



PCTEST ENGINEERING LABORATORY, INC.

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CERTIFICATE OF COMPLIANCE

Applicant Name:

SAMSUNG ELECTRONICS CO., LTD.
416 Maetan-3 Dong, Paldal-Ku
Suwon City, Kyungki-Do 441-742, Korea

Date of Testing:

November 30, 2006

Test Site/Location:

PCTEST Lab, Columbia, MD, USA

Test Report Serial No.:

0611241039

FCC ID:

A3LSPHA303

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

EUT Type:

Dual-Band CDMA Phone with Bluetooth

FCC Rule Part(s):

FCC Part 15 Subpart B

FCC Classification:

FCC Class B Digital Device (JBP)

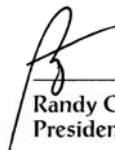
Test Procedure:

ANSI C63.4-2003 / EN55022: 1998 w/ A1 (2000) + A2 (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). These measurements were performed with no deviation from the standards.

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. 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



NVLAP[®]
Lab Code 100431-0

FCC ID: A3LSPHA303		FCC Pt. 15B CERTIFICATION TEST REPORT		Reviewed by: Quality Manager
Test Report S/N: 0611241039	Test Dates: November 30, 2006	EUT Type: Dual-Band CDMA Phone with Bluetooth		Page 1 of 24

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MEASUREMENT REPORT



FCC Part 15B – Unintentional Radiators

A. § 2.1033 General Information

APPLICANT: SAMSUNG ELECTRONICS CO., LTD.
APPLICANT ADDRESS: 416 Maetan-3 Dong, Paldal-Ku
Suwon City, Kyungki-Do 441-742, Korea
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: A3LSPHA303
Test Device Serial No.: FD-232-A ☐ Production ☒ Pre-Production ☐ Engineering
FCC CLASSIFICATION: FCC Class B Digital Device (JBP)
DATE(S) OF TEST: November 30, 2006

A.1 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.

A.2 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 (IC 2451).
- 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 (IC-2451) test laboratory with the site description on file at Industry Canada.

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1.0 INTRODUCTION

1.1 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 **Samsung Dual-Band CDMA Phone with Bluetooth FCC ID: A3LSPHA303**.

Deviation from measurement procedure.....NONE

1.2 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.

1.3 PCTEST Test Location

The map at the right shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity are, the Baltimore-Washington Intern'l (BWI) airport, the city of Baltimore and the Washington, DC area. (see Figure 1.3-1).

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 27, 2006 and Industry Canada.

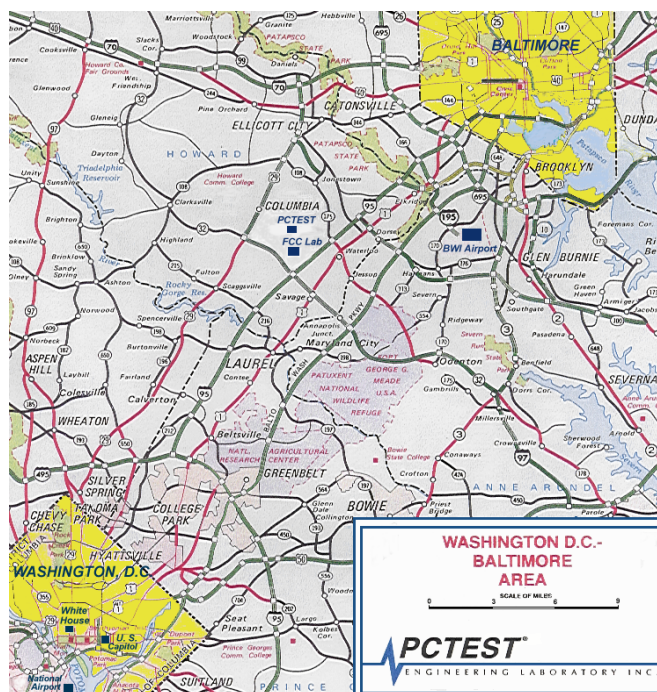


Figure 1.3-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Dual-Band CDMA Phone with Bluetooth FCC ID: A3LSPHA303**.

2.2 Operation Mode

The Samsung Dual-Band CDMA Phone with Bluetooth FCC ID: A3LSPHA303 was tested with a NOTEBOOK connected via USB interface port. Please see Section 8 for more information on the test setup and Exhibit B for test setup photographs.

2.3 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 TEST

3.1 Conducted Emissions



Figure 3.1-1. Shielded Enclosure Line-Conducted Test Facility

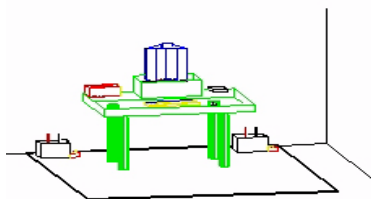


Figure 3.1-2. Line Conducted Emission Test Set-Up



Figure 3.1-3. Wooden Table & Bonded LISNs



Figure 3.1-4. LISN Schematic Diagram

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure, manufactured by Ray Proof Series 81 (see *Figure 3.1-1*). 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 3.1-2*). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (See *Figure 3.1-3*). 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 3.1-4*). 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 Exhibit B. Each EME reported was calibrated using the Agilent E8257D (250kHz – 20GHz) PSG Signal Generator.

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3.2 Radiated Emissions

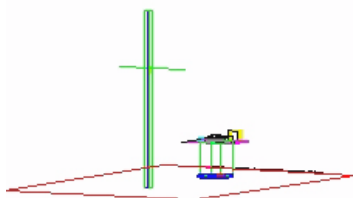


Figure 3.2-1. 3-Meter Test Site

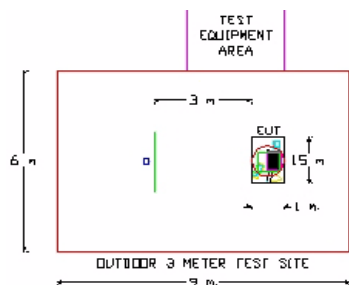


Figure 3.2-2. Dimensions of Outdoor Test Site

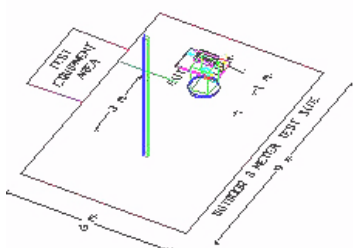


Figure 3.2-3. Turntable and System Setup

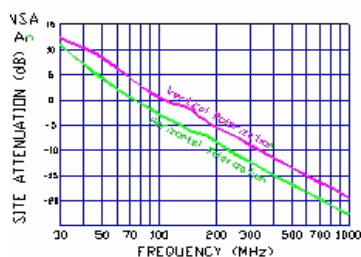


Figure 3.2-4. Normalized Site Attenuation Curves (H&V)

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 RobertsTM Dipole antennas or horn antennas (see Figure 3.2-1). 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 3.2-2). 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 3.2-3). 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 Exhibit B. 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 3.2-4.

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4.0 SAMPLE CALCULATIONS

4.1 Conducted Emission Measurement Sample Calculation

@ 20.3 MHz

Class B limit	= 250 μ V = 47.96 dB μ V
Reading	= - 67.8 dBm (calibrated level)
Convert to dB μ V	= - 67.8 + 107 = 39.2 dB μ V
$10^{(39.2/20)}$	= 91.2 μ V
Margin	= 39.2 - 47.96 = - 8.76 dB
	= 8.8 dB below limit

4.2 Radiated Emission Measurement Sample Calculation

@ 66.7 MHz

Class B limit	= 100 μ V/m = 40.0 dB μ V/m
Reading	= - 76.0 dBm (calibrated level)
Convert to dB μ V	= - 76.0 + 107 = 31.0 dB μ V
Antenna Factor + Cable Loss	= 5.8 dB/m
Total	= 36.8 dB μ V/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 UNCERTAINTY OF MEASUREMENT

5.1 Line Conducted Measurement Uncertainty Calculations

The measurement uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 and NIS 81 (1994).

Contribution (Line Conducted)	Probability Distribution	Uncertainty ($\pm$ dB)	
		9kHz-150kHz	150-30MHz
Receiver reading	normal	0.1	0.1
Accuracy of CL measurement	normal	0.2	0.2
Receiver sine wave accuracy	rectangular	2.0	2
Receiver pulse amplitude	rectangular	1.5	1.5
Receiver pulse repetition rate	rectangular	1.5	1.5
Mismatch between artificial mains and receiver	U shaped	0.15	0.2
Artificial main impedance	rectangular	0.75	0.15
Artificial mains voltage divider factor	rectangular	0.40	0.5
Combined standard uncertainty	normal	1.81	1.75
Expanded uncertainty	Normal k=2	3.62	3.50

Table 5-1. Line Conducted Measurement Uncertainty Calculations

Calculations for 150kHz to 30MHz: $u_c(y) = \sqrt{\sum_{i=1}^m u_i^2(y)} = U = 2U_c(y) = \pm 3.62$

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5.2 Radiated Emissions Measurement Uncertainty Calculations

The measurement uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 and NIS 81 (1994).

Contribution (Radiated Emissions)	Probability Distribution	Uncertainty ($\pm$ dB)	
		3 m	10 m
Receiver reading	normal	0.1	0.1
Accuracy of CL measurement	normal	0.2	0.2
Receiver sine wave accuracy	rectangular	2.0	2.0
Receiver pulse amplitude	rectangular	1.5	1.5
Receiver pulse repetition rate	rectangular	1.5	1.5
Mismatch antenna-receiver	U shaped	0.8	0.8
Antenna AF interpolation	rectangular	0.31	0.31
AF height deviations	rectangular	0.65	0.5
Directivity difference	rectangular	0.35	0.25
Cross-polarization and balance	rectangular	0.6	0.5
Site imperfections	triangular	3.6	3.6
Combined standard uncertainty	normal	2.67	2.64
Expanded uncertainty	Normal k=2	5.34	5.28

Table 5-2. Radiated Emissions Measurement Uncertainty Calculations

Calculations for 3m-biconical antenna. Coverage factor of k=2 will ensure that the level of confidence will be approximately 95%, therefore:

$$U=2u_c(y) = 2 \times 2.67 \pm = \pm 5.34\text{dB}$$

6.0 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	HP 8566B (100Hz–22GHz)	12/22/05	Annual	12/22/06	3638A08713
Agilent	HP 8591A (9kHz-1.8GHz)	09/20/06	Annual	09/20/07	3144A02458
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
Ailtech/Eaton	NM 37/57A (30MHz-1GHz)	06/07/06	Annual	06/07/07	0805-03334
CCA-7	CISPR QP Adapter	12/19/05	Annual	12/19/06	0194-04082
Agilent	HP 85650A Quasi-Peak Adapter	12/22/05	Annual	12/22/06	2043A00301
Agilent	HP 8449B (1-26.5GHz) Pre-Amplifier	12/22/05	Annual	12/22/06	3008A00985
Agilent	HP 11713A Attenuation/Switch Driver	12/22/05	Annual	12/22/06	N/A
Agilent	HP 85685A (20Hz-2GHz) Preselector	12/22/05	Annual	12/22/06	N/A
Agilent	HP 8586 Opt. 462 Impulse Bandwidth	12/22/05	Annual	12/22/06	3701A22204
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
Pasternack	PE7000-6 6 dB Attenuator	N/A	Annual	N/A	N/A
-	No.165 (30MHz - 1000MHz) RG58 Coax Cable	N/A	Annual	N/A	N/A
-	No.166 (1000-26500MHz) Microwave RF Cable	N/A	Annual	N/A	N/A
-	No.167 (100kHz - 100MHz) RG58 Coax Cable	N/A	Annual	N/A	N/A

Table 6-1. Annual Test Equipment Calibration Schedule

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7.0 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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8.0 TEST DATA

Summary

Test Date(s): November 30, 2006

Test Engineer:



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

Table 8-1. Summary of Test Results

8.1 Test Support Equipment

- | | | | |
|---|---|---|---|
| 1 | Samsung Dual-Band CDMA Phone with Bluetooth | FCC ID: A3LSPHA303 | S/N: FD-232-A |
| 2 | Samsung Data Link Cable | Model: PCB200BBE
1.15m Shielded USB cable | S/N: DW2A828AS |
| 3 | Panasonic Toughbook w/ AC Adapter | FCC ID: ACJ9TGCF-741
Model: CF-AA1683A
1.79m Unshielded AC power cord
1.76m Unshielded DC power cord with ferrite bead on notebook end | S/N: 6BKSA00246R
S/N: 1683AM106101997B |
| 4 | Zoom Modem | FCC ID: BDNV34MINI-EXT
1.8m Unshielded DC power cord
1.2m Shielded serial cable | S/N: 3117M4X40211 |
| 5 | Dynex USB PC Camera | Model: DX-WC101 (DoC)
2.07m Shielded USB Cable | S/N: 122D067C000455 |

Note: See Exhibit B – Test Setup Photographs for actual system test setup.

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8.2 Radiated Measurement Data

FREQ (MHz)	Level (dBm)	AFCL (dB/m)	POL (H/V)	Height (m)	Azimuth (° angle)	F/S ($\mu\text{V/m}$)	Margin (dB)
47.85	-87.89	2.69	H	1.3	95	12.35	-18.2
72.08	-80.84	6.55	V	2.0	330	43.20	-7.3
120.10	-85.80	11.51	V	2.1	240	43.20	-10.8
143.90	-84.83	13.23	H	1.4	150	58.93	-8.1
175.35	-93.66	13.47	V	2.1	75	21.93	-16.7
467.99	-91.93	25.33	H	1.3	210	104.76	-5.6

Table 8-2. Radiated Measurements at 3-meters

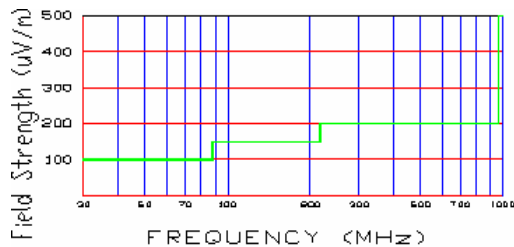


Figure 8-1. 3 Meter Limits

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 8-1. Above 1GHz the limit is 500 $\mu\text{V/m}$.

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 (Roberts dipole) and Cable Loss (30 ft. RG58C/U).
3. Measurements 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.

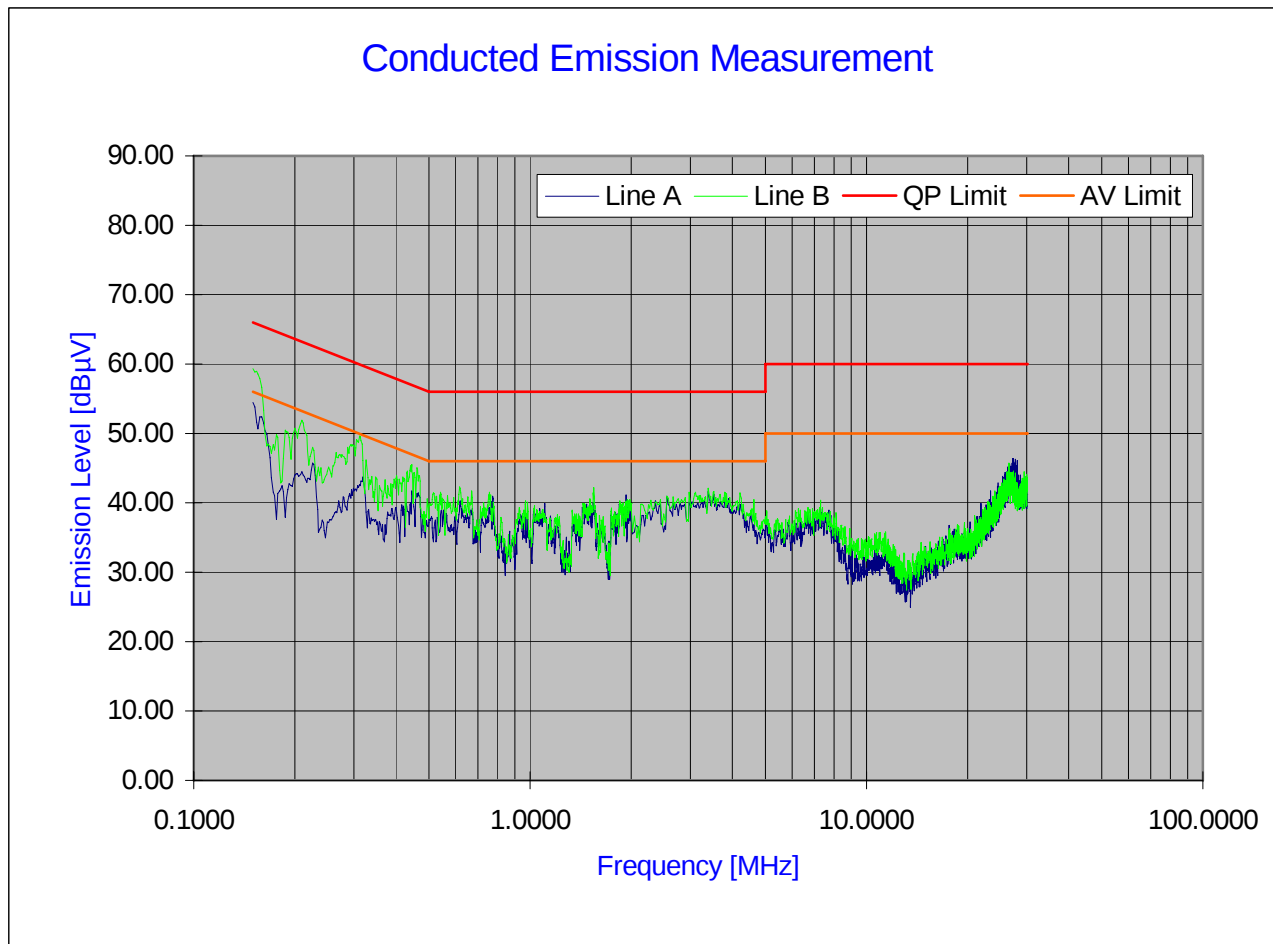
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8.3 Line Conducted Measurement Data

PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics
 Model Number : SPH-A303
 FCC ID Code : A3LSPHA303
 Standard : FCC Part 15B class B

Power Source : AC120V/60Hz
 Tested Date : 11/30/2006
 Note : Tested with USB Data Cable
 Model: PCB200BBE



Plot 8-1. 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 EN55022.
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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Line Conducted Measurement Data (Cont'd)

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBμV]	Limit [dBμV]	Margin [dB]	Average [dBμV]	Limit [dBμV]	Margin [dB]
1	A	0.150	8.20	57.48	66.00	-8.52	45.10	56.00	-10.90
2	A	3.390	7.46	39.84	56.00	-16.16	25.31	46.00	-20.69
3	A	26.554	8.44	38.97	60.00	-21.03	31.94	50.00	-18.06
4	A	26.608	8.45	40.20	60.00	-19.80	31.86	50.00	-18.14
5	A	27.063	8.47	39.07	60.00	-20.93	31.94	50.00	-18.06
6	A	27.258	8.48	39.66	60.00	-20.34	31.88	50.00	-18.12
7	A	27.407	8.48	41.28	60.00	-18.72	32.21	50.00	-17.79
8	A	27.436	8.49	39.66	60.00	-20.34	31.74	50.00	-18.26
9	A	27.643	8.50	39.23	60.00	-20.77	31.28	50.00	-18.72
10	A	28.062	8.51	38.09	60.00	-21.91	30.98	50.00	-19.02
11	B	0.150	8.20	60.11	66.00	-5.89	51.62	56.00	-4.38
12	B	0.170	8.08	51.79	64.95	-13.16	45.46	54.95	-9.49
13	B	0.205	7.91	49.59	63.40	-13.81	43.60	53.40	-9.80
14	B	0.309	7.56	47.07	60.00	-12.93	36.58	50.00	-13.42
15	B	0.312	7.56	46.30	59.91	-13.61	33.77	49.91	-16.14
16	B	0.405	7.49	39.94	57.75	-17.81	28.82	47.75	-18.93
17	B	0.463	7.45	41.23	56.64	-15.41	26.70	46.64	-19.94
18	B	0.463	7.45	41.22	56.64	-15.42	27.15	46.64	-19.49
19	B	0.618	7.40	39.59	56.00	-16.41	31.69	46.00	-14.31
20	B	1.557	7.36	38.07	56.00	-17.93	26.04	46.00	-19.96

Table 8-3. 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 EN55022.
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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9.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Dual-Band CDMA Phone with Bluetooth FCC ID: A3LSPHA303** has been tested to comply with the requirements specified in §15.107 and §15.109 of the FCC Rules. Measurement uncertainty was not taken into account in this determination.

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EXHIBIT A – LABELING REQUIREMENTS

Sample Label & Location

New Labeling Requirements:

Per 15.19; Docket 95-19

The sample label shown below 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, FCC ID, and the FCC logo must be displayed on the device per Section 15.19(b)(2).

Note: The FCC ID shown will be readily visible at the time of purchase because the phone will be marketed without the battery installed.

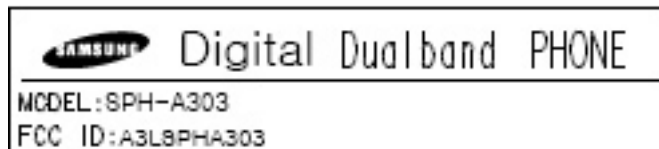


Figure A-1. FCC ID Label

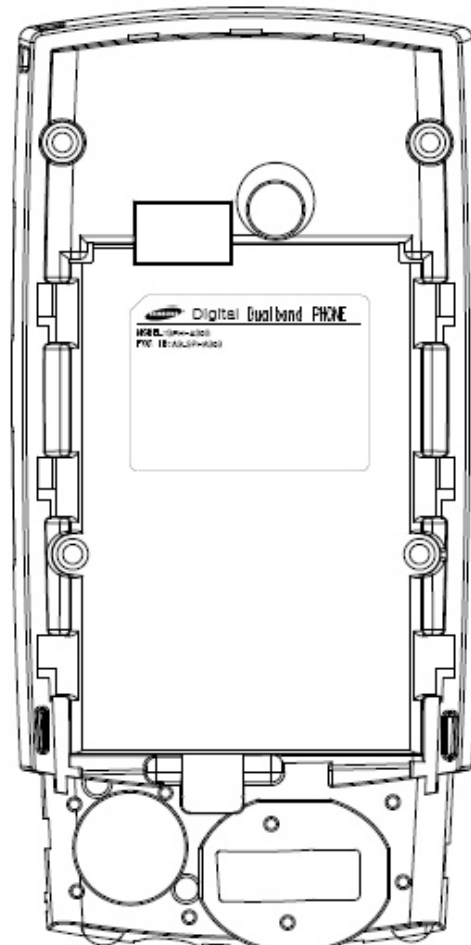


Figure A-2. FCC ID Label Location

FCC ID: A3LSPHA303		FCC Pt. 15B CERTIFICATION TEST REPORT		Reviewed by: Quality Manager
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EXHIBIT B – TEST SETUP PHOTOGRAPHS

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EXHIBIT C – INTERNAL PHOTOGRAPHS

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EXHIBIT D – EXTERNAL PHOTOGRAPHS

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EXHIBIT E – BLOCK(S) / SCHEMATIC(S) DIAGRAM

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EXHIBIT F – OPERATIONAL DESCRIPTION

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EXHIBIT G – USER’S MANUAL

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