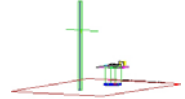
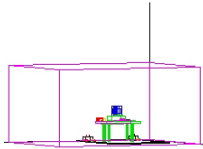


PCTEST ENGINEERING LABORATORY, INC.

6660 – B Dobbin Road • Columbia, MD 21045 • USA

Telephone 410.290.6652 / Fax 410.290.6654

<http://www.pctestlab.com> (email: randy@pctestlab.com)



CERTIFICATE OF COMPLIANCE

APPLICANT NAME & ADDRESS:

NEC AMERICA INC.
6535 N. State Hwy. 161
Irving, TX 75039-2402

DATE & LOCATION OF TESTING:

Date(s) of Tests: April 7, 2006
Test Report S/N: 0603310213
Test Site: PCTEST Lab, Columbia, MD USA

FCC ID: A98-KMP6J1BK

APPLICANT: NEC AMERICA INC.


SUMMARY:

Equipment EUT Type: Single-Band PCS GSM Phone w/ Bluetooth & USB Data Cable
FCC Rule Part(s): FCC Part 15 Subpart B
FCC Classification: FCC Class B Digital Device (JBP)
Test Procedure(s): 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



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| Filename: 0603310213 | Test Dates: April 7, 2006 | EUT: Single-Band PCS GSM Phone w/ Bluetooth & USB Data Cable | FCC ID: A98-KMP6J1BK | Page i of i |

MEASUREMENT REPORT

A. General Information

APPLICANT: NEC AMERICA INC.
APPLICANT ADDRESS: 6535 N. State Hwy. 161
Irving, TX 75039-2402
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: A98-KMP6J1BK
EUT TYPE: Single-Band PCS GSM Phone w/ Bluetooth & USB Data Cable
TEST DEVICE S/N: N/A
SAMPLE: ☐ Production ☒ Pre-Production ☐ Engineering
FCC CLASSIFICATION: FCC Class B Digital Device (JBP)
DATE(S) OF TEST: April 7, 2006


A.1 Test Methodology

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

A.2 Test Facility / NVLAP Accreditation

The conducted and radiated tests were performed at PCTEST Engineering Lab in Columbia, MD 21045 USA.

- 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.
- PCTEST Lab is recognized by U.S. National Institute of Standards & Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) for compliance with ISO/IEC Guide 17025 and meeting the 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 is an accredited Telecommunication Certification Body (TCB) by the American National Standards Institute (ANSI) meeting the requirements set forth in ISO/IEC Guide 65.
- PCTEST is an Industry Canada Foreign Certification Body (FCB) in all Radio Standards (RSS).

| | | | | |
|-------------------------|---|---|-------------------------|---------------------------------|
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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 determining radiated and conducted emissions emanating from **NEC Single-Band PCS GSM Phone w/ Bluetooth & USB Data Cable FCC ID: A98-KMP6J1BK**.

1.2 Scope

Measurement & 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 Internt'l (BWI) airport, the city of Baltimore and the Washington, DC area. (see Figure 1.2-1).

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 on October 19, 2002.

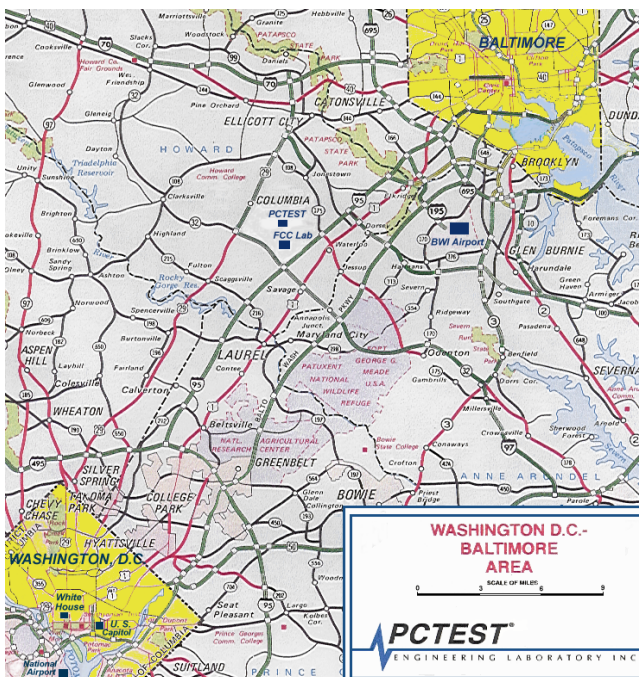




Figure 1.3-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

| | | | | |
|-------------------------|---|---|---|---------------------------------|
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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the NEC Single-Band PCS GSM Phone w/ Bluetooth & USB Data Cable FCC ID: A98-KMP6J1BK.



2.2 Operation Mode

The Single-Band PCS GSM Phone w/ Bluetooth & USB Data Cable FCC ID: A98-KMP6J1BK was tested with a NOTEBOOK connected via USB interface port. Please see ATTACHMENT D for more information on the test setup and ATTACHMENT G for test setup photographs.

2.3 EMI Suppression Device(s)

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

- none

| | | | | |
|-------------------------|---|---|-------------------------|--|
| PCTEST™ PT. 15. REPORT |  MEASUREMENT REPORT FCC Part 15B | | |  Reviewed by: Quality Manager |
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3.0 DESCRIPTION OF TEST

3.1 Conducted Emissions

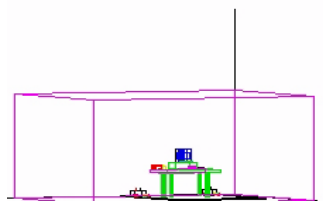


Figure 3.1-1. Shielded Enclosure Line-Conducted Test Facility

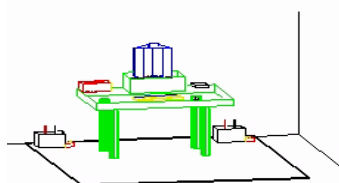


Figure 3.1-2. Line Conducted Emission Test Set-Up

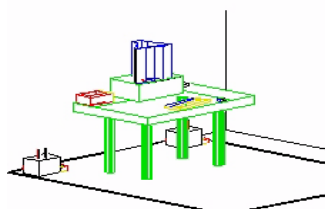


Figure 3.1-3. Wooden Table & Bonded LISNs

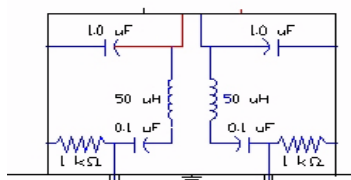



Figure 3.1-4. LISN Schematic Diagram

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure. It is 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 filters (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 by non-inductive bundling (serpentine fashion) to a 1-meter length. 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 20msec. sweep time. The frequencies producing the maximum level were re-examined using an EMI/Field Intensity Meter and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode and average mode. The bandwidth of the receiver 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 patter 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 Attachment H. Each EME reported was calibrated using the HP8640B signal generator.

| | | | | |
|-------------------------|---|---|-------------------------|---------------------------------|
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3.2 Radiated Emissions

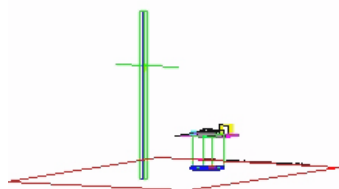


Figure 3.2-1. Meter Test Site

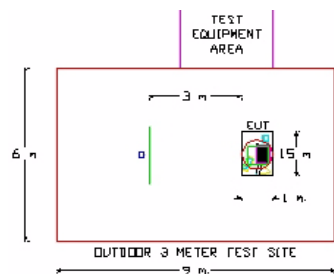


Figure 3.2-2. Dimensions of Outdoor Test Site

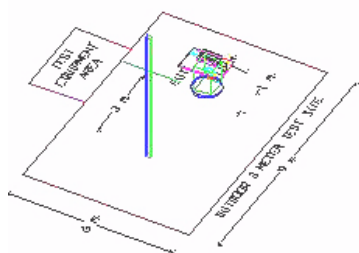


Figure 3.2-3. Turntable and System Setup

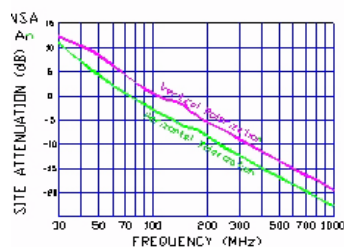




Figure 3.2-4. Normalized Site Attenuation Curves (H&V)

Preliminary measurements were made indoors at 1 meter using broadband antennas, broadband amplifier, and spectrum analyzer 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, turntable azimuth with respect to the antenna was noted for each frequency found. The spectrum was scanned from 30 to 200 MHz using biconical antenna and from 200 to 1000 MHz using 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 antenna (see Figure 3.2-1). The test equipment was placed on a wooden and plastic bench situated on a 1.5 x 2 meter 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. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter and Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100kHz or 1 MHz depending on the frequency or type of signal. Above 1GHz the detector function was set to CISPR 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; the antenna height was varied 1 to 4 meters and stopped at the azimuth or 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 Appendix G. Each EME reported was calibrated using the HP8640B signal generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 3.2-4.

| | | | | |
|-------------------------|---|---|---|---------------------------------|
| PCTEST™ PT. 15. REPORT |  MEASUREMENT REPORT FCC Part 15B | |  | Reviewed by: Quality Manager |
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4.0 SAMPLE CALCULATIONS

4.1 Conducted Emission Measurement Sample Calculation:

@ 20.3 MHz

$$\begin{aligned}
 \text{Class B limit} &= 250 \mu\text{V} = 47.96 \text{ dB}\mu\text{V} \\
 \text{Reading} &= -67.8 \text{ dBm (calibrated level)} \\
 \text{Convert to dB}\mu\text{V} &= -67.8 + 107 = 39.2 \text{ dB}\mu\text{V} \\
 10^{(39.2/20)} &= 91.2 \mu\text{V} \\
 \\
 \text{Margin} &= 39.2 - 47.96 = -8.76 \\
 &= \mathbf{8.8 \text{ dB below limit}}
 \end{aligned}$$



4.2 Radiated Emission Measurement Sample Calculation:

@ 66.7 MHz

$$\begin{aligned}
 \text{Class B limit} &= 100 \mu\text{V/m} = 40.0 \text{ dB}\mu\text{V/m} \\
 \text{Reading} &= -76.0 \text{ dBm (calibrated level)} \\
 \text{Convert to dB}\mu\text{V} &= -76.0 + 107 = 31.0 \text{ dB}\mu\text{V} \\
 \text{Antenna Factor + Cable Loss} &= 5.8 \text{ dB/m} \\
 \text{Total} &= 36.8 \text{ dB}\mu\text{V/m} \\
 \\
 \text{Margin} &= 36.8 - 40.0 = -3.2 \\
 &= \mathbf{3.2 \text{ dB below limit}}
 \end{aligned}$$

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

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

| | | | | | |
|-------------------------|---|---|-------------------------|---|---------------------------------|
| PCTEST™ PT. 15. REPORT |  MEASUREMENT REPORT FCC Part 15B | | |  | Reviewed by: Quality Manager |
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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).

Table 5.1-1. Line Conducted Measurement Uncertainty Calculations

| Contribution (Line Conducted) | Probability Distribution | Uncertainty (\pm dB) | |
|--|-----------------------------|-------------------------|-----------|
| | | 9kHz-150kHz | 150-30MHz |
| Receiver specification | Rectangular | 1.5 | 1.5 |
| LISN coupling specification | Rectangular | 1.5 | 1.5 |
| Cable and input attenuator calibration | Normal (k=2) | 0.3 | 0.5 |
| Mismatch: Receiver VRC $\Gamma_L = 0.03$ LISN VRC $\Gamma_R = 0.8$ (9kHz) 0.2 (30MHz) Uncertainty limits $20\text{Log}(1 \pm \Gamma_L \Gamma_R)$ | U-Shaped | 0.2 | 0.35 |
| System repeatability | Std. deviation | 0.2 | 0.05 |
| Repeatability of EUT | | - | - |
| Combined standard uncertainty | Normal | 1.26 | 1.30 |
| Expanded uncertainty | Normal (k=2) | 2.5 | 2.6 |

Calculations for 150kHz to 30MHz:
$$u_c(y) = \sqrt{\sum_{i=1}^m u_i^2(y)} = \pm \sqrt{\frac{1.5^2 + 1.5^2}{3} + \left(\frac{0.5}{2}\right)^2 + 0.35^2} = \pm 1.298\text{dB}$$

$$U = 2U_c(y) = \pm 2.6\text{dB}$$

| | | | | |
|------------------------------------|---|---|---|---------------------------------|
| PCTEST [™] PT. 15. REPORT |  | MEASUREMENT REPORT FCC Part 15B |  | Reviewed by: Quality Manager |
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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).

Table 5.2-1. Radiated Emissions Measurement Uncertainty Calculations

| Contribution (Radiated Emissions) | Probability Distribution | Uncertainties (\pm dB) | |
|--|-----------------------------|---------------------------|-----------------|
| | | 3 m | 10 m |
| Ambient Signals | | - | - |
| Antenna factor calibration | Normal (k=2) | ± 1.0 | ± 1.0 |
| Cable loss calibration | Normal (k=2) | ± 0.5 | ± 0.5 |
| Receiver specification | Rectangular | ± 1.5 | ± 1.5 |
| Antenna directivity | Rectangular | + 0.5 / - 0 | + 0.5 |
| Antenna factor variation with height | Rectangular | ± 2.0 | ± 0.5 |
| Antenna phase centre variation | Rectangular | 0.0 | ± 0.2 |
| Antenna factor frequency interpolation | Rectangular | ± 0.25 | ± 0.25 |
| Measurement distance variation | Rectangular | ± 0.6 | ± 0.4 |
| Site imperfections | Rectangular | ± 2.0 | ± 2.0 |
| Mismatch: Receiver VRC $\Gamma_1 = 0.2$ Antenna VRC $\Gamma_R = 0.67$ (Bi) 0.3 (Lp) Uncertainty limits $20\text{Log}(1 \pm \Gamma_1 \Gamma_R)$ | U-Shaped | + 1.1 - 1.25 | ± 0.5 |
| System repeatability | Std. Deviation | ± 0.5 | ± 0.5 |
| Repeatability of EUT | | - | - |
| Combined standard uncertainty | Normal | + 2.19 / - 2.21 | + 1.74 / - 1.72 |
| Expanded uncertainty | Normal (k=2) | + 4.38 / - 4.42 | + 3.48 / - 3.44 |

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

$$U=2u_c(y) = 2 \times \pm 2.19 = \pm 4.38\text{dB}$$

| | | | | |
|-------------------------|---|---|-------------------------|---------------------------------|
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6.0 TEST EQUIPMENT CALIBRATION DATA

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

Table 6-1. Annual Test Equipment Calibration Schedule



| TYPE | MODEL | CAL. DUE DATE | SERIAL No. |
|--------------------------------------|--------------------------------|---------------|----------------------|
| Microwave Spectrum Analyzer | HP 8566 (100Hz-22GHz) | 12/05/06 | 3638A08713 |
| Microwave Spectrum Analyzer | HP 8566 (100Hz-22GHz) | 04/17/07 | 2542A11898 |
| Spectrum Analyzer/Tracking Generator | HP 8591A (9kHz-1.8GHz) | 03/24/07 | 3144A02458 |
| Spectrum Analyzer | HP 8591A (9kHz-1.8GHz) | 04/23/07 | 3108A02053 |
| Spectrum Analyzer | HP 8594A (9kHz-2.9GHz) | 11/02/06 | 3051A00187 |
| Signal Generator | HP 8650B (500Hz-1GHz) | 06/02/06 | 2232A19558 |
| Signal Generator | HP 8640B (500Hz-1GHz) | 06/02/06 | 1851A09816 |
| Signal Generator | Rohde & Schwarz (0.1-1GHz) | 09/22/06 | 894215/012 |
| Ailtech/Eaton Receiver | NM 37/57A-SL (30MHz-1GHz) | 04/12/07 | 0792-03271 |
| Ailtech/Eaton Receiver | NM 37/57A (30MHz-1GHz) | 03/11/07 | 0805-03334 |
| Ailtech/Eaton Receiver | NM 17/27A (0.1-32MHz) | 09/17/06 | 0608-03241 |
| Quasi-Peak Adapter | HP 85650A | 08/09/06 | 2043A00301 |
| Ailtech/Eaton Adapter | CCA-7 CISPR/ANSI QP Adapter | 03/11/07 | 0194-04082 |
| RG58 Coax Test Cable | No.167 | 03/26/07 | n/a |
| Harmonic/Flicker Test System | HP 6841A (IEC 555-2/3) | 11/15/06 | 3531A00115 |
| Broadband Amplifier | HP 8447D | 02/26/07 | 1145A00470 |
| Broadband Amplifier | HP 8447D | 02/26/07 | 1937A03348 |
| Horn Antenna (2) | EMCO Model 3115 (1-18GHz) | 03/15/07 | 9704-5182, 9205-3874 |
| Horn Antenna | EMCO Model 3116 (18-40GHz) | 03/28/07 | 9203-2178 |
| Roberts Dipoles | Compliance Design (1 set) A100 | 08/11/06 | 5118 |
| EMCO LISN (3) | 3816/2, 3816/2, 3725/2 | 10/26/06 | 1077, 1079, 2099 |
| 50-ohm Terminator | n/a | n/a | n/a |
| Microwave Preamp 30dB Gain | HP 83017A (0.5-26.5GHz) | 03/26/07 | 3123A00181 |
| Microwave Cables | MicroCoax (1.0-26.5GHz) | 02/26/07 | n/a |
| Spectrum Analyzer | HP 8591A | 06/18/06 | 3034A01395 |
| Modulation Analyzer | HP 8901A | 06/26/06 | 2432A03467 |
| Microwave Survey Meter | Holaday Model 1501 (2.45GHz) | 02/21/07 | 80931 |
| Digital Thermometer | Extech Instruments 421305 | 03/15/07 | 426966 |
| Attenuator | 4108 (6dB) | 03/26/07 | |
| Shielded Screen Room | RF Lindgren Model 26-2/2-0 | n/a | 6710 (PCT270) |
| Shielded Semi-Anechoic Chamber | Ray Proof Model S81 | 04/15/07 | R2437 (PCT278) |
| Environmental Chamber | Associated Systems 1025 | 08/08/06 | PCT285 |
| OATS | n/a | 12/31/06 | |

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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| PCTEST™ PT. 15. REPORT |  MEASUREMENT REPORT FCC Part 15B | | |  Reviewed by: Quality Manager |
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **NEC Dual-Band Dual-Mode GSM/WCDMA Phone w/ Bluetooth & USB Data Cable** **FCC ID: A98-KMP6J1BK** has been verified to comply with §§ 15.107 and 15.109 of the FCC Rules.

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ATTACHMENT D – Test Data

Summary of Test Results



Test Date(s): April 7, 2006

Test Engineer:



Table D-1. Summary of Test Results

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

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ATTACHMENT D – Test Data (Cont.)

Radiated Test Data/Plots



| FREQ (MHz) | Level (dBm) | AFCL (dB/m) | POL (H/V) | Height (m) | Azimuth (° angle) | F/S (uV/M) | Margin (dB) |
|---------------|----------------|----------------|--------------|---------------|----------------------|---------------|----------------|
| 66.55 | -80.11 | 5.82 | H | 1.3 | 135 | 43.20 | -7.3 |
| 72.01 | -79.64 | 6.54 | H | 1.1 | 60 | 49.60 | -6.1 |
| 175.42 | -92.87 | 13.47 | H | 1.4 | 200 | 24.04 | -15.9 |
| 182.01 | -88.90 | 15.60 | H | 1.3 | 225 | 48.47 | -9.8 |
| 357.95 | -96.92 | 22.52 | V | 2.2 | 315 | 42.71 | -13.4 |
| 486.83 | -96.98 | 25.78 | H | 1.0 | 145 | 61.71 | -10.2 |

Table D-2. Radiated Measurements at 3-meters

NOTES:

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

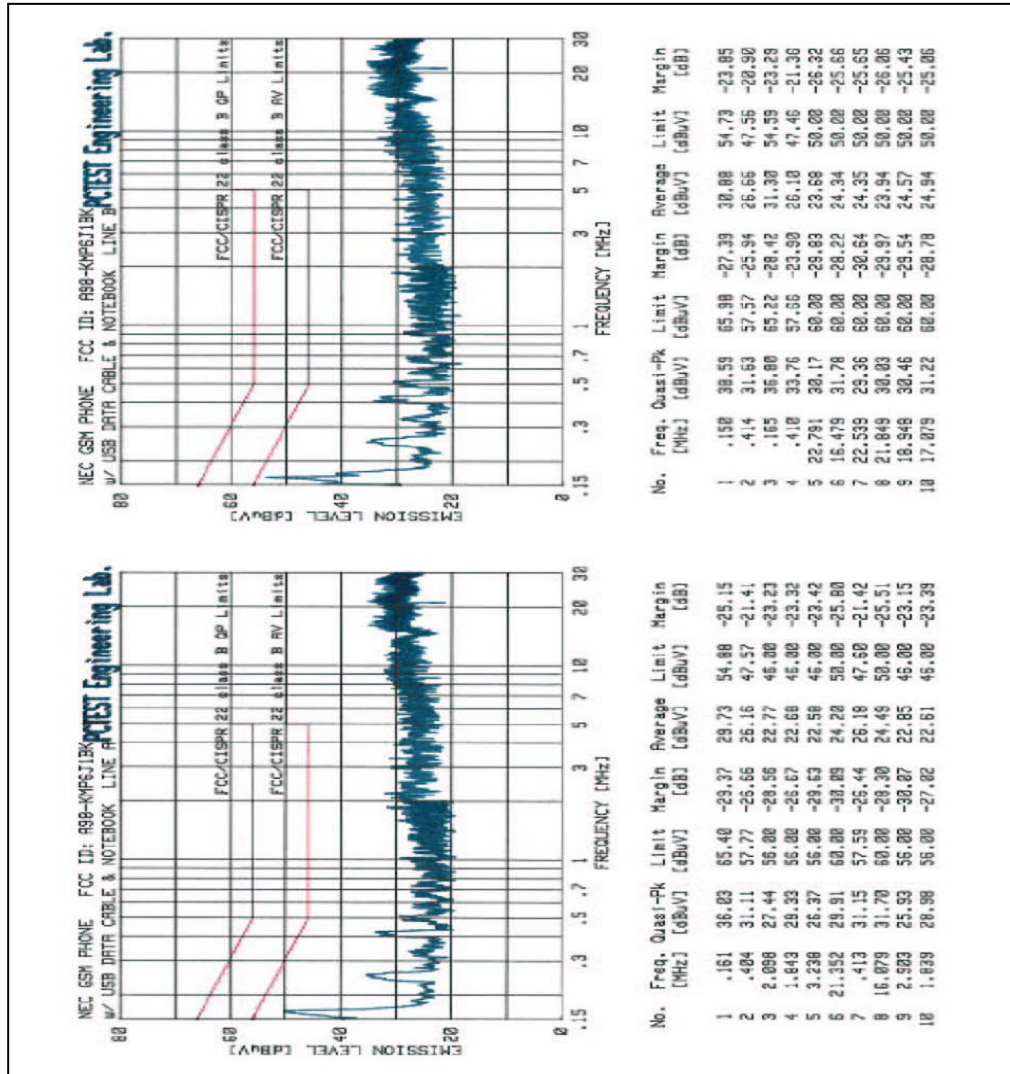
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- 1 All readings are calibrated by HP8640B signal generator with accuracy traceable to the National Institute of Standards and Technology (NIST).
 - 2 AFCL = Antenna Factor (Roberts dipole) and Cable Loss (30 ft. RG58C/U).
 - 3 Measurements using CISPR 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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ATTACHMENT D – Test Data (Cont.)


Line-Conducted Test Data

Plot D-1. Line-Conducted Test Plot



Notes:

- All Modes of operation were investigated and the worst-case emissions are reported.
- The limit for Class B device(s) from 150kHz to 30MHz are specified in EN55022.
- Line A = Phase; Line B = Neutral
- Deviations to the Specifications: *None.*



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ATTACHMENT D – Test Data (Cont.)

Test Support Equipment Used

| | | | |
|---|---|---|--|
| 1 | NEC PCS GSM Phone with BlueTooth w/ USB Data Link Cable | FCC ID: A98-KMP6J1BK 0.78m Shielded Cable | IMEI: 00440104009497 |
| 2 | Panasonic Toughbook w/ Panasonic AC Adapter | FCC ID: ACJ9TGCF-731 Model: CF-AA1653A 2.0m Unshielded AC power cord | S/N: 3CKYA00035 S/N: 1653AM305104416C |
| 3 | Zoom Modem | FCC ID: BDNV34MINI-EXT 1.8m Unshielded DC power cord 1.2m Shielded serial cable | S/N: 3117M4X40211 |

Note: See Attachment G – Test Setup Photographs, for actual system test setup.

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