

HCT CO., LTD.

CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name: LG Electronics Inc. Date of Issue: May 12, 2011 Location:

Address:

60-39, Gasan-dong, Gumchon-gu, Seoul 153-023, Korea

HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon, Icheon-

si, Kyunggi-Do, Korea

Test Report No.: HCTR1104FR17-2

HCT FRN: 0005866421

FCC ID:

Max. Conducted Power:

BEJLTGEN97LNBG

APPLICANT: LG Electronics Inc.

TG97HA FCC Model(s):

Cellualr / PCS GSM / EDGE Transciever **EUT Type:**

FCC Classification: PCS Licensed Transmitter (PCB)

FCC Rule Part(s): §22, §24, §2

824.20 - 848.80 MHz (GSM850) Tx Frequency: 1 850.20 - 1 909.80 MHz (GSM1900)

869.20 - 893.80 MHz (GSM850) **Rx Frequency:** 1 930.20 - 1 989.80 MHz (GSM1900)

2.213 W GSM850 (33.45 dBm) / 1.205 W GSM1900 (30.81 dBm)

0.435 W EDGE850 (26.39 dBm) / 0.453 W EDGE1900 (26.56 dBm)

246KGXW (GSM850) 248KGXW (GSM1900) **Emission Designator(s):**

245 KG7W (GSM850 EDGE) 248 KG7W (GSM1900 EDGE)

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

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

Report prepared by : Hyo Sun Kwak

Test engineer of RF Team

Approved by : Sang Jun Lee Manager of RF Team

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	FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type: Celluair / PCS GSM / EDGE Transciever	FCC ID:		
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG		



Version

TEST REPORT NO.	DATE	DESCRIPTION
HCTR1104FR17	April 26, 2011	First Approval Report
HCTR1104FR17-1	May 4, 2011	Change of the EUT Type Name(1page)
HCTR1104FR17-2	May 12, 2011	Change of the FCC Classification



Table of Contents

1. GENERAL INFORMATION	4
2. INTRODUCTION	5
2.1. EUT DESCRIPTION	5
2.2. MEASURING INSTRUMENT CALIBRATION	5
2.3. TEST FACILITY	5
3. DESCRIPTION OF TESTS	6
3.1 EFFECTIVE RADIATED POWER/EQUIVALENT ISOTROPIC RADIATED POWER	6
3.2 PEAK- TO- AVERAGE RATIO	7
3.3 OCCUPIED BANDWIDTH	8
3.4 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL	9
3.5 RADIATED SPURIOUS AND HARMONIC EMISSIONS	10
3.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	11
4. LIST OF TEST EQUIPMENT	12
5. SUMMARY OF TEST RESULTS	13
6. SAMPLE CALCULATION	14
7. TEST DATA	15
7.1 CONDUCTED OUTPUT POWER	15
7.2 PEAK-TO-AVERAGE RATIO	16
7.3 OCCUPIED BANDWIDTH	17
7.4 CONDUCTED SPURIOUS EMISSIONS	18
7.4.1 BAND EDGE	18
7.5 RADIATED SPURIOUS EMISSIONS	19
7.5.1 RADIATED SPURIOUS EMISSIONS (GSM850)	19
7.5.2 RADIATED SPURIOUS EMISSIONS (GSM1900)	20
7.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	21
7.6.1 FREQUENCY STABILITY (GSM850)	21
7.6.2 FREQUENCY STABILITY (GSM1900)	22
8. TEST PLOTS	23

	FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:	
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG	



MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name: LG Electronics Inc.

Address: 60-39, Gasan-dong, Gumchon-gu,

Seoul 153-023, Korea

FCC ID: BEJLTGEN97LNBG

Application Type: Certification

FCC Classification: PCS Licensed Transmitter (PCB)

FCC Rule Part(s): §22, §24, §2

EUT Type: Cellualr / PCS GSM / EDGE Transciever

FCC Model(s): TG97HA

Tx Frequency: 824.20 - 848.80 MHz (GSM850)

1 850.20 - 1 909.80 MHz (GSM1900)

Rx Frequency: 869.20 - 893.80 MHz (GSM850)

1 930.20 - 1 989.80 MHz (GSM1900)

Max. Conducted Power: 2.213 W GSM850 (33.45 dBm) / 1.205 W GSM1900 (30.81 dBm)

0.435 W EDGE850 (26.39 dBm) / 0.453 W EDGE1900 (26.56 dBm)

Emission 246KGXW (GSM850) 248KGXW (GSM1900)

245 KG7W (GSM850 EDGE) 248 KG7W (GSM1900 EDGE)

Designator(s):

Date(s) of Tests: April 18, 2011 ~ April 22, 2011



2. INTRODUCTION

2.1. EUT DESCRIPTION

The LG Electronics Inc. TG97HA Cellualr / PCS GSM / EDGE Transciever of GSM850, GSM1900.

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

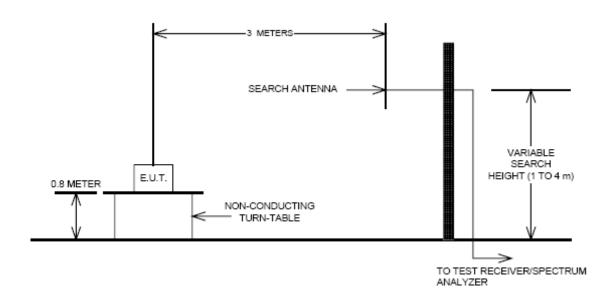
The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 105-1, Jangam-ri , Majang-Myeon, Icheon-si, 467-811, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated March 02, 2011 (Registration Number: 90661)



3. DESCRIPTION OF TESTS

3.1 EFFECTIVE RADIATED POWER/EQUIVALENT ISOTROPIC RADIATED POWER

Test Set-up



Test Procedure

Radiated emission measurements were performed at an SAC(Semi-Anechoic Chamber)

The equipment under test is placed on a non-conductive styrofoam resin table 3-meters from the receive antenna. A styrofoam turntable was rotated 360° and the receiving antenna scanned from 1-4m in order to capture the maximum emission. A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the previously recorded signal was duplicated.

The maximum EIRP was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried out with the receiving antenna in both vertical and horizontal polarization. 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.



3.2 PEAK- TO- AVERAGE RATIO

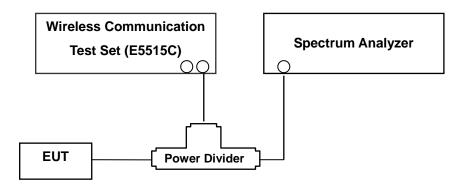
A peak to average ratio measurement is performed at the conducted port of the EUT. For CDMA and WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a

spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. Plots of the EUT's Peak- to- Average Ratio are shown herein.



3.3 OCCUPIED BANDWIDTH.

Test set-up



(Configuration of conducted Emission measurement) Test Procedure

The EUT was setup to maximum output power at its lowest channel. The occupied bandwidth was measured using a spectrum analyzer. The measurements are repeated for the highest and a middle channel. The EUT's occupied bandwidth is measured as the width of the signal between two points, one below the carrier center frequency and one above the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Plots of the EUT's occupied bandwidth are shown herein.



3.4 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.

Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer.

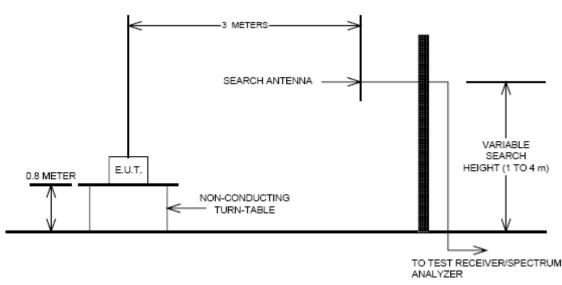
The EUT was setup to maximum output power at its lowest channel. The Resolution BW of the analyzer is set to 1 % of the emission bandwidth to show compliance with the – 13 dBm limit, in the 1 MHz bands immediately outside and adjacent to the edge of the frequency block. The 1 MHz RBW was used to scan from 10 MHz to 10 GHz. (GSM1900 Mode: 10 MHz to 20 GHz). A display line was placed at – 13 dBm to show compliance. The high, lowest and a middle channel were tested for out of band measurements.

- Band Edge Requirement: In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.



3.5 RADIATED SPURIOUS AND HARMONIC EMISSIONS

Test Set-up



The measurement facilities used for this test have been documented in previous filings with the commission pursuant to section § 2.948. The SAC(Semi-Anechoic Chamber) meets requirements in ANSI C63.4 –2003. A mast capable of lifting the receiving antenna from a height of one to four meters is used together with a rotatable styrofoam platform mounted at three from the antenna mast.

- 1) The unit mounted on a styrofoam turntable 1.5 m \times 1.0 m \times 0.80 m is 0.8 meter above test site ground level.
- During the emission test, the turntable is rotated and the EUT is manipulated to find the configuration resulting in maximum emission under normal condition of installation and operation.
- 3) The antenna height and polarization are also varied from 1 to 4 meters until the maximum signal is found.
- 4) The spectrum shall be scanned up to the 10th harmonic of the fundamental frequency.

Test Procedure

The equipment under test is placed on a non-conductive styrofoam resin table 3-meters from the receive antenna. A styrofoam turntable was rotated 360° and the receiving antenna scanned from 1-4m in order to capture the maximum emission. A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the previously recorded signal was duplicated.

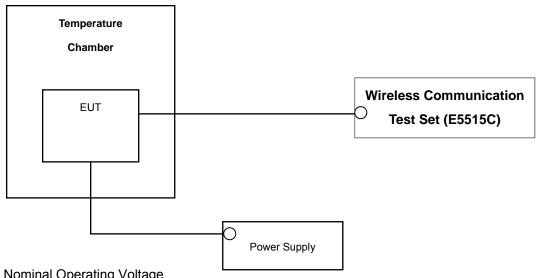
The maximum EIRP was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried out with the receiving antenna in both vertical and horizontal polarization. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.

	www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



3.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

Test Set-up



* Nominal Operating Voltage

Test Procedure

The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from 30 °C to + 50 °C using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from battery end point 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 ± 0.000 25 %(± 2.5 ppm) of the center frequency.

Time Period and Procedure:

The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).

- 1. 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 is made within one minute after applying power to the transmitter.
- 2. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one halfhour is provided to allow stabilization of the equipment at each temperature level.

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

	FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:	
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG	



4. LIST OF TEST EQUIPMENT

Manufacture	Model/ Equipment	Serial Number	Calibration Interval	Calibration Due
R&S	ESI40/ Spectrum Analyzer	831564/003	Annual	10/29/2011
Agilent	E4416A/ Power Meter	GB41291412	Annual	01/04/2012
Agilent	E9327A/ Power Sensor	MY4442009	Annual	07/23/2011
Agilent	8960 (E5515C)/ Base Station	GB44400269	Annual	02/10/2012
MITEQ	AMF-6D-001180-35-20P/AMP	990893	Annual	05/20/2011
Wainwright	WHK1.2/15G-10EF/H.P.F	2	Annual	06/25/2011
Wainwright	WHK3.3/18G-10EF/H.P.F	1	Annual	06/25/2011
Agilent	775D/ Dual Directional Coupler	12922	Annual	12/29/2011
Agilent	11636B/ Power Divider	11377	Annual	12/29/2011
Digital	EP-3010/ Power Supply	3110117	Annual	01/04/2012
Schwarzbeck	UHAP/ Dipole Antenna	949	Biennial	03/18/2012
Schwarzbeck	UHAP/ Dipole Antenna	950	Biennial	03/18/2012
Korea Engineering	KR-1005L / Chamber	KRAB07063-2CH	Annual	12/28/2011
Schwarzbeck	BBHA 9120D/ Horn Antenna	296	Biennial	09/23/2011
Schwarzbeck	BBHA 9120D/ Horn Antenna	147	Biennial	04/13/2012
Agilent	E4440A/Spectrum Analyzer	US45303008	Annual	06/09/2011

	FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:	
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG	



5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result
2.1049, 22.917(a), 24.238(a)	Occupied Bandwidth	N/A		PASS
2.1051, 22.917(a), 24.238(a)	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions		PASS
2.1046	Conducted Output Power	-	CONDUCTED	PASS
24.232(d)	Peak- to- Average Ratio	< 13 dB		PASS
2.1055, 22.355, 24.235	Frequency stability / variation of ambient temperature	< 2.5 ppm		PASS
22.913(a)(2)	Effective Radiated Power	< 7 Watts max. ERP		PASS
24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP	RADIATED	PASS
2.1053, 22.917(a), 24.238(a)	Radiated Spurious and Harmonic Emissions	< 43 + 10log10 (P[Watts]) for all out-of band emissions		PASS

	FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



6. SAMPLE CALCULATION

A. ERP Sample Calculation

Mode	Ch./ Freq.		Measured	Substitude	Ant. Gain	C.L	Pol.	ERP	
Wode	channel	Freq.(MHz)	Level(dBm)	LEVEL(dBm)	Ant. Gain C.L	FOI.	w	dBm	
GSM850	128	824.20	-11.56	34.28	-8.32	1.17	Н	0.30	24.79

ERP = SubstitudeLEVEL(dBm) + Ant. Gain - CL(Cable Loss)

- 1) The EUT mounted on a wooden tripod is 0.8 meter above test site ground level.
- 2) During the test, the turn table is rotated and the antenna height is also varied from 1 to 4 meters until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power (ERP).

B. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

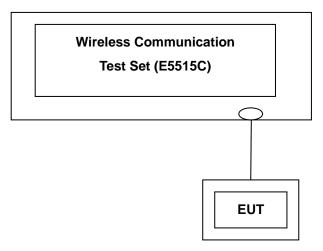
	FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:	
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG	



7. TEST DATA

7.1 CONDUCTED OUTPUT POWER

A base station simulator was used to establish communication with the EUT. The base station simulator parameters were set to produce the maximum power from the EUT. This device was tested under all configurations and the highest power is reported. Conducted Output Powers of EUT are reported below.



Test Result

	Voice GPRS Data					
Band	Channel	GSM (dBm)	GPRS 1 TX Slot (dBm)	GPRS 2 TX Slot (dBm)	GPRS 3 TX Slot (dBm)	GPRS 4 TX Slot (dBm)
GSM	128	33.45	33.45	33.29	33.03	32.89
850	190	33.22	33.22	33.06	32.78	32.72
830	251	33.33	33.33	33.20	32.92	32.92
GSM	512	30.75	30.72	30.60	30.24	30.05
1900	661	30.81	30.80	30.67	30.30	30.28
1900	810	30.62	30.62	30.50	30.10	30.04

(GSM Conducted Maximum Output Powers)

	FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:	
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG	



		EDGE Data						
Band	Channel	EDGE 1 TX Slot (dBm)	EDGE 2 TX Slot (dBm)	EDGE 3 TX Slot (dBm)	EDGE 4 TX Slot (dBm)			
GSM	128	26.20	25.95	25.93	25.76			
850	190	26.23	25.97	25.95	25.80			
850	251	26.39	26.11	26.10	26.94			
GSM	512	26.16	26.12	26.09	26.04			
1900	661	26.56	26.51	26.43	26.38			
1900	810	26.51	26.42	26.38	26.36			

(GSM EDGE Conducted Output Powers)

Note: Detecting mode is average.

7.2 PEAK-TO-AVERAGE RATIO

- Plots of the EUT's Peak- to- Average Ratio are shown Page 28.

	FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:		
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG		



7.3 OCCUPIED BANDWIDTH

Band	Channel	Frequency(MHz)	Data (GSM: kHz / WCDMA : MHz)
	128	824.20	246.0343
GSM850	190	836.60	244.0495
	251	848.80	241.1366
GSM850 EDGE	128	824.20	245.0468
	512	1850.20	244.9732
GSM1900	661	1880.00	245.8840
	810	1909.80	248.1077
GSM1900 EDGE	810	1909.80	247.8292

⁻ Plots of the EUT's Occupied Bandwidth are shown Page 24 ~ 27.

	www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



7.4 CONDUCTED SPURIOUS EMISSIONS

Band	Channel Frequency of Maximum Harmonic (GHz)		Maximum Data (dBm)
	128	7.5000	-31.00
GSM850	190	7.0625	-29.99
	251	7.4875	-30.59
	512	3.7020	-24.52
GSM1900	661	3.7620	-23.99
	810	3.8210	-23.73

⁻ Plots of the EUT's Conducted Spurious Emissions are shown Page 36 ~ 42.

7.4.1 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 28 ~ 36.

	FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:	
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG	



7.5 RADIATED SPURIOUS EMISSIONS

7.5.1 RADIATED SPURIOUS EMISSIONS (GSM850)

■ MODULATION SIGNAL: GSM850
 ■ DISTANCE: 3 meters
 ■ LIMIT: -13 dBm

Ch.	Freq.(MHz)	Measured Level	Ant. Gain (dBd)	Substitute Level [dBm]	C.L	Pol.	ERP (dBm)	dBc
	1,648.40	-32.49	9.66	-41.10	2.63	Н	-34.07	-64.82
128 (824.2)	2,472.60	-41.23	10.79	-46.35	3.55	Н	-39.11	-69.86
	3,296.80					_		
	1,673.20	-31.87	9.77	-40.89	2.67	Н	-33.79	-64.54
190 (836.6)	2,509.80	-44.58	10.82	-50.15	3.61	Н	-42.94	-73.69
(55512)	3,346.40	-50.43	11.87	-55.75	4.94	V	-48.82	-79.57
	1,697.60	-32.57	9.94	-41.65	2.61	Н	-34.32	-65.07
251 (848.8)	2,546.40	-42.60	10.84	-48.34	3.60	Н	-41.10	-71.85
	3,395.20	-48.91	11.98	-55.02	4.11	Н	-47.15	-77.90

NOTES: 1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

- 2. The magnitude of spurious emissions attenuated more than 20dB below the limit above 5th Harmonic for all channel.
- 3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

	FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:	
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG	



7.5.2 RADIATED SPURIOUS EMISSIONS (GSM1900)

 ■ MODULATION SIGNAL:
 GSM1900

 ■ DISTANCE:
 3 meters

 ■ LIMIT:
 - 13 dBm

Ch.	Freq.(MHz)	Measured Level	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	EIRP (dBm)	dBc
	3,700.40	-37.35	12.36	-41.00	4.87	V	-33.51	-65.07
512 (1850.2)	5,550.60	-43.52	12.61	-40.18	6.66	Н	-34.23	-65.79
	7,400.80	-52.73	10.97	-41.63	6.60	V	-37.26	-68.82
	3,760.00	-42.52	12.40	-45.65	4.88	V	-38.13	-69.69
661 (1880.0)	5,640.00	-42.60	12.65	-39.22	6.54	Н	-33.11	-64.67
	7,520.00	-51.09	10.84	-39.22	7.32	V	-35.70	-67.26
	3,819.60	-39.77	12.45	-43.18	5.02	Н	-35.75	-67.31
810 (1909.8)	5,729.40	-40.00	12.71	-36.92	6.54	Н	-30.75	-62.31
	7,639.20	-51.91	10.87	-39.82	7.78	Н	-36.73	-68.29

NOTES: 1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

- 2. The magnitude of spurious emissions attenuated more than 20dB below the limit above 5th Harmonic for all channel.
- 3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

	FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:	
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG	



7.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE 7.6.1 FREQUENCY STABILITY (GSM850)

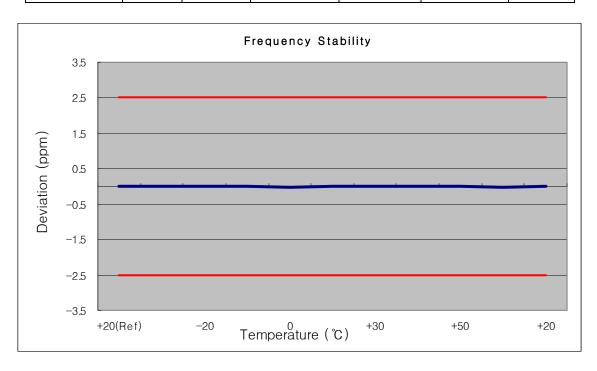
OPERATING FREQUENCY: 836,600,000 Hz

CHANNEL: <u>190</u>

REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIM IT: ± 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(℃)	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	836 600 012	0	0.000 000	0.000
100%		-30	836 600 006	5.65	0.000 001	0.007
100%		-20	836 599 997	-2.69	0.000 000	-0.003
100%	3.700	-10	836 600 002	1.61	0.000 000	0.002
100%		0	836 599 987	-13.27	-0.000 002	-0.016
100%		+10	836 600 007	6.71	0.000 001	0.008
100%		+30	836 600 002	1.95	0.000 000	0.002
100%		+40	836 600 003	2.98	0.000 000	0.004
100%		+50	836 600 003	2.74	0.000 000	0.003
115%	4.255	+20	836 599 987	-13.11	-0.000 002	-0.016
Batt. Endpoint	3.400	+20	836 599 988	-11.62	-0.000 001	-0.014



	FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



7.6.2 FREQUENCY STABILITY (GSM1900)

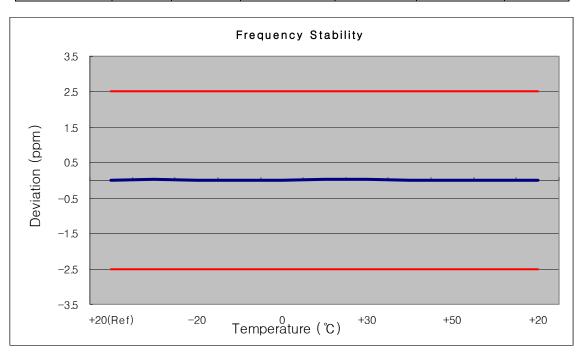
OPERATING FREQUENCY: 1880,000,000 Hz

CHANNEL: <u>661</u>

REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIM IT: $\pm 0.000 25 \%$ or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(℃)	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	1879 999 977	0	0.000 000	0.000
100%		-30	1880 000 034	33.86	0.000 002	0.018
100%		-20	1880 000 022	21.84	0.000 001	0.012
100%		-10	1880 000 019	18.54	0.000 001	0.010
100%	3.700	0	1880 000 018	17.77	0.000 001	0.009
100%		+10	1880 000 028	27.60	0.000 001	0.015
100%		+30	1880 000 027	26.97	0.000 001	0.014
100%		+40	1880 000 011	10.76	0.000 001	0.006
100%		+50	1880 000 010	9.98	0.000 001	0.005
115%	4.255	+20	1880 000 015	14.98	0.000 001	0.008
Batt. Endpoint	3.400	+20	1880 000 026	26.17	0.000 001	0.014



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Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG

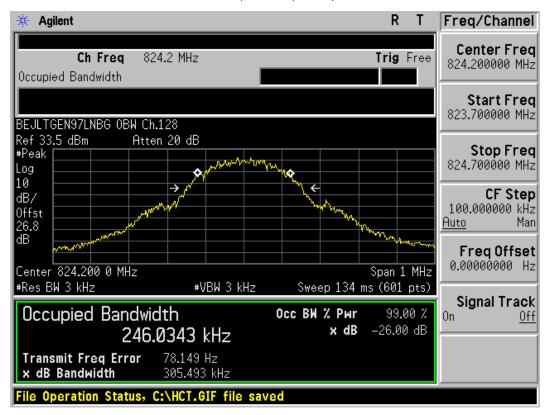


8. TEST PLOTS

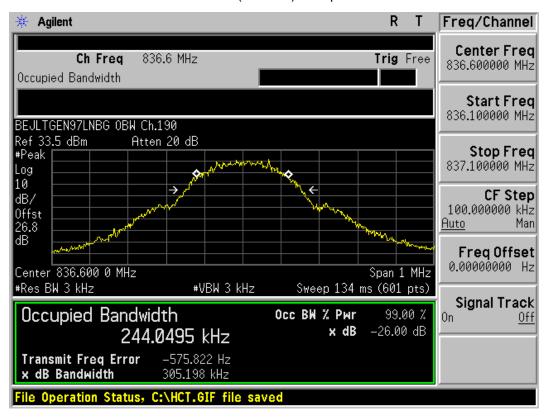
	FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM850 MODE (128 CH.) Occupied Bandwidth



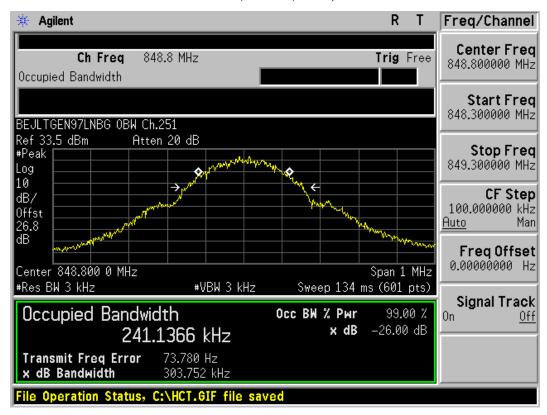
■ GSM850 MODE (190 CH.) Occupied Bandwidth



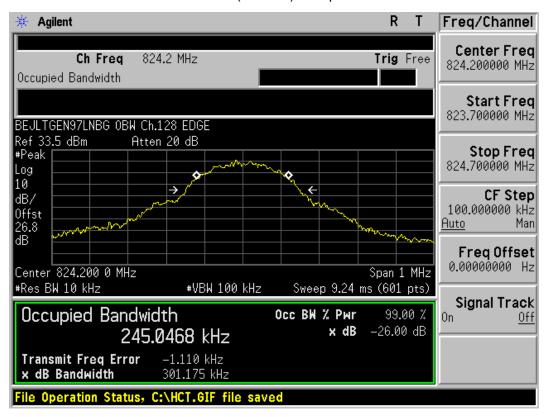
	FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM850 MODE (251 CH.) Occupied Bandwidth



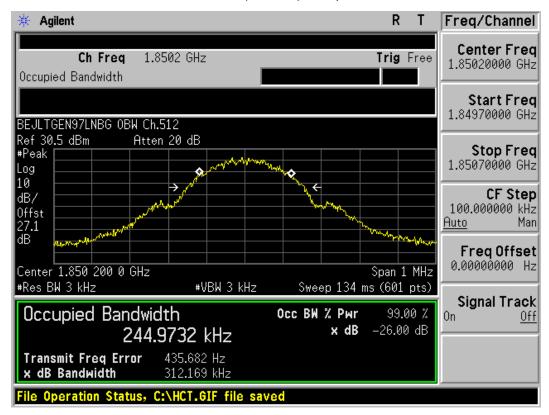
■ GSM850 EDGE (128 CH.) Occupied Bandwidth



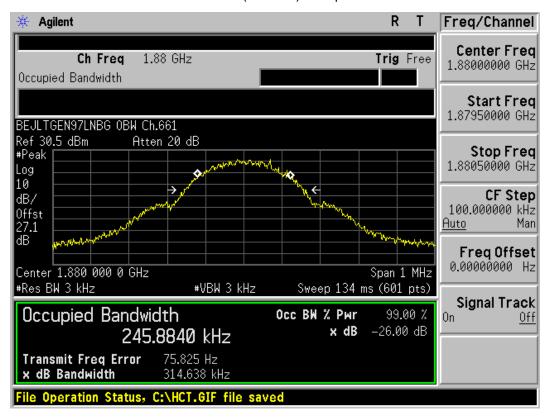
	FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM1900 MODE (512 CH.) Occupied Bandwidth



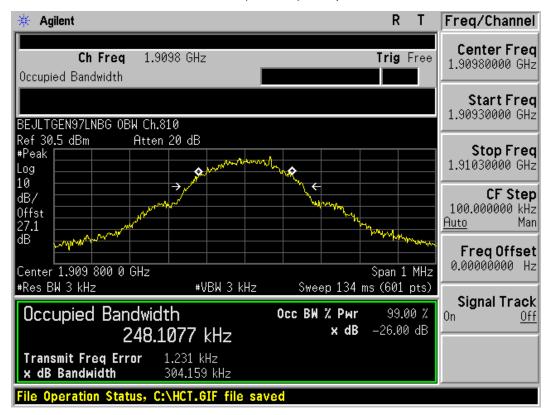
■ GSM1900 MODE (661 CH.) Occupied Bandwidth



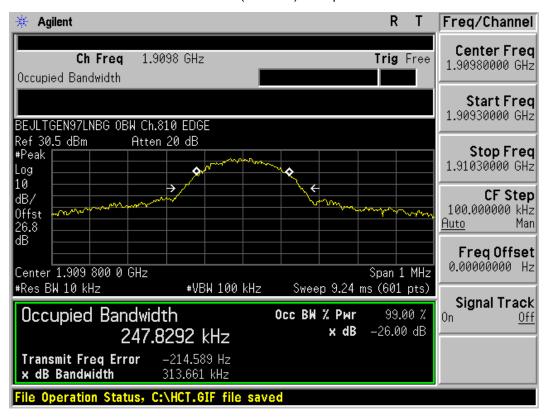
	FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM1900 MODE (810 CH.) Occupied Bandwidth



■ GSM1900 EDGE (810 CH.) Occupied Bandwidth



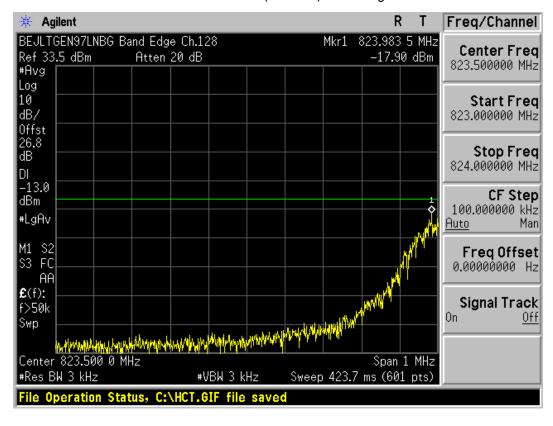
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Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM1900 MODE (661 CH.) Peak-to-Average Ratio



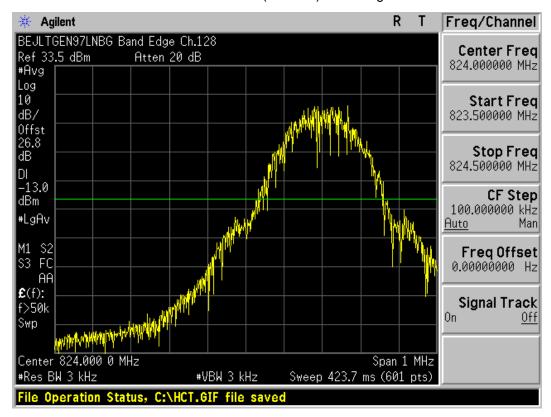
■ GSM850 MODE (128 CH.) Block Edge 1



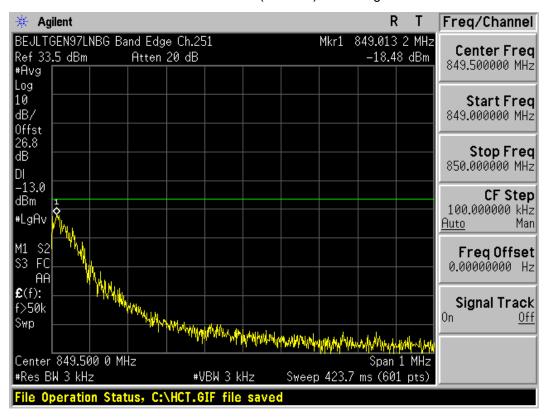
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Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM850 MODE (128 CH.) Block Edge 2



■ GSM850 MODE (251 CH.) Block Edge 1



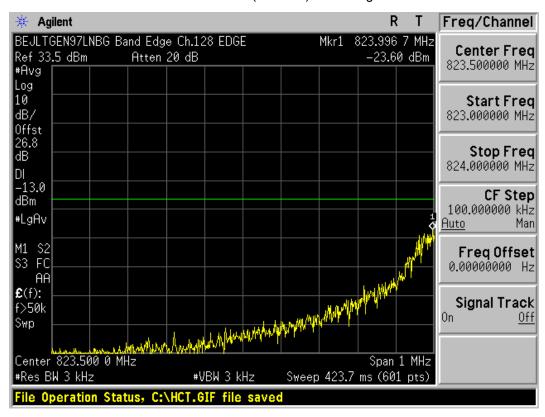
	FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM850 MODE (251 CH.) Block Edge 2



■ EDGE MODE (128 CH.) Block Edge 1



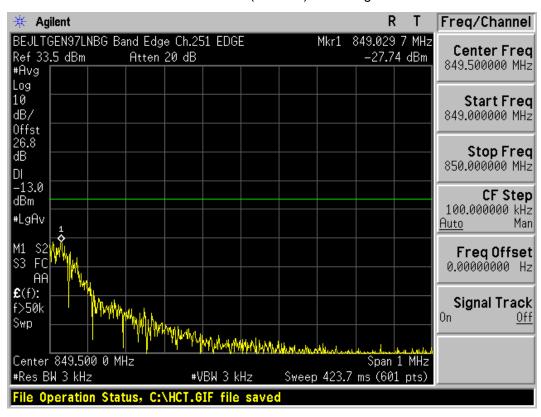
	FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ EDGE MODE (128 CH.) Block Edge 2



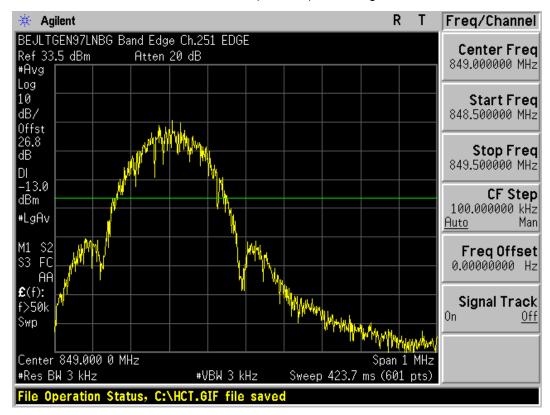
■ EDGE MODE (251 CH.) Block Edge 1



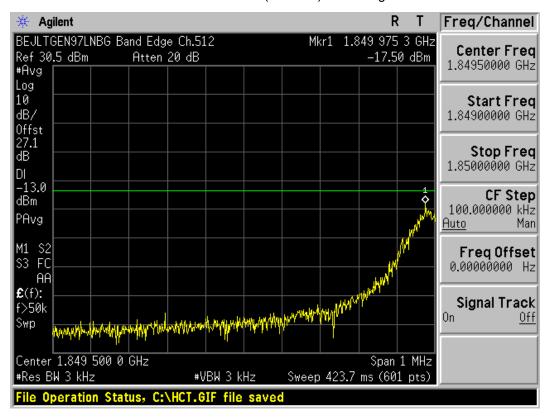
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ EDGE MODE (251 CH.) Block Edge 2



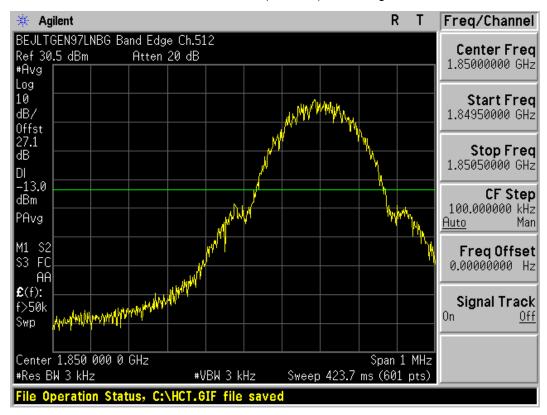
■ GSM1900 MODE (512 CH.) Block Edge 1



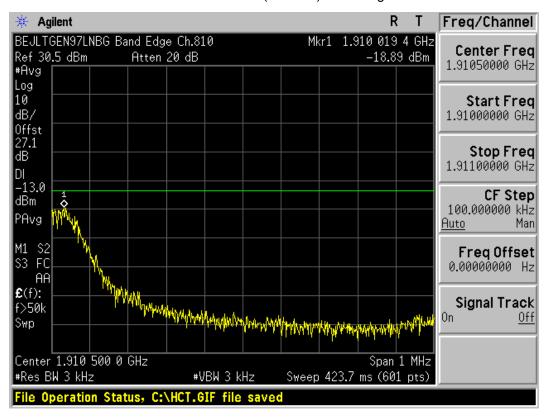
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Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM1900 MODE (512 CH.) Block Edge 2



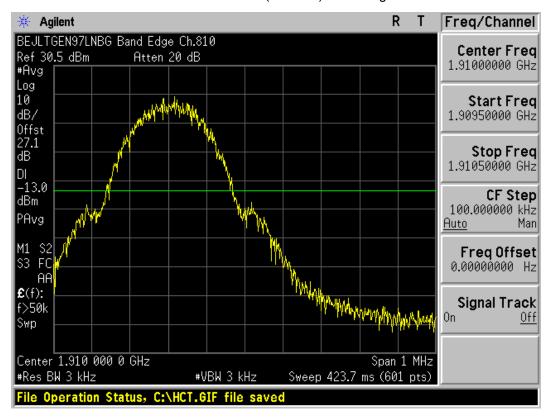
■ GSM1900 MODE (810 CH.) Block Edge 1



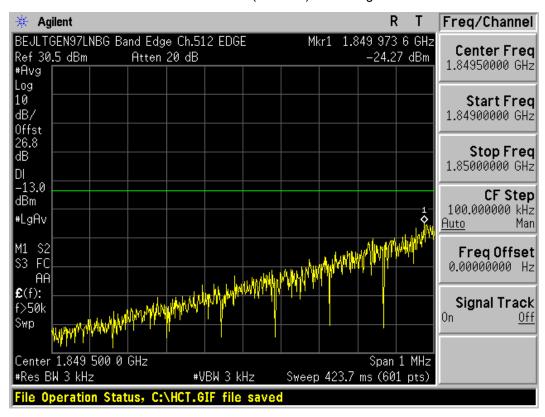
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM1900 MODE (810 CH.) Block Edge 2



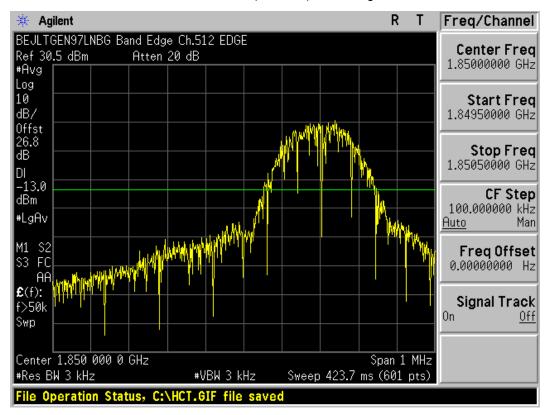
■ EDGE MODE (512 CH.) Block Edge 1



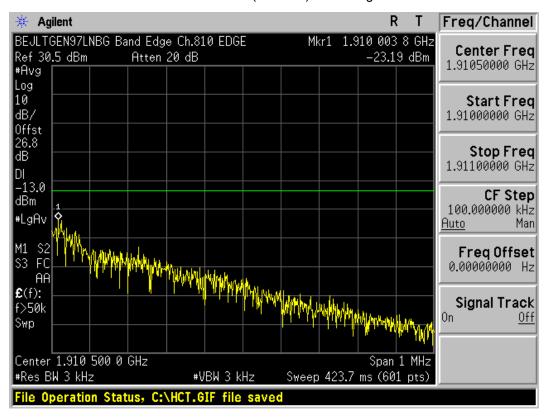
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ EDGE MODE (512 CH.) Block Edge 2



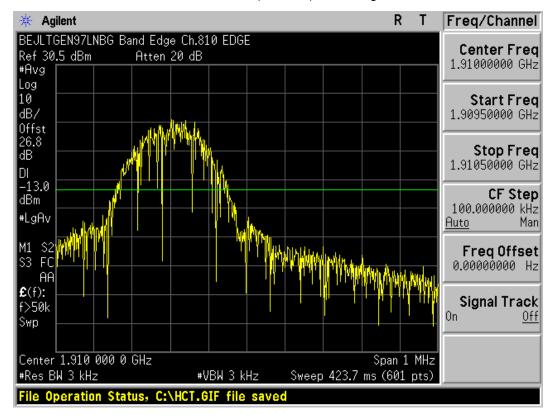
■ EDGE MODE (810 CH.) Block Edge 1



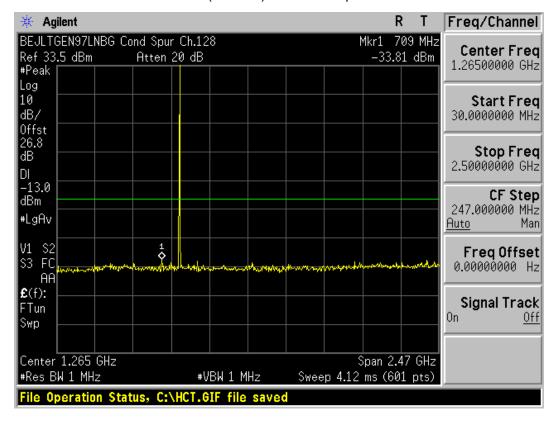
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ EDGE MODE (810 CH.) Block Edge 2



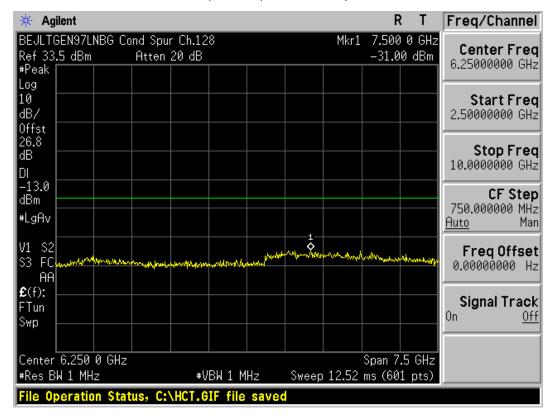
■ GSM850 MODE (128 CH.) Conducted Spurious Emissions1



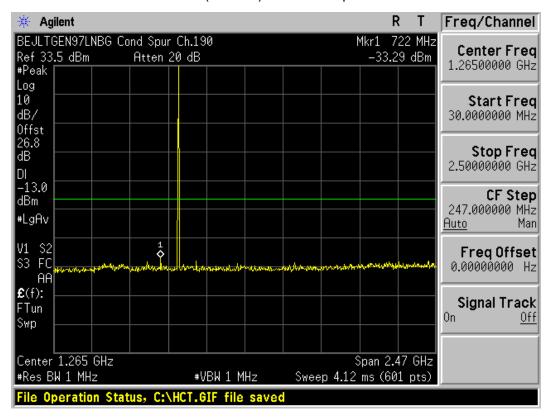
	FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM850 MODE (128 CH.) Conducted Spurious Emissions2



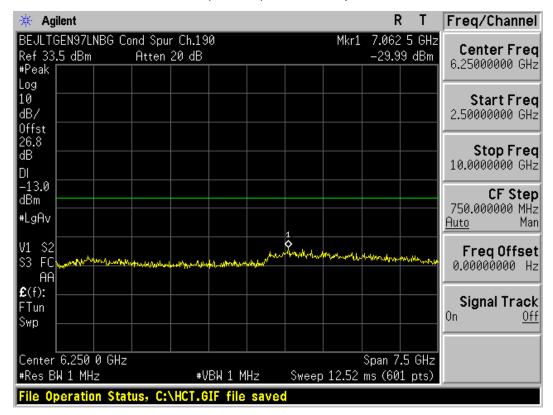
■ GSM850 MODE (190 CH.) Conducted Spurious Emissions1



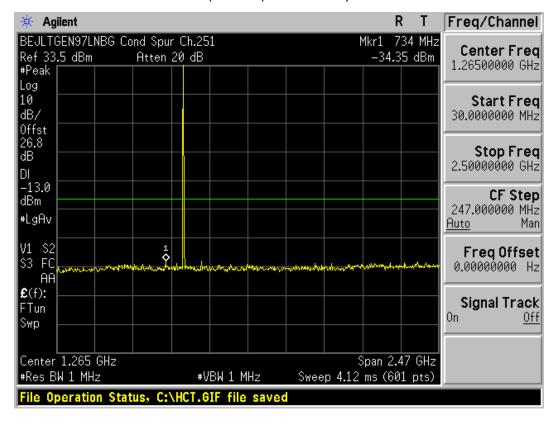
	FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM850 MODE (190 CH.) Conducted Spurious Emissions2



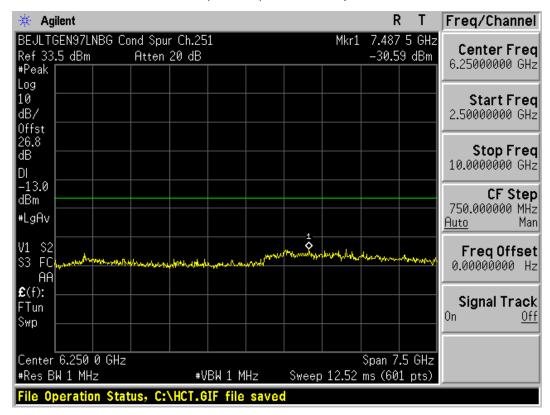
■ GSM850 MODE (251 CH.) Conducted Spurious Emissions1



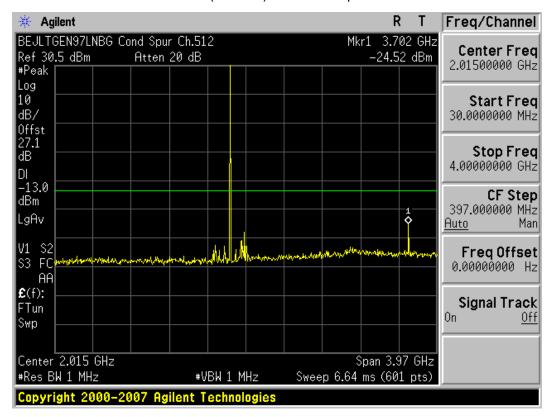
	FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM850 MODE (251 CH.) Conducted Spurious Emissions2



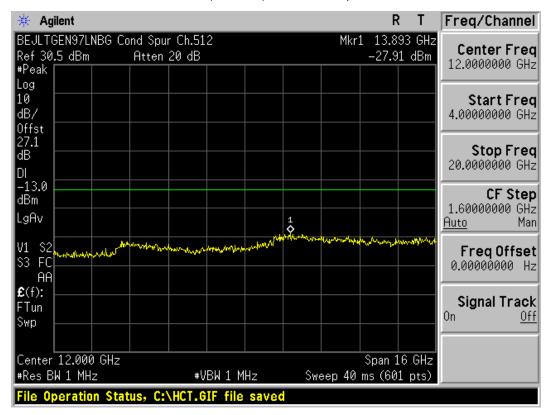
■ GSM1900 MODE (512 CH.) Conducted Spurious Emissions1



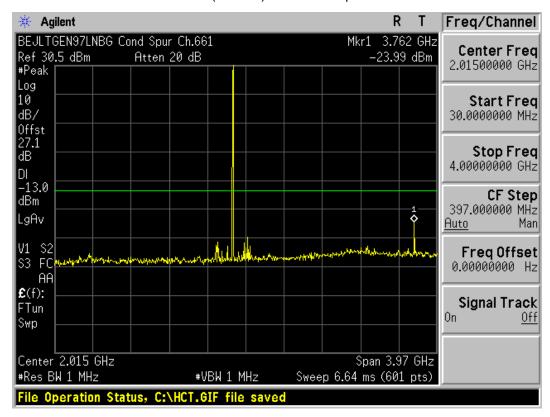
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM1900 MODE (512 CH.) Conducted Spurious Emissions2



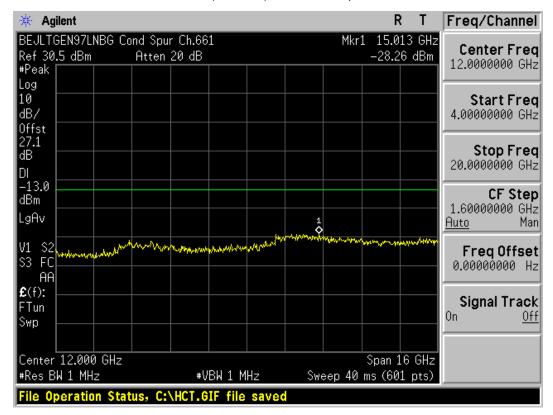
■ GSM1900 MODE (661 CH) Conducted Spurious Emissions1



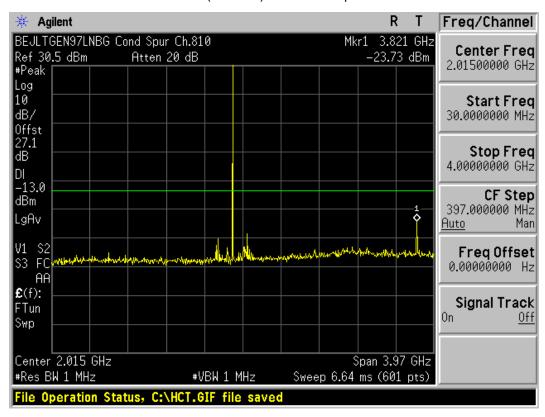
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellualr / PCS GSM / EDGE Transciever	FCC ID:
HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM1900 MODE (661 CH.) Conducted Spurious Emissions2



■ GSM1900 MODE (810 CH.) Conducted Spurious Emissions1



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HCTR1104FR17-2	May 12, 2011		BEJLTGEN97LNBG



■ GSM1900 MODE (810 CH.) Conducted Spurious Emissions2

