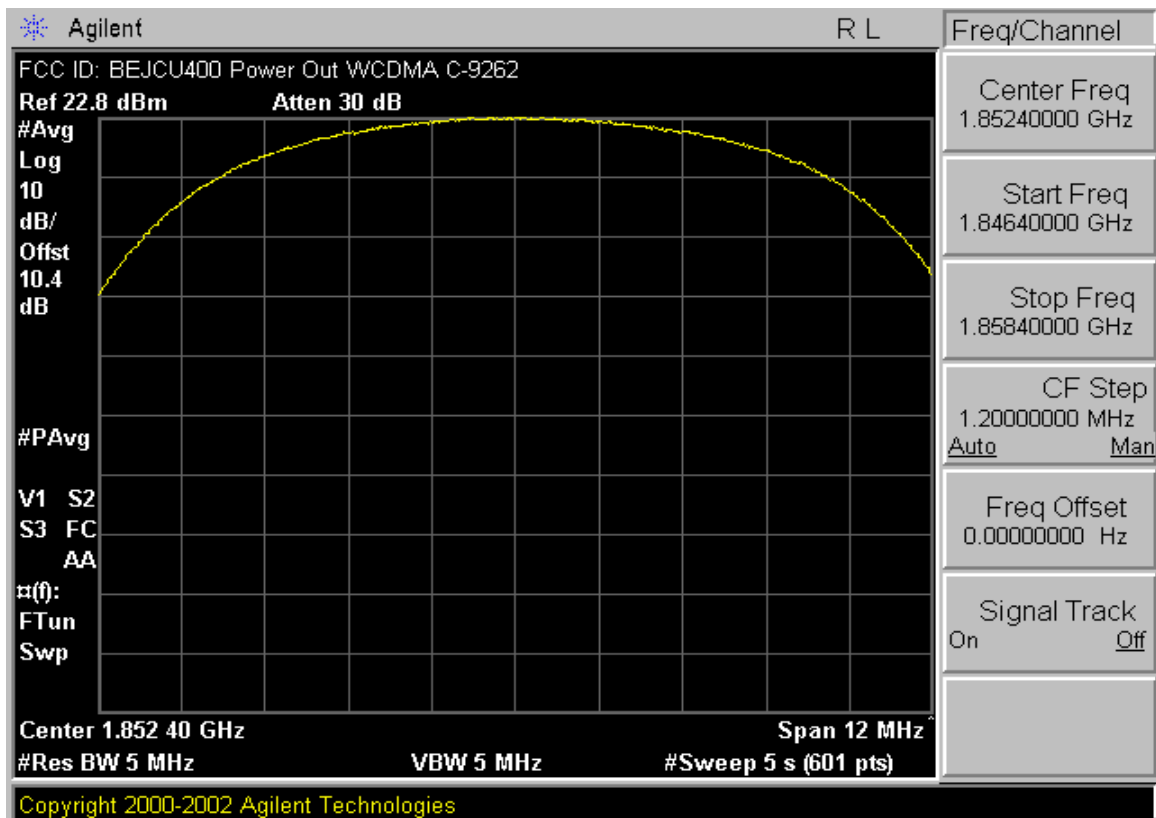
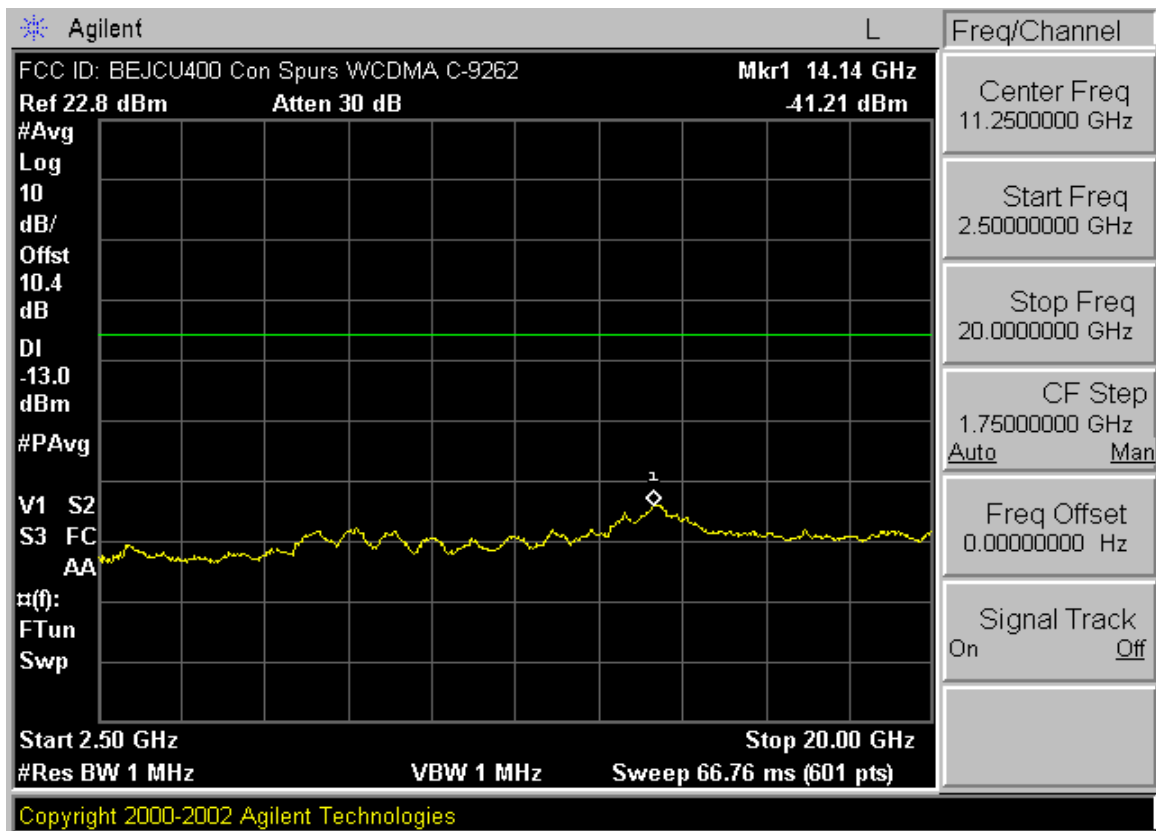
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Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 6 of 15	



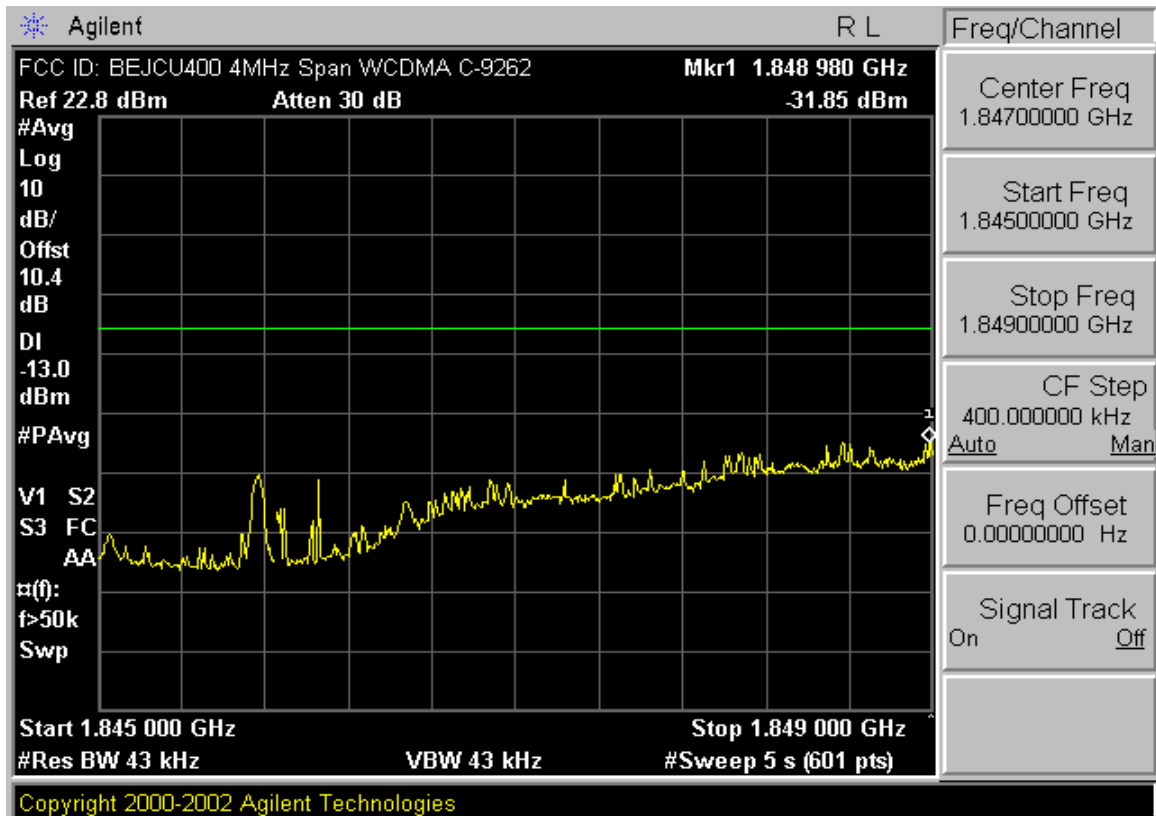
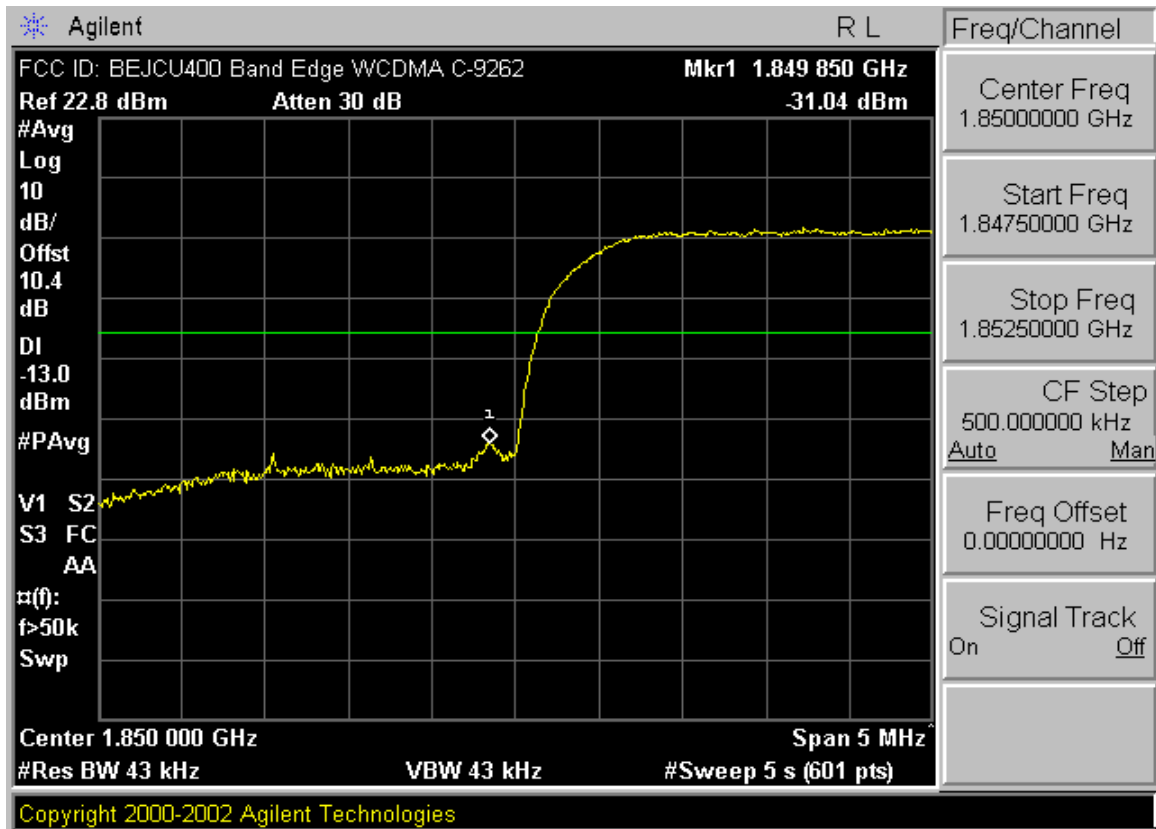
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Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 7 of 15



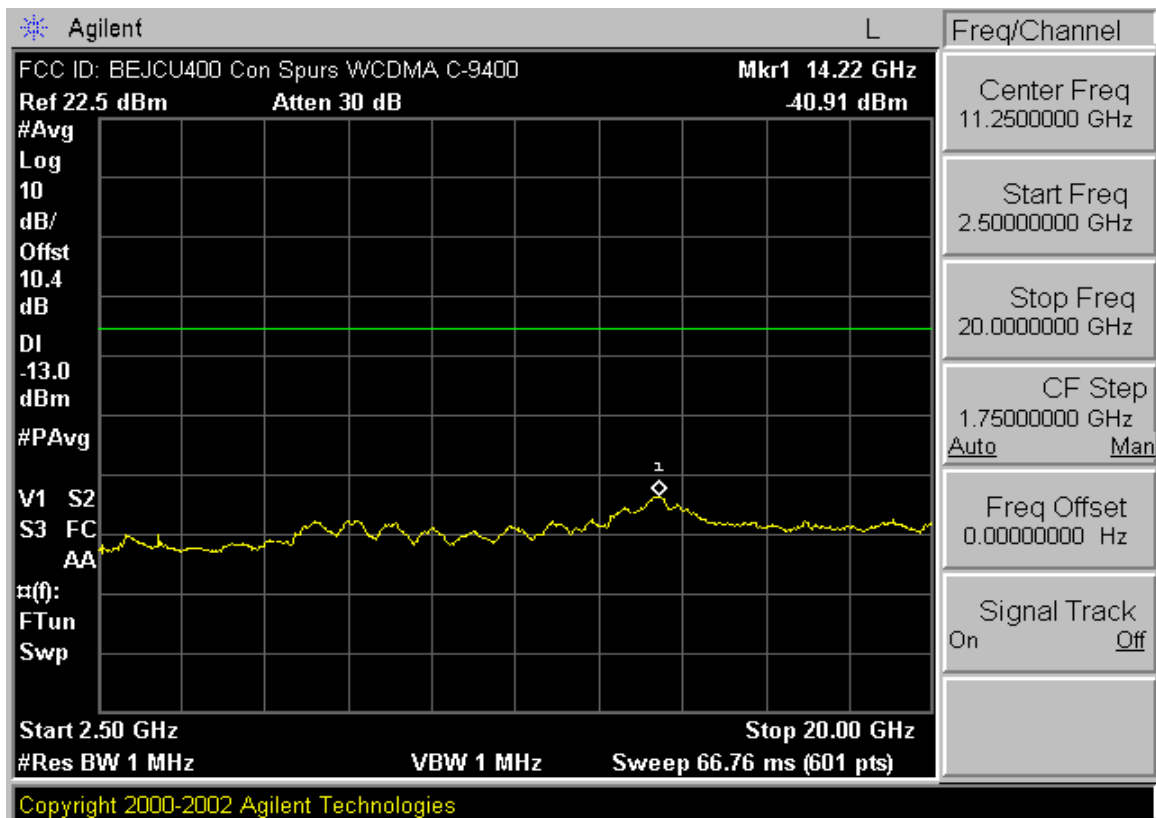
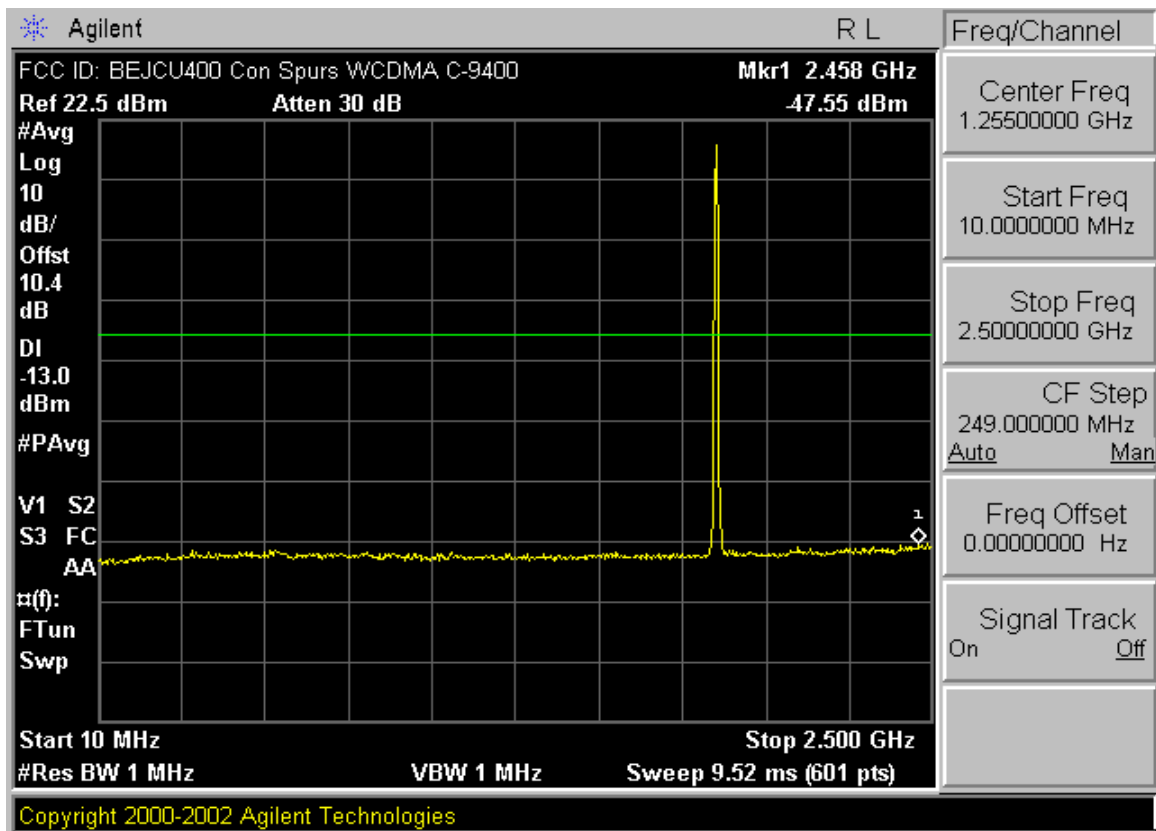
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Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 8 of 15



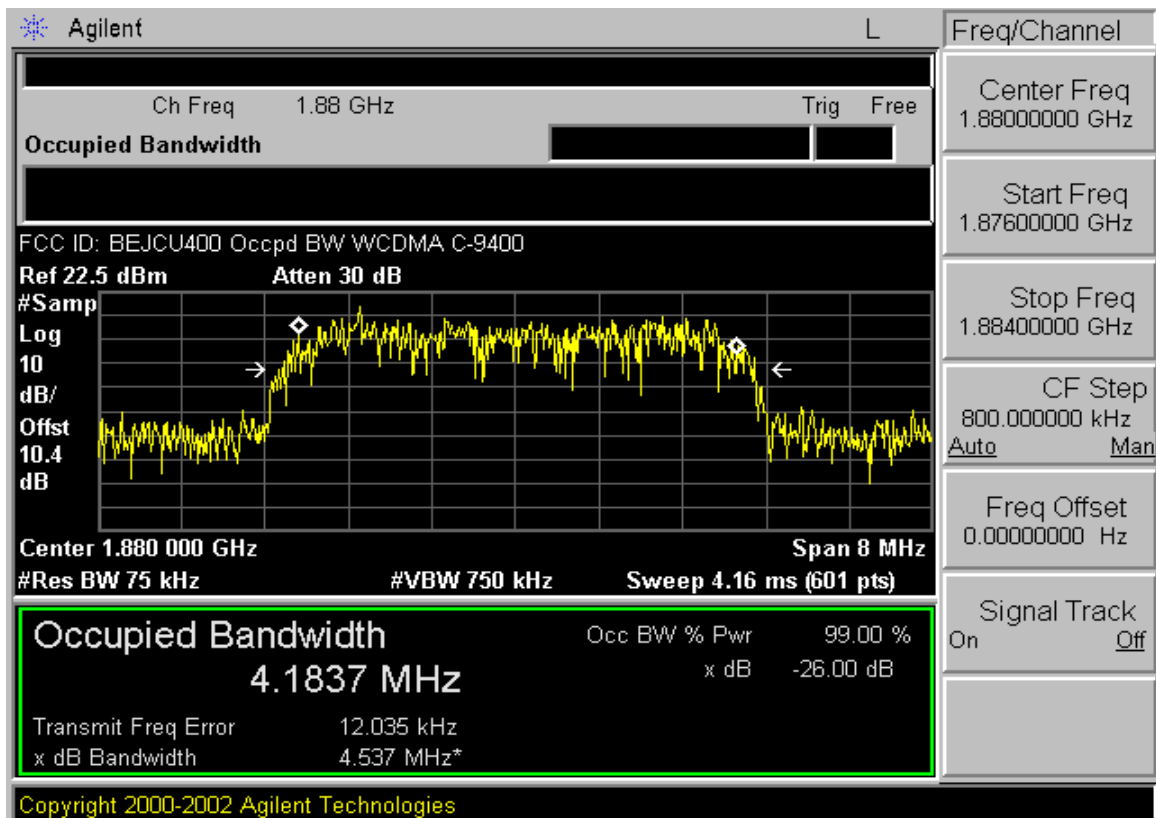
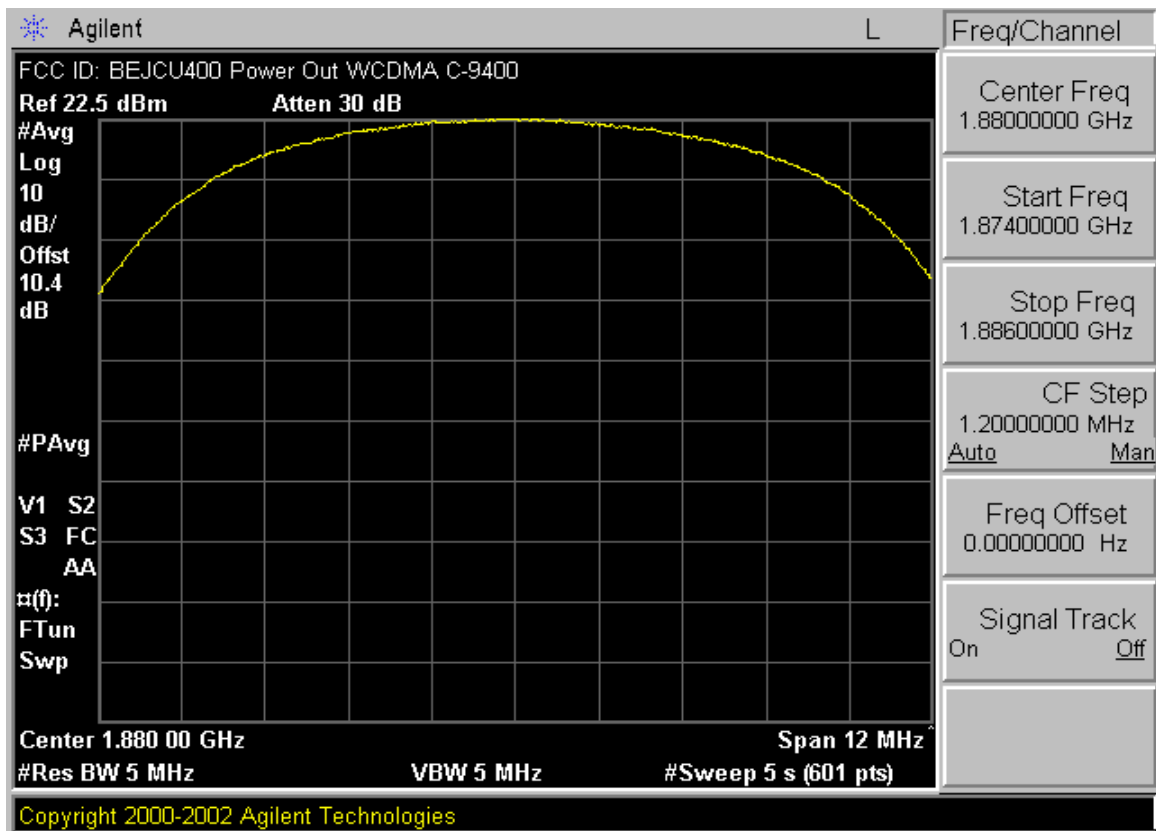
PCTEST™ PT. 22/24 CONDUCTED PLOTS	 WCDMA MODE			Reviewed by: Quality Manager
Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 9 of 15



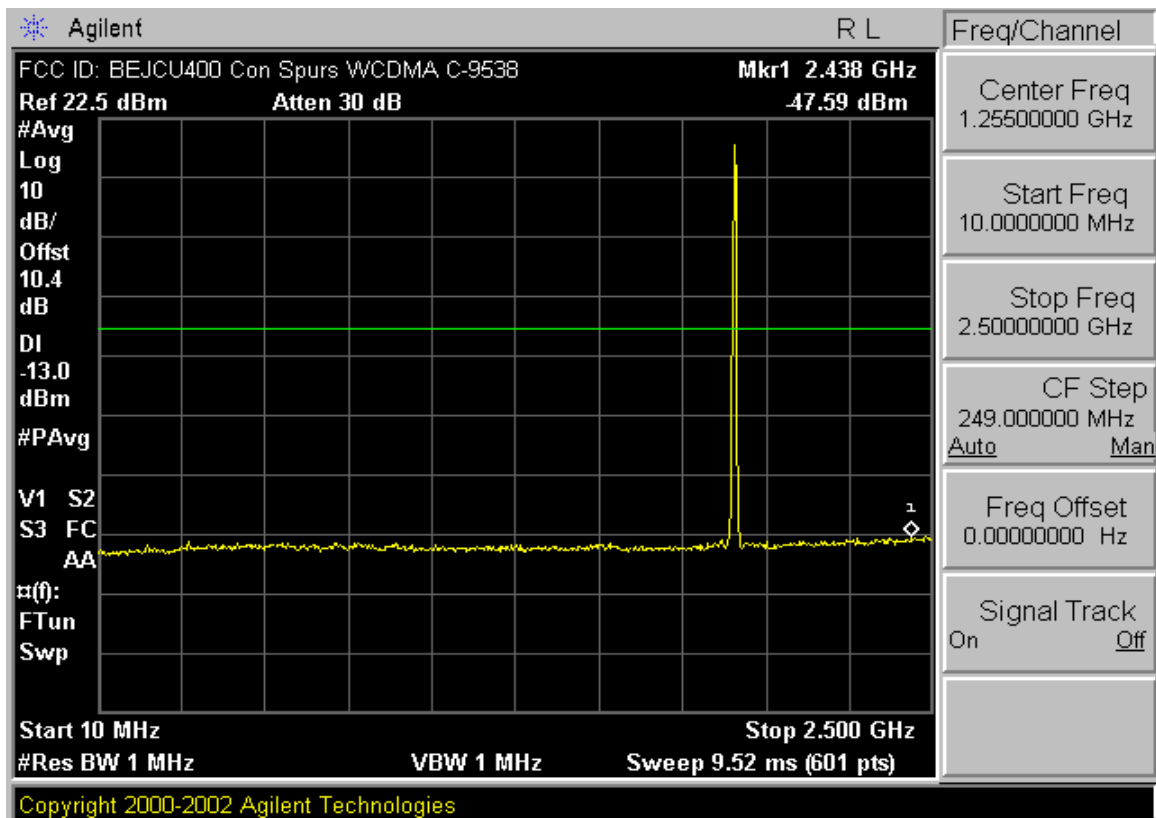
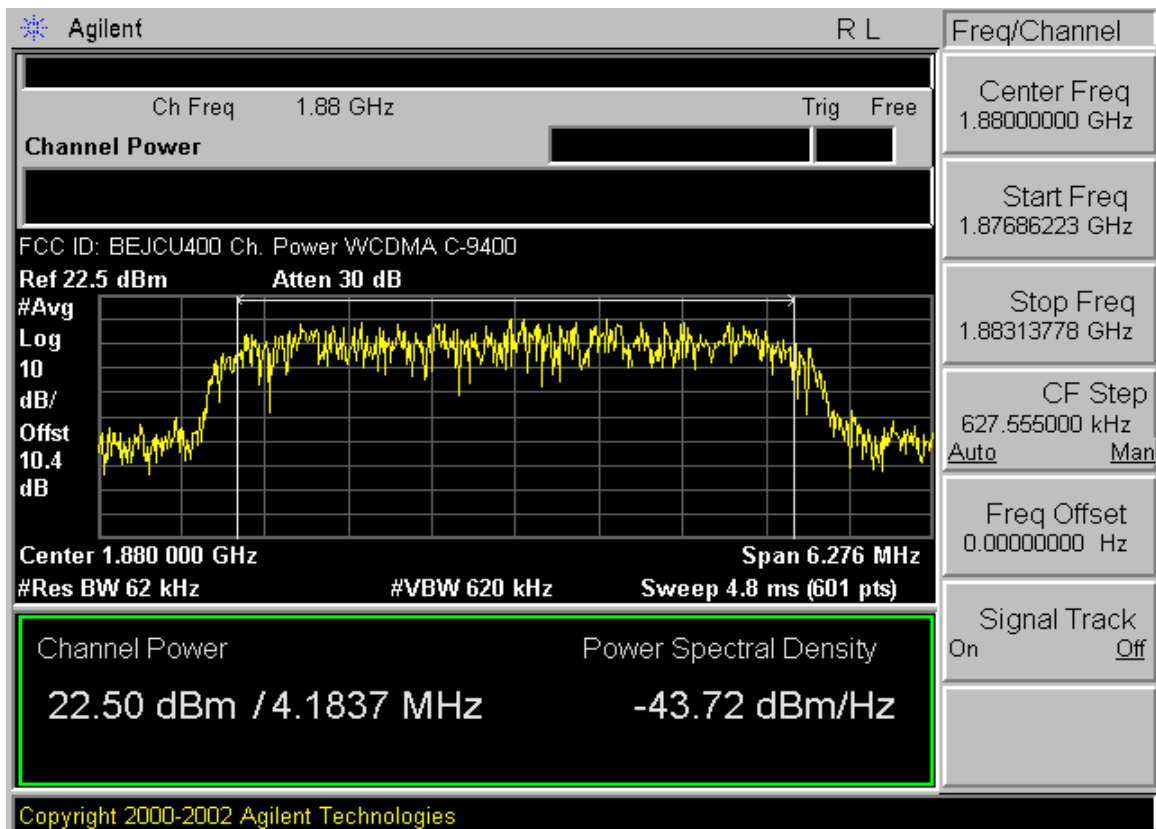
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Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 10 of 15



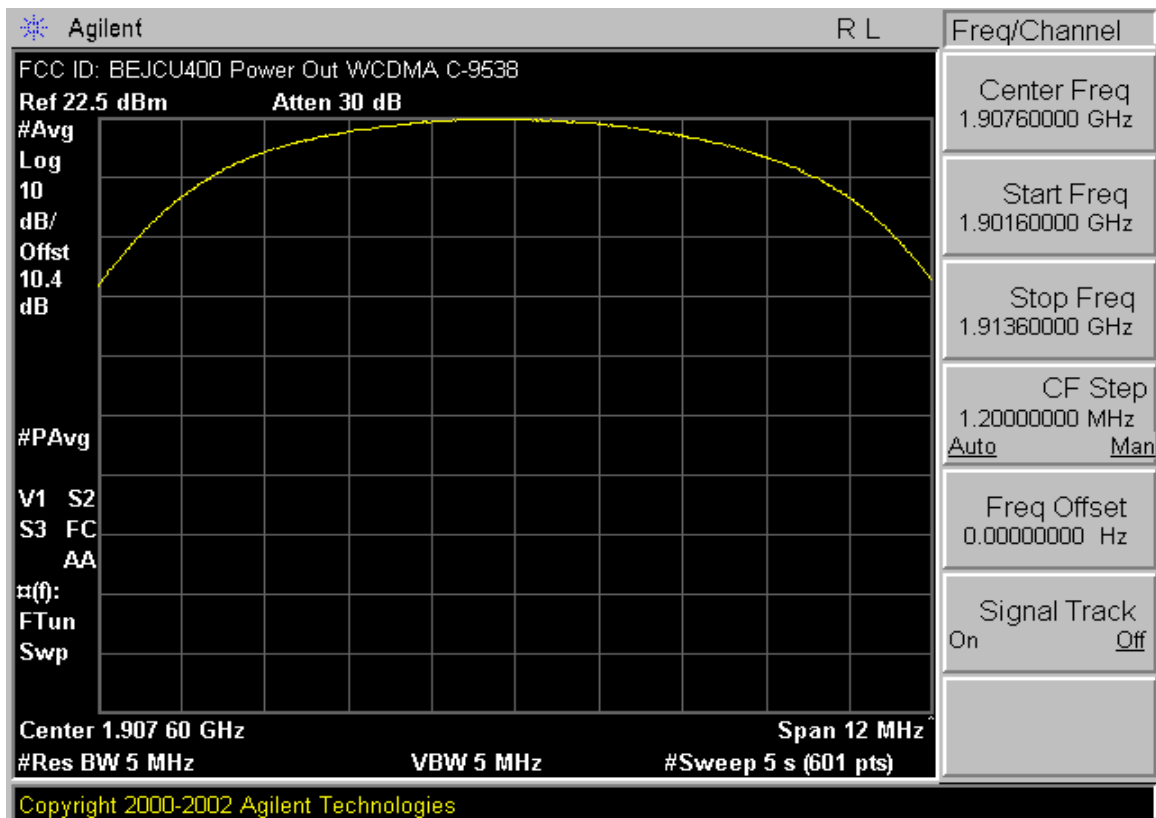
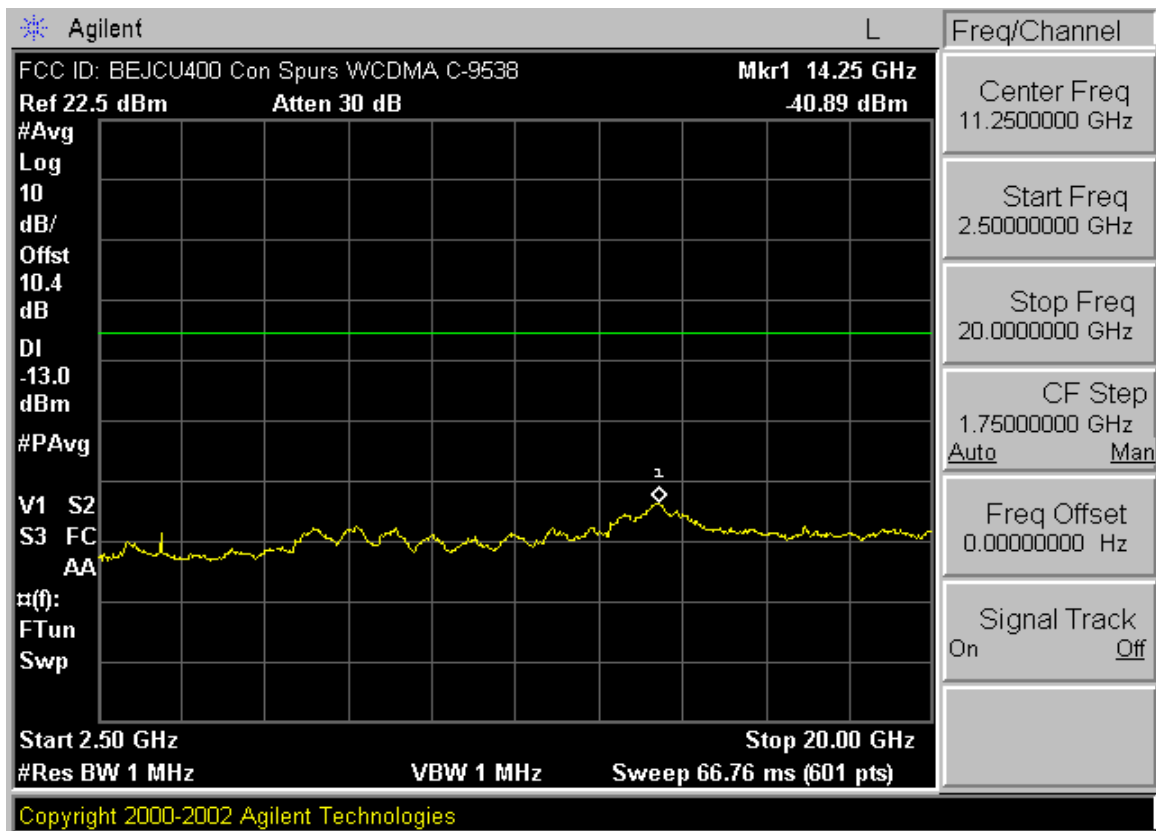
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Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 11 of 15	



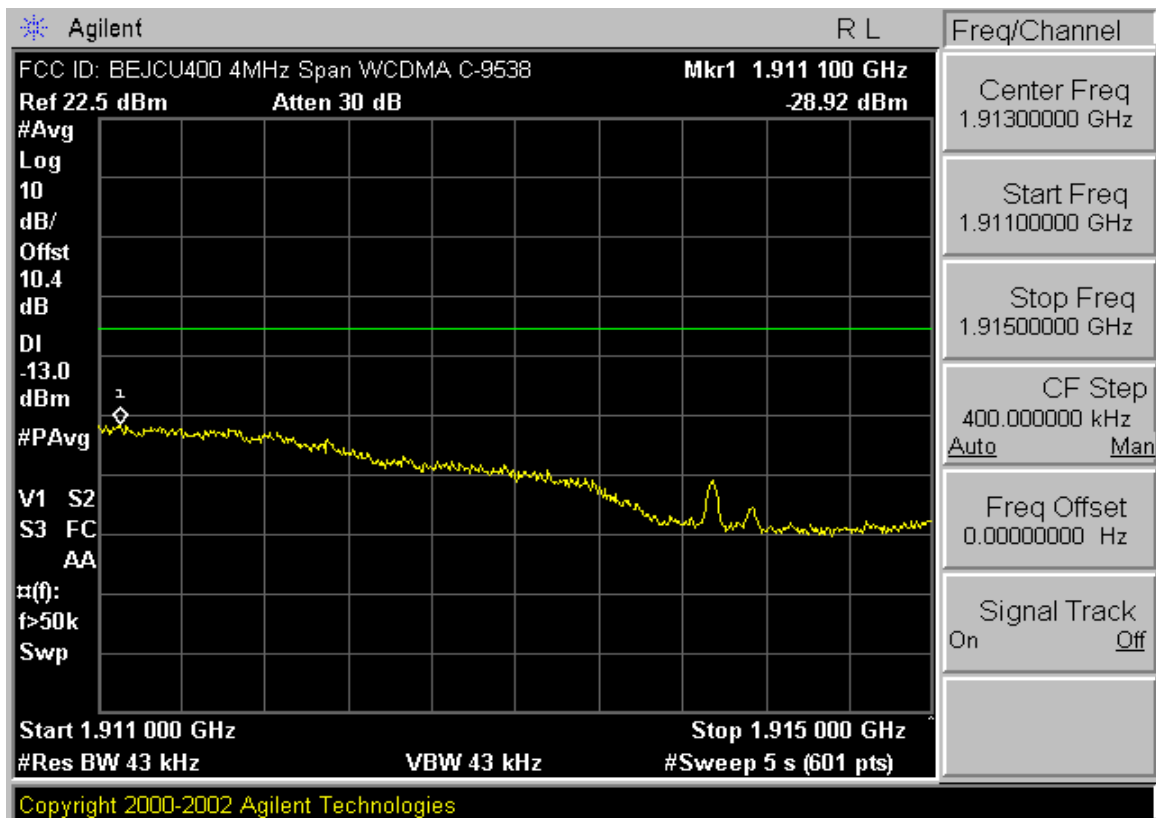
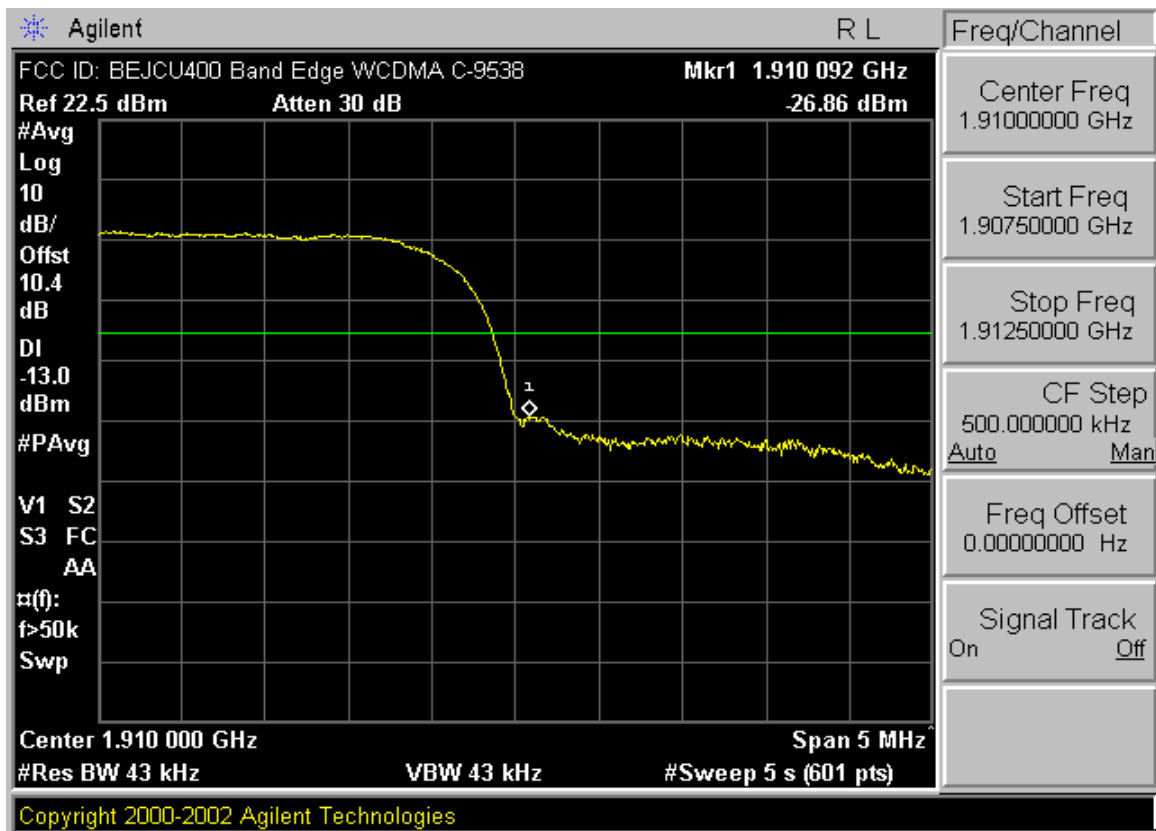
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Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 12 of 15	



PCTEST™ PT. 22/24 CONDUCTED PLOTS	 WCDMA MODE			Reviewed by: Quality Manager
Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 13 of 15



PCTEST™ PT. 22/24 CONDUCTED PLOTS	 WCDMA MODE			Reviewed by: Quality Manager
Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 14 of 15



PCTEST™ PT. 22/24 CONDUCTED PLOTS	 WCDMA MODE			Reviewed by: Quality Manager
Test Report S/N: 0607050571-W	Test Dates: July 11 - July 13, 2006	EUT Type: Dual-Band WCDMA Dual-Band GSM Phone w/ Bluetooth	FCC ID: BEJCU400	Page 15 of 15