



HCT CO., LTD.

CERTIFICATE OF COMPLIANCE FCC Certification

Applicant Name:
SAMSUNG Electronics Co., Ltd.

Address:
129, Samsung-ro, Yeongtong-gu Suwon-si,
Gyeonggi-do, 443-742 Rep. of Korea

Date of Issue:

May 13, 2013

Test Site/Location:

HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon,
Icheon-si, Kyunggi-Do, Korea

Report No.: HCTR1305FR08

HCT FRN: 0005866421

FCC ID: A3LGTS6818

APPLICANT: SAMSUNG Electronics Co., Ltd.

FCC Model(s): GT-S6818

EUT Type: 1900 GSM/GPRS/EDGE Phone with Bluetooth v3.0, EDR and WLAN

FCC Classification: Licensed Portable Transmitter Held to Ear (PCE)

FCC Rule Part(s): §24, §2

Tx Frequency: 1 850.20 - 1 909.80 MHz (GSM1900)

Rx Frequency: 1 930.20 - 1 989.80 MHz (GSM1900)

Max. RF Output Power: 1.119 W EIRP GSM1900 (30.49 dBm) / 0.498 W GSM1900 EDGE (26.97 dBm)

Emission Designator(s): 248KGXW (GSM1900) / 240 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
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Test engineer of RF Team

Approved by
: Chang Seok Choi
Manager of RF Team

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FCC CERTIFICATION REPORT

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HCTR1305FR08

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCTR1305FR08	May 13, 2013	First Approval Report

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name: SAMSUNG Electronics Co., Ltd.

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Emission Designator(s): 248KGXW (GSM1900) / 240 KG7W (GSM1900 EDGE)

Date(s) of Tests: April 30, 2013 ~ May 06, 2013

Antenna Specification Manufacturer: SkyCross Korea
Antenna type: Internal antenna
Peak Gain: -0.18 dBi

2. INTRODUCTION

2.1. EUT DESCRIPTION

The SAMSUNG Electronics Co., Ltd. GT-S6818 1900 GSM/GPRS/EDGE Phone with Bluetooth v3.0, EDR and WLAN consists of GSM1900 GPRS Class12 and EDGE.

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 Fully-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)

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3. DESCRIPTION OF TESTS

3.1 ERP/EIRP RADIATED POWER AND RADIATED SPURIOUS EMISSIONS

Note: ERP(Effective Radiated Power), EIRP(Effective Isotropic Radiated Power)

Test Procedure

Radiated emission measurements are performed in the Fully-anechoic chamber. The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna in accordance with ANSI/TIA-603-C-2004 Clause 2.2.17. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission. The level and position of the maximized emission is recorded with the spectrum analyzer using a positive peak detector.

A half wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula;

$$P_{d(dBm)} = P_{g(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dB)}$$

Where: P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

The maximum EIRP is calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration

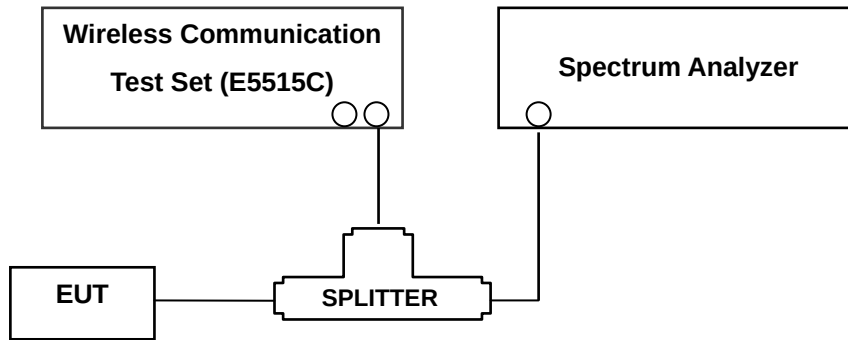
3.2 PEAK- TO- AVERAGE RATIO

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.

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3.3 OCCUPIED BANDWIDTH.

Test set-up



(Configuration of conducted Emission measurement)

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

Test Procedure

The EUT makes a call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels(low, middle and high operational range.)

The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

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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.

On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. The RBW settings used in the testing are greater than 1 % of the occupied bw. 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.

Measurements of all out of band are made on RBW = 1MHz and VBW $\geq$ 3 MHz in the worst case despite RBW = 100 kHz and VBW $\geq$ 300 kHz upon 1 GHz.

- RBW = 1 MHz
- VBW $\geq$ 3 MHz
- Detector = Peak
- Trace Mode = max hold
- Sweep time = auto
- Number of points in sweep $\geq 2 * \text{Span} / \text{RBW}$

- Band Edge Requirement : According to FCC 22.917 , 24.238(a) specified that power of any emission outside of The authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. 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 EUT makes a call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels(low and high operational frequency range.)

The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The center frequency of spectrum is the band edge frequency and span is 1MHz RB of the spectrum is 3KHz and VB of the spectrum is 3KHz (GSM)

The center frequency of spectrum is the band edge frequency and span is 5MHz RB of the spectrum is 100KHz and VB of the spectrum is 100KHz(WCDMA)

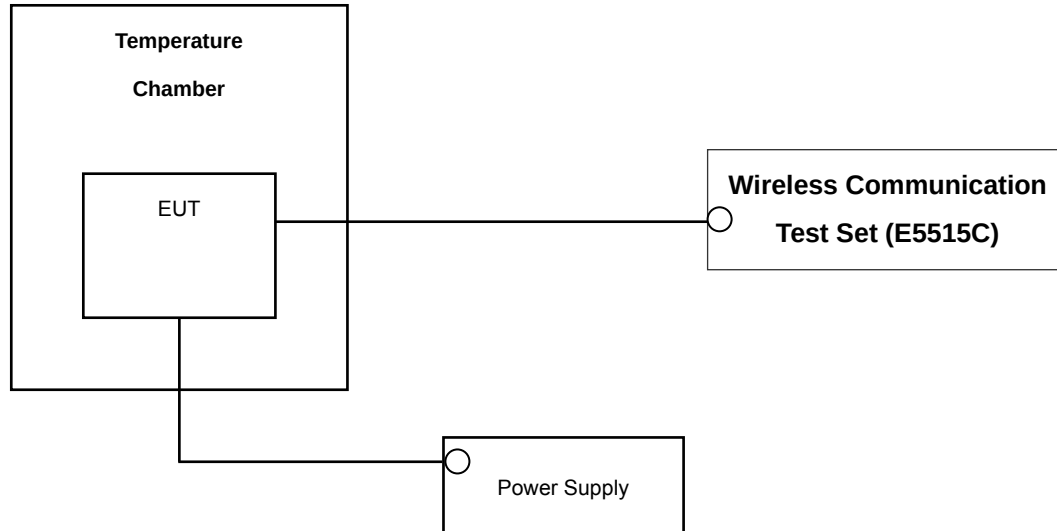
NOTES: The analyzer plot offsets were determined by below conditions.

- For GSM1900, total offset 29.3 dBm = 20 dBm attenuator + 6 dBm Divider + 3.3 dBm RF cables.

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3.5 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 $\pm 0.00025\%$ (± 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 half-hour is provided to allow stabilization of the equipment at each temperature level.

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

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4. LIST OF TEST EQUIPMENT

Manufacture	Model/ Equipment	Serial Number	Calibration Interval	Calibration Due
Agilent	E9327A/ Power Sensor	MY4442009	Annual	04/16/2014
MITEQ	AMF-6D-001180-35-20P/AMP	1081666	Annual	09/11/2013
Wainwright	WHK1.2/15G-10EF/H.P.F	2	Annual	04/25/2014
Wainwright	WHK3.3/18G-10EF/H.P.F	1	Annual	04/25/2014
Hewlett Packard	11667B / Power Splitter	10126	Annual	11/07/2013
Digital	EP-3010/ Power Supply	3110117	Annual	11/07/2013
Korea Engineering	KR-1005L / Chamber	KRAB05063-3CH	Annual	11/07/2013
Schwarzbeck	BBHA 9120D/ Horn Antenna	296	Biennial	02/20/2014
Schwarzbeck	BBHA 9120D/ Horn Antenna	937	Biennial	10/17/2013
Agilent	E4440A/Spectrum Analyzer	US45303008	Annual	04/25/2014
WEINSCHL	ATTENUATOR	BR0592	Annual	11/07/2013
REOHDE&SCHWARZ	FSV40/Spectrum Analyzer	1307.9002K40-100931-NK	Annual	06/11/2013
Agilent	8960 (E5515C)/ Base Station	GB44400269	Annual	02/14/2014

5. SUMMARY OF TEST RESULTS

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

*: See RF Exposure Report

6. SAMPLE CALCULATION

A. EIRP Sample Calculation

Ch./ Freq.		Measured Level(dBm)	Substitute Level(dBm)	Ant. Gain (dBi)	C.L	Pol.	ERP		ERP Limit (dBm)	Margin (dB)
Channel	Freq.(MHz)						W	dBm		
512	1,850.20	-10.69	21.34	10.02	1.41	V	0.989	29.95	33.01	-3.06

EIRP = SubstituteLEVEL(dBm) + Ant. Gain – CL(Cable Loss)

- 1) The EUT mounted on a non-conductive turntable 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)

7. TEST DATA

7.1 EQUIVALENT ISOTROPIC RADIATED POWER (GSM)

(GSM1900 Mode)

Ch./ Freq.		Measured Level(dBm)	Substitute Level(dBm)	Ant. Gain (dBi)	C.L	Pol.	ERP		ERP Limit (dBm)	Margin (dB)
Channel	Freq.(MHz)						W	dBm		
512	1,850.20	-10.15	21.88	10.02	1.41	V	1.119	30.49	33.01	-2.52
661	1,880.00	-10.63	21.68	10.04	1.45	H	1.064	30.27	33.01	-2.74
810	1,909.80	-11.35	20.90	10.05	1.44	H	0.893	29.51	33.01	-3.50
EDGE 512	1,850.20	-13.67	18.36	10.02	1.41	V	0.498	26.97	33.01	-6.04

Note: Standard batteries are the only options for this phone. And a peak detector is used.

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

This device was tested under all configurations and the highest power is reported in GSM mode and using a Power Control Level of "0" in the PCS Band and "5" in the Cellular Band. This unit was tested with its standard battery. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. The worst case of the EUT is in x plane in GSM1900 (y plane ch 512) mode. Also worst case of detecting Antenna is in horizontal polarization in GSM1900 (vertical polarization) mode.

The EDGE mode testing were performed using 1Tx because 1Tx is highest power in EDGE mode.

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7.2 RADIATED SPURIOUS EMISSIONS

7.2.1 RADIATED SPURIOUS EMISSIONS (GSM1900)

☐ MEASURED OUTPUT POWER: 30.49 dBm = 1.119 W
☐ MODULATION SIGNAL: GSM1900
☐ DISTANCE: 3 meters
☐ LIMIT: $43 + 10 \log_{10}(W) =$ 43.49 dBc

Ch.	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	EIRP (dBm)	dBc
512 (1850.2)	3,700.40	-51.15	12.27	-55.89	2.19	V	-45.81	76.30
	5,550.60	-45.79	13.40	-45.46	2.88	H	-34.94	65.43
	7,400.80	-58.58	11.37	-48.29	3.29	H	-40.21	70.70
661 (1880.0)	3,760.00	-53.99	12.31	-58.54	2.11	V	-48.34	78.83
	5,640.00	-48.40	13.41	-47.73	2.92	H	-37.24	67.73
	7,520.00	-58.03	11.55	-48.51	3.34	H	-40.30	70.79
810 (1909.8)	3,819.60	-54.15	12.37	-58.63	2.14	V	-48.40	78.89
	5,729.40	-50.91	13.42	-49.47	3.02	H	-39.07	69.56
	7,639.20	-58.61	11.70	-48.85	3.13	H	-40.28	70.77

- 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.

7.3 PEAK-TO-AVERAGE RATIO

- Plots of the EUT's Peak- to- Average Ratio are shown Page 20.

7.4 OCCUPIED BANDWIDTH

Band	Channel	Frequency(MHz)	Data (GSM: kHz)
GSM1900	512	1850.20	246.3438
	661	1880.00	248.0139
	810	1909.80	242.4185
GSM1900 EDGE	810	1880.00	240.2751

- Plots of the EUT's Occupied Bandwidth are shown Page 18 ~ 19.

7.5 CONDUCTED SPURIOUS EMISSIONS

Band	Channel	Frequency of Maximum Harmonic (GHz)	Maximum Data (dBm)
GSM1900	512	6.977580	-23.46
	661	10.306970	-24.01
	810	10.298740	-23.99

- Plots of the EUT's Conducted Spurious Emissions are shown Page 25 ~ 27.

7.5.1 BAND EDGE

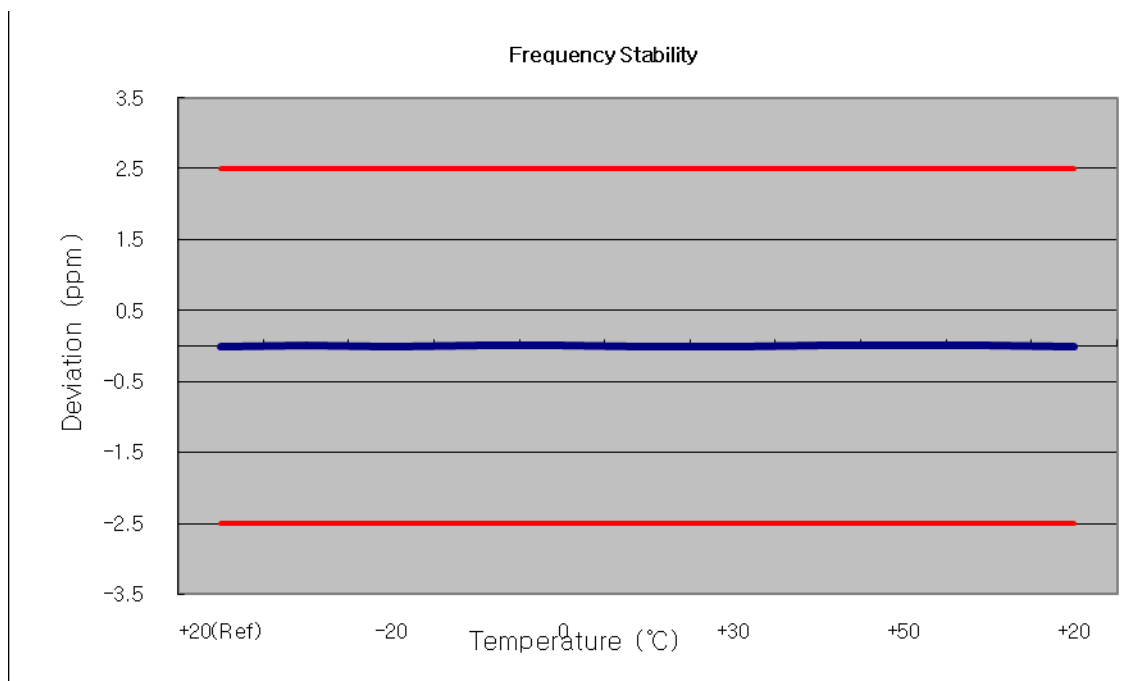
- Plots of the EUT's Band Edge are shown Page 21 ~ 24.

7.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

7.6.1 FREQUENCY STABILITY (GSM1900)

☐ OPERATING FREQUENCY: 1880,000,000 Hz
☐ CHANNEL: 661
☐ REFERENCE VOLTAGE: 3.7 VDC
☐ DEVIATION LIM IT: ± 0.000 25 % or 2.5 ppm

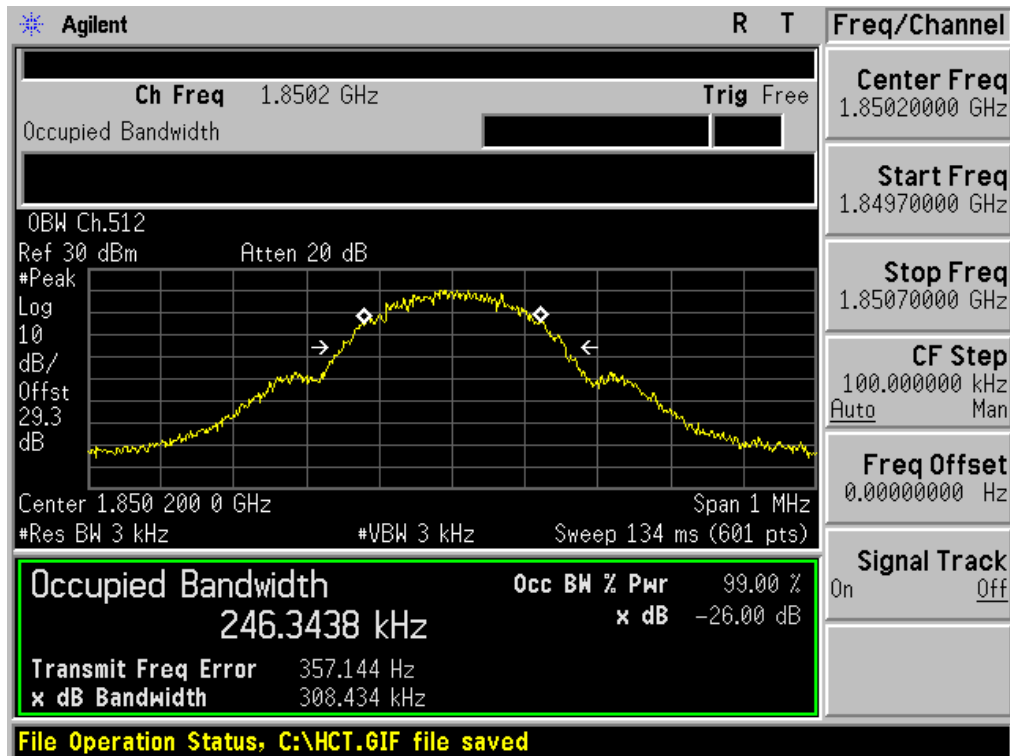
Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.700	+20(Ref)	1879 999 991	0	0.000 000	0.000
100%		-30	1880 000 003	11.32	0.000 001	0.006
100%		-20	1879 999 980	-11.00	-0.000 001	-0.006
100%		-10	1880 000 004	12.42	0.000 001	0.007
100%		0	1879 999 997	5.29	0.000 000	0.003
100%		+10	1879 999 980	-11.54	-0.000 001	-0.006
100%		+30	1879 999 981	-10.50	-0.000 001	-0.006
100%		+40	1879 999 998	6.24	0.000 000	0.003
100%		+50	1880 000 001	9.94	0.000 001	0.005
115%	4.255	+20	1879 999 997	5.85	0.000 000	0.003
Batt. Endpoint	3.400	+20	1879 999 984	-7.54	0.000 000	-0.004



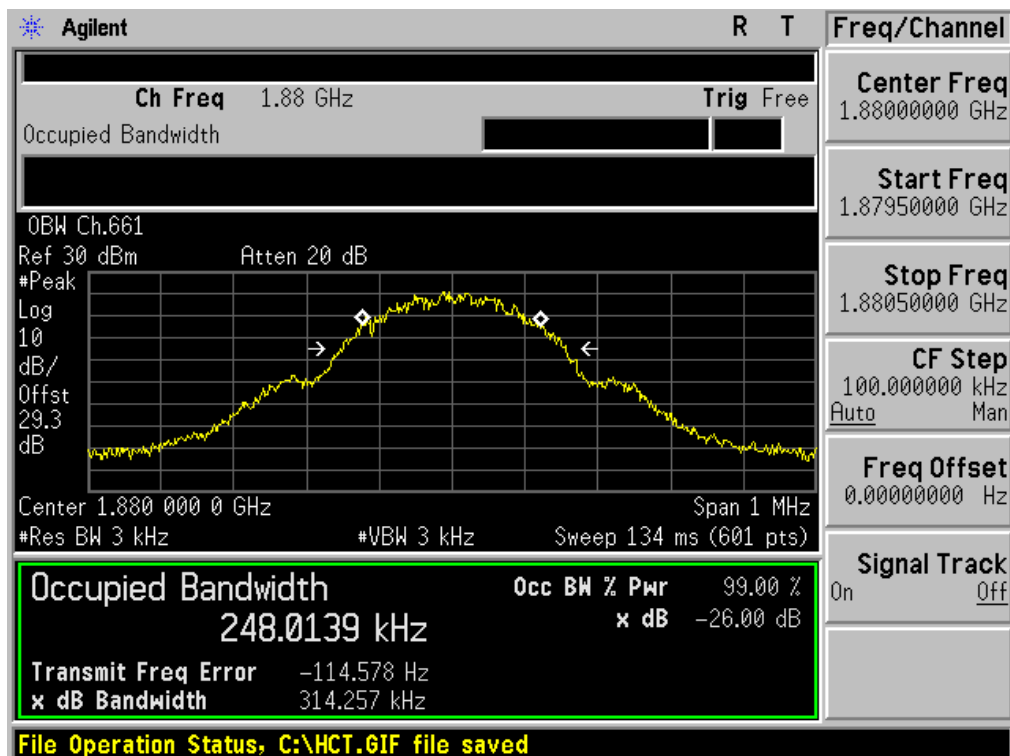
8. TEST PLOTS

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■ GSM1900 MODE (512 CH.) Occupied Bandwidth



■ GSM1900 MODE (661 CH.) Occupied Bandwidth



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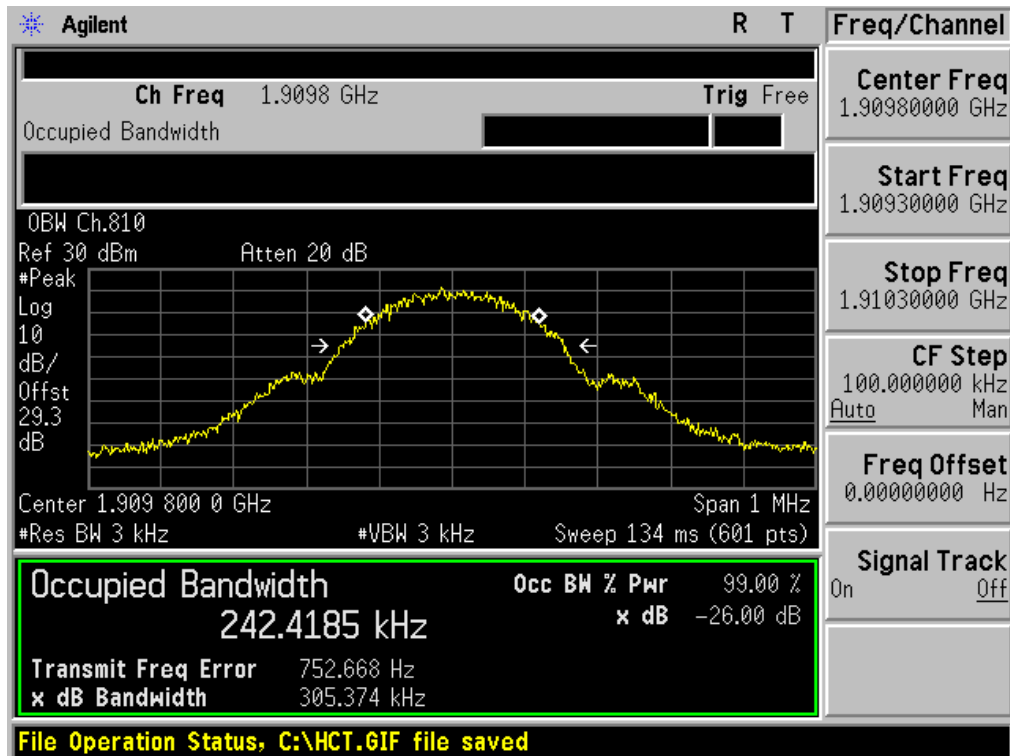
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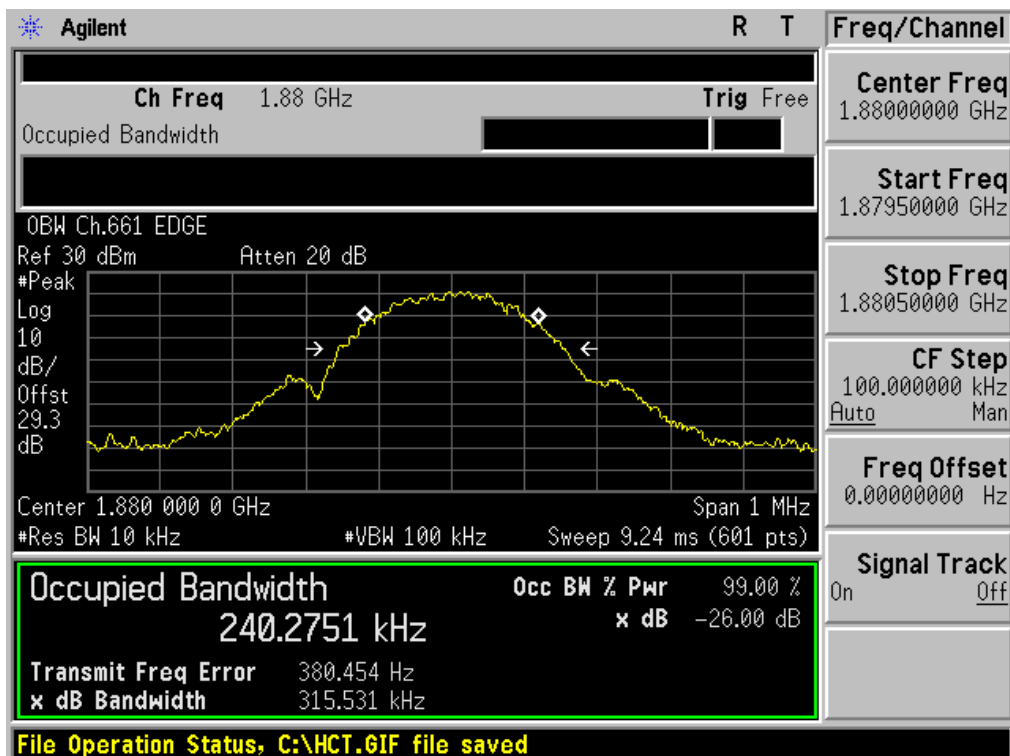
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■ GSM1900 MODE (810 CH.) Occupied Bandwidth



■ GSM1900 EDGE (661 CH.) Occupied Bandwidth



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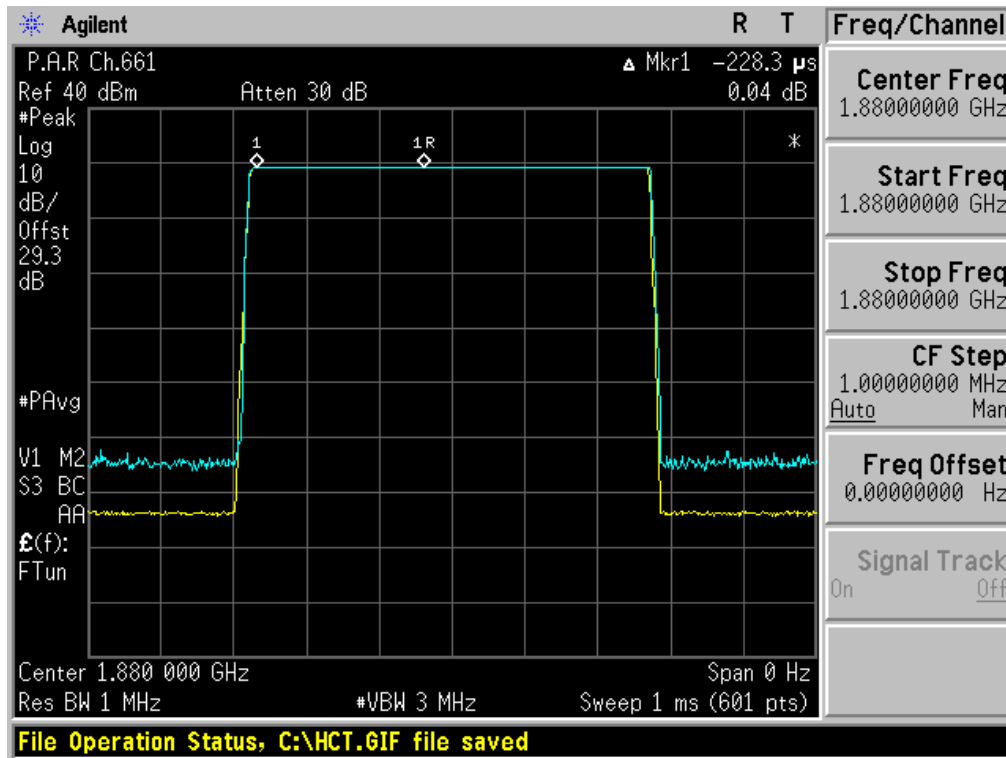
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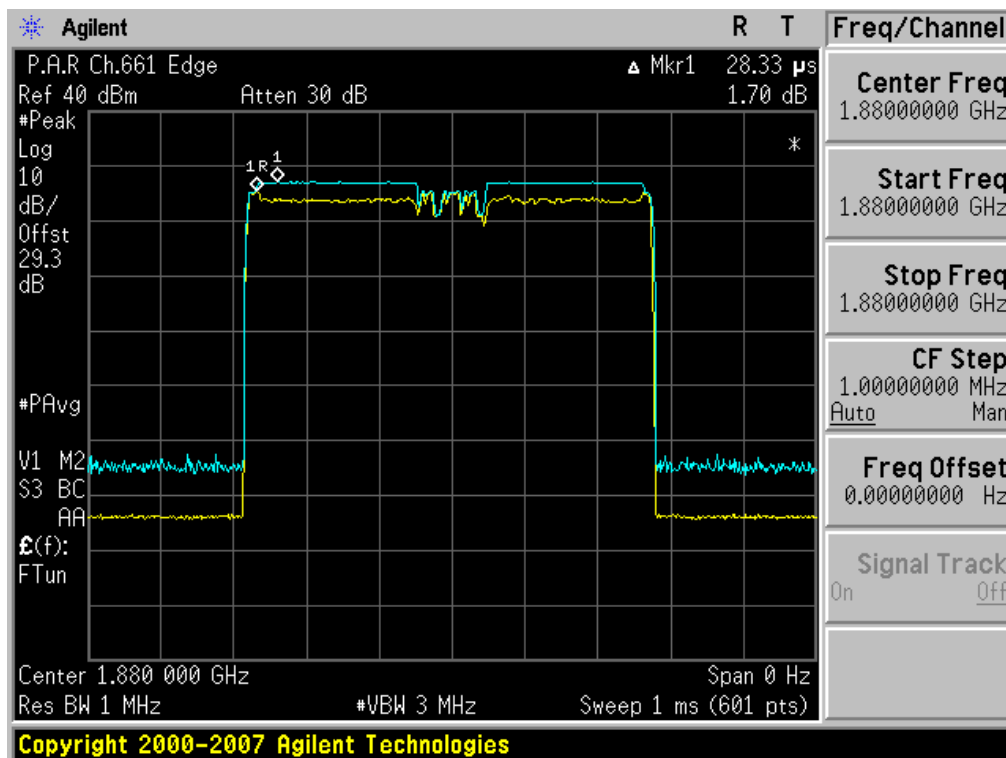
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■ GSM1900 MODE (661 CH.) Peak-to-Average Ratio



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



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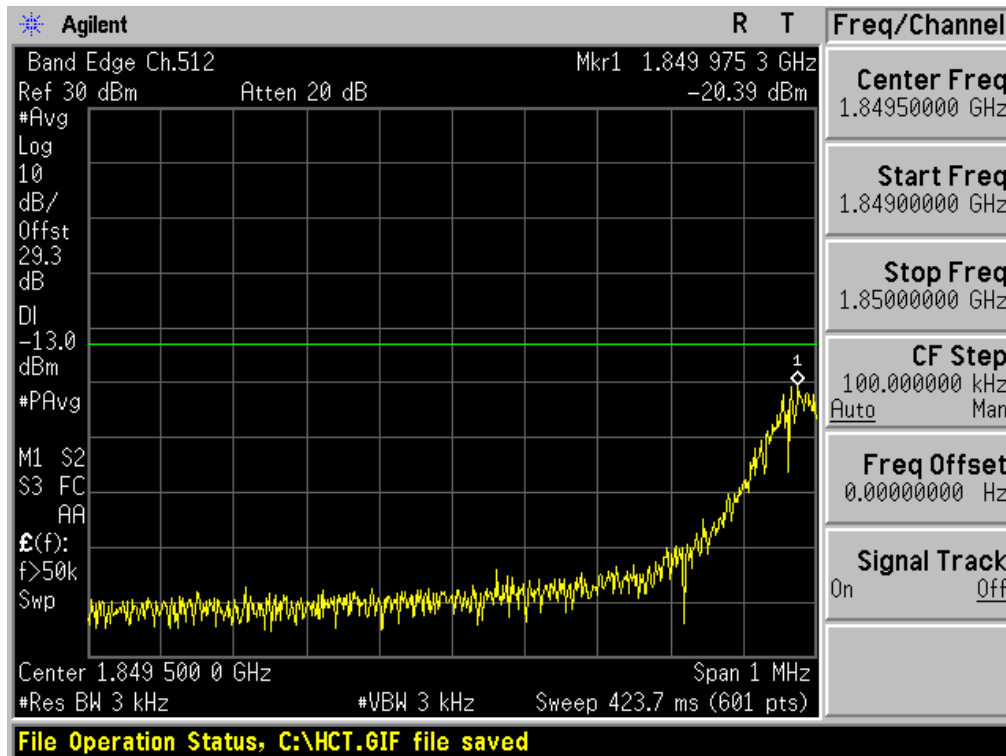
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May 13, 2013

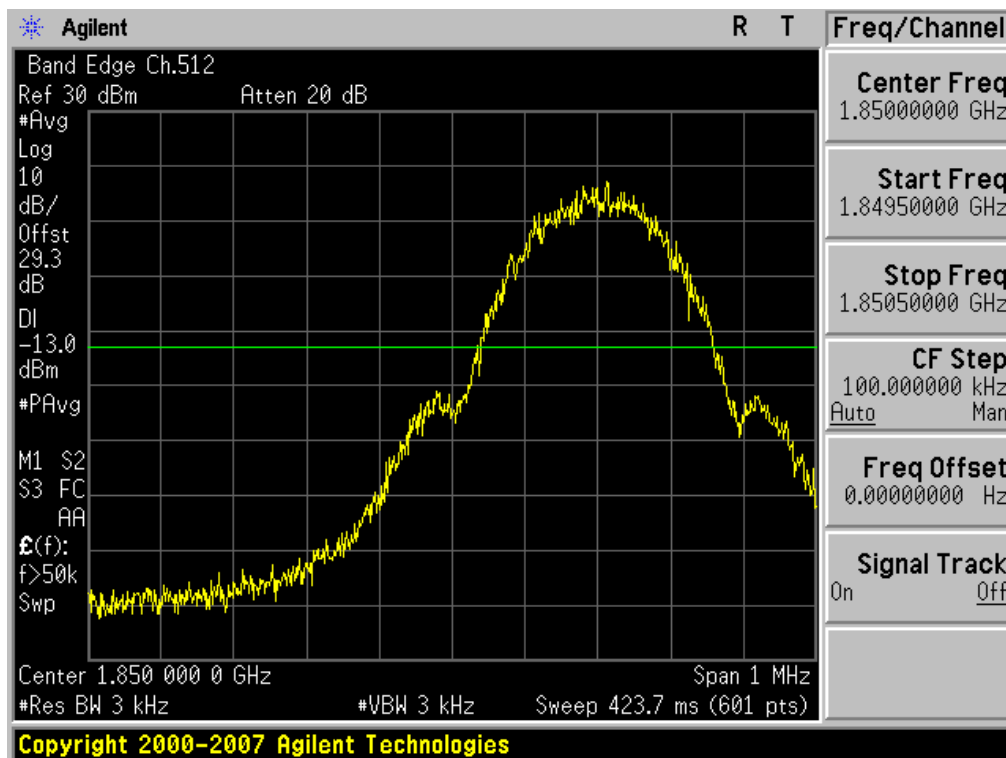
EUT Type:
1900 GSM/GPRS/EDGE Phone with Bluetooth v3.0, EDR and WLAN

FCC ID:
A3LGTS6818

■ GSM1900 MODE (512 CH.) Block Edge 1



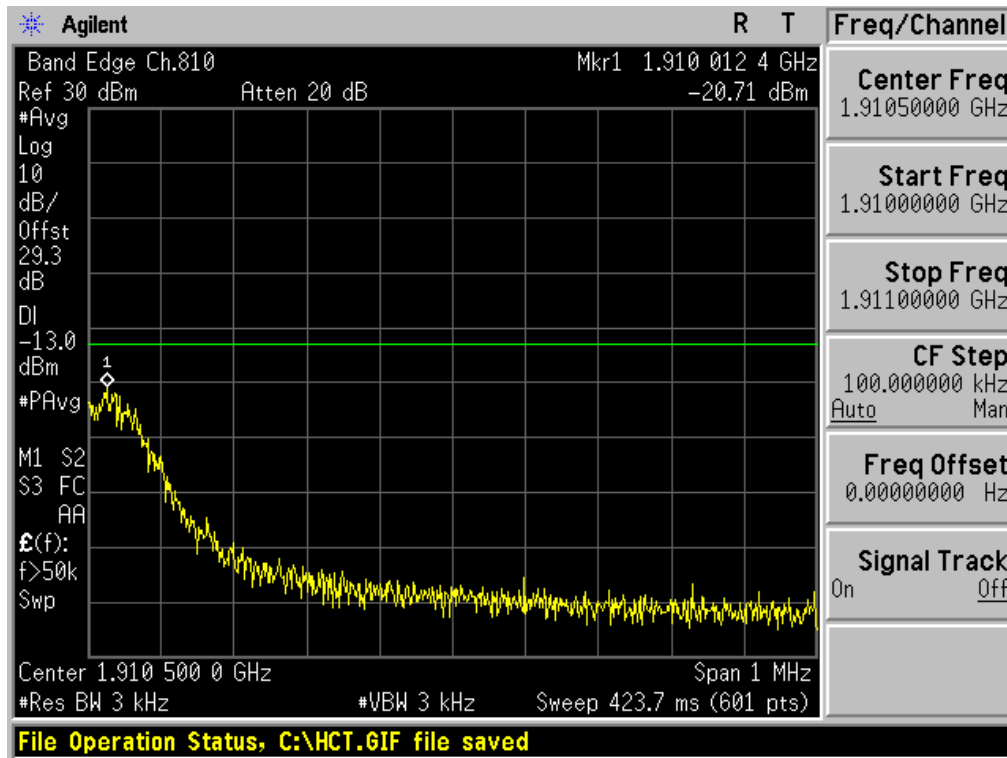
■ GSM1900 MODE (512 CH.) Block Edge 2



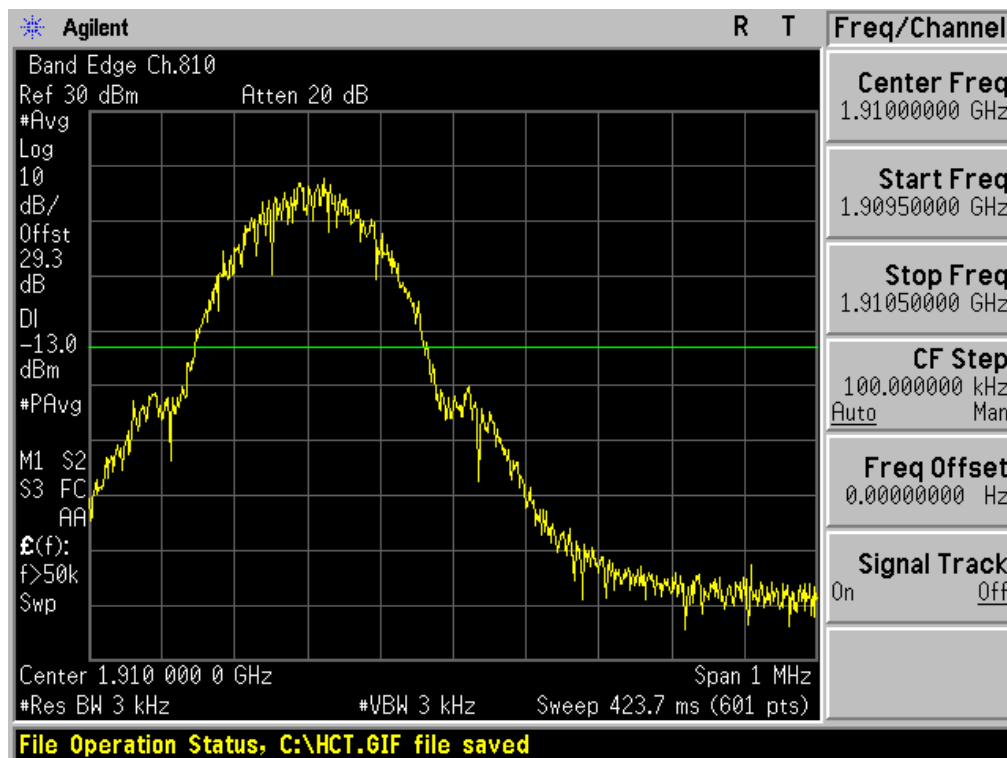
FCC CERTIFICATION REPORT

Test Report No. HCTR1305FR08	Date of Issue: May 13, 2013	EUT Type: 1900 GSM/GPRS/EDGE Phone with Bluetooth v3.0, EDR and WLAN	www.hct.co.kr FCC ID: A3LGTS6818
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■ GSM1900 MODE (810 CH.) Block Edge 1



■ GSM1900 MODE (810 CH.) Block Edge 2



FCC CERTIFICATION REPORT

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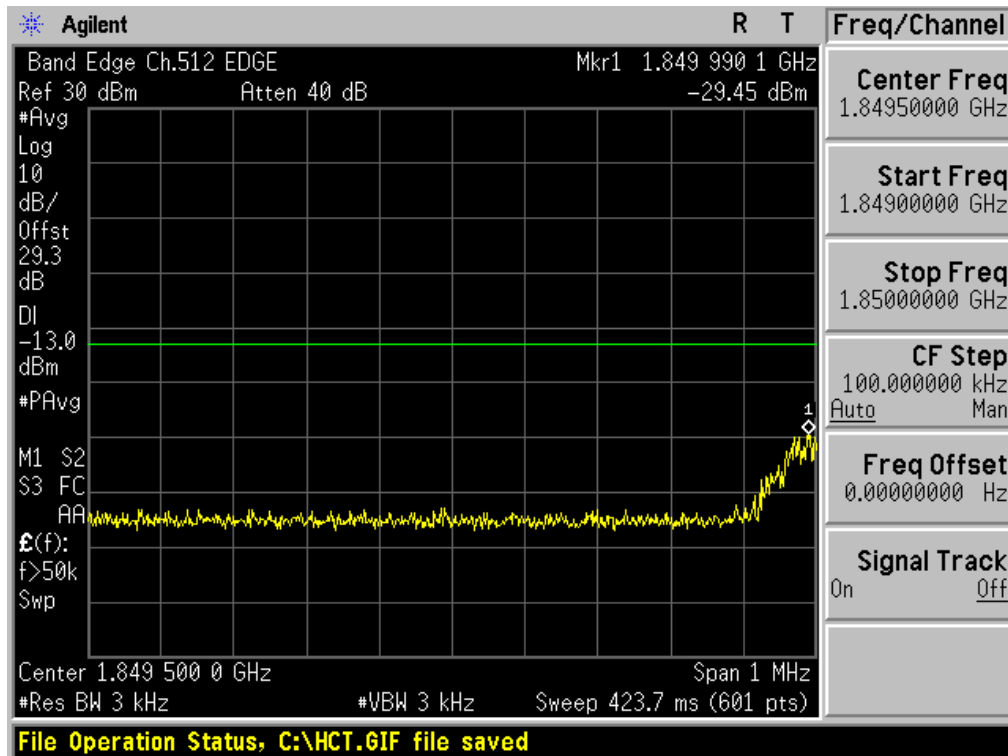
Test Report No.
HCTR1305FR08

Date of Issue:
May 13, 2013

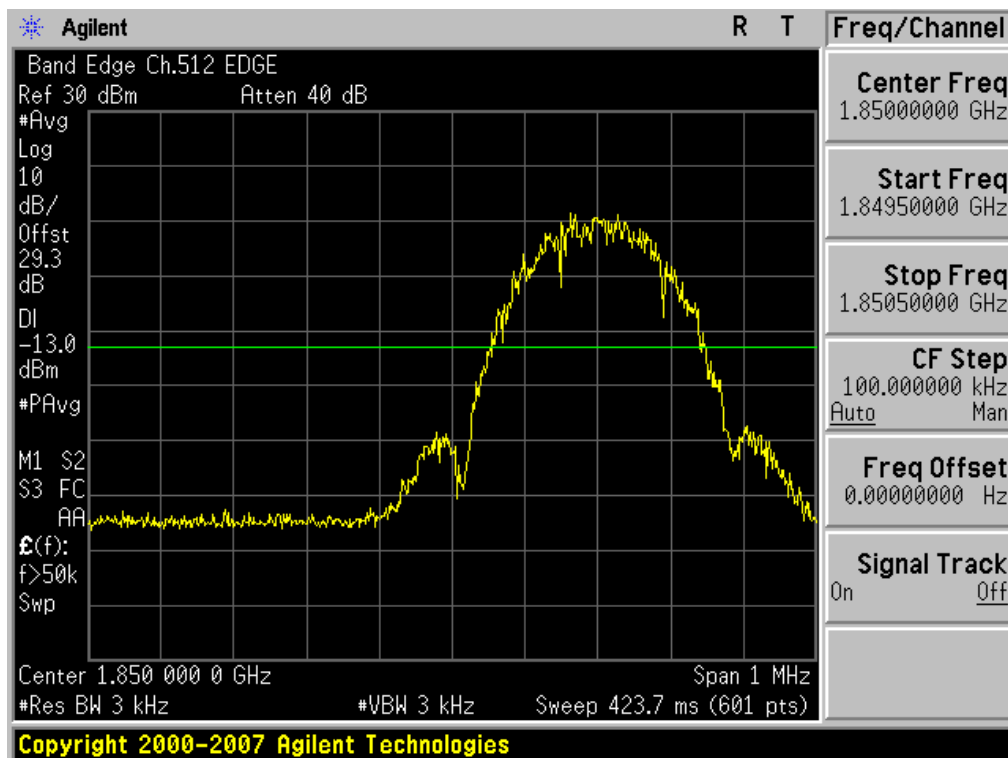
EUT Type:
1900 GSM/GPRS/EDGE Phone with Bluetooth v3.0, EDR and WLAN

FCC ID:
A3LGTS6818

■ EDGE MODE (512 CH.) Block Edge 1



■ EDGE MODE (512 CH.) Block Edge 2



FCC CERTIFICATION REPORT

Test Report No.
HCTR1305FR08

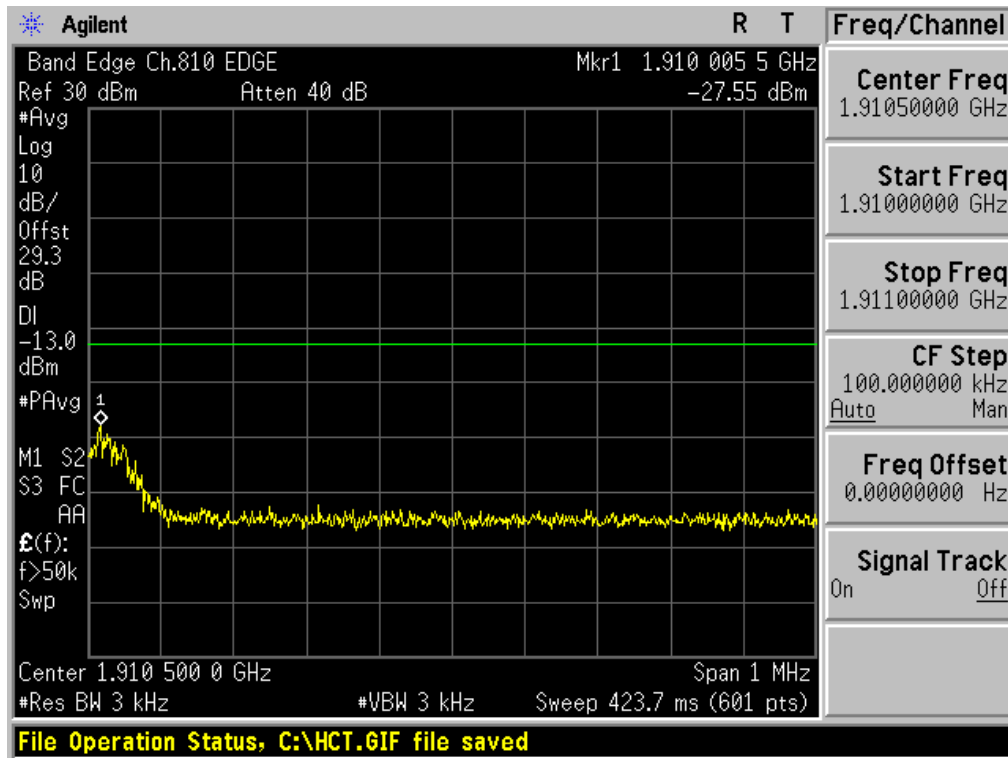
Date of Issue:
May 13, 2013

EUT Type:
1900 GSM/GPRS/EDGE Phone with Bluetooth v3.0, EDR and WLAN

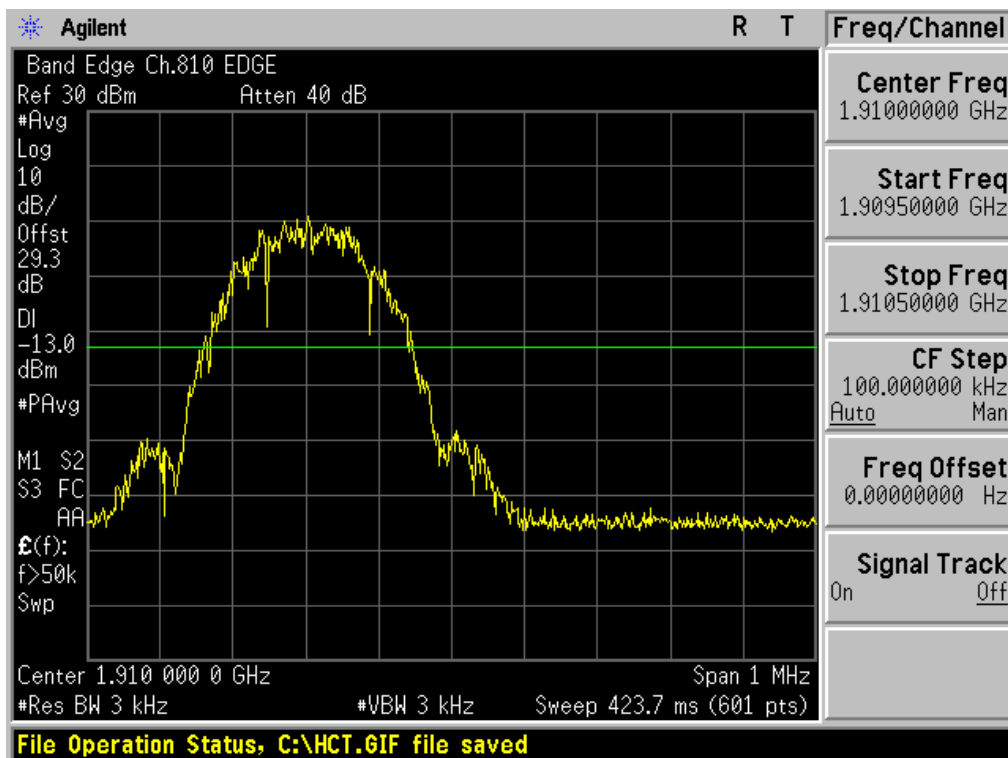
www.hct.co.kr

FCC ID:
A3LGTS6818

■ EDGE MODE (810 CH.) Block Edge 1



■ EDGE MODE (810 CH.) Block Edge 2



FCC CERTIFICATION REPORT

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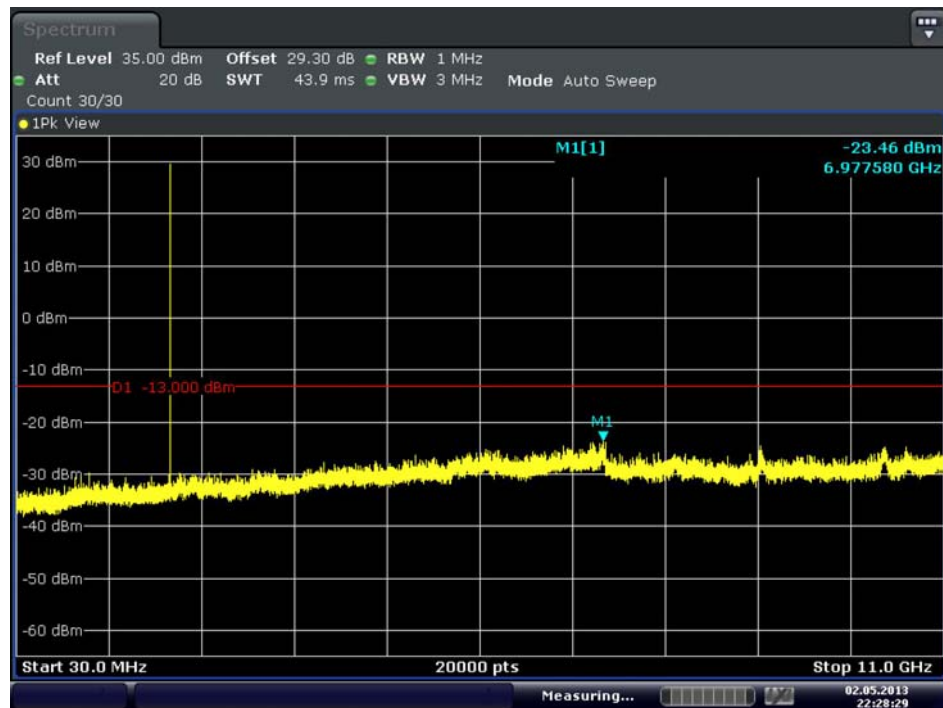
Test Report No.
HCTR1305FR08

Date of Issue:
May 13, 2013

EUT Type:
1900 GSM/GPRS/EDGE Phone with Bluetooth v3.0, EDR and WLAN

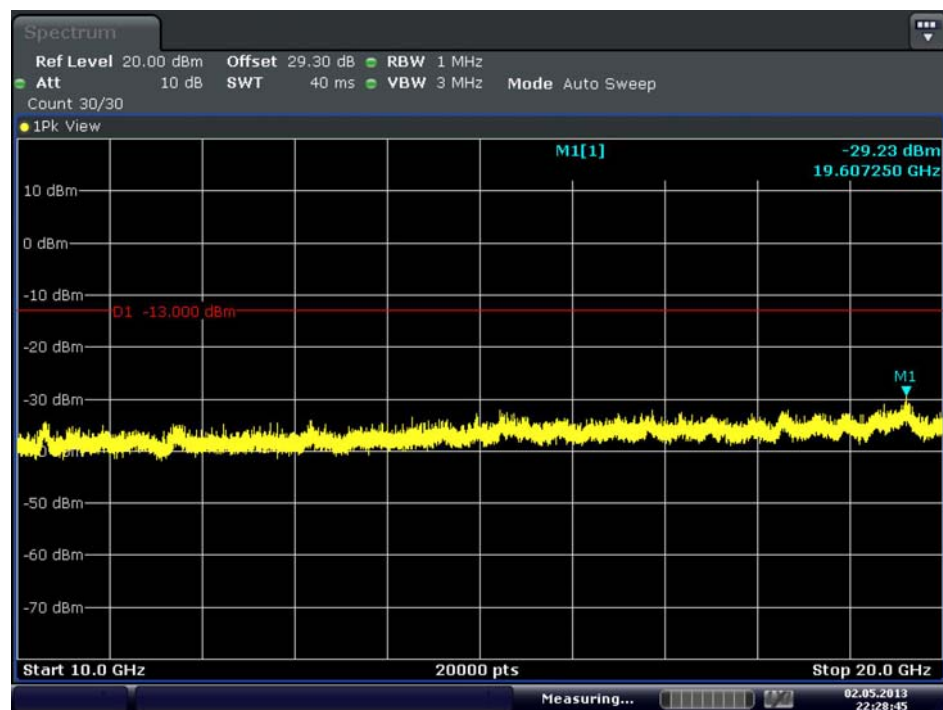
FCC ID:
A3LGTS6818

■ GSM1900 MODE (512 CH.) Conducted Spurious Emissions1



Date: 2.MAY.2013 22:28:30

■ GSM1900 MODE (512 CH.) Conducted Spurious Emissions2



Date: 2.MAY.2013 22:28:45

FCC CERTIFICATION REPORT

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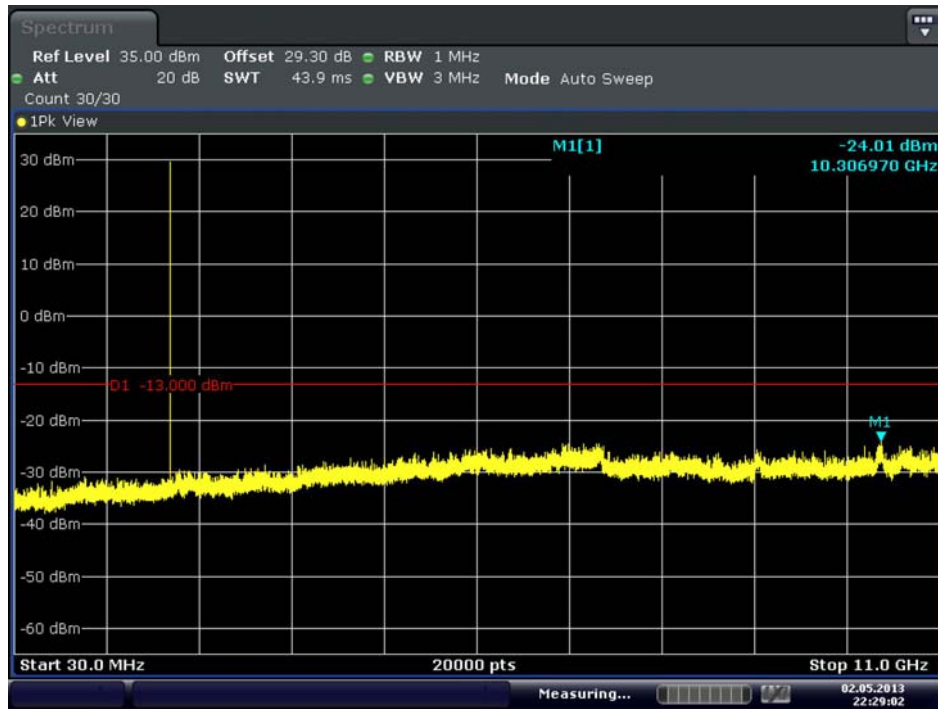
Test Report No.
HCTR1305FR08

Date of Issue:
May 13, 2013

EUT Type:
1900 GSM/GPRS/EDGE Phone with Bluetooth v3.0, EDR and WLAN

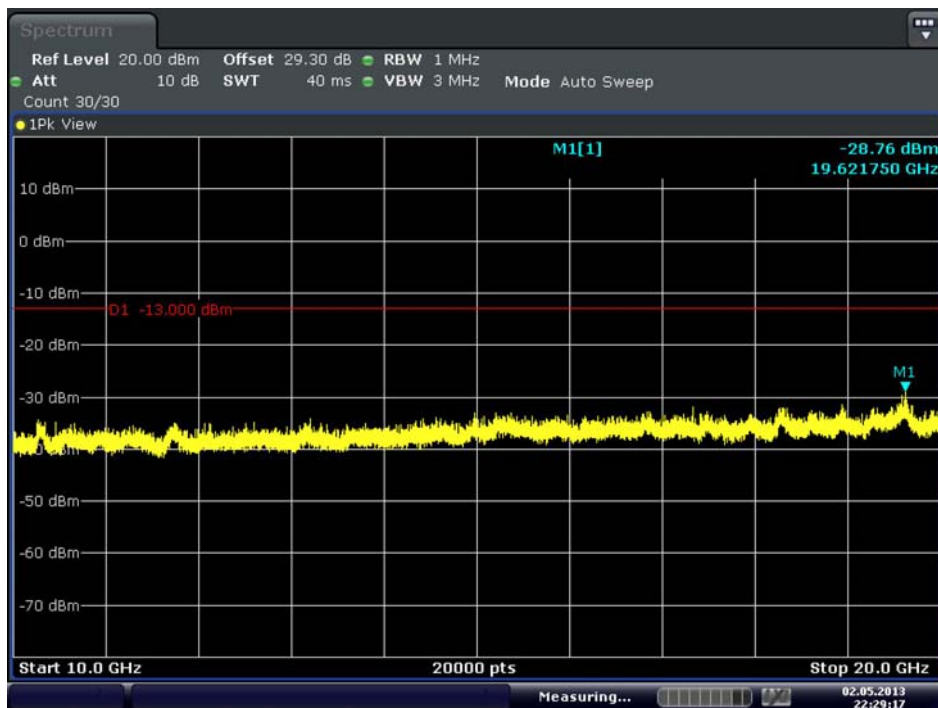
FCC ID:
A3LGTS6818

■ GSM1900 MODE (661 CH) Conducted Spurious Emissions1



Date: 2.MAY.2013 22:29:02

■ GSM1900 MODE (661 CH.) Conducted Spurious Emissions2



Date: 2.MAY.2013 22:29:17

FCC CERTIFICATION REPORT

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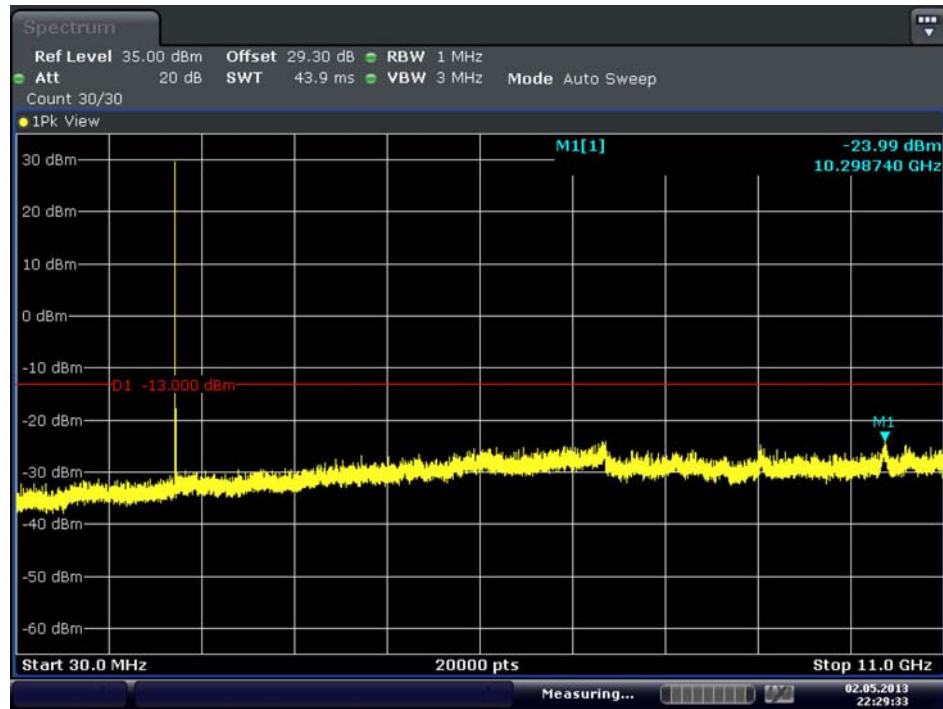
Test Report No.
HCTR1305FR08

Date of Issue:
May 13, 2013

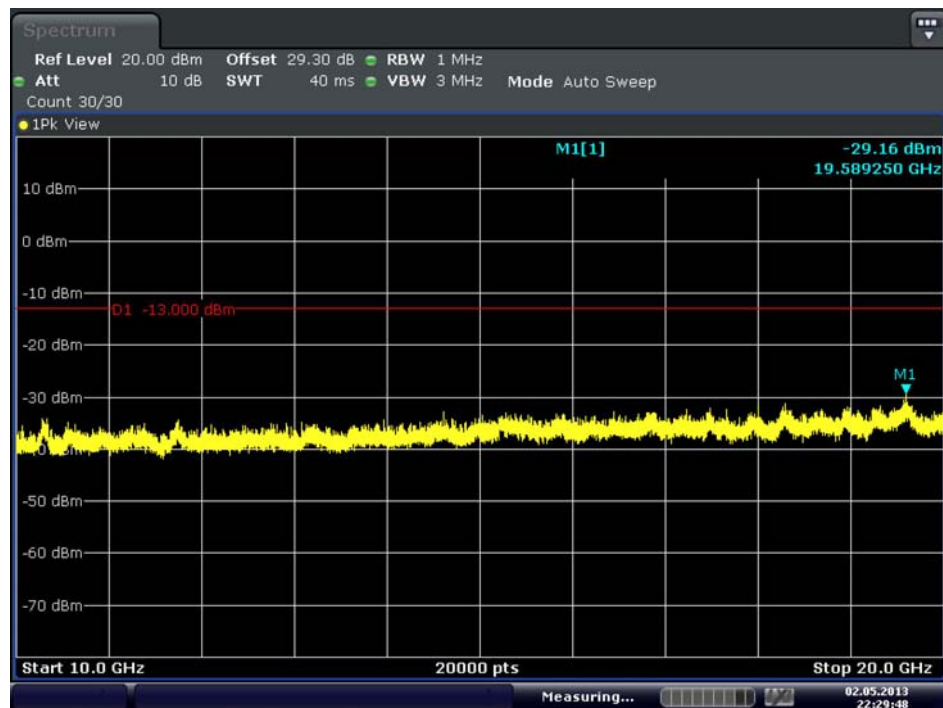
EUT Type:
1900 GSM/GPRS/EDGE Phone with Bluetooth v3.0, EDR and WLAN

FCC ID:
A3LGTS6818

■ GSM1900 MODE (810 CH.) Conducted Spurious Emissions1



■ GSM1900 MODE (810 CH.) Conducted Spurious Emissions2



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Test Report No.
HCTR1305FR08

Date of Issue:
May 13, 2013

EUT Type:
1900 GSM/GPRS/EDGE Phone with Bluetooth v3.0, EDR and WLAN

FCC ID:
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