



PCTEST ENGINEERING LABORATORY, INC.

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CERTIFICATE OF COMPLIANCE FCC Part 22 & 24 Certification

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

Date of Testing:
January 10 - 12, 2007
Test Site/Location:
PCTEST Lab., Columbia, MD, USA
Test Report Serial No.:
0612181124

FCC ID: BEJCU405

APPLICANT: LG ELECTRONICS USA

Application Type: Certification
FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s): §2; §22(H), §24(E)
EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x
Model(s): CU405
Tx Frequency Range: 824.20 - 848.80MHz (Cell. GSM) / 1850.20 - 1909.80MHz (PCS GSM)
Rx Frequency Range: 869.20 - 893.80MHz (Cell. GSM) / 1930.20 - 1989.80MHz (PCS GSM)
Max. RF Output Power: 2.558 W ERP Cell GSM (34.080 dBm)/0.925 W EIRP PCS GSM (29.660 dBm)
1.045 W ERP EDGE850 (30.190 dBm)/0.387 W EIRP EDGE1900 (25.880 dBm)
0.142 W ERP WCDMA850 (21.520 dBm)/0.117 W EIRP WCDMA1900 (20.670 dBm)
Emission Designator(s): 276KGXW (Cellular GSM), 277KGXW (PCS GSM)
274KG7W (EDGE850), 248KG7W (EDGE1900)
4M19F9W (Cellular WCDMA), 4M17F9W (PCS WCDMA)
Test Device Serial No.: identical prototype [S/N: N/A]

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. This device also contains functions that are not operational in U.S. territories. This report is applicable only to U.S. operations.

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



FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 1 of 60

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MEASUREMENT REPORT



FCC Part 22 & 24

A. §2.1033 General Information

APPLICANT: LG Electronics USA
APPLICANT ADDRESS: 1000 Sylvan Avenue
 Englewood Cliffs, NJ 07632
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S): §2; §22(H), §24(E)
MODEL NAME: CU405
FCC ID: BEJCU405
FCC CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)
 276KGXW (Cellular GSM), 277KGXW (PCS GSM)
 274KG7W (EDGE850), 248KG7W (EDGE1900)
 4M19F9W (Cellular WCDMA), 4M17F9W (PCS WCDMA)
EMISSION DESIGNATOR(S):
MODE: GSM/EDGE/WCDMA
FREQUENCY TOLERANCE: $\pm 0.00025\%$ (2.5 ppm)
Test Device Serial No.: N/A ☐ Production ☒ Pre-Production ☐ Engineering
DATE(S) OF TEST: January 10 - 12, 2007
TEST REPORT S/N: 0612181124

A.1 Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21045, U.S.A.



- PCTEST facility is an FCC registered (PCTEST Reg. No. 90864) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (IC-2451).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (IC-2451) test laboratory with the site description on file at Industry Canada.

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- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (IC-2451) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EvDO wireless devices and for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.

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1.0 INTRODUCTION

1.1 Measurement Procedure

The radiated spurious measurements were made outdoors at a 3-meter test range (see Figure 1-1). 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.

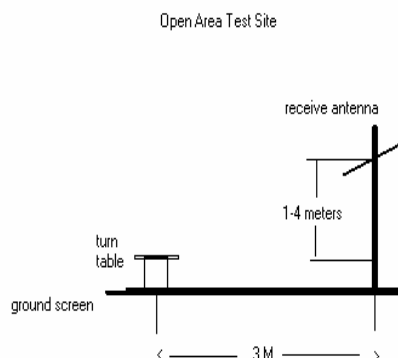


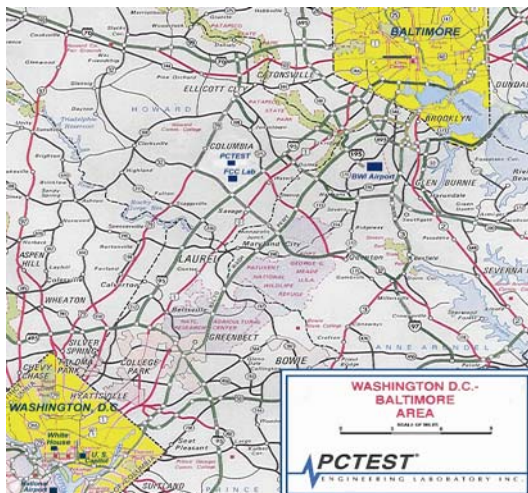
Figure 1-1. Diagram of 3-meter outdoor test range

Deviation from Measurement Procedure.....None

1.2 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.

1.3 Testing Facility



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.

Figure 1-3. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LGE Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x FCC ID: BEJCU405**. The EUT consisted of the following components(s):

Manufacturer / Description	FCC ID	Serial Number
LGE Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x	BEJCU405	N/A

Table 2-1. EUT Equipment Description

2.2 EMI Suppression Device(s)/Modifications

EMI suppression device(s) added and/or modifications made during testing.

- None

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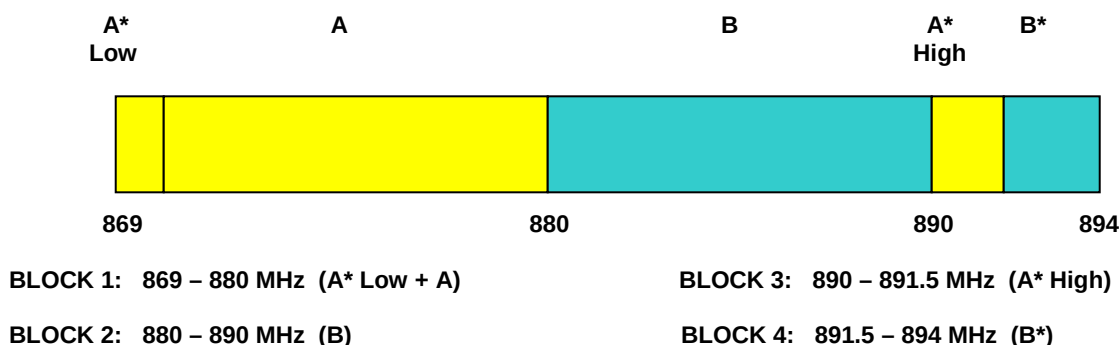
3.0 DESCRIPTION OF TESTS

3.1 Occupied Bandwidth Emission Limits

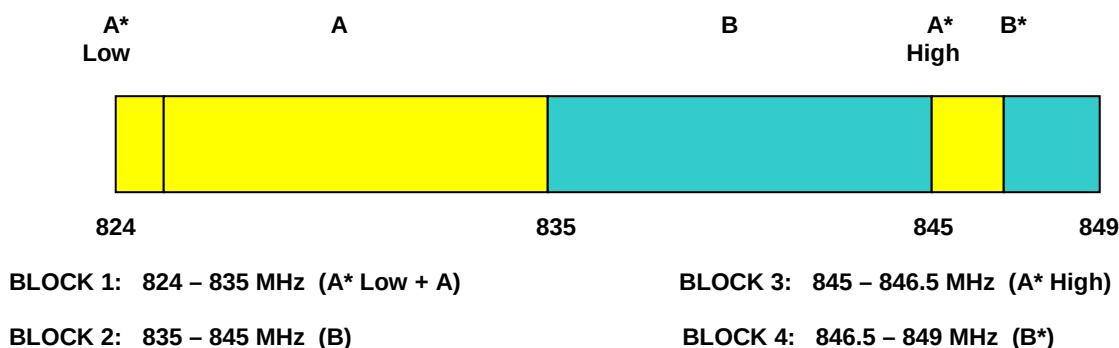
§2.1049, 22.917(a), 24.238(a)

- 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.
- 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.

3.2 Cellular - Base Frequency Blocks

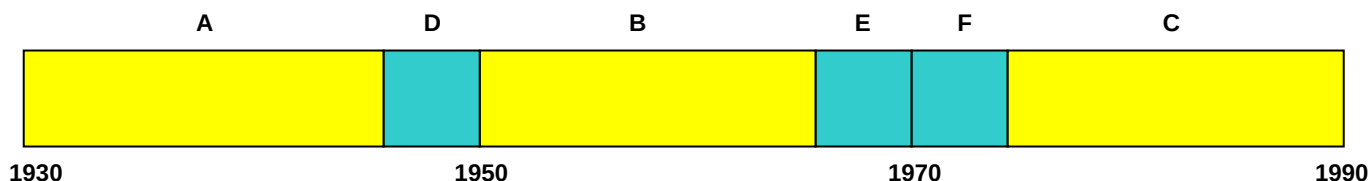


3.3 Cellular - Mobile Frequency Blocks



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3.4 PCS - Base Frequency Blocks



BLOCK 1: 1930 – 1945 MHz (A)

BLOCK 4: 1965 – 1970 MHz (E)

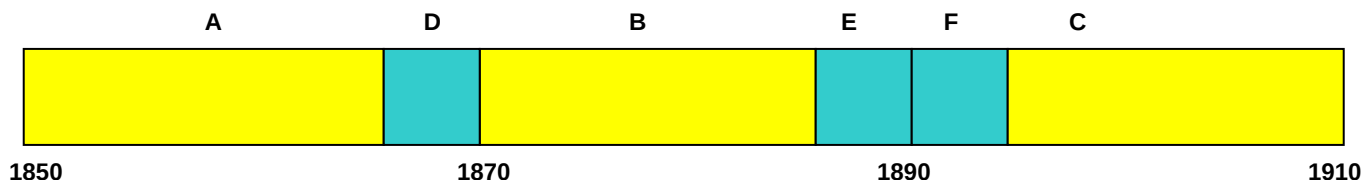
BLOCK 2: 1945 – 1950 MHz (D)

BLOCK 5: 1970 – 1975 MHz (F)

BLOCK 3: 1950 – 1965 MHz (B)

BLOCK 6: 1975 – 1990 MHz (C)

3.5 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)

3.6 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, 22.917(a), 24.238(a); RSS-129 (8.1.1), RSS-133 (6.5.1)

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic.

3.7 Radiated Spurious and Harmonic Emissions

§2.1053, 22.917(a), 24.238(a); RSS-129 (8.1.1), RSS-133 (6.5.1(i))

Spurious and harmonic radiated 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. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band.

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3.8 Frequency Stability / Temperature Variation

§2.1055, 22.355, 24.235; RSS-132 (4.3) / RSS-133 (6.3)

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 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 (20°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 one minute after applying power to the transmitter.
4. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. At least a period of one half-hour is provided to allow stabilization of the equipment at each temperature level.

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4.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Manufacturer	Model / Equipment	Calibration Date	Cal Interval	Calibration Due	Serial No.
Agilent	E4404B/E4407B ESA Spectrum Analyzer	04/20/06	Annual	04/20/07	US39210313
Agilent	E5515C Wireless Communications Test Set	07/27/06	Annual	07/27/07	GB41450275
Agilent	E5515C Wireless Communications Test Set	10/06/06	Annual	10/06/07	GB43193972
Agilent	E4432B ESG-D Series Signal Generator	08/08/06	Annual	08/08/07	US40053896
Agilent	8648D (9kHz-4GHz) Signal Generator	10/01/06	Annual	10/01/07	3613A00315
EMCO	Model 3115 (1-18GHz) Horn Antenna	08/24/06	Biennial	08/23/08	9203-2178
EMCO	Model 3115 (1-18GHz) Horn Antenna	08/25/06	Biennial	08/24/08	9704-5182
Gigatronics	8657A Universal Power Meter	04/07/06	Annual	04/07/07	8650319
Gigatronics	80701A (0.05-18GHz) Power Sensor	04/11/06	Annual	04/11/07	1833460
Rohde & Schwarz	NRVS Power Meter	06/01/05	Biennial	06/01/07	835360/079
Rohde & Schwarz	NRV-Z53 Power Sensor	06/01/05	Biennial	06/01/07	846076/007
Rohde & Schwarz	CMU200 Base Station Simulator	11/08/06	Annual	11/08/07	107826
Rohde & Schwarz	CMU200 Base Station Simulator	07/26/06	Annual	07/26/07	833855/010
Rohde & Schwarz	CMU200 Base Station Simulator	04/20/06	Annual	04/20/07	836371/079
Agilent	HP 8566B (100Hz-22GHz)	12/21/06	Annual	12/21/07	3638A08713
Agilent	E4448A (3Hz-50GHz)	09/22/06	Annual	09/22/07	US42510244
Agilent	E8257D (250kHz-20GHz) Signal Generator	02/11/06	Annual	02/11/07	MY45470194
Agilent	E8257D (250kHz-20GHz) Signal Generator	03/30/06	Annual	03/30/07	MY44320964
Gigatronics	8651A (50MHz-18GHz)	07/28/06	Annual	07/28/07	1834052
Gigatronics	80701A (0.05-18GHz) Power Sensor	08/04/06	Annual	08/04/07	1835299
Agilent	HP 85650A Quasi-Peak Adapter	12/21/06	Annual	12/21/07	2043A00301
Agilent	HP 8449B (1-26.5GHz) Pre-Amplifier	12/12/06	Annual	12/12/07	3008A00985
Agilent	HP 11713A Attenuation/Switch Driver	12/12/06	Annual	12/12/07	N/A
Agilent	HP 85685A (20Hz-2GHz) Preselector	12/12/06	Annual	12/12/07	N/A
Agilent	HP 8566B Opt. 462 Impulse Bandwidth	12/12/06	Annual	12/12/07	3701A22204
EMCO	3115 (1-18GHz) Horn Antenna	04/04/05	Biennial	04/04/07	9205-3874
Compliance Design	A100 Roberts Dipoles	08/31/05	Biennial	08/31/07	5118
EMCO	Dipole Pair	09/21/06	Biennial	09/20/08	23951
SOLAR	8012-50 LISN (2)	11/18/05	Biennial	11/18/07	0313233, 0310234
Agilent	HP 8901A Modulation Analyzer	06/05/06	Annual	06/05/07	2432A03467
Agilent	HP 8903 B Audio Analyzer	06/01/06	Annual	06/01/07	3011A09025
K & L	11SH10 Band Pass Filter	N/A	Annual	N/A	1300/4000
K & L	11SH10 Band Pass Filter	N/A	Annual	N/A	4000/12000
Agilent	HP 8495A (0-70dB) DC-4GHz Attenuator	N/A		N/A	N/A
-	263-10dB (DC-18GHz) 10 dB Attenuator	N/A		N/A	N/A
Pasternack	PE2208-6 Bidirectional Coupler	N/A		N/A	N/A
-	No.165 (30MHz - 1000MHz) RG58 Coax Cable	N/A		N/A	N/A
-	No.166 (1000-26500MHz) Microwave RF Cable	N/A		N/A	N/A
-	No.167 (100kHz - 100MHz) RG58 Coax Cable	N/A		N/A	N/A

Table 4-1. Test Equipment

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5.0 SAMPLE CALCULATIONS

GSM Emission Designator

Emission Designator = 250KGXW

GSM BW = 250 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M16F9W

WCDMA BW = 4.16 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: GSM Channel 512 PCS Mode 2nd Harmonic (3700.40 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 3700.40 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.

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6.0 TEST RESULTS

Summary

The intentional radiator has been tested in a simulated typical installation to demonstrate compliance with the relevant FCC performance and procedural standards. The radio was transmitting at full power on the specified channels. The channels tested are high, middle and low of the allocated bands. Final system data was gathered in a mode that tended to maximize emissions by varying the orientation of the EUT, orientation of power and I/O cabling, antenna search height, and antenna polarization. This device was tested under all configurations and the worst case is reported in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band.

Method/System: PCS Licensed Transmitter Held to Ear (PCE)

Mode(s): GSM/EDGE/WCDMA

FCC Part Section(s)	RSS Section	Test Description	Test Limit	Test Condition	Test Result
TRANSMITTER MODE (TX)					
2.1049, 22.917(a), 24.238(a)	N/A	Occupied Bandwidth	N/A	CONDUCTED	N/A
2.1051, 22.917(a), 24.238(a)	RSS-132 (4.5.1) / RSS-133 (6.5.1)	Band Edge / Conducted Spurious Emissions	< 43 + log ₁₀ (P[Watts]) at Band Edge / for all out-of-band emissions		PASS
2.1046	N/A	Transmitter Conducted Output Power	N/A		N/A
22.913(a)(2)	RSS-132 (4.4) [SRSP-503(5.1.3)]	Effective Radiated Power	< 7 Watts max. ERP (<6.3 Watts max. ERP (IC))	RADIATED	PASS
24.232(c)	RSS-133 (6.4) [SRSP-510 (5.1.2)]	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP		PASS
2.1053, 22.917(a), 24.238(a)	RSS-132 (4.5.1) / RSS-133 (6.5.1)	Undesirable Emissions	< 43 + log ₁₀ (P[Watts]) for all out-of-band emissions		PASS
2.1055, 22.355, 24.235	RSS-132 (4.3) / RSS-133 (6.3)	Frequency Stability	< 2.5 ppm		PASS
RECEIVER MODE (RX)					
15.107	RSS-Gen (7.2.2)	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits or < RSS-Gen table 2 limits	LINE CONDUCTED	PASS
15.109	RSS-132 (4.6) / RSS-133(6.7(a) / [RSS-Gen (7.2.2)] / RSS-210 (7.3)	General Field Strength Limits (Restricted Bands and Radiated Emissions Limits)	< FCC 15.209 limits or < RSS-210 table 3 limits	RADIATED (30MHz-1GHz) (1-25 GHz)	PASS
RF EXPOSURE (SAR)					
2.1093	RSS-102	SAR Test or MPE	1.6 W/kg (SAR Limit)	3 Channels	PASS

Table 6-1. Summary of Test Results

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)			Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 12 of 60	

6.1 Conducted Output Power

S2.1046

A base station simulator was used to establish communication with the **LGE Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x**. The base station simulator parameters were set to produce the maximum power from the EUT. This device was tested under all configurations and the worst case is reported in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. The powers are reported below.

Band	Channel	GSM / GPRS		EDGE
		Power Control Level	Conducted Power	Conducted Power
			[dBm]	[dBm]
Cellular	128	5	32.51	27.30
	190	5	32.38	27.17
	251	5	32.03	26.75
PCS	512	0	29.14	25.82
	661	0	29.54	26.19
	810	0	29.27	25.93

Table 6-2. GSM Conducted Output Powers

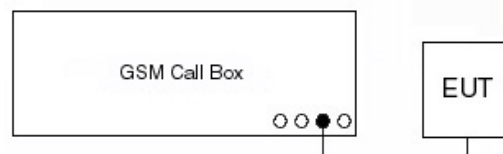


Figure 6-1. GSM Conducted Power Test Setup Diagram

		HSDPA Inactive		HSDPA Active	
UMTS	Channel	12.2 kbps RMC	12.2 kbps AMR	12.2 kbps RMC	12.2 kbps AMR
	4132	22.14	22.25	22.13	22.28
	4175	22.32	22.41	22.35	22.45
	4233	22.19	22.28	22.20	22.31
PCS	9262	21.68	21.73	21.70	21.77
	9400	21.37	21.49	21.38	21.51
	9538	21.62	21.73	21.61	21.86

Table 6-3. Conducted Power for CU405

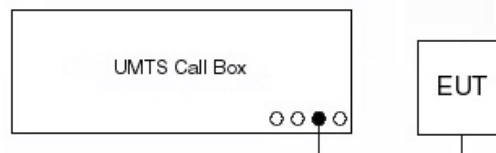


Figure 6-2. Conducted Power Measurement Setup

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 13 of 60

6.2 Effective Radiated Power Output Data

§22.913(a)(2); RSS-132 (4.4) [SRSP-503(5.1.3)]

POWER: High (GSM Mode)

Freq. Tuned (MHz)	REF. LEVEL (dBm)	Mode	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
824.20	-7.193	GSM	H	2.558	34.080	Standard
836.60	-7.653	GSM	H	2.388	33.780	Standard
848.80	-7.963	GSM	H	2.301	33.620	Standard
824.20	-11.393	EDGE850	H	1.045	30.190	Standard

Table 6-4. Effective Radiated Power Output Data (GSM)

POWER: High (WCDMA Mode)

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
826.40	-20.943	V	0.108	20.330	Standard
836.40	-20.043	V	0.138	21.390	Standard
846.60	-20.063	V	0.142	21.520	Standard

Table 6-5. Effective Radiated Power Output Data (WCDMA)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

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Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 14 of 60

6.3 Equivalent Isotropic Radiated Power Output Data

§24.232(c); RSS-133 (6.4) [SRSP-510 (5.1.2)]

POWER: High (GSM Mode)

FREQ. (MHz)	REF. LEVEL (dBm)	Mode	POL (H/V)	Azimuth (o angle)	EIRP (dBm)	EIRP (W)	Battery
1850.20	-14.991	GSM	H	95	28.090	0.644	Standard
1880.00	-14.421	GSM	H	95	28.830	0.764	Standard
1909.80	-13.761	GSM	H	95	29.660	0.925	Standard
1909.80	-17.541	EDGE1900	H	95	25.880	0.387	Standard

Table 6-6. Equivalent Isotropic Radiated Power Output Data (GSM)

POWER: High (WCDMA Mode)

FREQ. (MHz)	REF. LEVEL (dBm)	POL (H/V)	Azimuth (o angle)	EIRP (dBm)	EIRP (W)	Battery
1852.40	-22.411	H	60	20.670	0.117	Standard
1880.00	-23.121	H	60	20.130	0.103	Standard
1907.60	-22.841	H	60	20.580	0.114	Standard

Table 6-7. Equivalent Isotropic Radiated Power Output Data (WCDMA)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

FCC ID: BEJCU405	 FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x	Page 15 of 60

6.4 Cellular Band GSM Radiated Measurements

§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.20 MHz
 CHANNEL: 128
 MEASURED OUTPUT POWER: 34.080 dBm = 2.558 W
 MODULATION SIGNAL: GSM
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W)$ 47.08 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1648.40	-43.23	6.10	-37.13	H	71.2
2472.60	-47.35	6.70	-40.65	H	74.7
3296.80	-49.69	6.80	-42.89	H	77.0
4121.00	-49.78	6.50	-43.28	H	77.4
4945.20	-55.78	7.00	-48.78	H	82.9

Table 6-8. Radiated Spurious Data (Cellular GSM Mode – Ch. 128)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 16 of 60



Cellular Band GSM Radiated Measurements (Cont'd)

§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.60 MHz
CHANNEL: 190
MEASURED OUTPUT POWER: 34.080 dBm = 2.558 W
MODULATION SIGNAL: GSM
DISTANCE: 3 meters
LIMIT: $43 + 10 \log_{10} (W) =$ 47.08 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1673.20	-40.93	6.10	-34.83	H	68.9
2509.80	-48.56	6.70	-41.86	H	75.9
3346.40	-48.30	6.80	-41.50	H	75.6
4183.00	-50.51	6.50	-44.01	H	78.1
5019.60	-59.10	7.00	-52.10	H	86.2

Table 6-9. Radiated Spurious Data (Cellular GSM Mode – Ch. 190)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

FCC ID: BEJCU405	 FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x	Page 17 of 60



Cellular Band GSM Radiated Measurements (Cont'd)

§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.80 MHz
CHANNEL: 251
MEASURED OUTPUT POWER: 34.080 dBm = 2.558 W
MODULATION SIGNAL: GSM
DISTANCE: 3 meters
LIMIT: $43 + 10 \log_{10}(W) = 47.08$ dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1697.60	-40.04	6.10	-33.94	H	68.0
2546.40	-45.86	6.70	-39.16	H	73.2
3395.20	-49.51	6.80	-42.71	H	76.8
4244.00	-49.45	6.50	-42.95	H	77.0
5092.80	-57.64	7.00	-50.64	H	84.7

Table 6-10. Radiated Spurious Data (Cellular GSM Mode – Ch. 251)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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6.5 Cellular Band WCDMA Radiated Measurements

§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 826.40 MHz
 CHANNEL: 4132 (Low)
 MEASURED OUTPUT POWER: 21.520 dBm = 0.142 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 34.53 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	V	99.5
2479.20	-89.35	6.70	-82.65	V	104.2
3305.60	-89.58	6.80	-82.78	V	104.3

Table 6-11. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4132)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Cellular Band WCDMA Radiated Measurements (Cont'd)

§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 835.00 MHz
 CHANNEL: 4175 (Mid)
 MEASURED OUTPUT POWER: 21.520 dBm = 0.142 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) = 34.52$ 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	V	100.2
2505.00	-88.46	6.70	-81.76	V	103.3
3340.00	-89.48	6.80	-82.68	V	104.2

Table 6-12. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4175)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

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Cellular Band WCDMA Radiated Measurements (Cont'd)

§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 846.60 MHz
 CHANNEL: 4233 (High)
 MEASURED OUTPUT POWER: 21.520 dBm = 0.142 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) = 34.52$ 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	100.4
2539.80	-88.06	6.70	-81.36	V	102.9
3386.40	-89.08	6.80	-82.28	V	103.8

Table 6-13. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4233)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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6.6 PCS Band GSM Radiated Measurements

S2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1850.20 MHz
 CHANNEL: 512
 MEASURED OUTPUT POWER: 29.660 dBm = 0.925 W
 MODULATION SIGNAL: GSM
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 42.66 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3700.40	-50.40	6.10	-44.30	H	74.0
5550.60	-53.35	6.70	-46.65	H	76.3
7400.80	-67.77	6.80	-60.97	H	90.6
9251.00	-85.68	6.50	-79.18	H	108.8
11101.20	-84.38	7.00	-77.38	H	107.0

Table 6-14. Radiated Spurious Data (PCS GSM Mode – Ch. 512)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 22 of 60

PCS Band GSM Radiated Measurements (Cont'd)

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 661
 MEASURED OUTPUT POWER: 29.660 dBm = 0.925 W
 MODULATION SIGNAL: GSM
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 42.66 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3760.00	-53.25	6.10	-47.15	H	76.8
5640.00	-44.63	6.70	-37.93	H	67.6
7520.00	-66.92	6.80	-60.12	H	89.8
9400.00	-85.78	6.50	-79.28	H	108.9
11280.00	-83.78	7.00	-76.78	H	106.4

Table 6-15. Radiated Spurious Data (PCS GSM Mode – Ch. 661)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 23 of 60

PCS Band GSM Radiated Measurements (Cont'd)

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1909.80 MHz
 CHANNEL: 810
 MEASURED OUTPUT POWER: 29.660 dBm = 0.925 W
 MODULATION SIGNAL: GSM
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 42.66 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3819.60	-49.39	6.10	-43.29	H	72.9
5729.40	-47.07	6.70	-40.37	H	70.0
7639.20	-66.45	6.80	-59.65	H	89.3
9549.00	-85.68	6.50	-79.18	H	108.8
11458.80	-83.98	7.00	-76.98	H	106.6

Table 6-16. Radiated Spurious Data (PCS GSM Mode – Ch. 810)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 24 of 60

6.7 PCS Band WCDMA Radiated Measurements

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1852.40 MHz
 CHANNEL: 9262 (Low)
 MEASURED OUTPUT POWER: 20.670 dBm = 0.117 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 33.67 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	V	86.9
5557.20	-65.00	9.70	-55.30	V	76.0
7409.60	-79.43	9.90	-69.53	V	90.2

Table 6-17. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9262)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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PCS Band WCDMA Radiated Measurements (Cont'd)

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz
CHANNEL: 9400 (Mid)
MEASURED OUTPUT POWER: 20.670 dBm = 0.117 W
MODULATION SIGNAL: WCDMA (Internal)
DISTANCE: 3 meters
LIMIT: $43 + 10 \log_{10} (W) =$ 33.67 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	87.1
5640.00	-65.18	9.70	-55.48	V	76.1
7520.00	-79.13	9.90	-69.23	V	89.9

Table 6-18. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9400)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 26 of 60

PCS Band WCDMA Radiated Measurements (Cont'd)

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1907.60 MHz
 CHANNEL: 9538 (High)
 MEASURED OUTPUT POWER: 20.670 dBm = 0.117 W
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 33.67 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	86.2
5722.80	-58.42	9.70	-48.72	V	69.4
7630.40	-78.93	9.90	-69.03	V	89.7

Table 6-19. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9538)

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 = 5 MHz. 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 in WCDMA mode with HSDPA Active at 12.2 kbps AMR and TPC bits all set to "1". In GSM mode, the worst case configuration is with a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 27 of 60



6.8 Cellular Band GSM Frequency Stability Measurements

S2.1055, 22.355; RSS-132 (4.3)

OPERATING FREQUENCY: 836,600,002 Hz

CHANNEL: 190

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)	836,599,996	-6.29	-0.000001
100 %		- 30	836,599,983	-18.58	-0.000002
100 %		- 20	836,600,031	28.98	0.000003
100 %		- 10	836,599,951	-51.12	-0.000006
100 %		0	836,600,091	89.47	0.000011
100 %		+ 10	836,599,927	-74.70	-0.000009
100 %		+ 20	836,599,968	-33.89	-0.000004
100 %		+ 25	836,599,932	-70.43	-0.000008
100 %		+ 30	836,599,988	-13.69	-0.000002
100 %		+ 40	836,599,965	-37.26	-0.000004
100 %		+ 50	836,599,986	-16.32	-0.000002
115 %	4.26	+ 20	836,600,031	29.04	0.000003
BATT. ENDPOINT	3.45	+ 20	836,599,988	-14.02	-0.000002

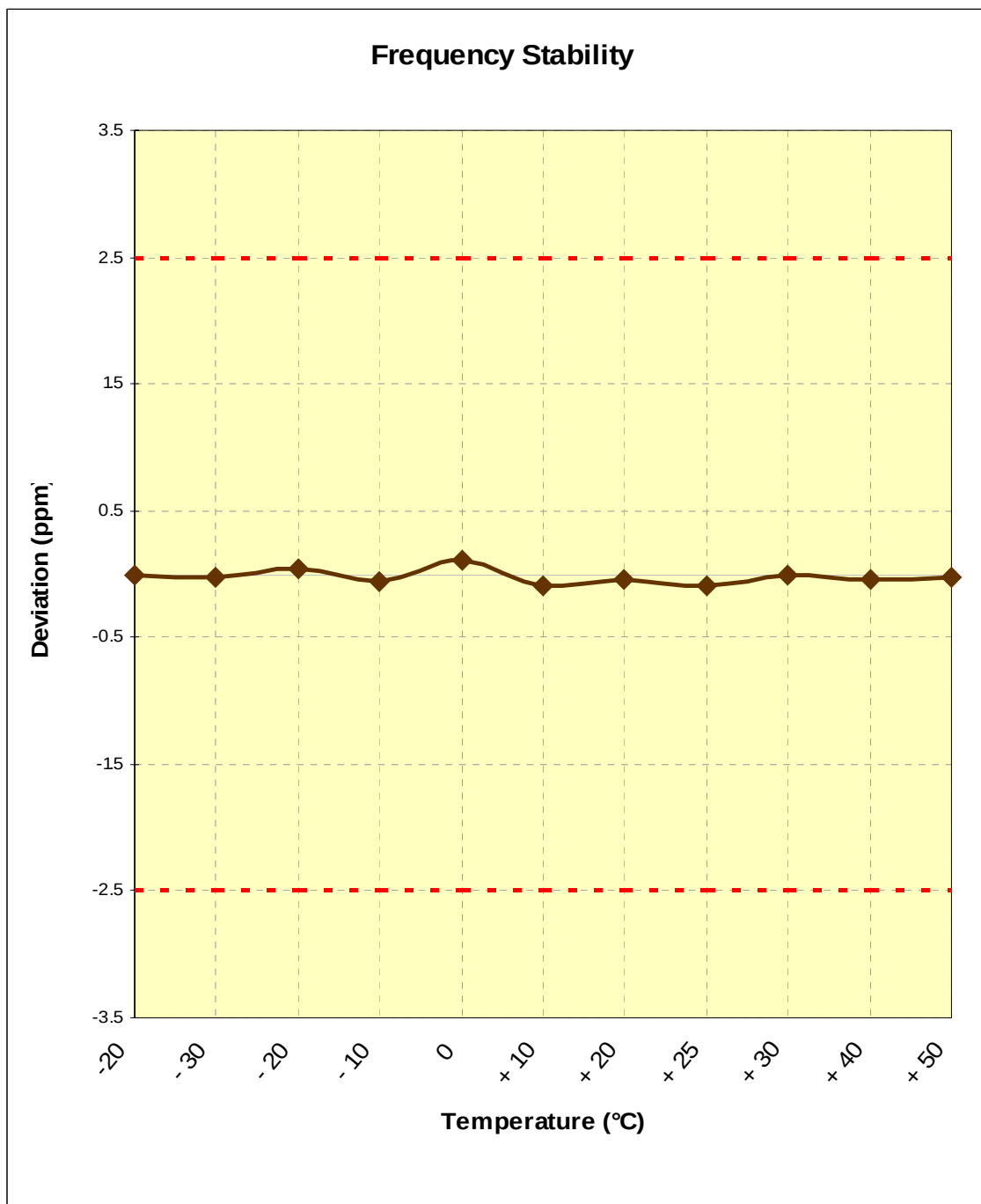
Table 6-20. Frequency Stability Data (Cellular GSM Mode – Ch. 190)

Note: This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 28 of 60

Cellular Band GSM Frequency Stability Measurements (Cont'd)

§2.1055, 22.355; RSS-132 (4.3)



Plot 6-1. Frequency Stability Graph (Cellular GSM Mode – Ch. 190)

Note: This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 29 of 60



6.9 Cellular Band WCDMA Frequency Stability Measurements

S2.1055, 22.355; RSS-132 (4.3)

OPERATING FREQUENCY: 836,400,000 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)	836,399,900	-99.82	-0.000012
100 %		- 30	836,399,873	-127.36	-0.000015
100 %		- 20	836,400,148	147.96	0.000018
100 %		- 10	836,400,029	28.86	0.000003
100 %		0	836,400,047	47.38	0.000006
100 %		+ 10	836,399,973	-26.97	-0.000003
100 %		+ 20	836,399,941	-59.33	-0.000007
100 %		+ 25	836,399,871	-129.40	-0.000015
100 %		+ 30	836,399,883	-117.18	-0.000014
100 %		+ 40	836,400,069	69.22	0.000008
100 %		+ 50	836,400,017	16.98	0.000002
115 %	4.26	+ 20	836,399,874	-125.89	-0.000015
BATT. ENDPOINT	3.45	+ 20	836,400,085	85.47	0.000010

Table 6-21. Frequency Stability Data (Cellular WCDMA Mode – Ch. 4175)

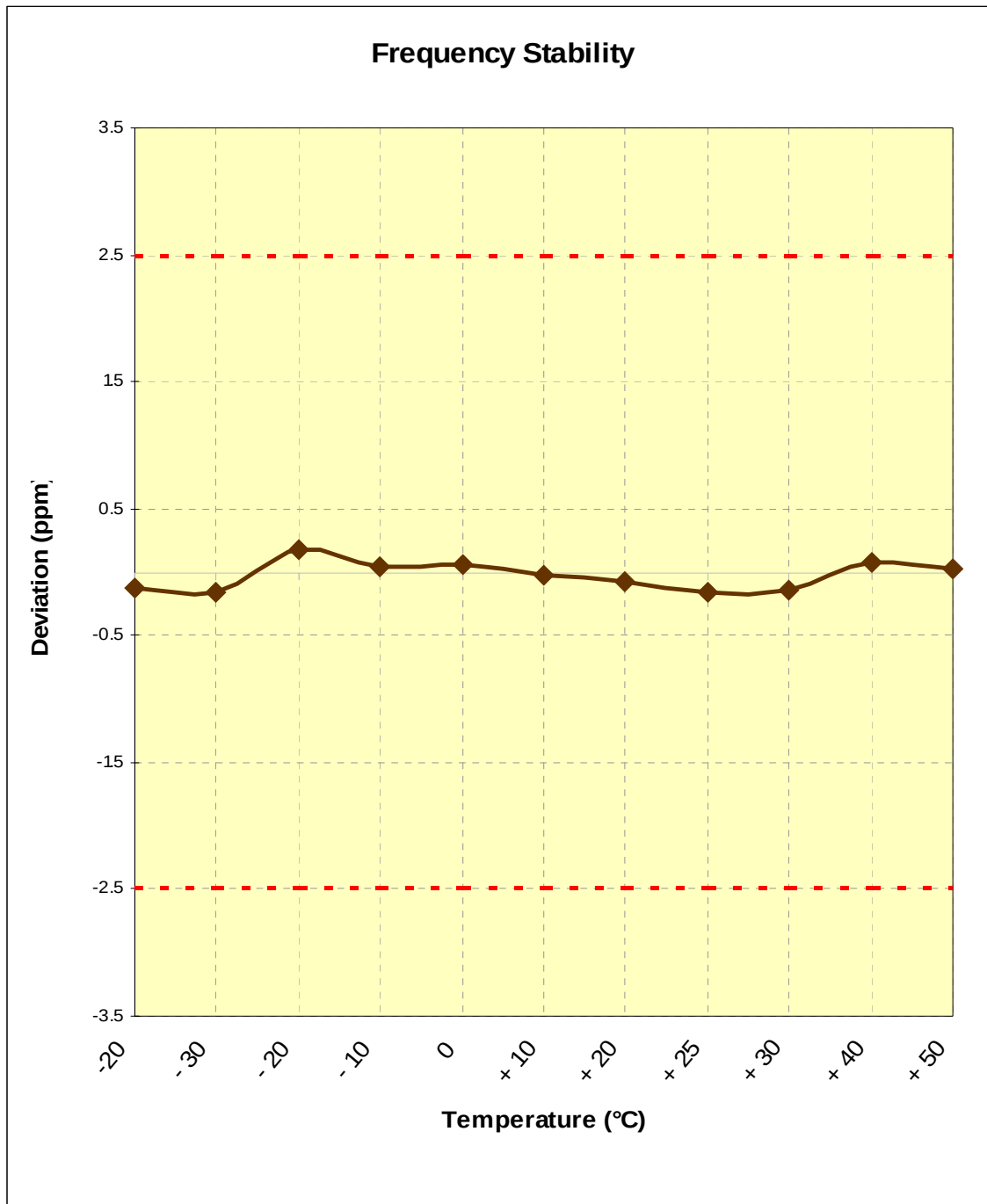
Note:

This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 30 of 60

Cellular Band WCDMA Frequency Stability Measurements (Cont'd)

§2.1055, 22.355; RSS-132 (4.3)



Plot 6-2. Frequency Stability Graph (Cellular WCDMA Mode – Ch. 4175)

Note:

This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 31 of 60

6.10 PCS Band GSM Frequency Stability Measurements

S2.1055, 24.235; RSS-133 (6.3)

OPERATING FREQUENCY: 1,880,000,000 Hz

CHANNEL: 661

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)	1,880,000,073	72.84	0.000004
100 %		- 30	1,879,999,985	-14.96	-0.000001
100 %		- 20	1,879,999,896	-104.16	-0.000006
100 %		- 10	1,879,999,898	-102.28	-0.000005
100 %		0	1,880,000,013	12.91	0.000001
100 %		+ 10	1,880,000,081	81.38	0.000004
100 %		+ 20	1,880,000,062	62.35	0.000003
100 %		+ 25	1,879,999,985	-15.38	-0.000001
100 %		+ 30	1,879,999,988	-12.26	-0.000001
100 %		+ 40	1,880,000,072	71.59	0.000004
100 %		+ 50	1,880,000,107	106.67	0.000006
115 %	4.26	+ 20	1,880,000,064	64.33	0.000003
BATT. ENDPOINT	3.45	+ 20	1,879,999,974	-25.87	-0.000001

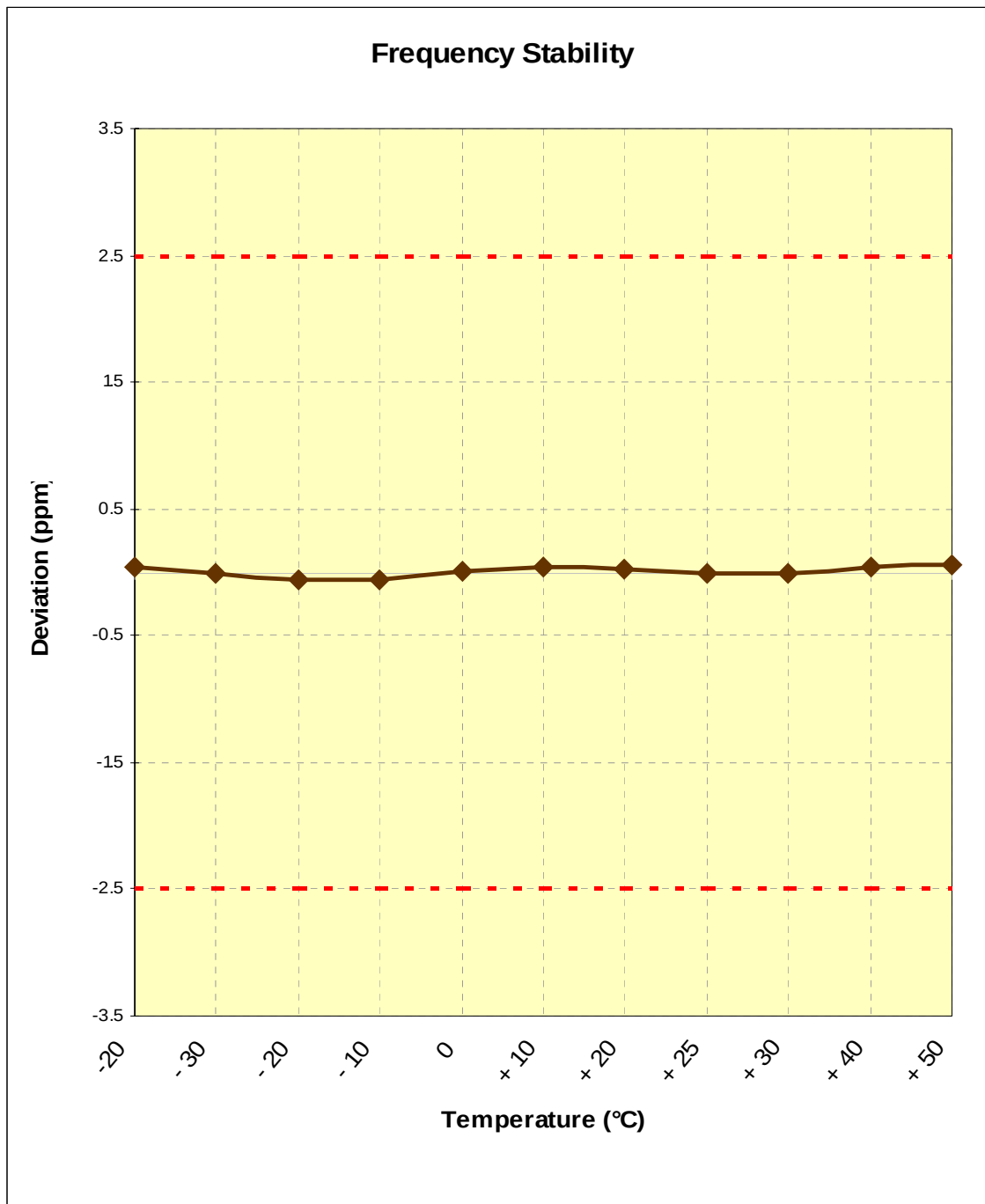
Table 6-22. Frequency Stability Data (PCS GSM Mode – Ch. 661)

Note: This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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PCS Band GSM Frequency Stability Measurements (Cont'd)

§2.1055, 24.235; RSS-133 (6.3)



Plot 6-3. Frequency Stability Graph (PCS GSM Mode – Ch. 661)

Note: This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 33 of 60



6.11 PCS Band WCDMA Frequency Stability Measurements

§2.1055, 24.235; RSS-133 (6.3)

OPERATING FREQUENCY: 1,880,000,000 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)	1,879,999,896	-103.79	-0.000006
100 %		- 30	1,879,999,984	-15.72	-0.000001
100 %		- 20	1,879,999,977	-22.79	-0.000001
100 %		- 10	1,879,999,941	-59.00	-0.000003
100 %		0	1,879,999,977	-22.96	-0.000001
100 %		+ 10	1,879,999,924	-75.86	-0.000004
100 %		+ 20	1,879,999,973	-26.55	-0.000001
100 %		+ 25	1,880,000,149	148.74	0.000008
100 %		+ 30	1,880,000,024	23.88	0.000001
100 %		+ 40	1,880,000,149	148.60	0.000008
100 %		+ 50	1,880,000,087	87.12	0.000005
115 %	4.26	+ 20	1,880,000,149	149.38	0.000008
BATT. ENDPOINT	3.45	+ 20	1,879,999,926	-73.63	-0.000004

Table 6-23. Frequency Stability Data (PCS WCDMA Mode – Ch. 9400)

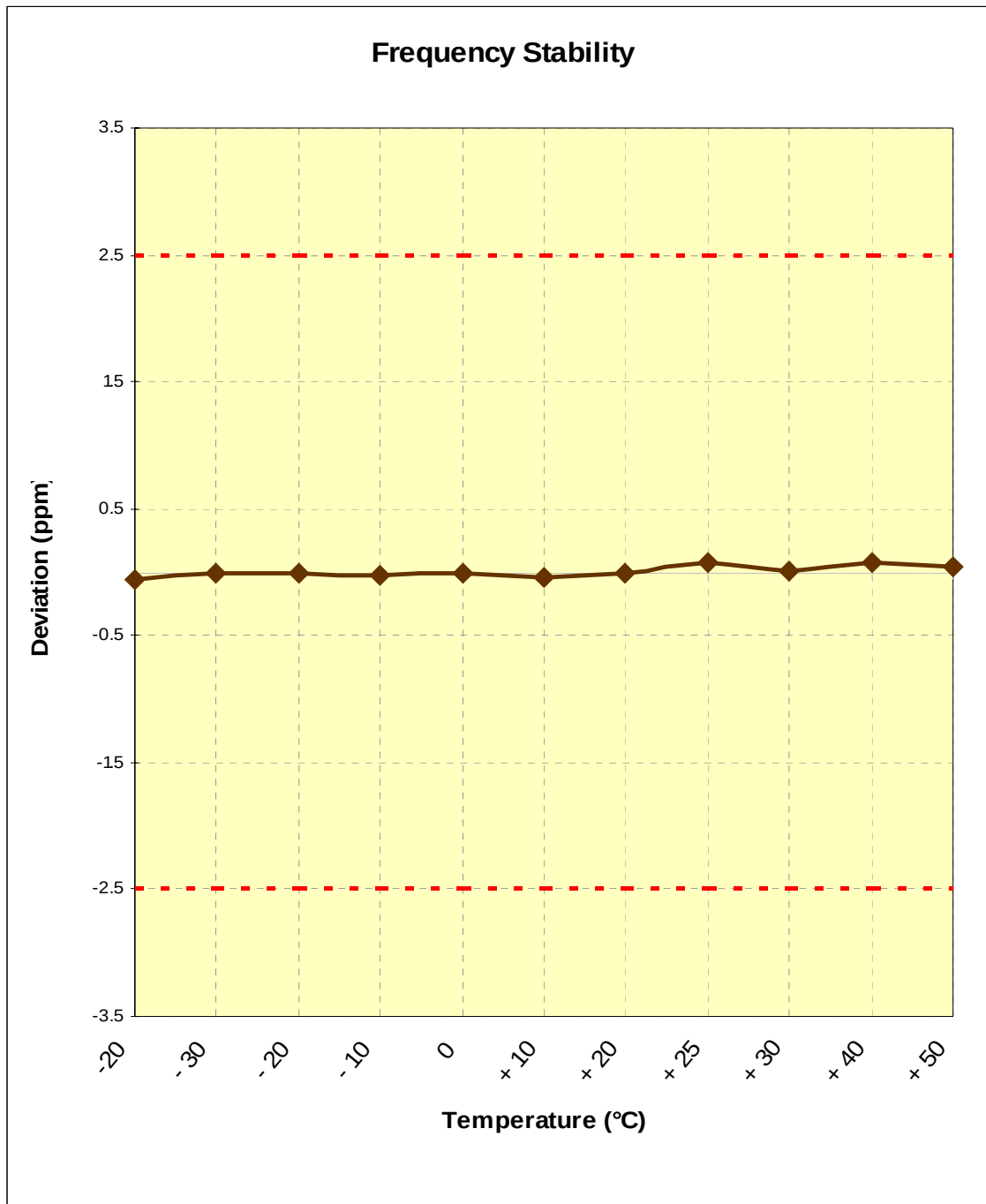
Note:

This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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PCS Band WCDMA Frequency Stability Measurements (Cont'd)

S2.1055, 24.235; RSS-133 (6.3)



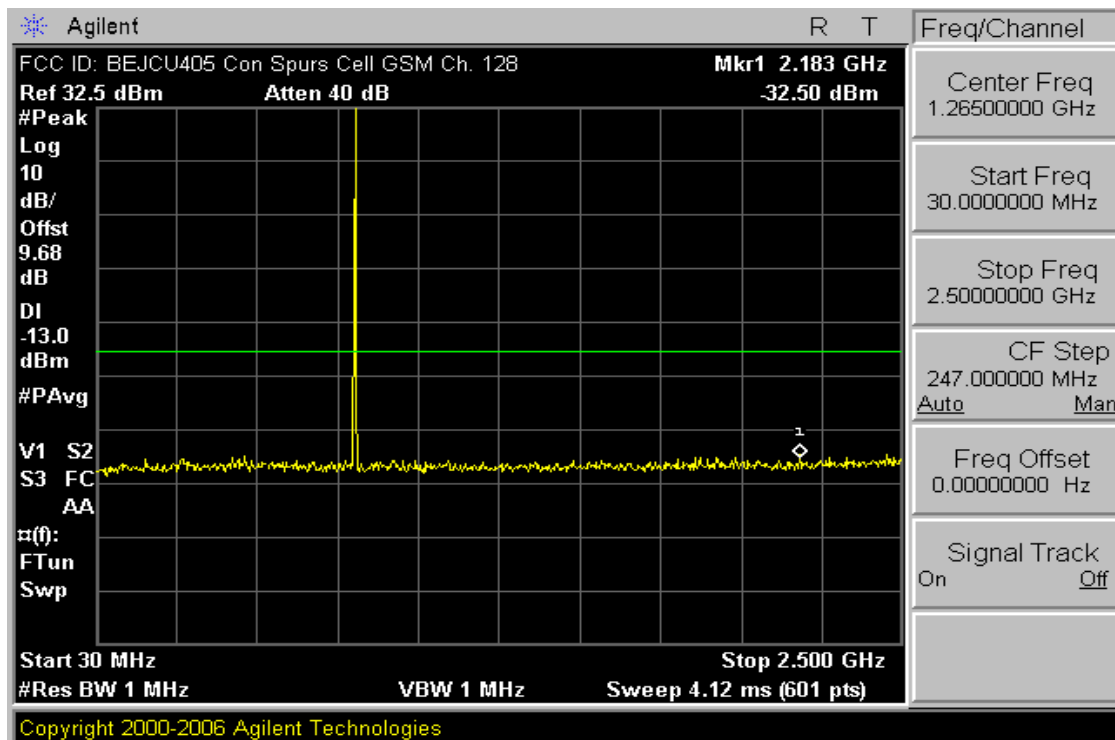
Plot 6-4. Frequency Stability Graph (PCS WCDMA Mode – Ch. 9400)

Note:

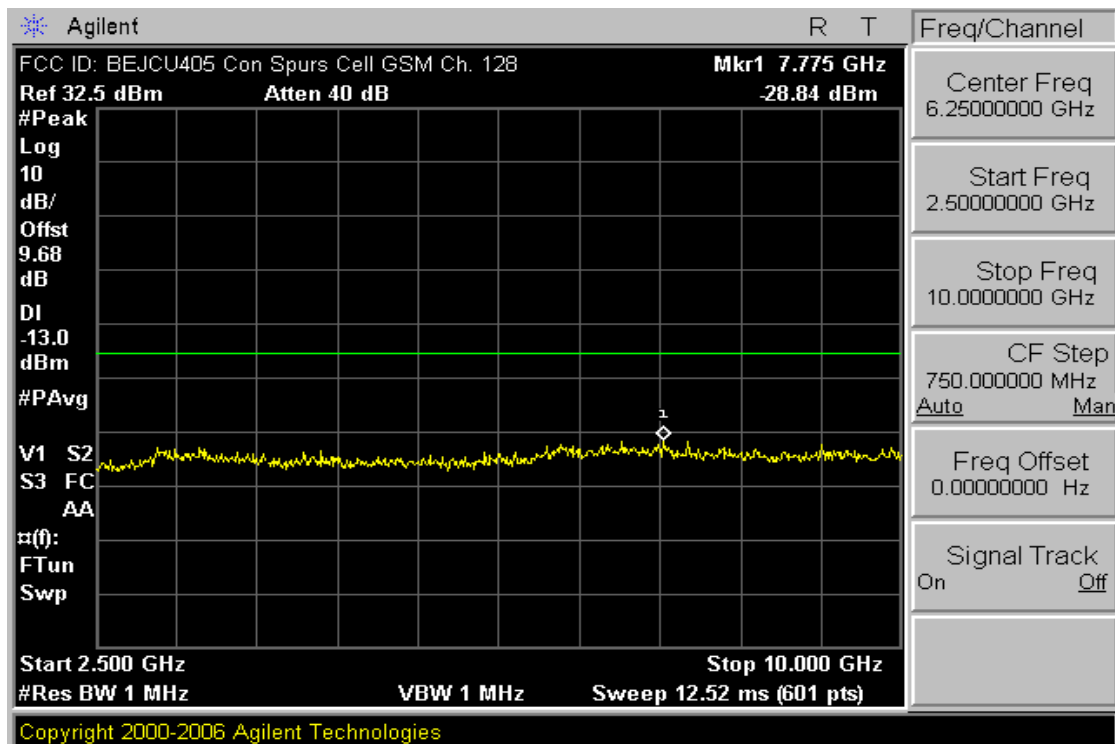
This unit was tested with its standard battery.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 35 of 60

7.0 PLOTS OF EMISSIONS

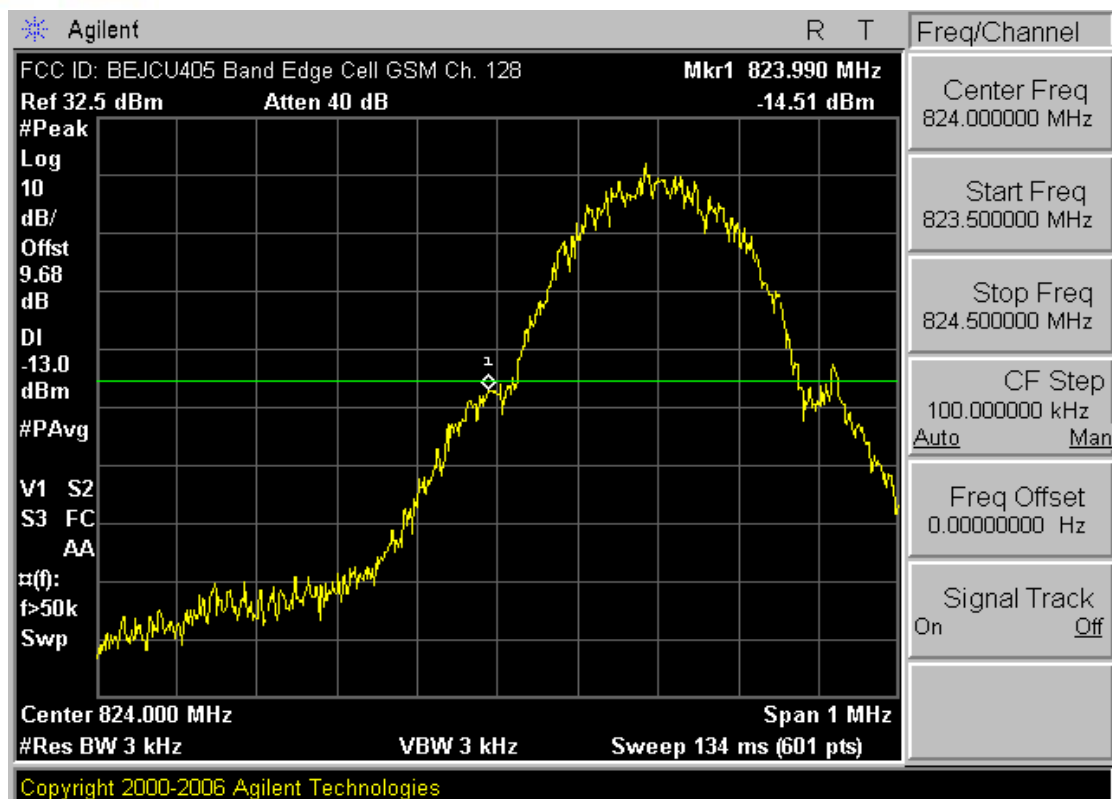


Plot 7-1. Conducted Spurious Plot (Cellular GSM Mode – Ch. 128)

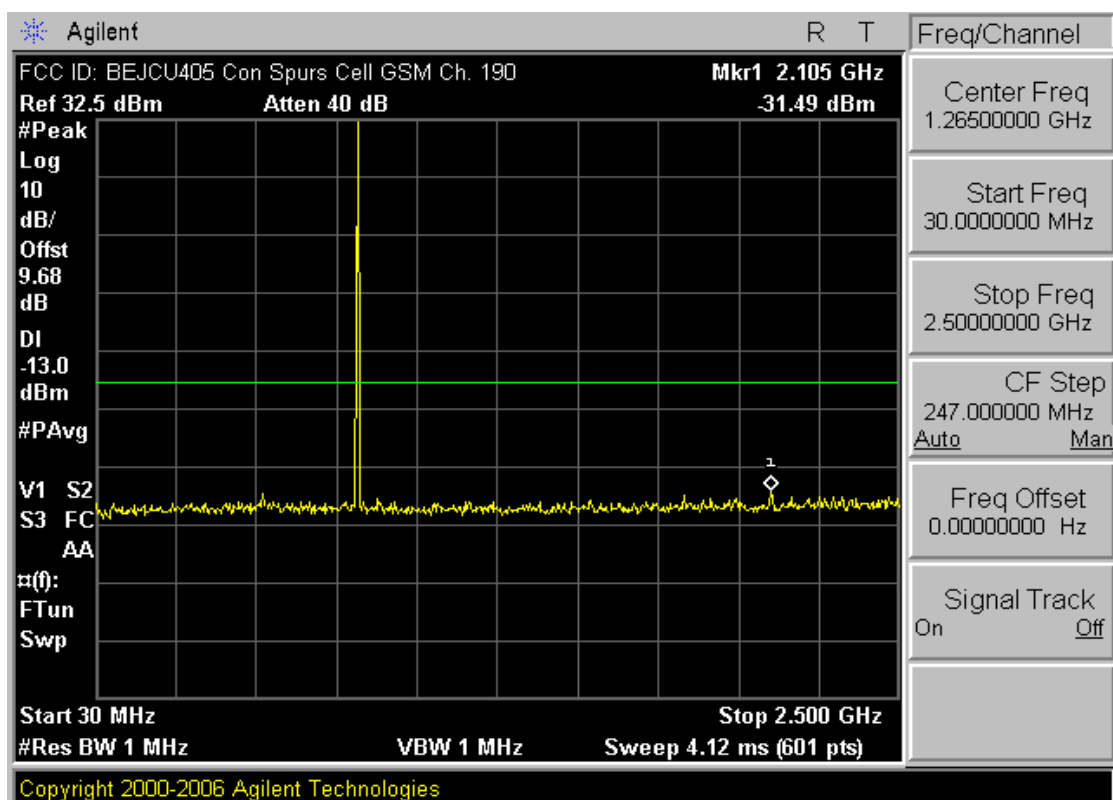


Plot 7-2. Conducted Spurious Plot (Cellular GSM Mode – Ch. 128)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 36 of 60

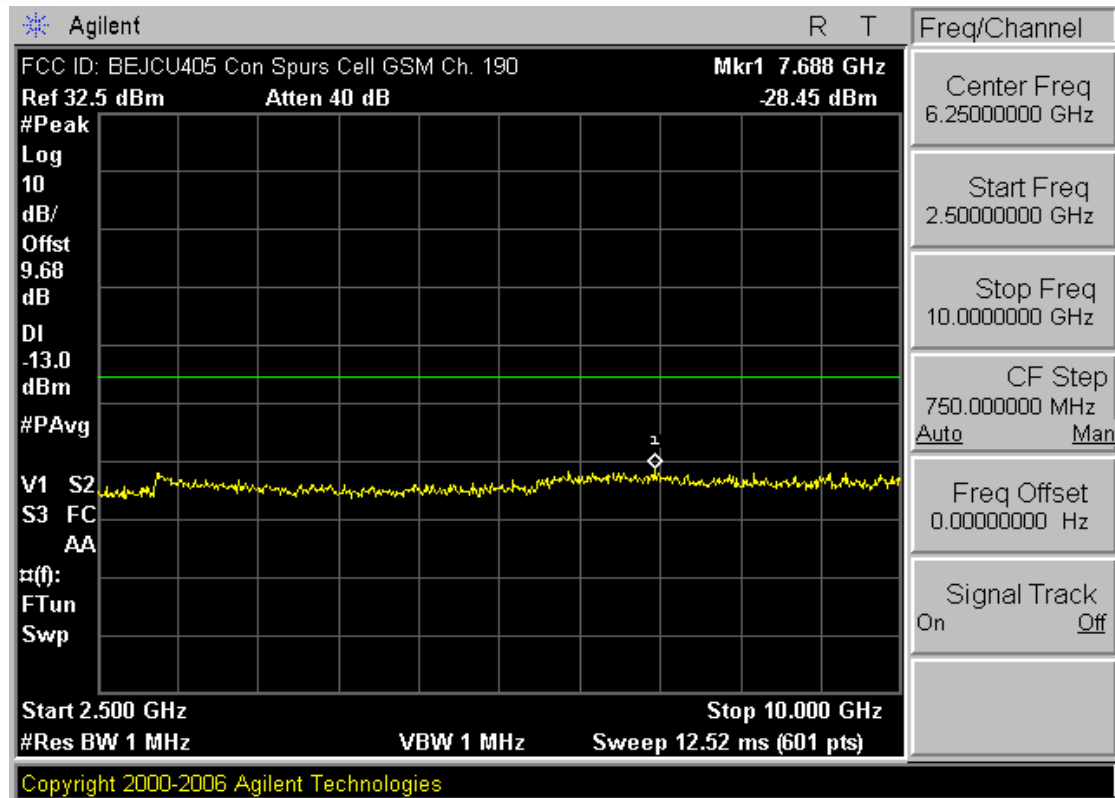


Plot 7-3. Band Edge Plot (Cellular GSM Mode – Ch. 128)

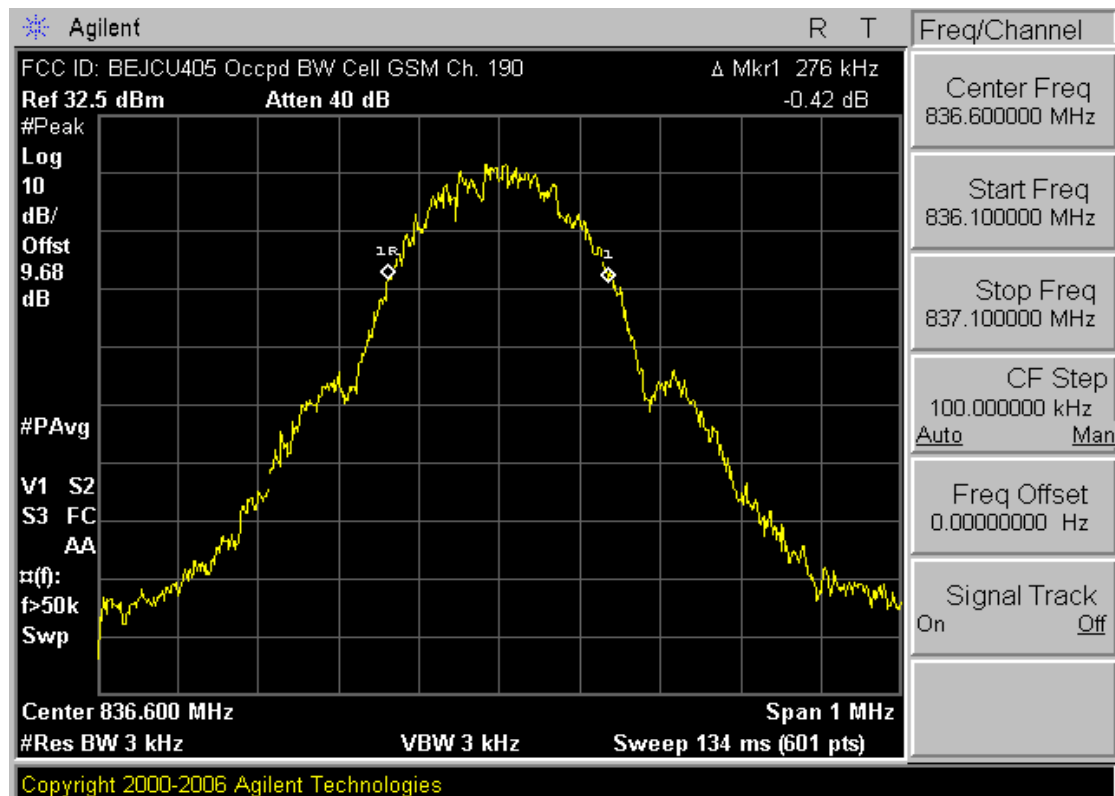


Plot 7-4. Conducted Spurious (Cellular GSM Mode – Ch. 190)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 37 of 60

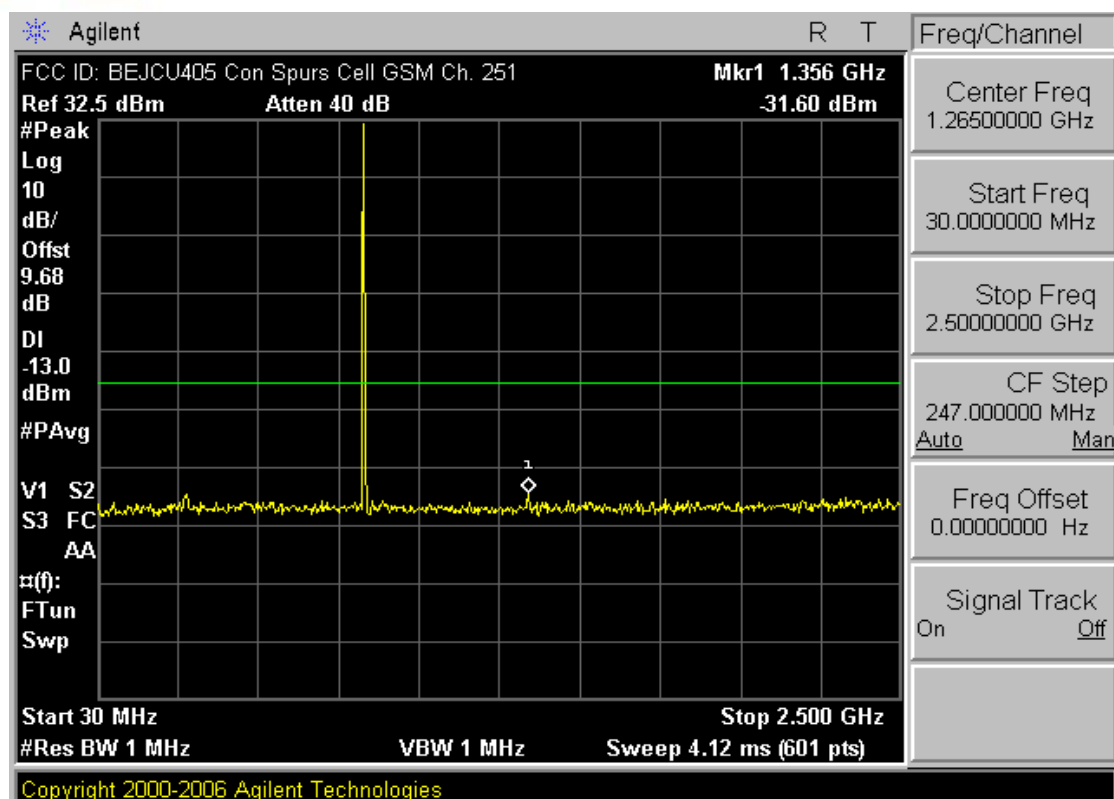


Plot 7-5. Conducted Spurious Plot (Cellular GSM Mode – Ch. 190)

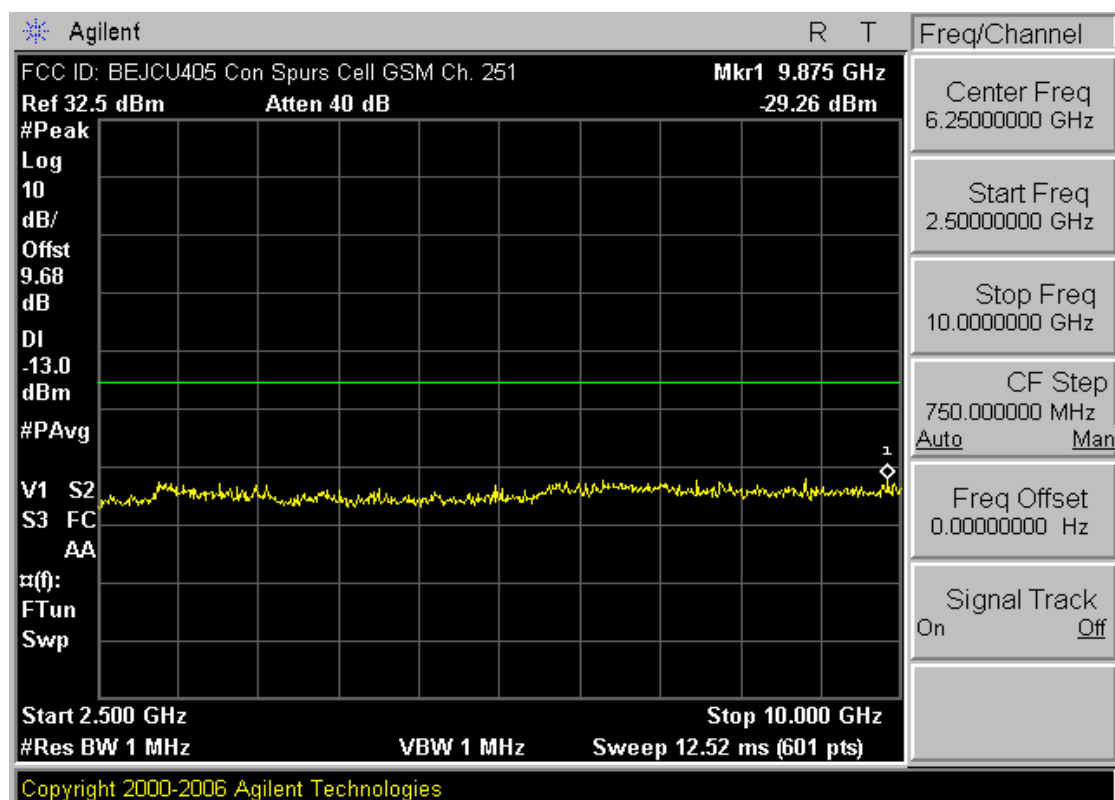


Plot 7-6. Occupied Bandwidth Plot (Cellular GSM Mode – Ch. 190)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 38 of 60



Plot 7-7. Conducted Spurious Plot (Cellular GSM Mode – Ch. 251)

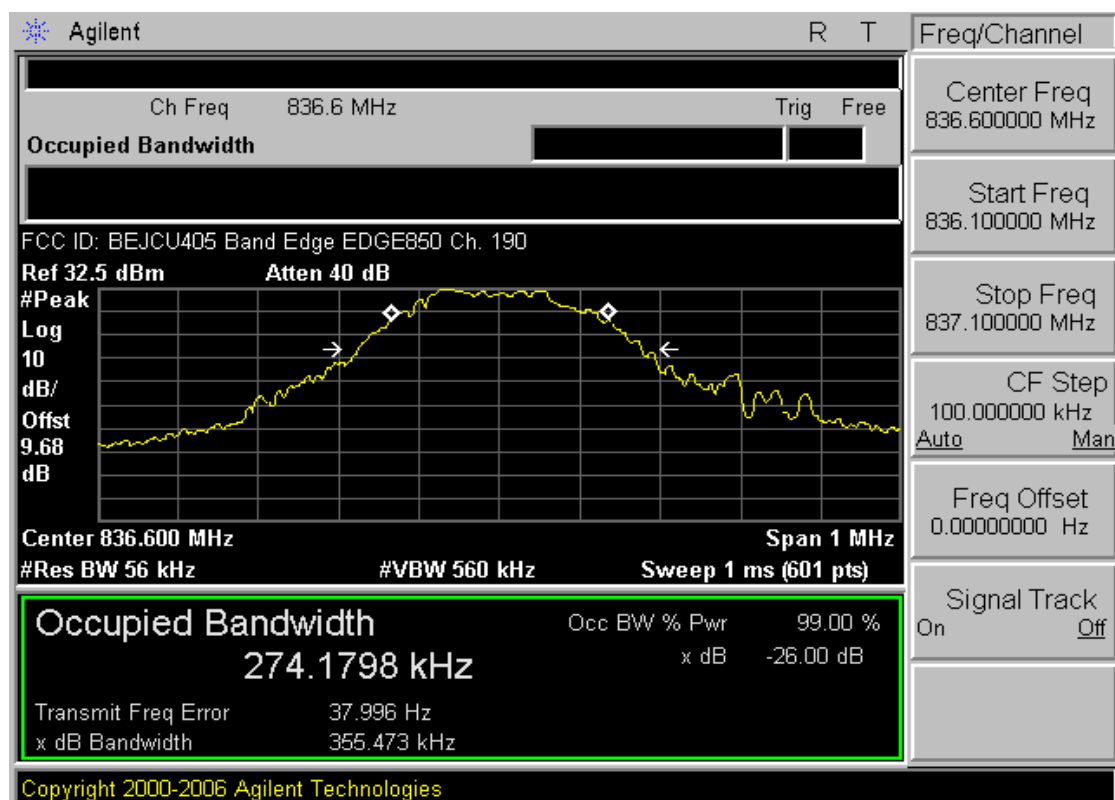


Plot 7-8. Conducted Spurious Plot (Cellular GSM Mode – Ch. 251)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 39 of 60

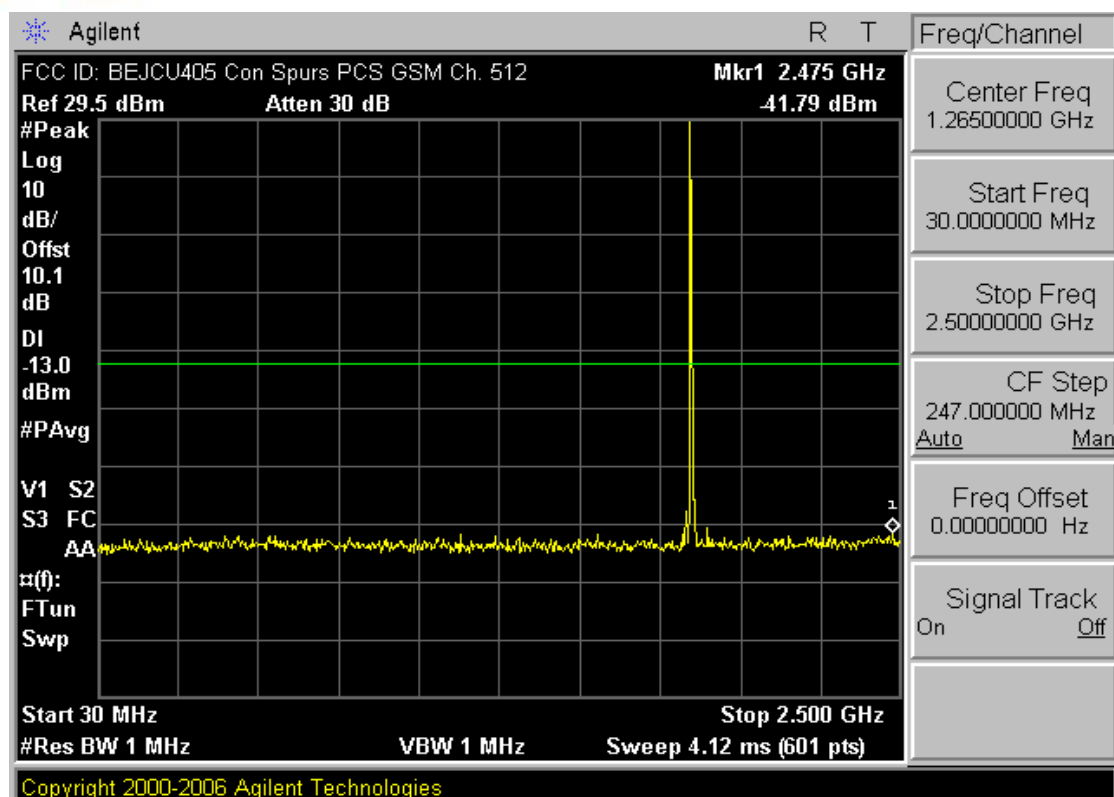


Plot 7-9. Band Edge Plot (Cellular GSM Mode – Ch. 251)

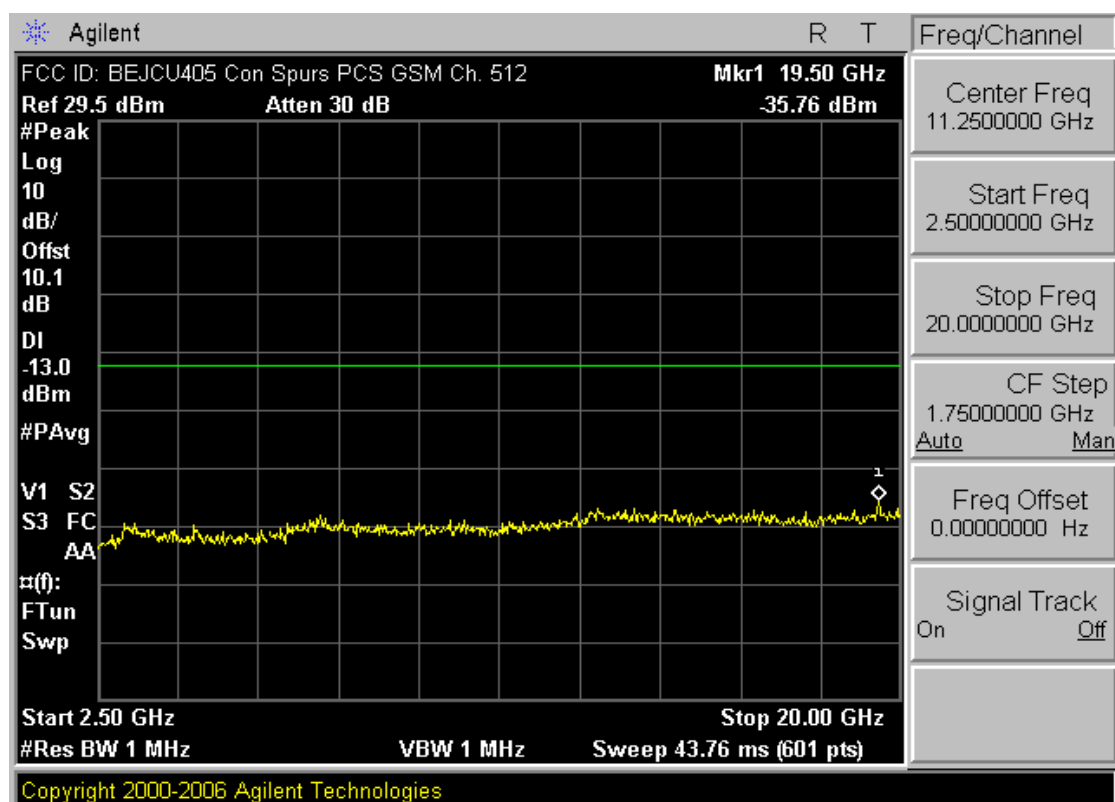


Plot 7-10. Occupied Bandwidth Plot (EDGE850 Mode – Ch. 190)

FCC ID: BEJCU405	PCTEST wireless	FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 40 of 60

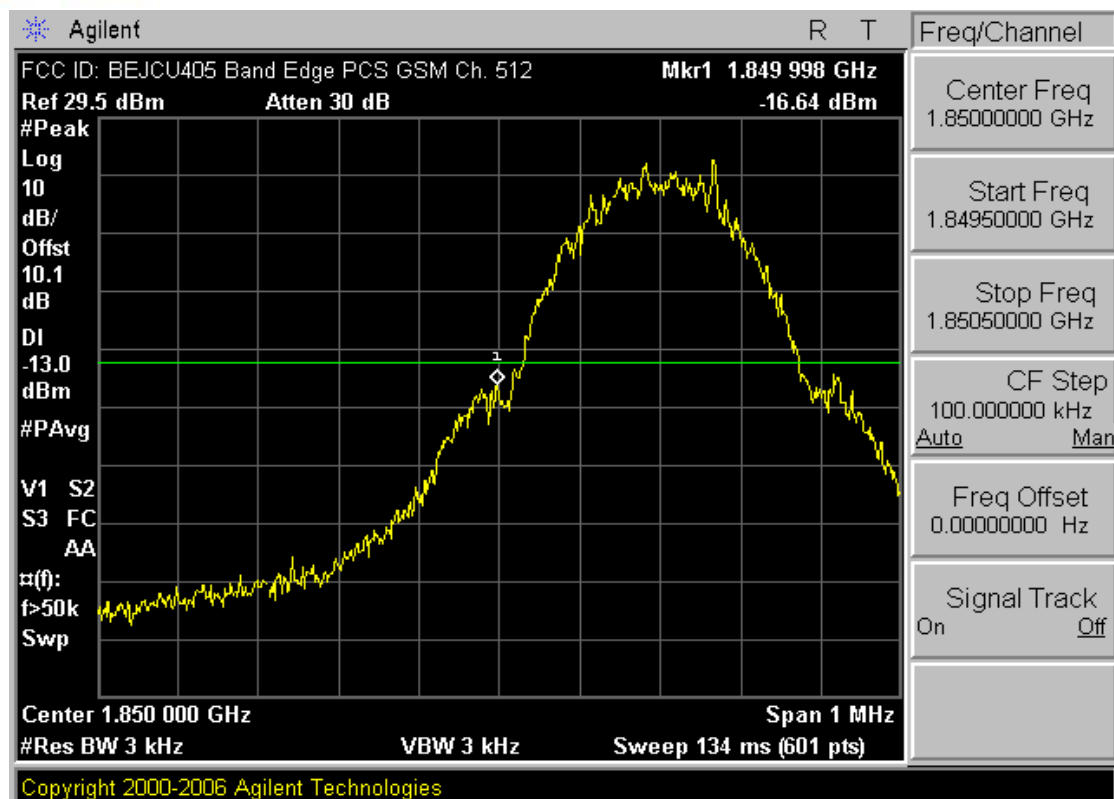


Plot 7-11. Conducted Spurious Plot (PCS GSM Mode – Ch. 512)

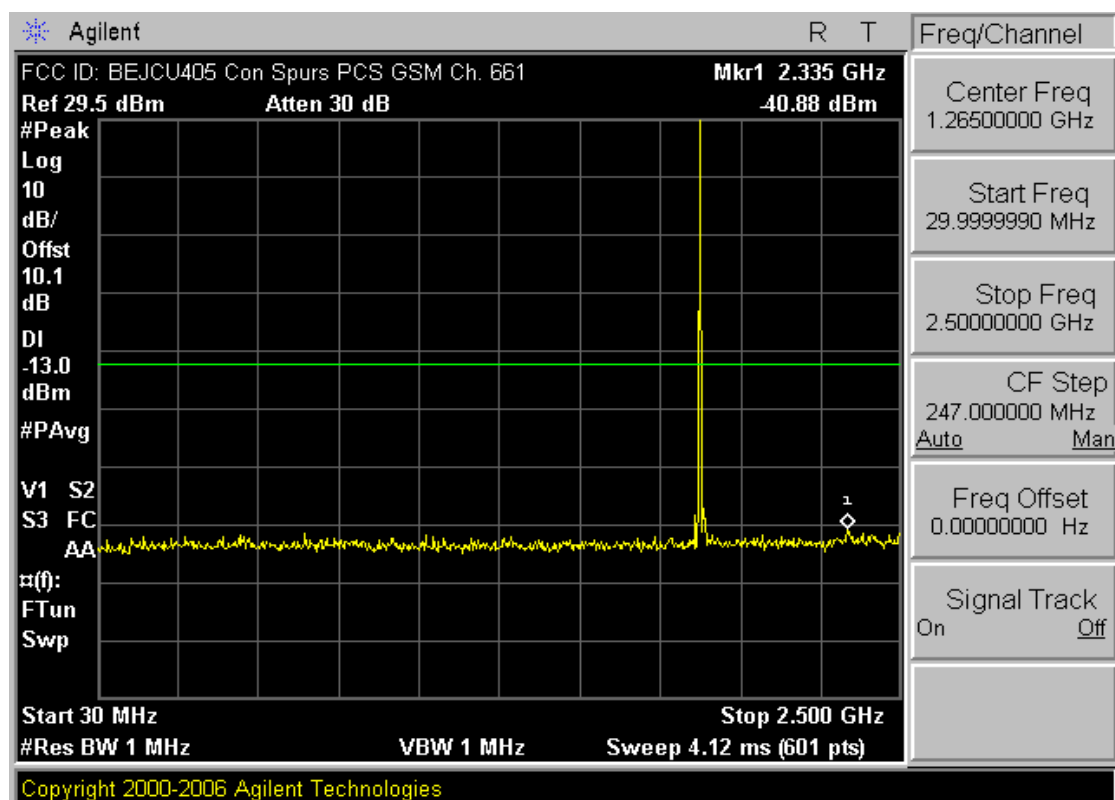


Plot 7-12. Conducted Spurious Plot (PCS GSM Mode – Ch. 512)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 41 of 60

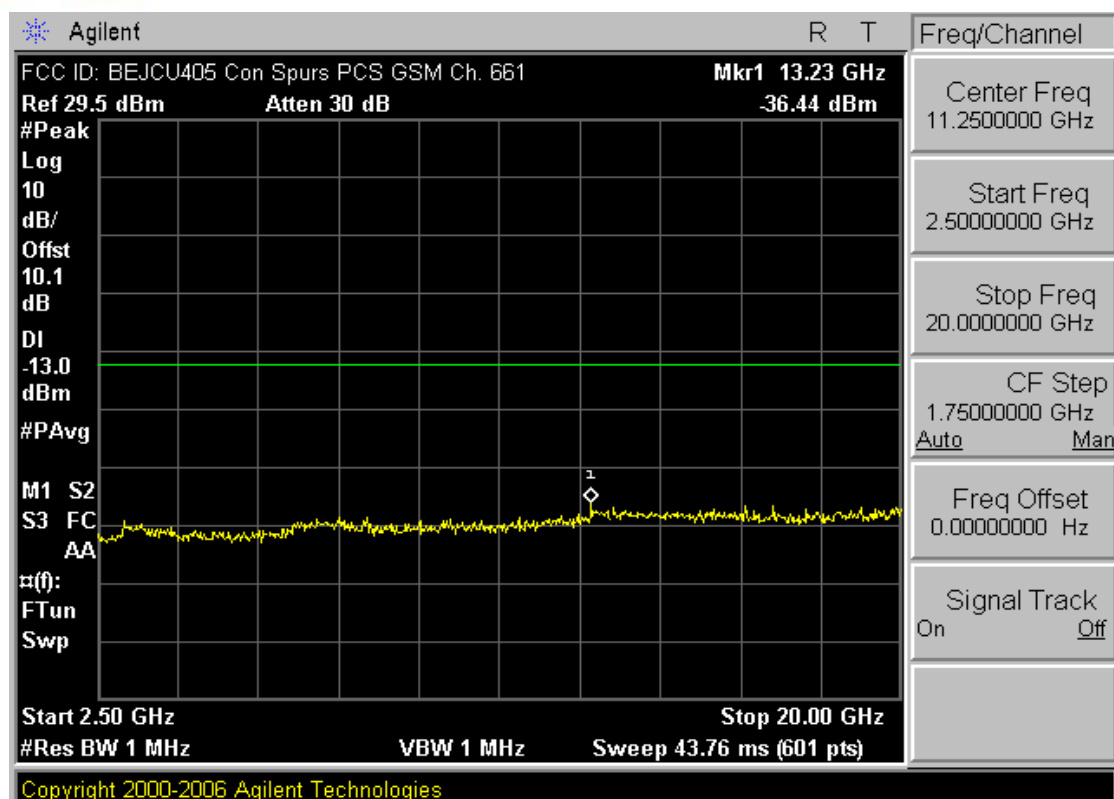


Plot 7-13. Band Edge Plot (PCS GSM Mode – Ch. 512)

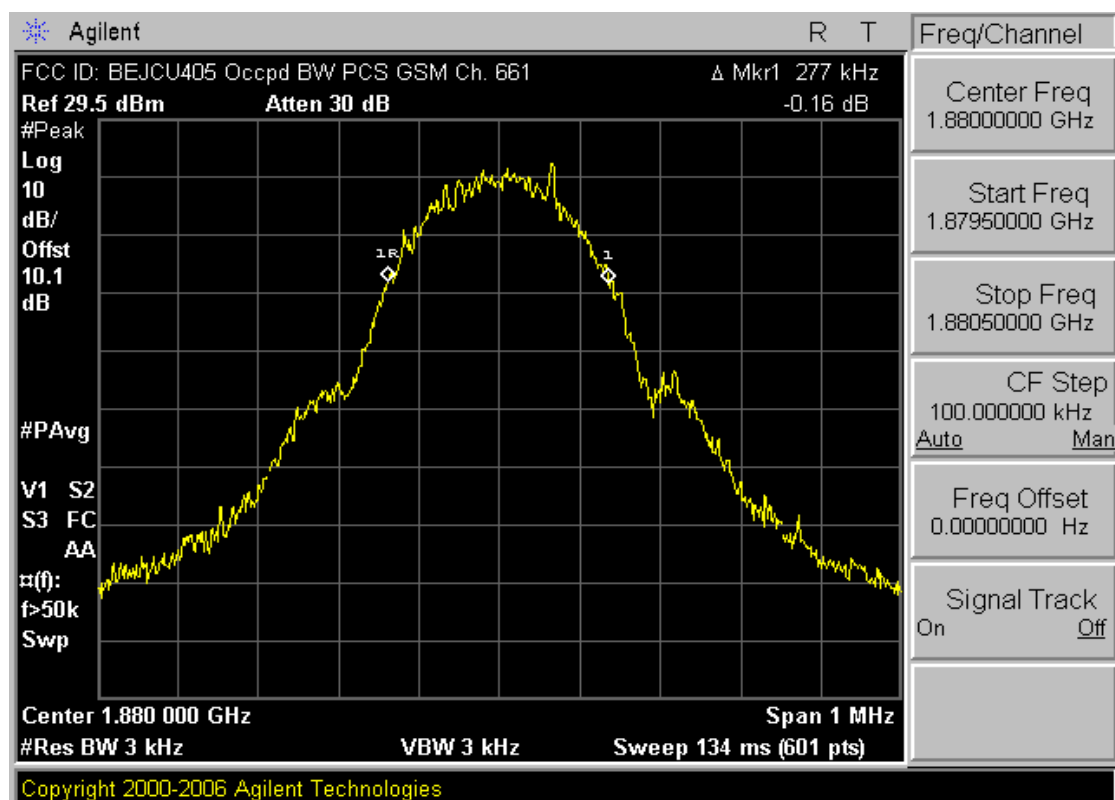


Plot 7-14. Conducted Spurious Plot (PCS GSM Mode – Ch. 661)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 42 of 60

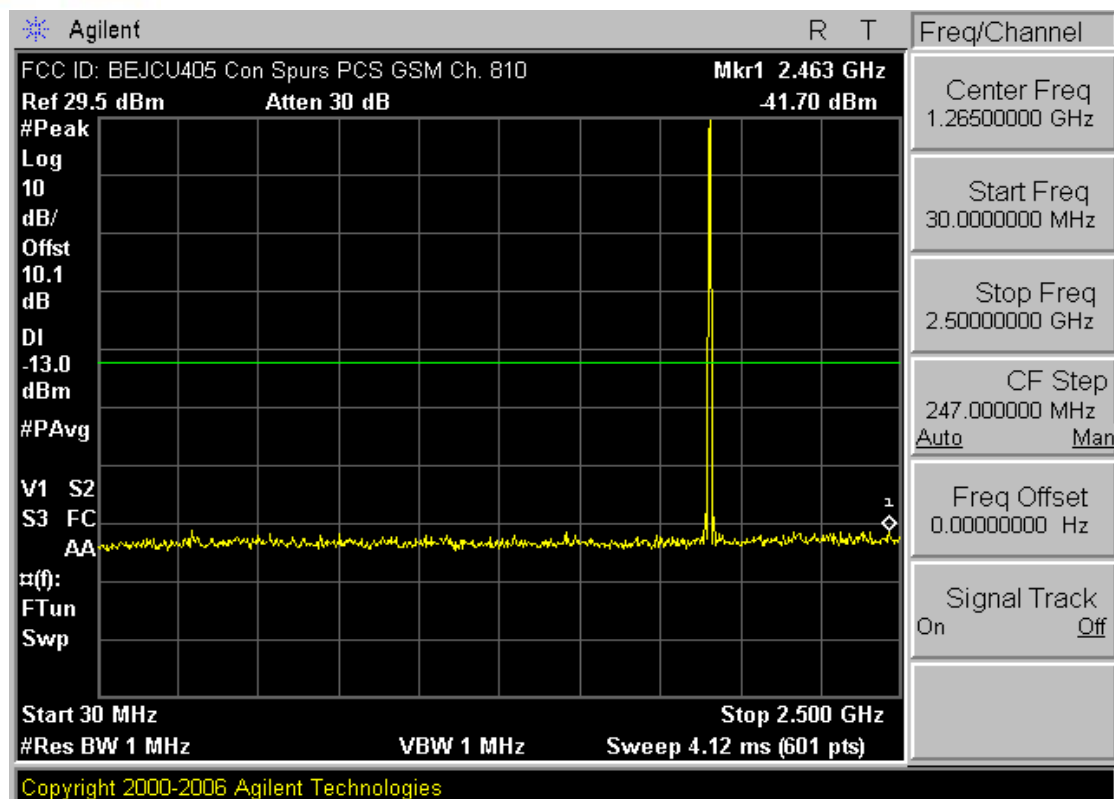


Plot 7-15. Conducted Spurious Plot (PCS GSM Mode – Ch. 661)

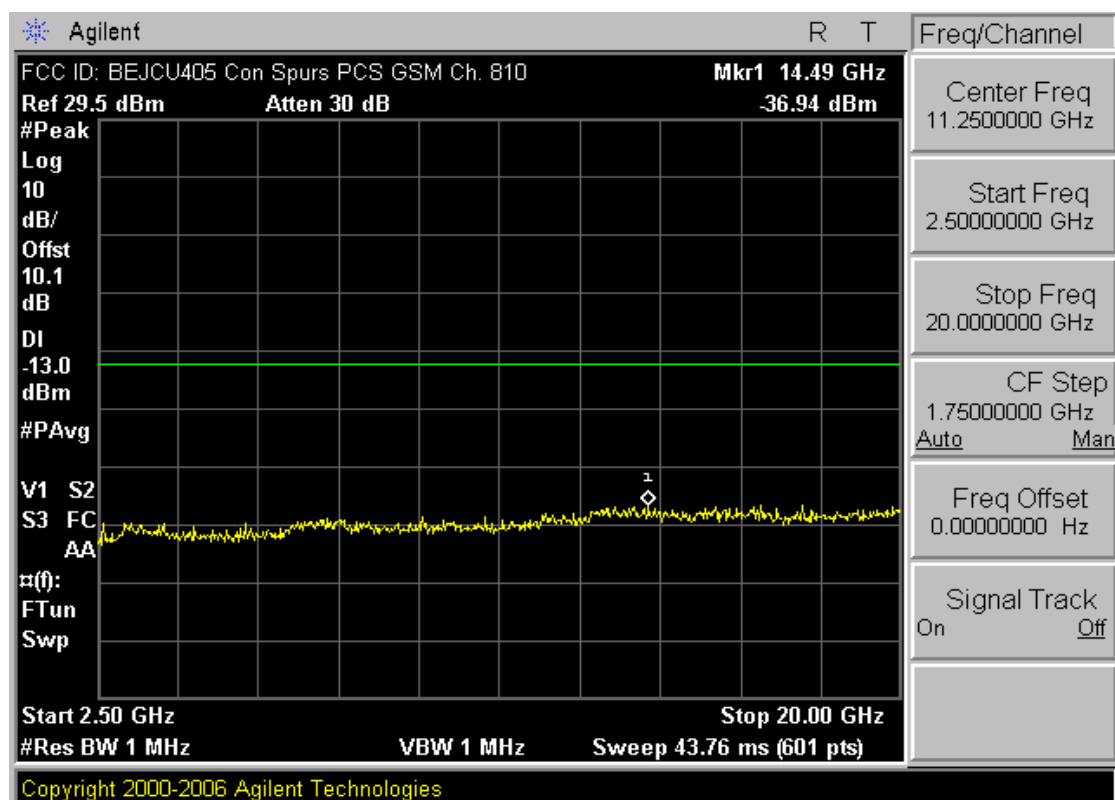


Plot 7-16. Occupied Bandwidth Plot (PCS GSM Mode – Ch. 661)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 43 of 60



Plot 7-17. Conducted Spurious Plot (PCS GSM Mode – Ch. 810)

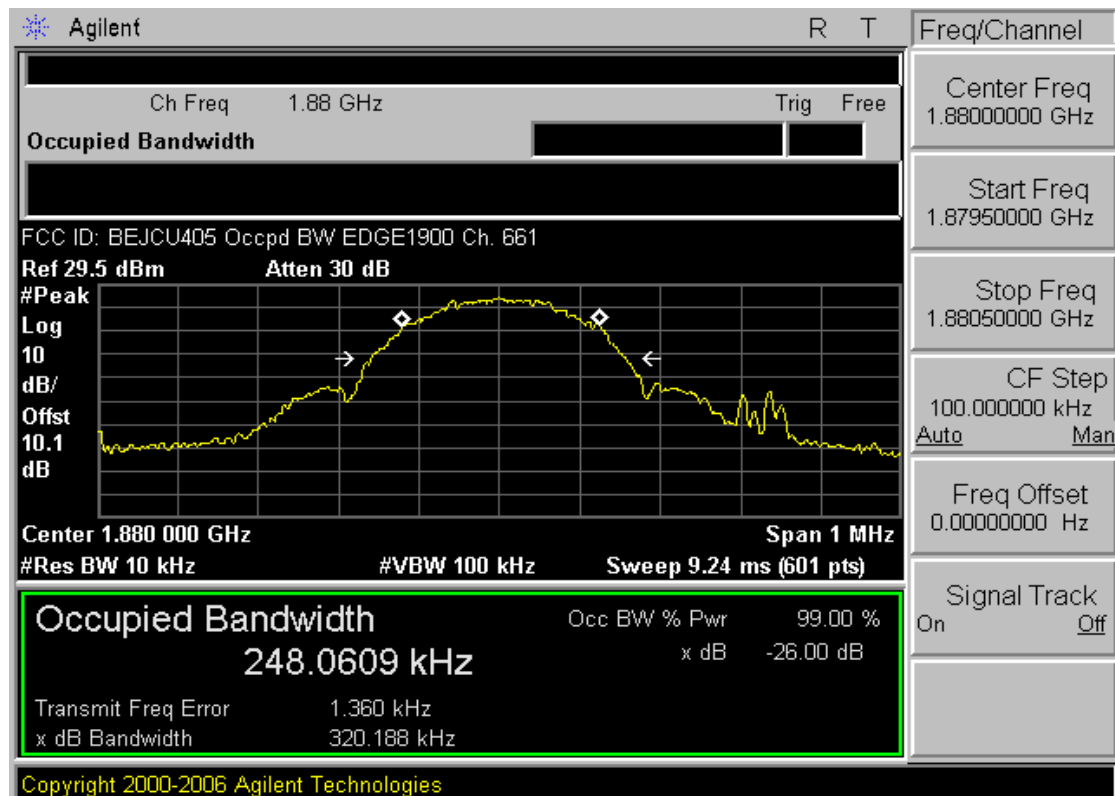


Plot 7-18. Conducted Spurious Plot (PCS GSM Mode – Ch. 810)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 44 of 60

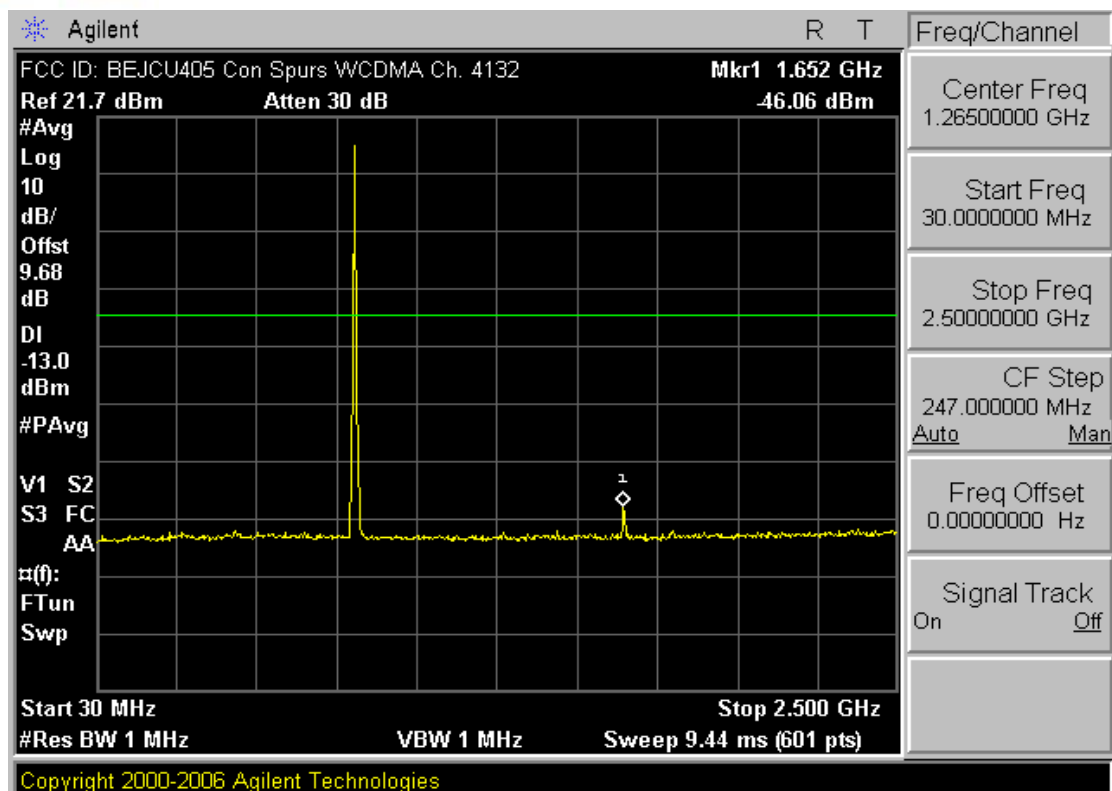


Plot 7-19. Band Edge Plot (PCS GSM Mode – Ch. 810)

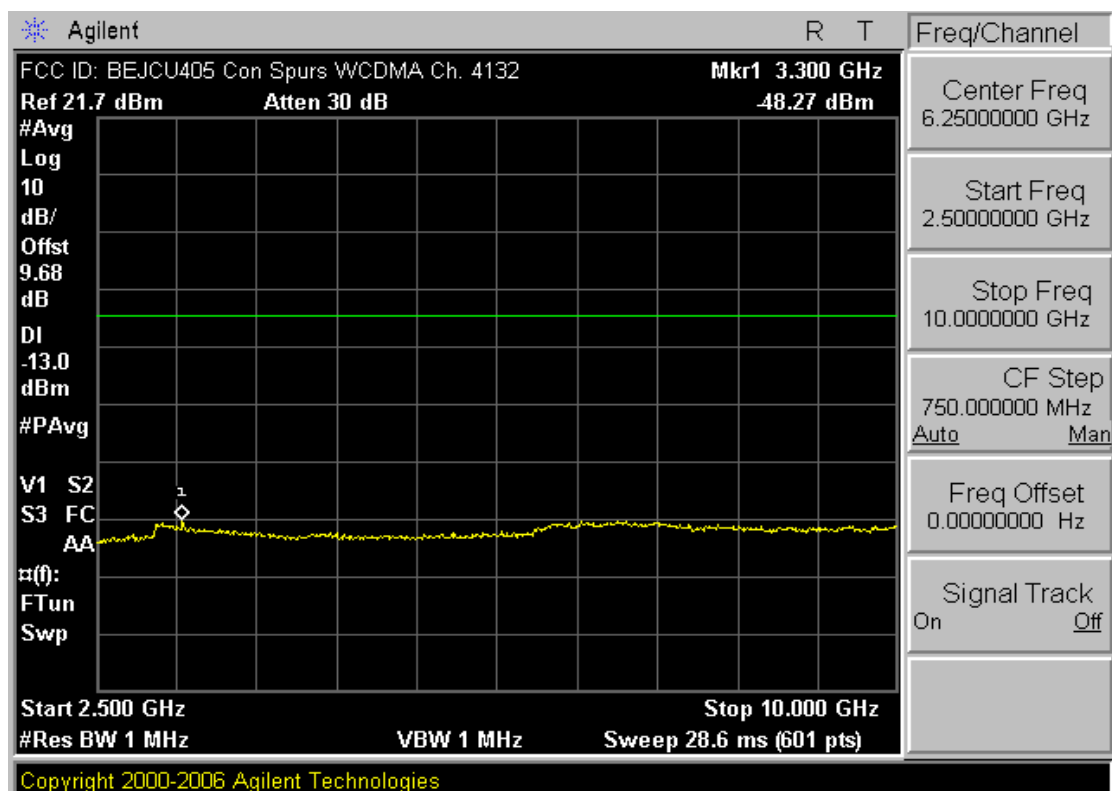


Plot 7-20. Occupied Bandwidth Plot (EDGE1900 Mode – Ch. 810)

FCC ID: BEJCU405	PCTEST wireless	FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 45 of 60



Plot 7-21. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4132)

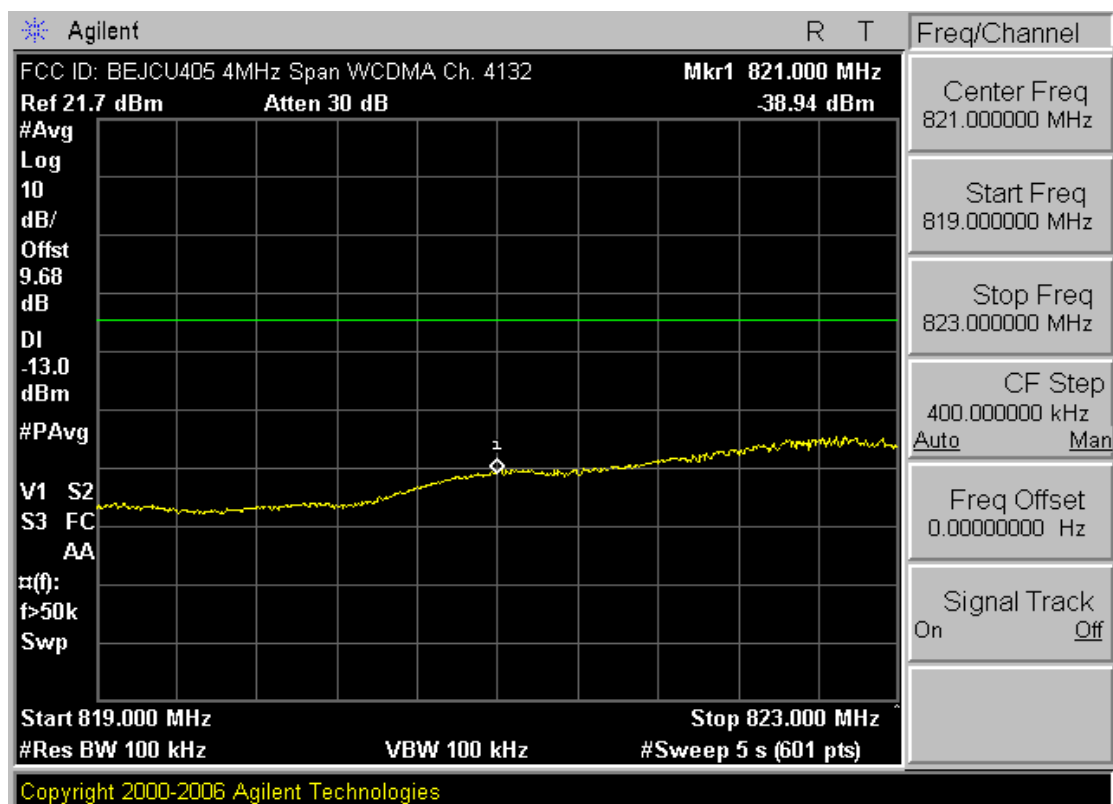


Plot 7-22. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4132)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 46 of 60

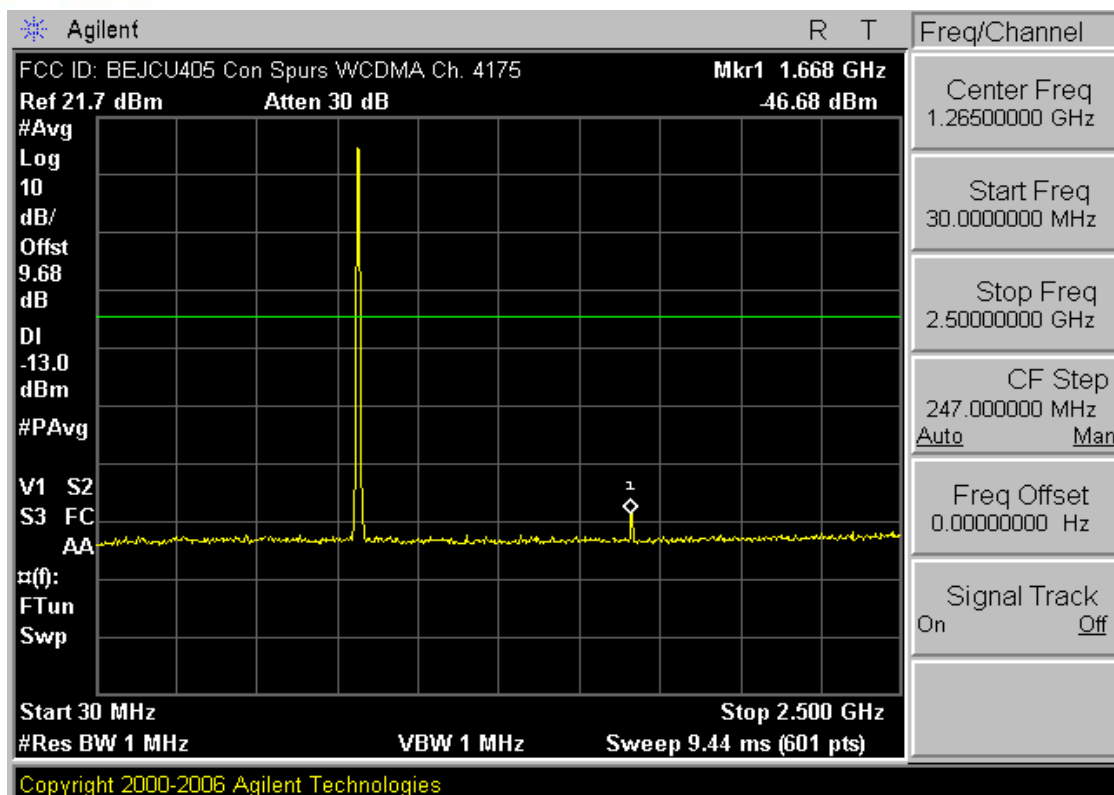


Plot 7-23. Band Edge Plot (Cellular WCDMA Mode – Ch. 4132)

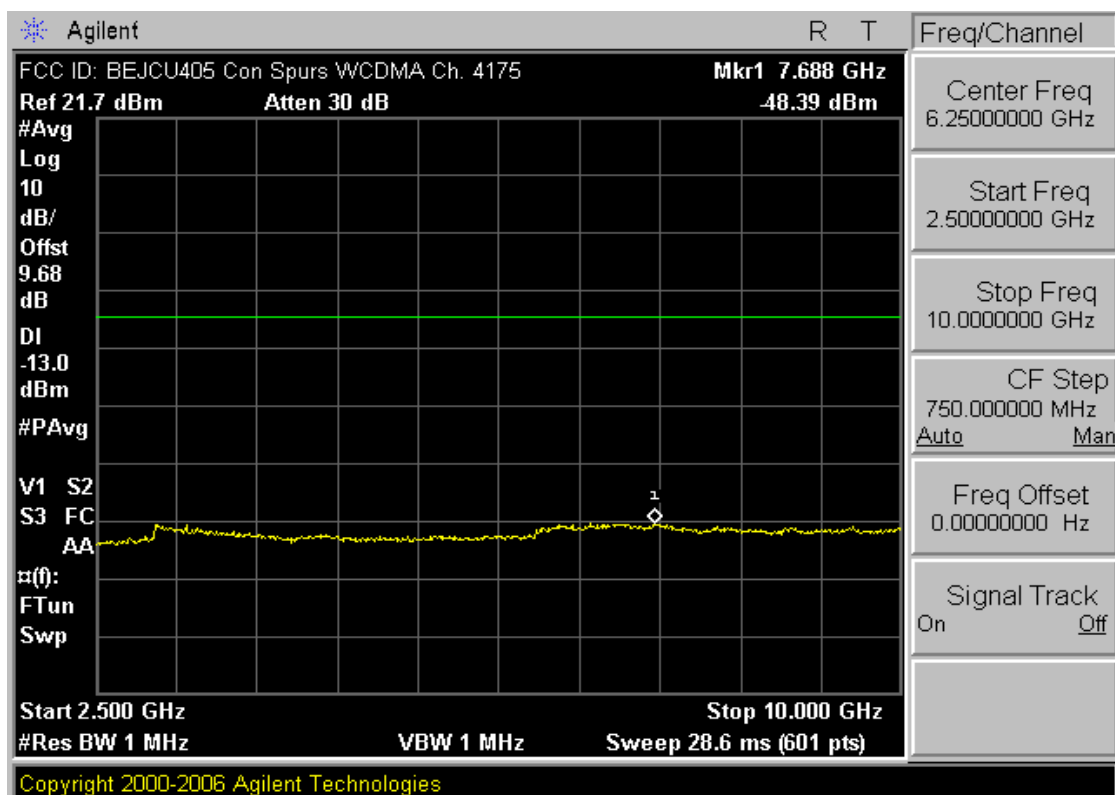


Plot 7-24. 4MHz Span Plot (Cellular WCDMA Mode – Ch. 4132)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 47 of 60

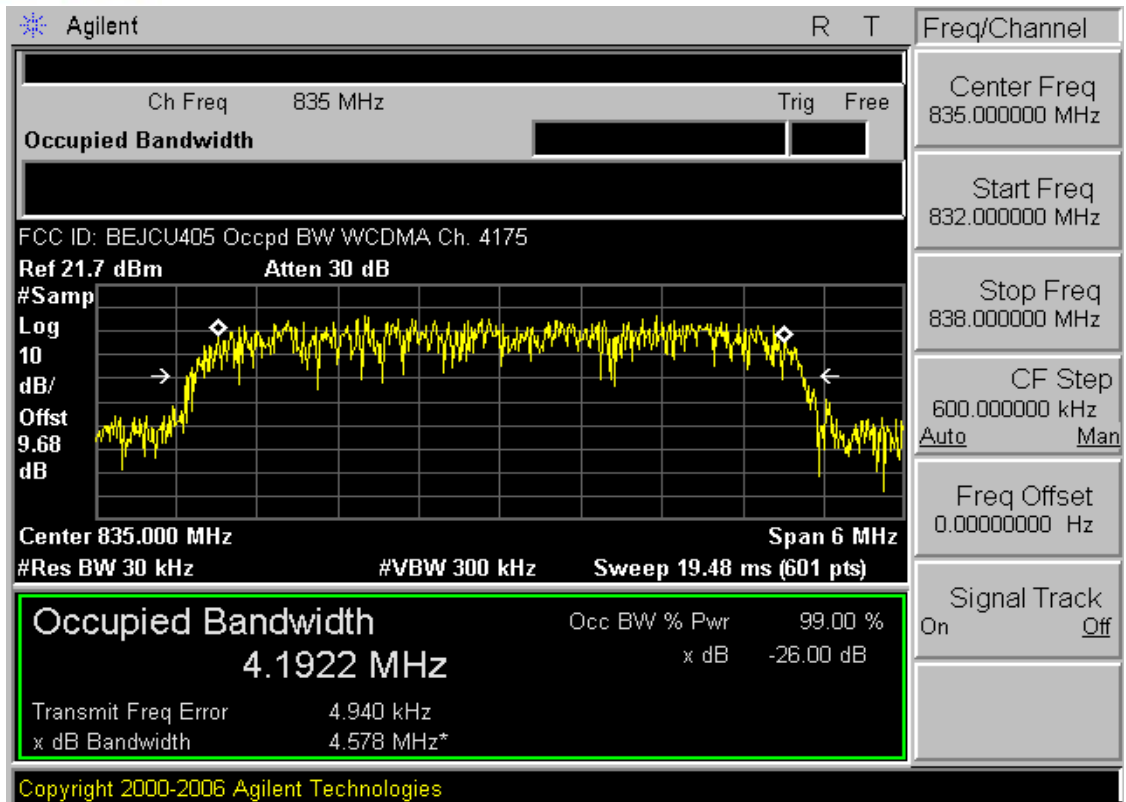


Plot 7-25. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4175)

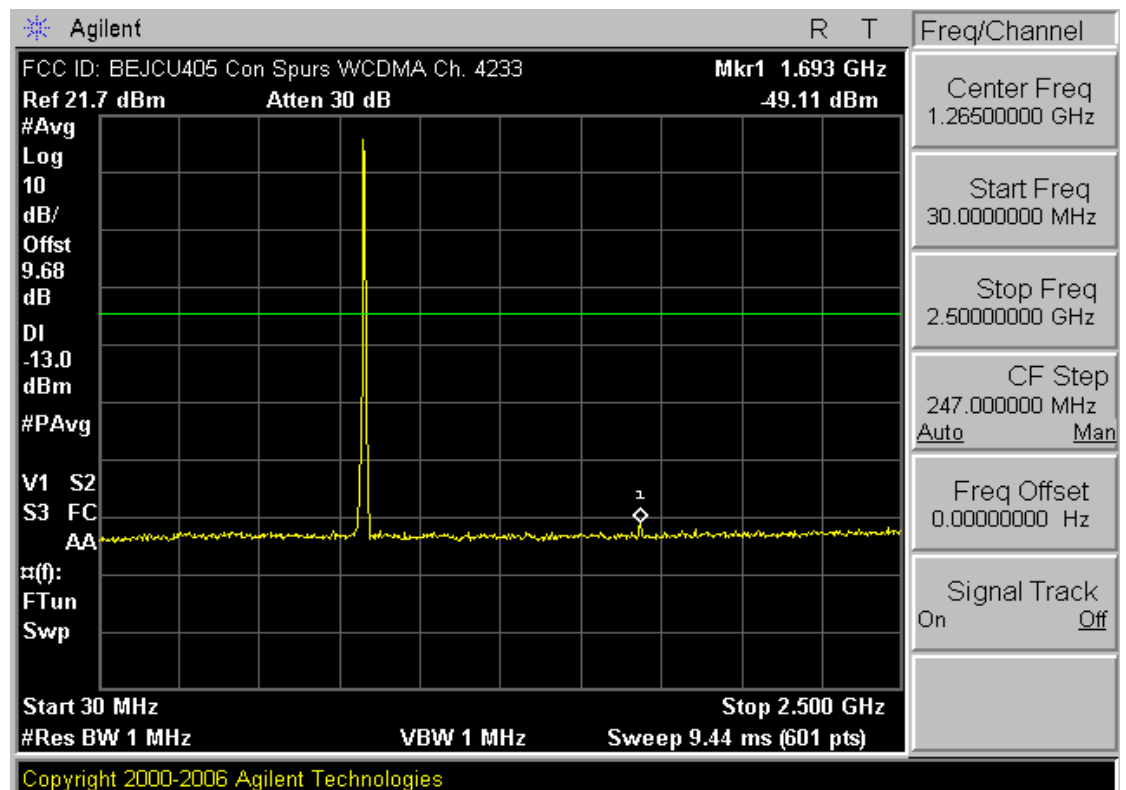


Plot 7-26. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4175)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 48 of 60

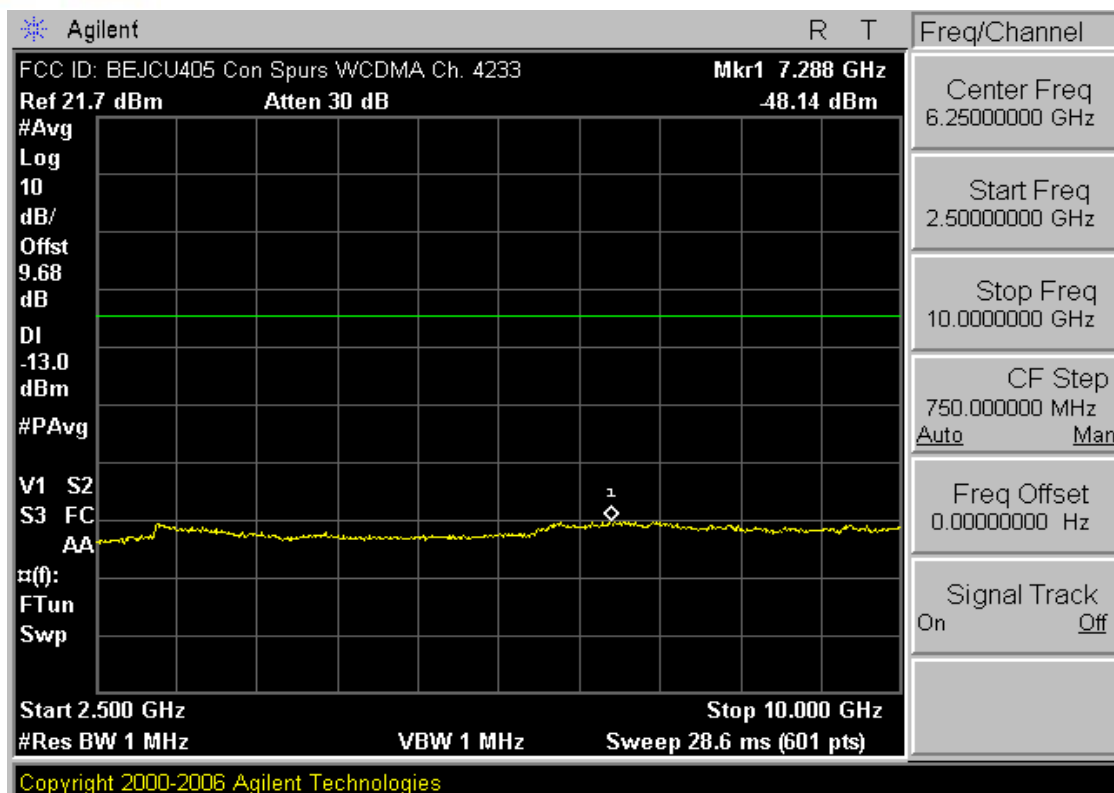


Plot 7-27. Occupied Bandwidth Plot (Cellular WCDMA Mode – Ch. 4175)



Plot 7-28. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4233)

FCC ID: BEJCU405	PCTEST wireless	FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 49 of 60

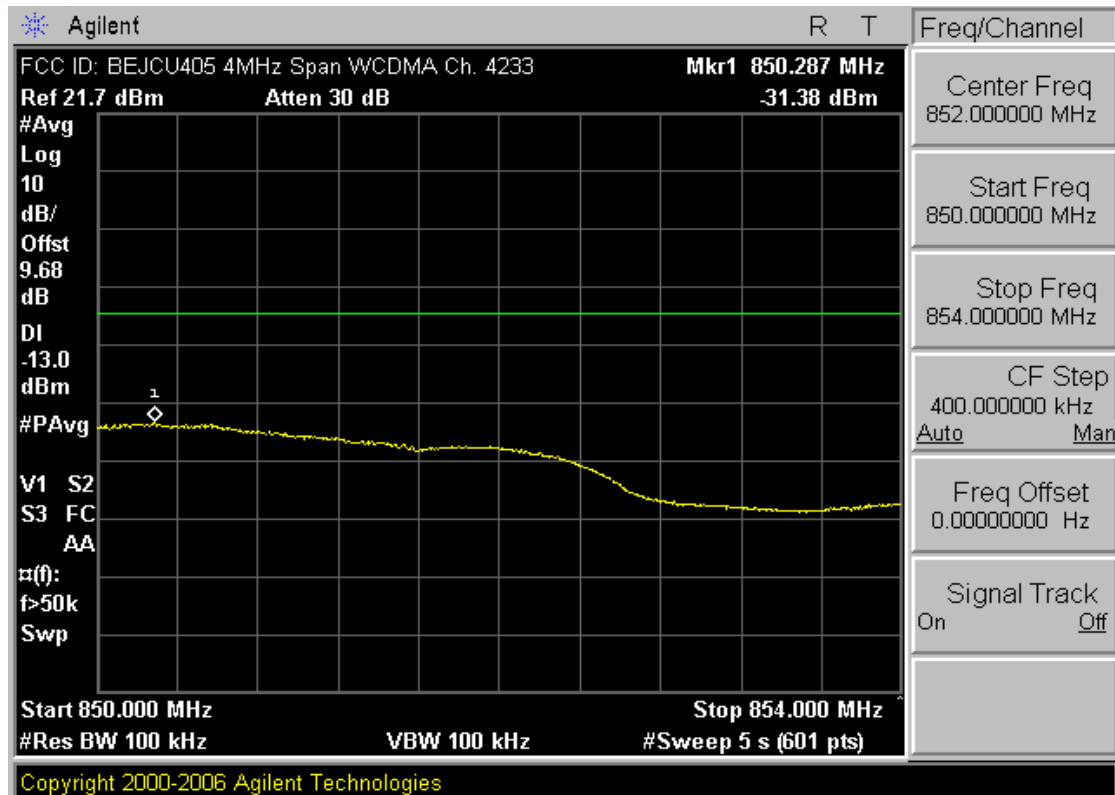


Plot 7-29. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4233)

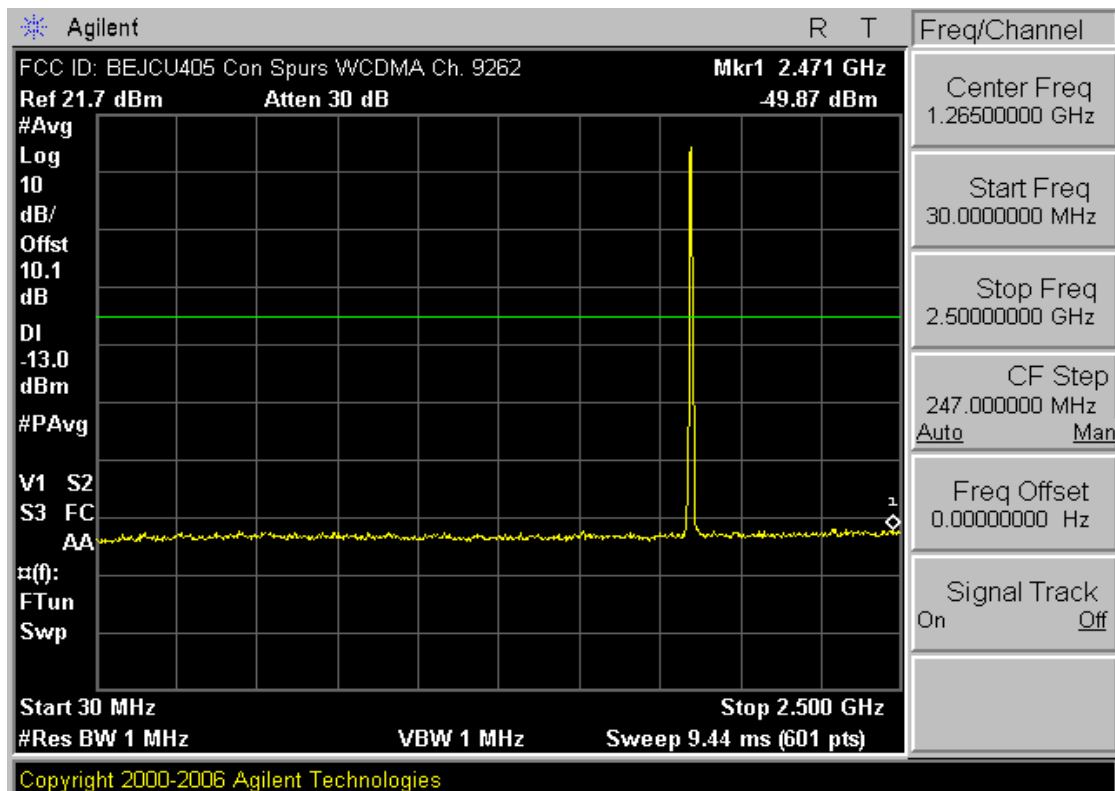


Plot 7-30. Band Edge Plot (Cellular WCDMA Mode – Ch. 4233)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 50 of 60

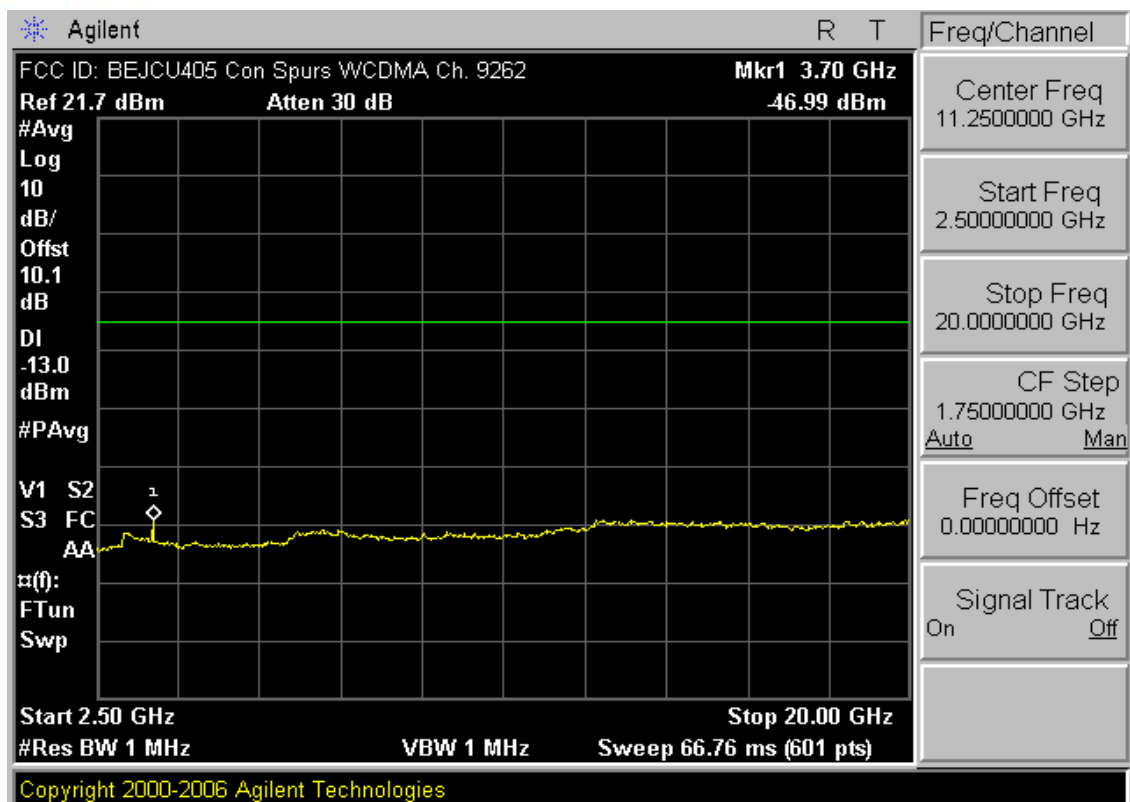


Plot 7-31. 4MHz Span Plot (Cellular WCDMA Mode – Ch. 4233)

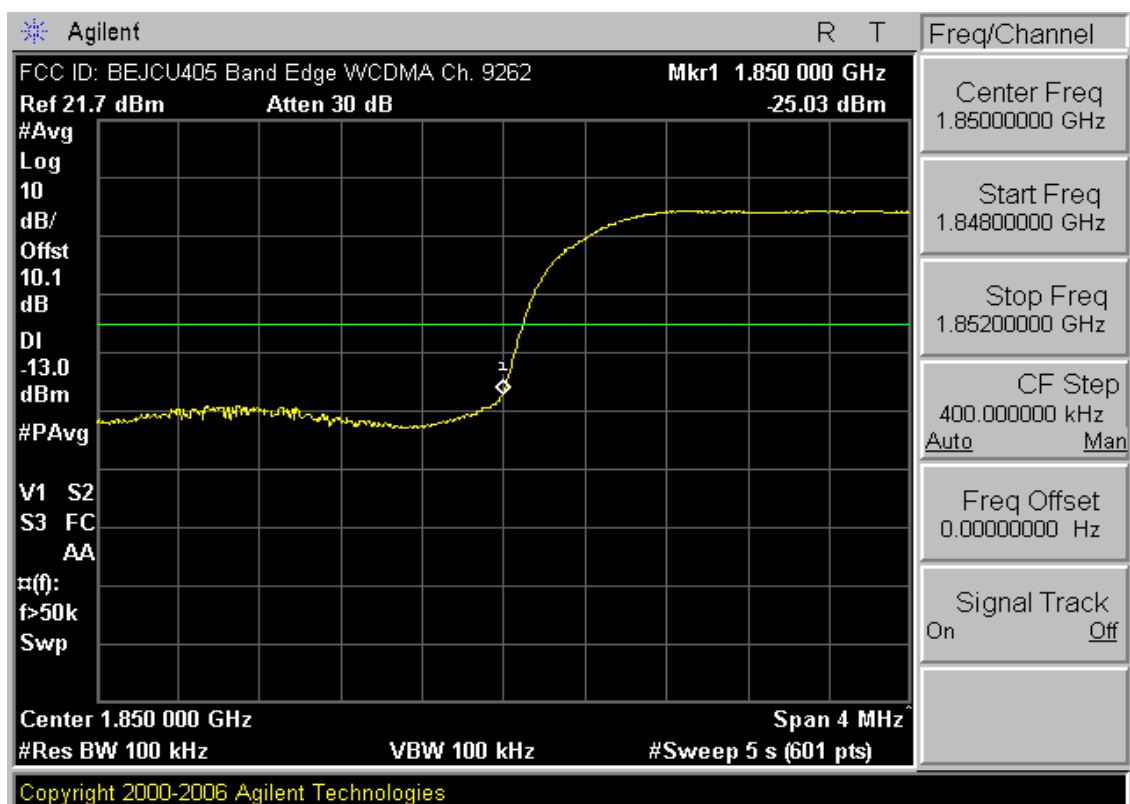


Plot 7-32. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9262)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 51 of 60

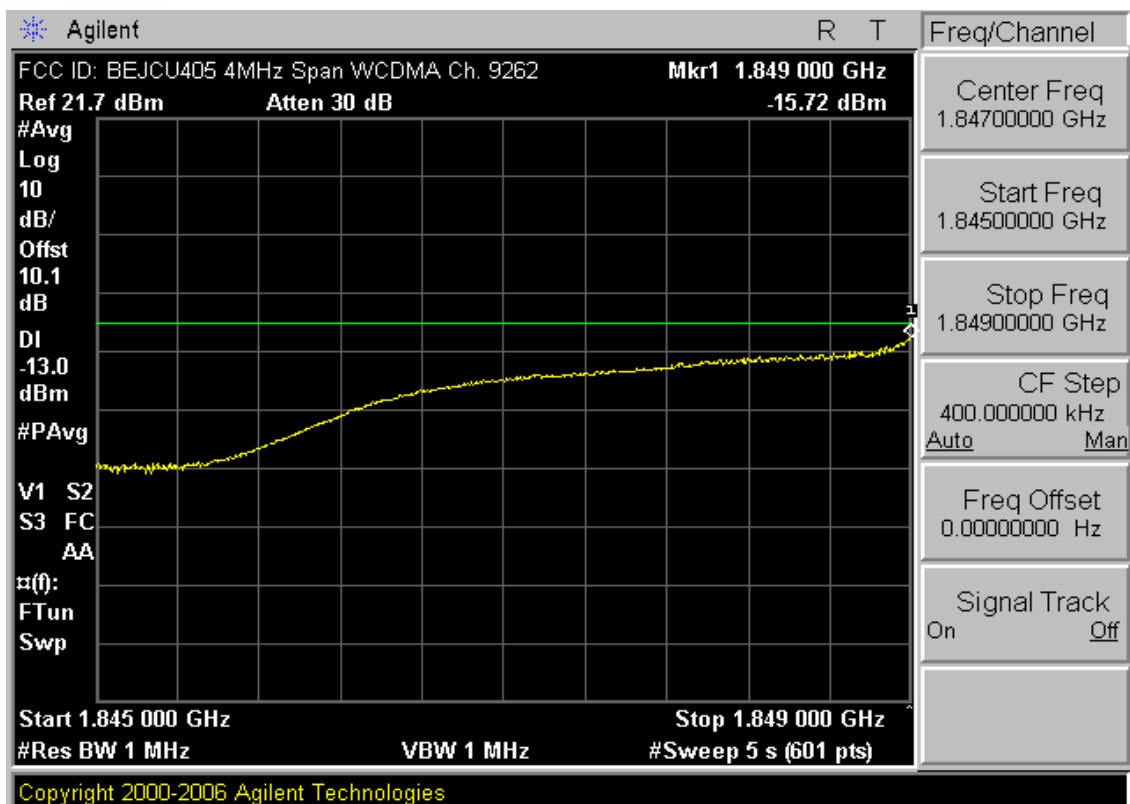


Plot 7-33. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9262)

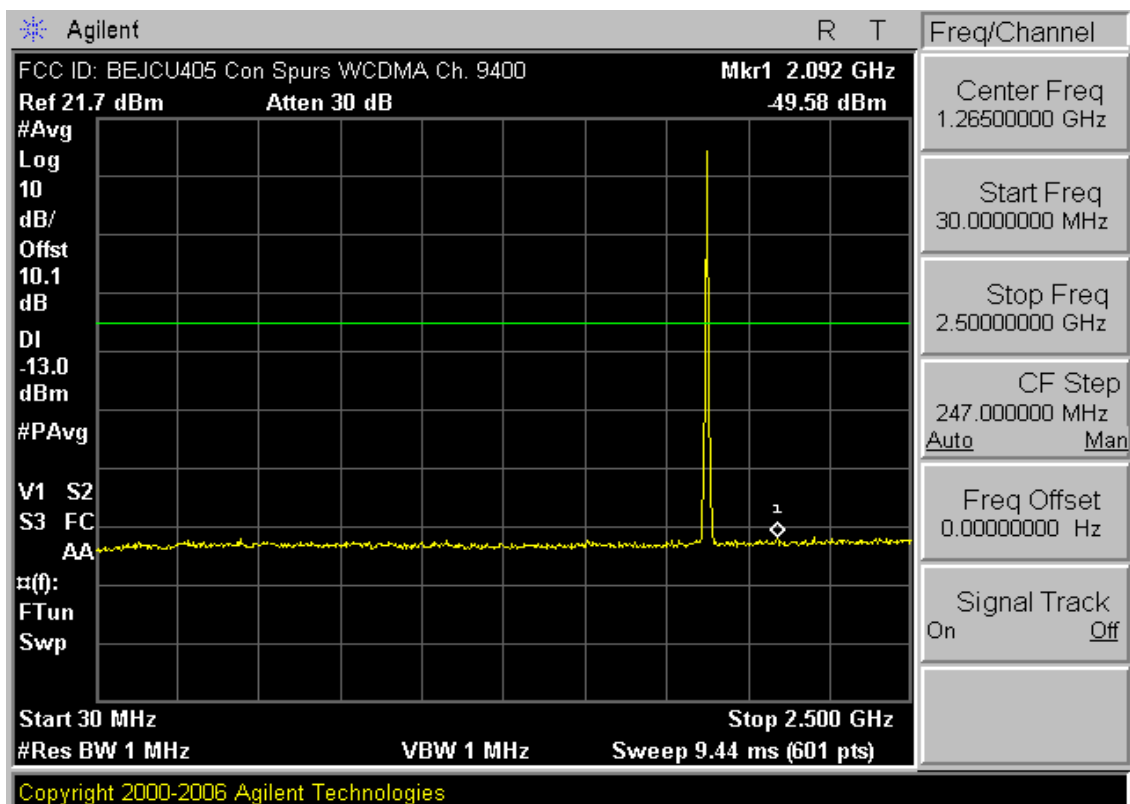


Plot 7-34. Band Edge Plot (PCS WCDMA Mode – Ch. 9262)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 52 of 60

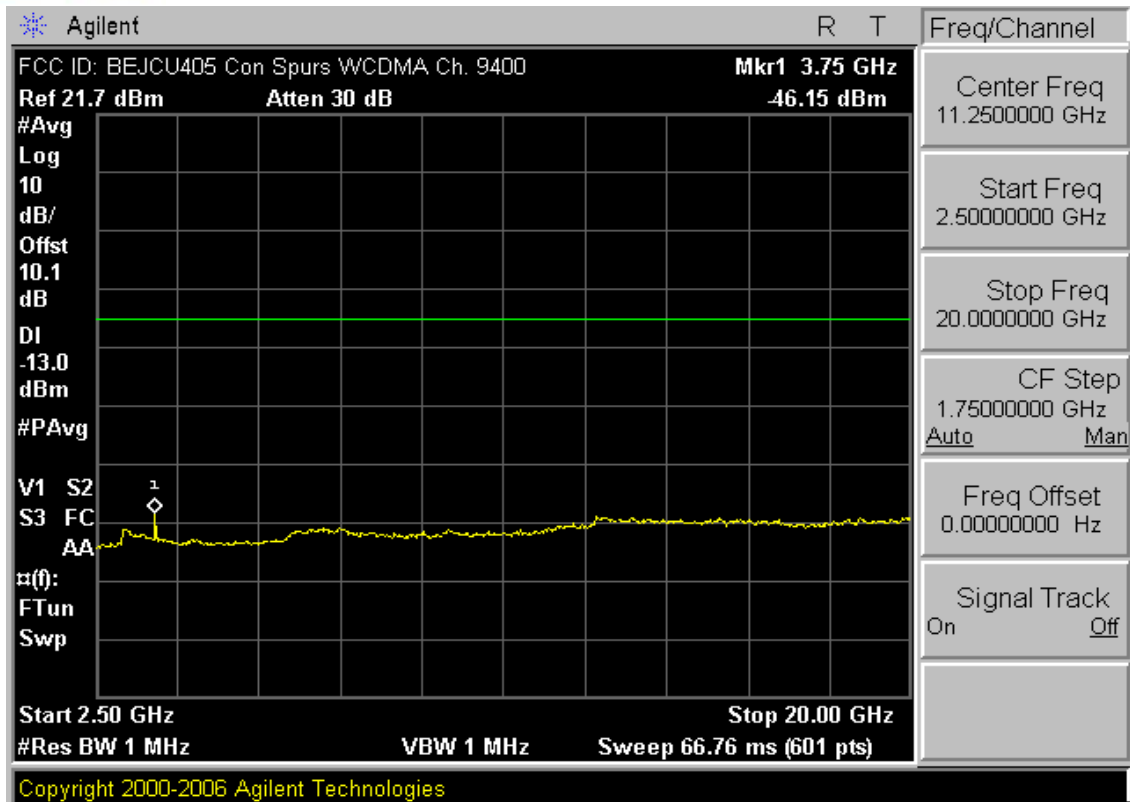


Plot 7-35. 4MHz Span Plot (PCS WCDMA Mode – Ch. 9262)

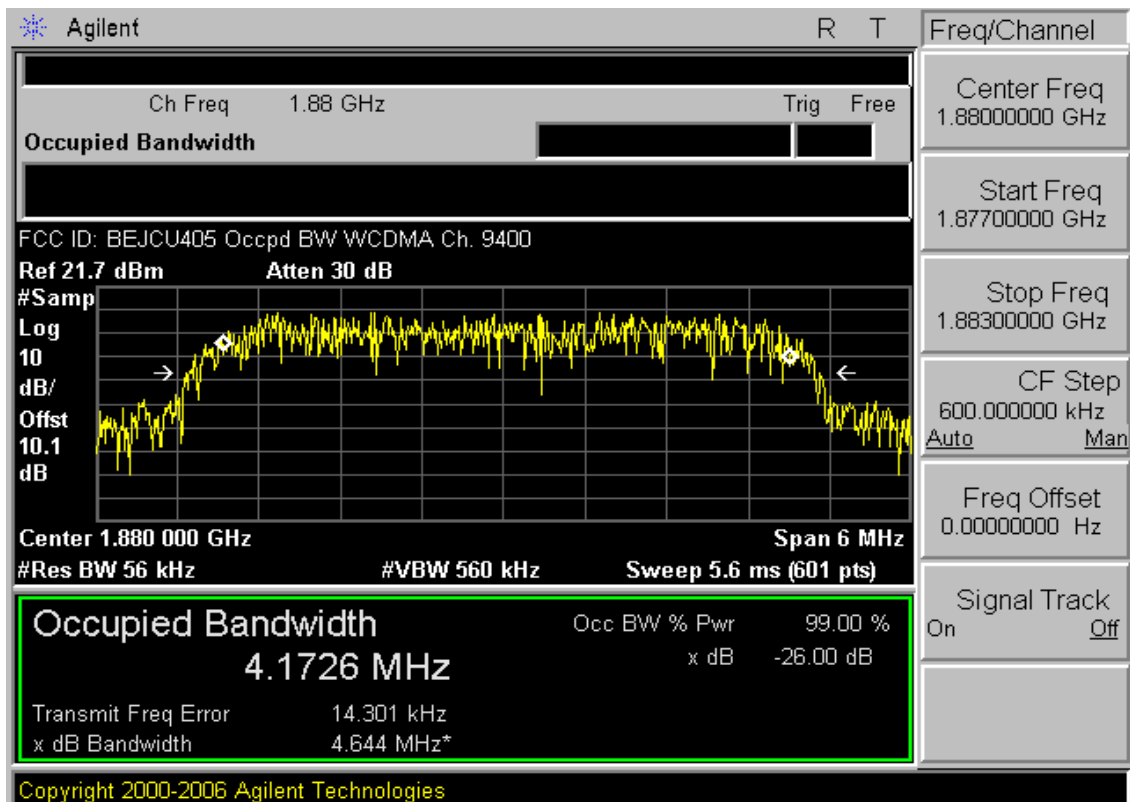


Plot 7-36. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9400)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 53 of 60

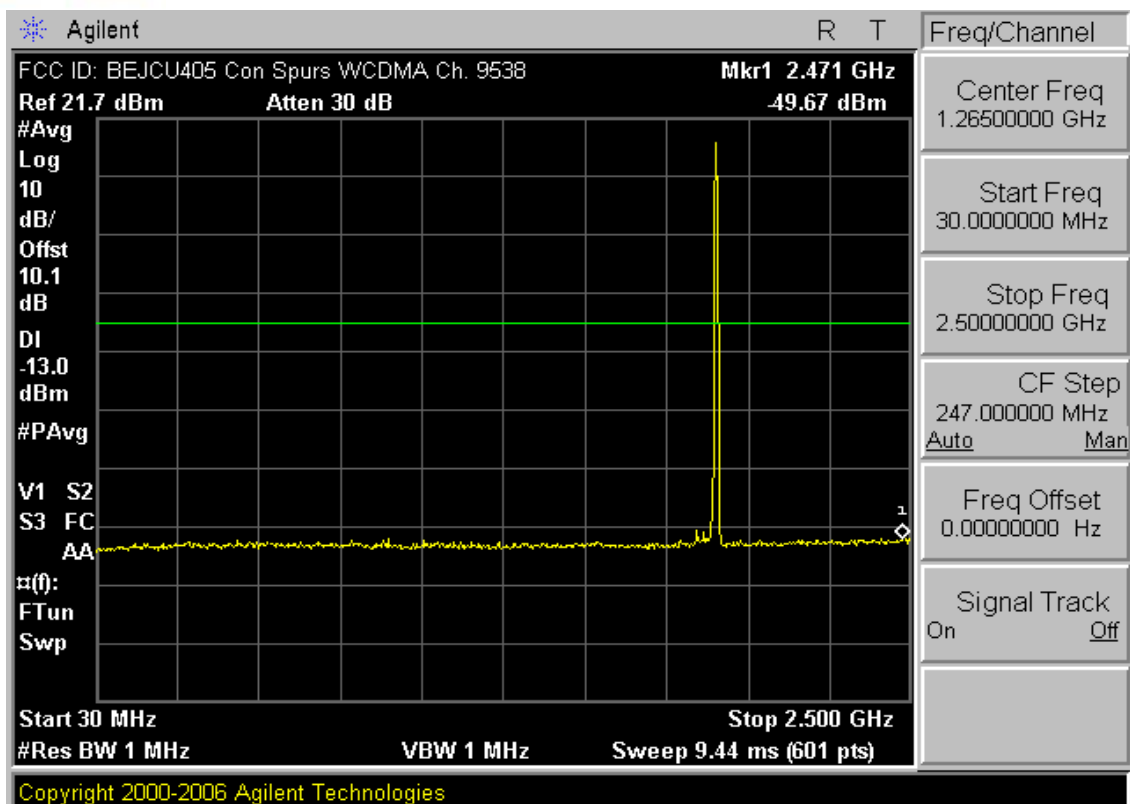


Plot 7-37. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9400)

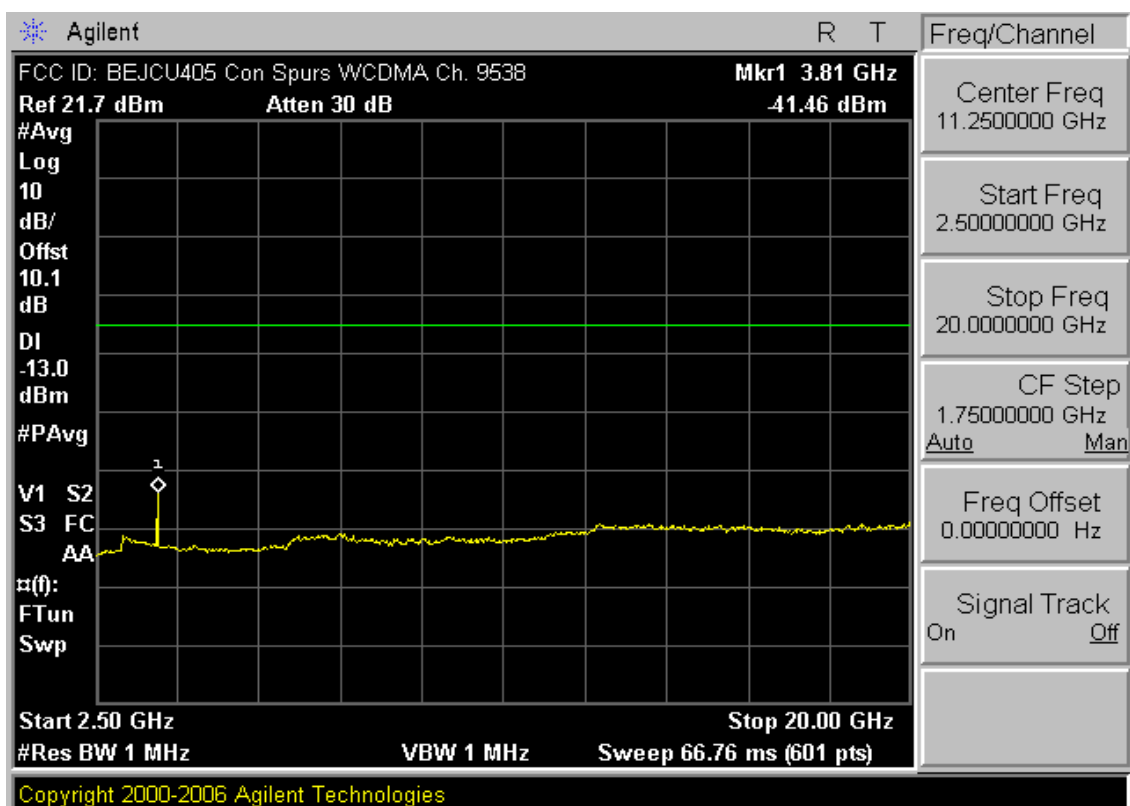


Plot 7-38. Occupied Bandwidth Plot (PCS WCDMA Mode – Ch. 9400)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 54 of 60



Plot 7-39. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9538)

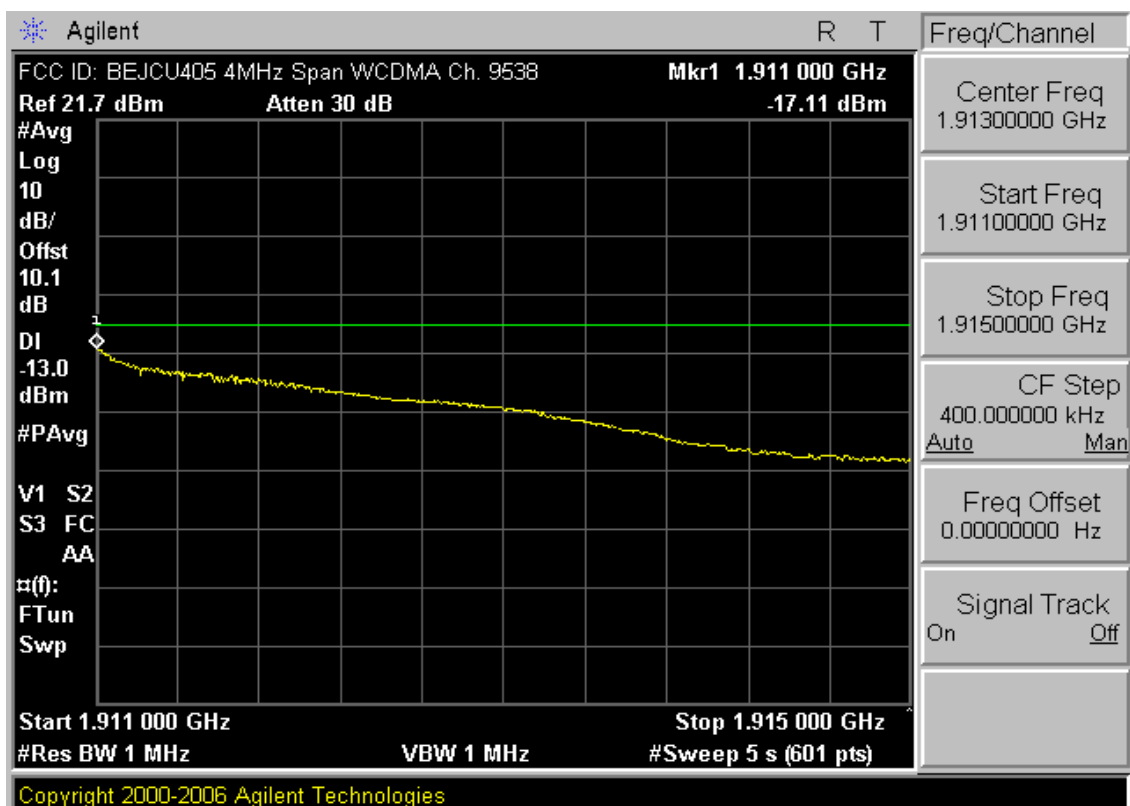


Plot 7-40. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9538)

FCC ID: BEJCU405	PCTEST wireless	FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 55 of 60



Plot 7-41. Band Edge Plot (PCS WCDMA Mode – Ch. 9538)



Plot 7-42. 4MHz Span Plot (PCS WCDMA Mode – Ch. 9538)

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 56 of 60

8.0 CONCLUSION

The data collected shows that the **LGE Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x**
FCC ID: BEJCU405 complies with all the requirements of Parts 2, 22, and 24 of the FCC rules.

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 57 of 60

EXHIBIT A – TEST SETUP PHOTOGRAPHS

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 58 of 60

EXHIBIT B – INTERNAL PHOTOGRAPHS

FCC ID: BEJCU405		FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 59 of 60

EXHIBIT C – EXTERNAL PHOTOGRAPHS

FCC ID: BEJCU405	 PCTEST wireless	FCC Pt. 22/24 GSM/EDGE/WCDMA MEASUREMENT REPORT (CERTIFICATION)	 LG	Reviewed by: Quality Manager
Test Report S/N: 0612181124	Test Dates: January 10 - 12, 2007	EUT Type: Dual-Band Dual-Mode GSM/WCDMA Phone with Bluetooth 1.x		Page 60 of 60