



PCTEST ENGINEERING LABORATORY, INC.

6660-B Dobbin Road, Columbia, MD 21045 USA
Tel. 410.290.6652 / Fax 410.290.6654
<http://www.pctestlab.com>



MEASUREMENT REPORT FCC Part 15B

Applicant Name:
Samsung Electronics, Co. Ltd.
18600 Broadwick St.
Rancho Dominguez, CA 90220
United States

Date of Testing:
November 30, 2010
Test Site/Location:
PCTEST Lab, Columbia, MD, USA
Test Report Serial No.:
0Y1011261917.A3L

| | |
|-------------------|--------------------------------------|
| FCC ID: | A3LGTS7230L |
| APPLICANT: | Samsung Electronics, Co. Ltd. |

Application Type: Certification

EUT Type: 850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, EDGE Rx, and WLAN

Model(s): GT-S7230L

FCC Rule Part(s): FCC Part 15 Subpart B


FCC Classification: FCC Class B Digital Device (JBP)

Test Procedure: ANSI C63.4-2003

The device bearing the FCC Identifier specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and has been tested in accordance with the measurement procedures specified in ANSI C63.4-2003 (See Test Report). The results shown herein are also deemed satisfactory evidence of compliance with Industry Canada Interference-Causing Equipment Standard ICES-003. These measurements were performed with no deviation from the standards. Test results reported herein relate only to the item(s) tested.

I authorize and 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.

NVLAP accreditation does not constitute any product endorsement by NVLAP or any agency of the United States Government. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. PCTEST certifies that no party to this application has been subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.


Randy Ortanez
President







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|---|---|---|---|--|
| FCC ID: A3LGTS7230L |  | FCC Pt. 15B MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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MEASUREMENT REPORT

FCC Part 15B – Unintentional Radiators



§ 2.1033 General Information

APPLICANT: Samsung Electronics, Co. Ltd.
APPLICANT ADDRESS: 18600 Broadwick St.
 Rancho Dominguez, CA 90220
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S): FCC Part 15 Subpart B
FCC ID: A3LGTS7230L
Test Device Serial No.: FH-254-A Production Pre-Production Engineering
FCC CLASSIFICATION: FCC Class B Digital Device (JBP)
DATE(S) OF TEST: November 30, 2010



Test Methodology

Both conducted and radiated measurements were taken using the methods and procedures described in ANSI C63.4-2003. Radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility / NVLAP Accreditation

Conducted and radiated tests were performed at PCTEST Engineering Lab 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 (2451A-1).
- PCTEST Lab is accredited by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) in EMC, Telecommunication, and FCC for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. (NVLAP Lab code: 100431-0).
- 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 (2451A-1) test laboratory with the site description on file at Industry Canada.

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1.0 INTRODUCTION

1.1 Scope

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

1.2 PCTEST Test Location

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity area, the Baltimore-Washington Internt'l (BWI) airport, the city of Baltimore and the Washington, DC area. (see Figure 1-1).

These measurement tests were conducted at the 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 28, 2009.

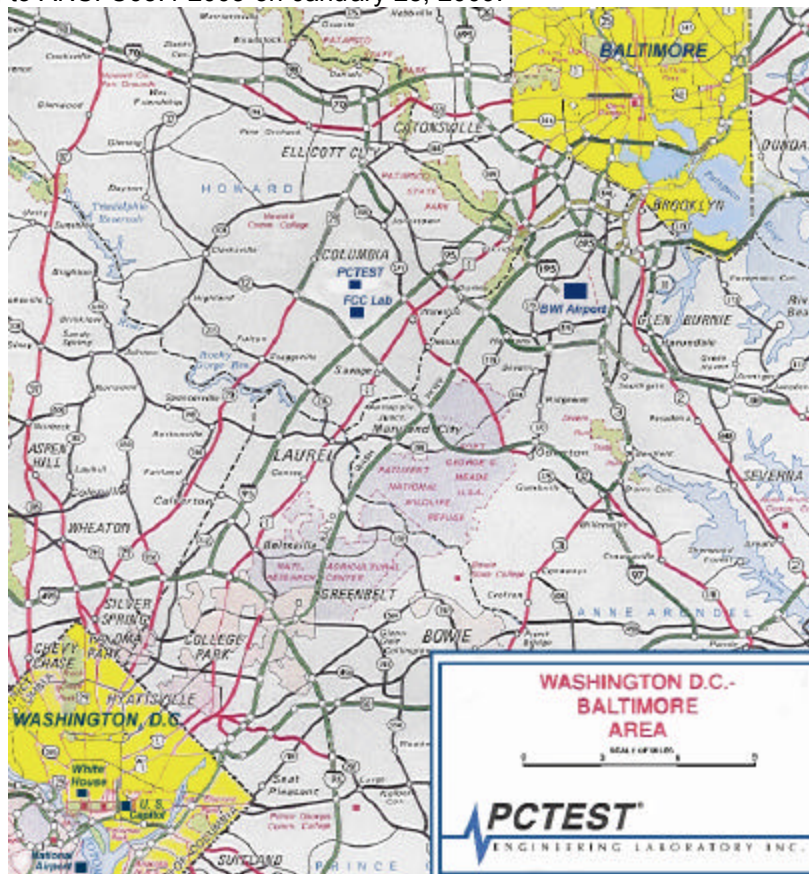


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

| | | | | |
|--------------------------------------|----------------------------------|--|--|---------------------------------|
| FCC ID: A3LGT57230L | | FCC Pt. 15B MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung 850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, EDGE Rx, and WLAN FCC ID: A3LGTS7230L**. The test data contained in this report pertains only to the emissions due to the digital circuitry of the EUT.

| Manufacturer / Base Model | FCC ID | Description |
|----------------------------|-------------|---|
| Samsung / Model: GT-S7230L | A3LGTS7230L | 850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, EDGE Rx, and WLAN |

Table 2-1. EUT Equipment Description

2.2 Operation Mode

The Samsung 850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, EDGE Rx, and WLAN FCC ID: A3LGTS7230L was tested with a NOTEBOOK connected via USB interface port. The EUT was exercised during testing by means of software installed on the notebook. For more information please see Section 7.0 for test data and Sections 9.0 and 10.0 for the test setup photographs.

2.3 EMI Suppression Device(s)/Modifications



No EMI suppression device(s) were added and no modifications were made during testing.

2.4 Labeling Requirements

Per 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(b)(2).

Please see attachment for FCC ID label and label location.

| | | | | |
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3.0 DESCRIPTION OF TEST

3.1 Evaluation Procedure

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2003) was used in the measurement of the **Samsung 850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, EDGE Rx, and WLAN FCC ID: A3LGTS7230L**.

Deviation from measurement procedure.....None

3.2 Conducted Emissions

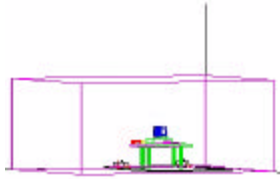


Figure 3-1. Shielded Enclosure Line-Conducted Test Facility



Figure 3-2. Line Conducted Emission Test Set-Up

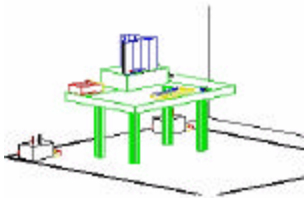


Figure 3-3. Wooden Table & Bonded LISNs

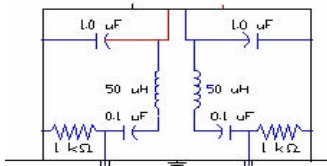


Figure 3-4. LISN Schematic Diagram

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure, manufactured by Ray Proof Series 81 (see Figure 3-1). The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 1.5m away from the sidewall of the shielded room (see Figure 3-2). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (see Figure 3-3). The EUT is powered from the Solar LISN and the support equipment is powered from the EMCO LISN. Power to the LISNs are filtered by a high-current high-insertion loss Ray Proof power line filter (100dB 14Hz-10GHz). The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure. All electrical cables are shielded by braided tinned copper zipper tubing with an inner diameter of ½". If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the Solar LISN. The LISN schematic diagram is shown (see Figure 3-4). All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT.

The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to CISPR quasi-peak and average mode. The bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in the test setup photographs. Each EME reported was calibrated using the Agilent E8257D (250kHz – 20GHz) PSG Signal Generator.

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3.3 Radiated Emissions



Figure 3-5. 3-Meter Test Site



Figure 3-6. Dimensions of Outdoor Test Site



Figure 3-7. Turntable and System Setup



Figure 3-8. Normalized Site Attenuation Curves (H&V)

Preliminary measurements were made indoors at 1-meter using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, and turntable azimuth with respect to the antenna was noted for each frequency found. The spectrum was scanned from 30 to 200 MHz using a bi-conical antenna and from 200 to 1000 MHz using a log-spiral antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3-meter test range using Roberts™ Dipole antennas or horn antennas (see Figure 3-5). The test equipment was placed on a wooden and plastic bench situated on a 1.5m x 2m area adjacent to the measurement area (see Figure 3-6). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The detector function was set to CISPR quasi-peak mode and the bandwidth of the spectrum analyzer was set to 100kHz for frequencies below 1GHz or 1MHz for frequencies above 1GHz. Above 1GHz the detector function was set to average mode (RBW = 1MHz, VBW = 10Hz).

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table (see Figure 3-7). The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in the test setup photographs. Each EME reported was calibrated using the Agilent E8257D (250kHz – 20GHz) PSG Signal Generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 3-8.

| | | | | |
|--------------------------------------|----------------------------------|--|--|---------------------------------|
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4.0 SAMPLE CALCULATIONS

4.1 Conducted Emission Measurement Sample Calculation

@ 20.3 MHz

Class B limit = 60.0 dBmV (Quasi-peak limit)
 Reading = - 57.8 dBm (calibrated quasi-peak level)
 Convert to dBμV = - 57.8 + 107 = 49.2 dBμV

 Margin = 49.2 - 60.0 = - 10.8 dB
 = **10.8 dB below limit**

4.2 Radiated Emission Measurement Sample Calculation

@ 66.7 MHz



Class B limit = 100 mV/m = 40.0 dBmV/m
 Reading = - 76.0 dBm (calibrated level)
 Convert to dBμV = - 76.0 + 107 = 31.0 dBμV
 Antenna Factor + Cable Loss = 5.8 dB/m
 Total = 36.8 dBμV/m

 Margin = 36.8 - 40.0 = - 3.2 dB
 = **3.2 dB below limit**

Note:

$$\text{Level [dB}\mu\text{V]} = 20 \log_{10} (\text{Level } [\mu\text{V/m}])$$

$$\text{Level [dB}\mu\text{V]} = \text{Level [dBm]} + 107$$



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5.0 TEST EQUIPMENT CALIBRATION DATA

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

| Manufacturer | Model | Description | Cal Date | Cal Interval | Cal Due | Serial Number |
|-------------------|----------|------------------------------------|------------|--------------|------------|---------------|
| - | 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 |
| Agilent | 11713A | Attenuation/Switch Driver | 12/2/2009 | Annual | 12/2/2010 | 3439A02645 |
| Agilent | 8447D | Broadband Amplifier | 3/18/2010 | Annual | 3/18/2011 | 1937A03348 |
| Agilent | 8447D | Broadband Amplifier | 3/18/2010 | Annual | 3/18/2011 | 2443A01900 |
| Agilent | 8449B | (1-26.5GHz) Pre-Amplifier | 12/2/2009 | Annual | 12/2/2010 | 3008A00985 |
| Agilent | 85650A | Quasi-Peak Adapter | 12/2/2009 | Annual | 12/2/2010 | 3303A01872 |
| Agilent | 85650A | Quasi-Peak Adapter | 3/30/2010 | Annual | 3/30/2011 | 2043A00301 |
| Agilent | 8566B | (100Hz-22GHz) Spectrum Analyzer | 3/30/2010 | Annual | 3/30/2011 | 2618A02866 |
| Agilent | 8566B | (100Hz-22GHz) Spectrum Analyzer | 3/30/2010 | Annual | 3/30/2011 | 2542A11898 |
| Agilent | 8566B | (100Hz-22GHz) Spectrum Analyzer | 12/2/2009 | Annual | 12/2/2010 | 3638A08713 |
| Agilent | E4407B | ESA Spectrum Analyzer | 3/30/2010 | Annual | 3/30/2011 | US39210313 |
| Agilent | E4448A | PSA (3Hz-50GHz) Spectrum Analyzer | 10/11/2010 | Annual | 10/11/2011 | US42510244 |
| Agilent | E8257D | (250kHz-20GHz) Signal Generator | 3/30/2010 | Annual | 3/30/2011 | MY45470194 |
| Agilent | 85685A | RF Preselector | 12/2/2009 | Annual | 12/2/2010 | 2901A00853 |
| Compliance Design | Roberts | Dipole Set | 4/7/2010 | Biennial | 4/7/2012 | 146 |
| Compliance Design | Roberts | Dipole Set | 4/7/2010 | Biennial | 4/7/2012 | 147 |
| Emco | 6502 | Active Loop Antenna (10k - 30 MHz) | 4/8/2010 | Biennial | 4/8/2012 | 267 |
| Emco | 3816/2 | LISN | 11/5/2010 | Biennial | 11/5/2012 | 9707-1077 |
| Emco | 3816/2 | LISN | 11/3/2010 | Biennial | 11/3/2012 | 9707-1079 |
| Pasternack | PE7000-6 | 6 dB Attenuator | N/A | | N/A | N/A |
| Sunol | JB5 | Bi-Log Antenna (30M - 5GHz) | 7/17/2009 | Biennial | 7/17/2011 | A051107 |

Table 5-1. Annual Test Equipment Calibration Schedule



| | | | | |
|--------------------------------------|---|--|---|---------------------------------|
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6.0 ENVIRONMENTAL CONDITIONS

The temperature is controlled within range of 15°C to 35°C.

The relative humidity is controlled within range of 10% to 75%.

The atmospheric pressure is controlled within the range 86-106kPa (860-1060mbar).

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7.0 TEST DATA

7.1 Summary

Test Date(s): November 30, 2010

Test Engineer: Baron Chan



| FCC Part 15 Section | Description | Result |
|---------------------|---------------------|--------|
| 15.107 | Conducted Emissions | PASS |
| 15.109 | Radiated Emissions | PASS |

Table 7-1. Summary of Test Results

7.2 Test Support Equipment

| | | | |
|---|---|--|---|
| 1 | Samsung Data Link Cable | Model APCBU10BBE .8 m Shielded USB Cable | S/N KD1Z804TS E |
| 2 | Panasonic Toughbook #2 w/ Panasonic AC Adapter | FCC ID: ACJ9TGCF-513 Model: CF-AA1683A 2.0m Unshielded AC power cord 2.0m Unshielded DC power cord with ferrite bead on notebook end | S/N: 7ATYA28277R S/N: 1683AM306Y01583D |
| 3 | Dynex USB PC Camera | Model: DX-WC101 (DoC) 2.07m Shielded USB Cable | S/N: 122D05AC |

Note: See test setup photographs for actual system test setup.

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7.3 Radiated Measurement Data

§15.109; RSS-Gen (6(a))

| Frequency [MHz] | Level [dBm] | AFCL [dB] | Pol [H/V] | Height [m] | Azimuth [degrees] | Field Strength [dBmV/m] | Limit [dBmV/m] | Margin [dB] |
|-----------------|-------------|-----------|-----------|------------|-------------------|-------------------------|----------------|-------------|
| 54.30 | -83.09 | 9.70 | H | 1.2 | 120 | 33.61 | 40.00 | -6.39 |
| 194.90 | -92.60 | 14.24 | H | 1.3 | 120 | 28.65 | 43.52 | -14.88 |
| 258.00 | -90.68 | 13.93 | H | 1.3 | 140 | 30.25 | 46.02 | -15.77 |
| 393.80 | -88.80 | 18.04 | V | 1.4 | 150 | 36.24 | 46.02 | -9.78 |
| 459.20 | -91.34 | 19.33 | V | 1.2 | 135 | 34.99 | 46.02 | -11.03 |
| 796.30 | -90.19 | 24.27 | H | 1.2 | 125 | 41.09 | 46.02 | -4.93 |

Table 7-2. Radiated Measurements at 3-meters





Figure 7-1. 3 Meter Limits

NOTES:

1. All modes of operation were investigated and the worst-case emissions are reported.
2. Radiated Emissions were measured from 30MHz – 2000MHz.
3. The radiated limits are shown on Figure 7-1. Above 960MHz the limit is 500µV/m.

1. All readings are calibrated by Agilent E8257D (250kHz – 20GHz) PSG Signal Generator with accuracy traceable to the National Institute of Standards and Technology (NIST).
2. AFCL = Antenna Factor and Cable Loss
3. Measurements made using CISPR quasi-peak mode. Above 1GHz, peak detector function mode is used with a resolution bandwidth of 1MHz and a video bandwidth of 1MHz. The peak level complies with the average limit. Peak mode is used with linearly polarized horn antenna and low-loss microwave cable.

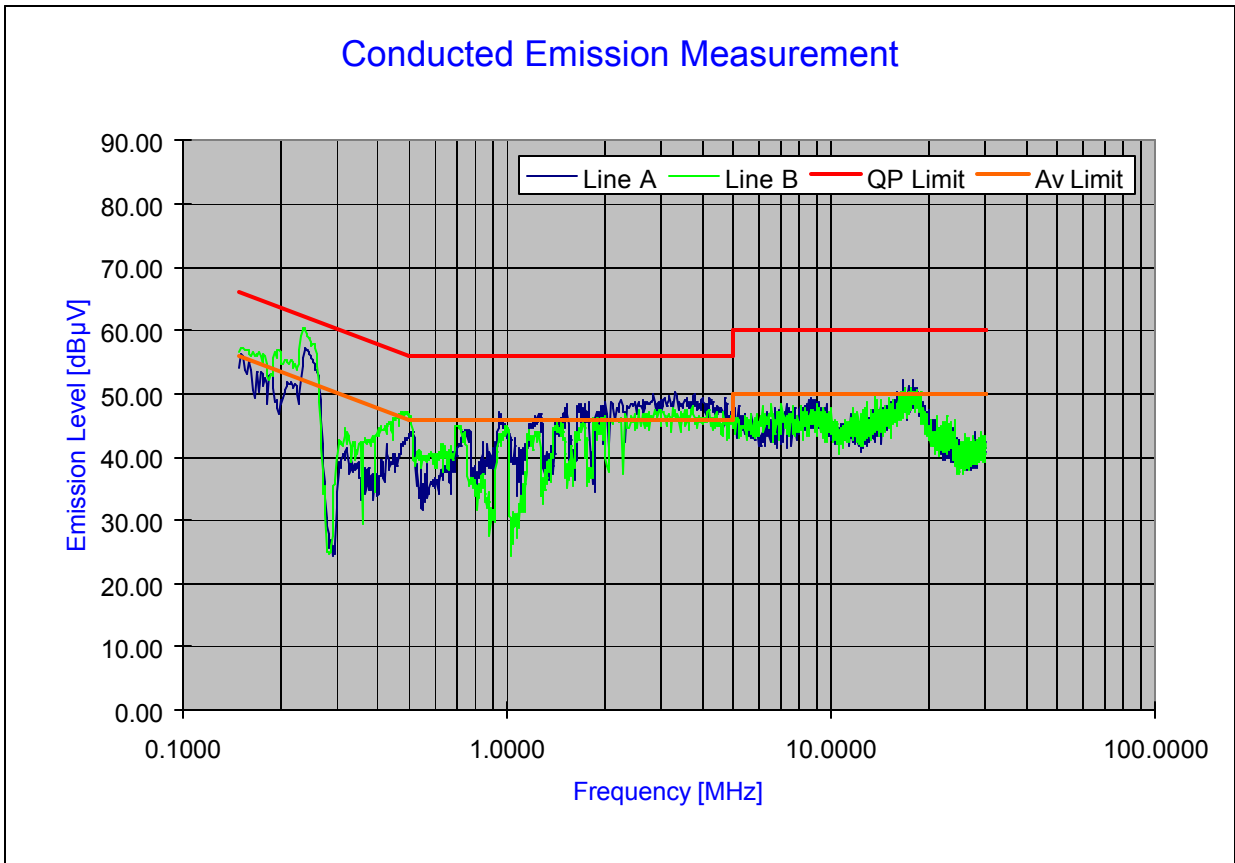
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7.4 Line Conducted Measurement Data
§15.107; RSS-Gen (7.2.2)

PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics, Co. Ltd.
 Model Number : GT-S7230L
 FCC ID Code : A3LGTS7230L
 Standard : FCC Part 15B class B

Power Source : AC120V/60Hz
 Tested Date : 11/30/2010





Ver.1.1 ©PCTEST 2006.08

Plot 7-1. Line-Conducted Test Plot

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.107 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

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| FCC ID: A3LGTS7230L |  | FCC Pt. 15B MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1011261917.A3L | Test Dates: November 30, 2010 | EUT Type: 850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, EDGE Rx, and WLAN | | Page 13 of 20 |



Line Conducted Measurement Data (Cont'd)
§15.107; RSS-Gen (7.2.2)

| No. | Line | Frequency [MHz] | Factor [dB] | QP [dBμV] | Limit [dBμV] | Margin [dB] | Average [dBμV] | Limit [dBμV] | Margin [dB] |
|-----|------|--------------------|----------------|--------------|-----------------|----------------|-------------------|-----------------|----------------|
| 1 | A | 0.237 | 6.89 | 55.78 | 62.19 | -6.41 | 43.88 | 52.19 | -8.31 |
| 2 | A | 1.780 | 7.13 | 43.66 | 56.00 | -12.34 | 26.89 | 46.00 | -19.11 |
| 3 | A | 2.031 | 7.15 | 44.59 | 56.00 | -11.41 | 25.07 | 46.00 | -20.93 |
| 4 | A | 2.106 | 7.16 | 46.76 | 56.00 | -9.24 | 30.97 | 46.00 | -15.03 |
| 5 | A | 2.284 | 7.19 | 46.26 | 56.00 | -9.74 | 25.59 | 46.00 | -20.41 |
| 6 | A | 2.812 | 7.25 | 47.21 | 56.00 | -8.79 | 29.49 | 46.00 | -16.51 |
| 7 | A | 3.281 | 7.29 | 47.89 | 56.00 | -8.11 | 32.19 | 46.00 | -13.81 |
| 8 | A | 3.756 | 7.33 | 47.46 | 56.00 | -8.54 | 30.90 | 46.00 | -15.10 |
| 9 | A | 4.206 | 7.36 | 47.05 | 56.00 | -8.95 | 33.07 | 46.00 | -12.93 |
| 10 | A | 4.684 | 7.39 | 45.72 | 56.00 | -10.28 | 29.37 | 46.00 | -16.63 |
| 11 | B | 0.156 | 6.84 | 53.13 | 65.65 | -12.52 | 34.30 | 55.65 | -21.35 |
| 12 | B | 0.234 | 6.89 | 59.52 | 62.30 | -2.78 | 47.24 | 52.30 | -5.06 |
| 13 | B | 0.494 | 6.97 | 44.60 | 56.10 | -11.50 | 28.59 | 46.10 | -17.51 |
| 14 | B | 2.315 | 7.19 | 43.87 | 56.00 | -12.13 | 28.31 | 46.00 | -17.69 |
| 15 | B | 3.250 | 7.30 | 44.30 | 56.00 | -11.70 | 30.31 | 46.00 | -15.69 |
| 16 | B | 3.709 | 7.34 | 44.25 | 56.00 | -11.75 | 30.05 | 46.00 | -15.95 |
| 17 | B | 4.415 | 7.39 | 43.20 | 56.00 | -12.80 | 31.17 | 46.00 | -14.83 |
| 18 | B | 4.641 | 7.40 | 43.54 | 56.00 | -12.46 | 30.60 | 46.00 | -15.40 |
| 19 | B | 16.949 | 8.31 | 43.81 | 60.00 | -16.19 | 36.55 | 50.00 | -13.45 |
| 20 | B | 17.717 | 8.38 | 45.37 | 60.00 | -14.63 | 38.81 | 50.00 | -11.19 |

Table 7-3. Line-Conducted Test Data



Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.107 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

| | | | | |
|--------------------------------------|---|--|---|---------------------------------|
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung 850/1900 GSM/GPRS/WCDMA Phone with Bluetooth, EDGE Rx, and WLAN FCC ID: A3LGTS7230L** has been tested to comply with the requirements specified in §15.107 and §15.109 of the FCC Rules and Industry Canada Standard ICES-003.

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