

EMC TEST REPORT Kyocera Wireless Corp. PCS Handset

Model: K325 RADIATED EMISSIONS

FCC, PART 2.1053 FCC, PART 24 SUBPART E

TEST REPORT # 2006 070602 K325 PART24

26-602-KYO

NEMKO USA, INC. 11696 SORRENTO VALLEY ROAD SUITE F SAN DIEGO, CA 92121 PHONE: 858-755-5525

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EMC Test Report

For

Kyocera Wireless Corp.

| Test Number | : 26-602-KYO |
|--------------|---------------|
| Product Name | : PCS Handset |

Regulation : FCC, Part 24, Subpart E

Date Report Reviewed Accepted by:

: JULY 14, 2006

Kyocera Wireless Corp. 10300 Campus Point Drive San Diego, CA 92121 Phone: 858-882-3585

Mihel 7. 2 il

Report Issued By:

Michael T. Krumweide, EMC Supervisor

ul Cu

Tested By:

Ferdinand Costudio, EMC Test Engineer

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Administrative Data

| Regulation: | FCC, Part 24, Subpart E |
|-------------|---------------------------|
| Regulation. | 1 CC, 1 art 24, Subpart D |

| Test Method: | ANSI C63.4 – 2003 |
|--------------|-------------------|
| | TIA/EIA 603B |

| Test Type: | Certification |
|---------------------|--|
| Manufacturer: | Kyocera Wireless Corp. |
| EUT Type: | PCS Handset |
| Model #: | K325 |
| Date(s) of Test: | July 11, 2006 to July 13, 2006 |
| Customer Personnel: | Thuy, To |
| Nemko Personnel: | Ferdinand Costudio, EMC Test Engineer |
| Test Location: | OPEN Area Test Site Nemko USA, Inc. |
| | 11696 Sorrento Valley Road, Suite F |
| | San Diego, CA 92121 |

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EUT Description

The K325 is a PCS Handset. Its function is to provide communication for mobile phone users. The EUT was exercised in PCS transmit mode on High, Middle, and Low channels for transmit harmonics emissions.

| DEVICE | MANUFACTURER MODEL # SERIAL # | POWER CABLE |
|-------------------|---|-------------|
| EUT - PCS Handset | Kyocera Wireless Corp. Model: K325 SN: F0000007605597 | N/A |

| CONNECTION | I/O CABLE |
|------------|-----------|
| None | |

REASON FOR TEST

The EUT was tested to qualify for FCC Part 24.

CHANGES MADE DURING TEST

The following design modifications were made to the EUT during testing.

No design modifications were made to the EUT during testing.

DEVIATIONS FROM STANDARD TEST METHOD

None

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CERTIFICATION AND TEST SUMMARY

| Test Type | In Accordance with | Frequency Range | EUT |
|-----------------------------------|-------------------------|------------------|----------|
| | Document | Investigated | Complies |
| Radiated Spurious Emissions | FCC, Part 24, Subpart E | 1800 – 21000 MHz | PASS |

The PCS Handset complied with FCC Part 24 when tested in the system configuration defined herein.

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DESCRIPTION OF TEST SITE AND EQUIPMENT

Description of Test Site

The test site is located at 11696 Sorrento Valley Road, Suite F, San Diego, CA 92121. The site is physically located 18 miles Northwest of downtown San Diego. The general area is a valley 1.5 miles east of the Pacific Ocean. This particular part of the valley tends to minimize ambient levels, i.e. radio and TV broadcast stations and land mobile communications. The three and ten-meter Open Area Test Site (OATS) is located behind the office/lab building. It conforms to the normalized site attenuation limits and construction specifications as set in the EN 55022: 1998/A1: 2000/A2: 2003, CISPR 16: 2003 and ANSI C63.4: 2003 documents. The OATS normalized site attenuation characteristics are verified for compliance every year. The facility is NAVLAP accredited.

1. DESCRIPTION OF TESTING METHODS

1.1. Introduction

As required in 47 CFR, Parts 2 and 15, the methods employed to test the radiated and conducted emissions (as applicable) of the EUT are those contained within the American National Standards Institute document ANSI C63.4: 2003, titled "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz." All applicable FCC Rule Sections that provide further guidance for performance of such testing are also observed.

For General Test Configuration please refer to Figure 1 on the following page.

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1.2. Configuration and Methods of Measurements for Radiated Emissions

Section 8 of ANSI C63.4 determines the general configuration and procedures for measuring the radiated emissions of equipment under test. Initially, the primary emission frequencies are identified inside the test lab by positioning a broadband receive antenna one meter from the EUT to locate frequencies of significant radiation. Next, the EUT and associated system are placed on a turntable on a ten meter open area test site (registered with the FCC in accord with its Rules and ANSI C63.4) and the receive antenna is located at a distance of three meters from the EUT.

The EUT and associated system are configured to operate continuously, representing a "normally operating" mode. All significant radiated emissions are recorded when maximum radiation on each frequency is observed, in accordance with part 8 of ANSI C63.4 and Section 15.33 of the FCC Rules. To ensure that the maximum emission at each discrete frequency of interest is observed, the receive antenna is varied in height from one to four meters and rotated to horizontal and vertical polarities, and the turntable is also rotated to determine the worst emitting configuration. The numerical results of the test are included herein to demonstrate compliance.

The numerical results that are applied to the emissions limits are arrived at by the following method:

Example: A=RR+CL+AF A = Amplitude dBuV/M RR = Receiver Reading dBuV CL = cable loss dB AF = antenna factor dBm-1 Example Frequency = 110MHz 18.5 dBuV (spectrum analyzer reading) +3.0 dB (cable loss @ frequency) 21.5 dBuV +15.4 dBm-1 (antenna factor @ frequency)

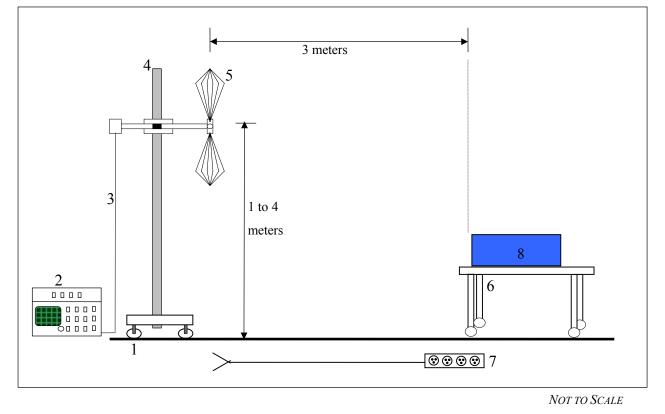
36.9 dBuV/M Final adjusted value

The final adjusted value is then compared to the appropriate emission limit to determine compliance.

For Radiated Emissions Test Configuration please refer to Figure 2 on the following page.

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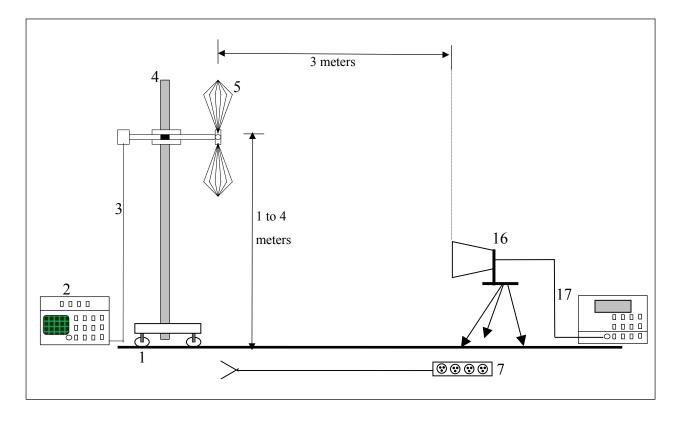
CONFIGURATION LEGEND

- 1. Ground plane (11 X 17 meters)
- 2. Spectrum Analyzer with Quasi-Peak Adapter
- 3. Coax interconnect from Receive Antenna to Spectrum Analyzer
- 4. Antenna Mast with motorized mounting assembly
- 5. Receive Antenna (basic relative position)
- 6. Non-Conducting table 80 cm above ground plane
- 7. AC power for devices
- 8. EUT: PCS Handset

Radiated emissions were measured on three orthogonal axes. Only the maximum emissions of the three axes are stated in this report.

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| Figure 2. | Substitution | Method Tes | st Setup | Diagram |
|-----------|--------------|------------|----------|---------|
|-----------|--------------|------------|----------|---------|



NOT TO SCALE

CONFIGURATION LEGEND

- 9. Ground plane (11 X 17 meters)
- 10. Spectrum Analyzer with Quasi-Peak Adapter
- 11. Coax interconnect from Receive Antenna to Spectrum Analyzer
- 12. Antenna Mast with motorized mounting assembly
- 13. Receive Antenna (basic relative position)
- 14. Non-Conducting table 80 cm above ground plane
- 15. AC power for devices
- 16. Radiating Antenna
- 17. Signal Generator

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2. Test Results

2.1 Radiated Emissions Test Data

FCC Part 2, 22 & 24 Emissions Substitution

1) Methodology Used: TIA/EIA603 (see attached excerpt).

2) The Substitution Method is used for fundamental power levels and spurious emissions when RF emission signals are measured within 20 dB of the limit.

3) Formula Used to calculate the values:

a) Measured value + antenna factor + cable loss - preamplifier = Max Level
b) Margin = Max level - Limit
c) Signal Generator power level - cable loss + antenna gain = ERP Part 22 or EIRP Part 24
d) Substituted Margin = ERP (or EIRP) - Limit *Note: gain for dipole = 0; antenna factor is not the same as antenna gain*

Note: The signal generator power level is the power required when transmitting into the substituting antenna to duplicate the Measured Value. Substituted margin is reported in 731 forms pertaining to certification grants and Class II Permissive Changes when a direct conducted power reading cannot be performed.

Note: Per FCC Part 2:1051 the FCC does not require reporting of Spurious Emissions when they are more than 20dB below the permissible limit, therefore no signal substitution measurements will be performed on these signals.

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| | | | | F | Radiated Emissio | ns Data | | | | |
|-------------------------------|----------|--------------|--------------|--------------------------------|--------------------|---------------|----------|---------|--------------|--------------------------------|
| | | | | | | | Job # : | | -KYO 1 | |
| Client Name |): | Kyocera-Wir | eless | | | | | - | | |
| EUT Name | : | Cellular Pho | ne | | | | | | | |
| EUT Model | | K325 | | | | | | | | |
| EUT Serial # | | F00000760 | | | | | | | | |
| EUT Config | | PCS TX Har | monics | | | | | | | |
| | | Open | | | | | Deferre | | | |
| Specificatior Rod. Ant. #: | 1: | FCC Part 24 | | Tamp (°C) : | 10 | | Refere | nce : | Data | 07/10/06 |
| Rod. Ant. #: Bicon Ant.#: | | | | Temp. (°C) : Humidity (%) : | <u>18</u> 93 | | | | Date : | 07/12/06 Ferdinand Custodio |
| Log Ant.#: | | | | EUT Voltage : | <u>93</u> | | P | eak Bar | | 1 MHz |
| DRG Ant. # | | 877 | | EUT Frequency | | | | | | 1 MHz |
| Dipole Ant.# | | | | Phase: | NA NA | | • | | | |
| Cable#: | | 40ft | | Location: | RN # 329550-0 | 1 | | | | |
| Preamp#: | | 842 | | Distance: | 3m | | | | | |
| Spec An.#: | | 835 | | EIRP conversio | n factor 5.5 | | | | | |
| | | | . <u> </u> | | | | | | 1 | ľ |
| Meas. | Vertical | Horizontal | | Max Level | Spec. Limit (ERIP) | Margin | EUT | Ant. | Pass | |
| Freq. | (dBuV) | (dBuV) | CF (db) | (dBm) | (dBm) | dB | Rotation | Height | Fail | Commont. |
| (MHz) | pk | pk | | pk | pk | pk | | | Unc. | Comment Maximum of 3 Axes |
| | | | | | | | | | | Maximum of 3 Axes |
| 3702.50 | 72.8 | 72.9 | -9.5 | -31.9 | -13.0 | -18.9 | | 1.7 | Pass | * |
| 5553.75 | 74.8 | 75.1 | -0.9 | -21.0 | -13.0 | -8.0 | | 1.2 | Pass | * |
| 7405.00 | 63.6 | 61.7 | 3.9 | -27.8 | -13.0 | -14.8 | | 1.5 | Pass | * |
| 9256.25 | 60.8 | 61.8 | 9.2 | -24.3 | -13.0 | -11.3 | | 1.4 | Pass | * |
| 11107.50 | 48.6 | 46.9 | 14.8 | -31.9 | -13.0 | -18.9 | | 1.3 | Pass | * |
| 12958.75 | 44.1 | 43.6 | 17.6 | -33.5 | -13.0 | -20.5 | | 1.6 | Pass | * |
| 14810.00 | | | 20.7 | | -13.0 | | | | | NF |
| 16661.25 | | | 25.4 | | -13.0 | | | | | NF |
| 18512.50 | | | 37.8 | | -13.0 | | | | | NF |
| 20363.75 | | | 38.5 | | -13.0 | | _ | | | NF |
| 3760.00 | 76.9 | 74.8 | -9.5 | -27.9 | -13.0 | -14.9 | | 1.0 | Pass | * |
| 5640.00 | 76.9 | 68.9 | -9.5 | -27.9 | -13.0 | -14.9 | | 1.0 | Pass | * |
| 7520.00 | 62.4 | 60.8 | 4.1 | -23.0 | -13.0 | -10.0 | | 1.2 | Pass | * |
| 9400.00 | 53.7 | 55.2 | 9.2 | -30.9 | -13.0 | -17.9 | | 1.0 | Pass | * |
| 11280.00 | 39.1 | 44.6 | 14.8 | -35.9 | -13.0 | -22.9 | | 1.1 | Pass | * |
| 13160.00 | | | 20.5 | | -13.0 | | | | | NF |
| 15040.00 | | | 21.3 | | -13.0 | | | | | NF |
| 16920.00 | | | 25.4 | | -13.0 | | | | | NF |
| 18800.00 | | ļ | 37.9 | | -13.0 | | | | | NF |
| 20680 | | ļ | 38.6 | | -13.0 | | | | | NF |
| 3817.50 | 76.7 | 76.3 | -9.5 | -28.1 | -13.0 | -15.1 | | 1.2 | Paga | * |
| 5726.25 | 76.7 | 76.3 | -9.5 -0.9 | -28.1 | -13.0 | -15.1 -8.2 | | 1.2 | Pass Pass | * |
| 7635.00 | 59.3 | 58.3 | 4.1 | -21.2 | -13.0 | -0.2 | | 1.0 | Pass | * |
| 9543.75 | 48.9 | 51.9 | 9.4 | -31.9 | -13.0 | -18.9 | | 1.3 | Pass | * |
| 11452.50 | 47.6 | 48.7 | 14.8 | -31.8 | -13.0 | -18.8 | | 1.2 | Pass | * |
| 13361.25 | | | 20.5 | | -13.0 | | | | | NF |
| 15270.00 | | | 21.3 | | -13.0 | | | | | NF |
| 17178.75 | | | 30.8 | | -13.0 | | | | | NF |
| 19087.50 | | | 38.0 | | -13.0 | | | | | NF |
| 20996.25 | | | 39.1 | | -13.0 | | | | | NF |

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| | | | | I | Radiated Emissi | ons Data | | | | |
|-----------------------------|--------------|--------------------|--------------|-----------------------|--------------------|----------------|----------|------------|--------------|--------------------|
| | | | | | | | Job # : | | | |
| | | | | | | | | Page | | of1 |
| Client Name | | Kyocera-Wir | | | | | | | | |
| EUT Name | | Cellular Pho | ne | | | | | | | |
| EUT Model | | K325 F000000760 | 5507 | | | | | | | |
| EUT Serial # EUT Config. | | PCS TX Har | | | | | | | | |
| COT COTING. | | Closed | monics | | | | | | | |
| Specification | . . | FCC Part 24 | | | | | Refere | nce · | | |
| Rod. Ant. #: | | | | Temp. (°C) : | 18 | | | | Date : | 07/12/06 |
| Bicon Ant.#: | | | | Humidity (%) : | 93 | | | | | Ferdinand Custodio |
| _og Ant.#: | | | | EUT Voltage : | NA | | P | eak Ban | | 1 MHz |
| DRG Ant. # | | 877 | | EUT Frequency | /: NA | | Vi | ideo Bar | ndwidth | 1 MHz |
| Dipole Ant.# | ŧ | | | Phase: | NA | | | | | |
| Cable#: | | 40ft | | Location: | RN # 329550- | 01 | | | | |
| Preamp#: | | 842 | | Distance: | <u>3m</u> | | | | | |
| Spec An.#: | | 835 | | EIRP conversio | n factor 5.5 | | | | | |
| Max | Martin | line (1 | , | March | | NA : | | A 1 | . D. | |
| Meas. | Vertical | Horizontal | | Max Level | Spec. Limit (ERIP) | Margin | EUT | Ant. | Pass | |
| Freq. (MHz) | (dBuV) pk | (dBuV) pk | CF (db) | (dBm) pk | (dBm) pk | dB pk | Rotation | Height | Fail Unc. | Comment |
| (11112) | рк | pix | + + | pk | μ | рк | | | One. | Maximum of 3 Axes |
| | | | | | | | | | | |
| 3702.50 | 73.8 | 71.4 | -9.5 | -31.0 | -13.0 | -18.0 | | 1.0 | Pass | * |
| 5553.75 | 70.9 | 73.3 | -0.9 | -22.8 | -13.0 | -9.8 | | 1.0 | Pass | * |
| 7405.00 | 67.0 | 68.2 | 3.9 | -23.2 | -13.0 | -10.2 | | 1.1 | Pass | * |
| 9256.25 | 61.8 | 65.9 | 9.2 | -20.2 | -13.0 | -7.2 | | 1.2 | Pass | * |
| 11107.50 | 56.9 | 56.3 | 14.8 | -23.6 | -13.0 | -10.6 | | 1.2 | Pass | * |
| 12958.75 | 47.8 | 45.3 | 17.6 | -29.8 | -13.0 | -16.8 | | 1.0 | Pass | * |
| 14810.00 | | | 20.7 | | -13.0 | | | | | NF |
| 16661.25 | | | 25.4 | | -13.0 | | | | | NF |
| 18512.50 | | | 37.8 | | -13.0 | | | | | NF |
| 20363.75 | | | 38.5 | | -13.0 | | | | | NF |
| 0700.00 | 74.4 | 70.0 | 0.5 | 24.0 | 40.0 | 40.0 | _ | 10 | Deee | * |
| 3760.00 | 71.4 | 72.9 | -9.5 | -31.9 | -13.0 | -18.9 | _ | 1.3 | Pass | * |
| 5640.00 7520.00 | 69.0 57.8 | 71.3 55.4 | -0.9 4.1 | <u>-24.8</u> -33.4 | -13.0 -13.0 | -11.8 -20.4 | | 1.0 1.0 | Pass Pass | * |
| 9400.00 | 52.2 | 53.1 | 9.2 | -33.0 | -13.0 | -20.4 | | 1.0 | Pass | * |
| 11280.00 | 02.2 | 00.1 | 14.8 | 00.0 | -13.0 | 20.0 | | 1.0 | 1 433 | NF |
| 13160.00 | | | 20.5 | | -13.0 | | | | | NF |
| 15040.00 | | | 21.3 | | -13.0 | | | | | NF |
| 16920.00 | | | 25.4 | | -13.0 | | | | | NF |
| 18800.00 | | | 37.9 | | -13.0 | | | | | NF |
| 20680 | | | 38.6 | | -13.0 | | | | | NF |
| | | | | | 16.5 | | | | | |
| 3817.50 | 71.5 | 73.3 | -9.5 | -31.5 | -13.0 | -18.5 | | 1.2 | Pass | * |
| 5726.25 | 71.8 | 73.9 | -0.9 | -22.2 | -13.0 | -9.2 | | 1.1 | Pass | * |
| 7635.00 | 59.3 | 58.3 | 4.1 | -31.9 | -13.0 | -18.9 | | 1.3 | Pass | ^ + |
| 9543.75 | 50.5 | 52.2 | 9.4 | -33.7 | -13.0 | -20.7 | | 1.3 | Pass | * |
| 11452.50 13361.25 | 53.6 | 51.5 | 14.8 20.5 | -26.9 | -13.0 -13.0 | -13.9 | | 1.0 | Pass | ^ NF |
| 15270.00 | | | | | -13.0 -13.0 | | | | | NF |
| 15270.00 | | | 21.3 30.8 | | -13.0 -13.0 | | | | | NF |
| 19087.50 | | | 38.0 | | -13.0 | | | | | NF |
| 20996.25 | | | 38.0 | | -13.0 | | | | | NF |
| _0000.20 | | NF = N | | | | | | | | l |

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Substitution Method Test Data

| Substitution Method For Radiated Emissions | | | | | | | | | |
|--|-------------------------|--|---|----------------------------|--|-------------------|---|--------------------------|--------|
| Complete Preliminary | 1 | Yes | | | Job # : | 2 Page | 6-602-KYO 1 | Test # : of | 3 1 |
| Client Nam EUT Name EUT Mode EUT Part # EUT Serial EUT Config |); #: :: #: | Kyocera W PCS Cellul K325 F00000076 Sustitution | ar Phone | 0. | | | | | |
| Specification Rod. Ant. # Bicon Ant.# Log Ant.# DRG Ant. # Dipole Ant. Cable#: Preamp#: Spec An.# QP #: PreSelect# | t: ≠: ≠: | FCC Part 2 NA NA 877 NA 40ft 842 NA NA NA NA | 4 Temp. (dea Humidity (⁵ EUT Voltag EUT Frequ Phase: Location: Distance: | %) : ge : lency : | 21 76 NA NA NA N# 329550- 3m | | Reference Date : Time : Staff : Photo ID: Bandwidth: | 7/14/2006 M. Krumweid | |
| | | | <u>Part 24</u> | Substitu | ition | | | | |
| Tai Frequency mHz | rget Level dBuV/m | Horn Gain dBi | Cable loss dB | Signal Generator dBm | Total (EIRP) dBm | Spec dBm | Margin dBm | | |
| 3702.50 3760.00 3817.00 | 73.8 76.9 76.7 | 7.94 7.95 7.96 | 7 7.3 7.2 | -32.00 -28.40 -29.40 | -31.06 -27.75 -28.64 | -13 -13 -13 | -18.1 -14.8 -15.6 | | |
| 5553.75 5640.00 5726.25 | 73.1 | 9.27 9.29 9.32 | 8.7 9.1 9.2 | -27.10 -30.60 -26.90 | -26.53 -30.41 -26.78 | -13 -13 -13 | -13.5 -17.4 -13.8 | | |
| 7405.00 7520.00 7635.00 | 62.4 | 10.4 10.21 10.28 | 10.40 11 11.1 | -30.50 -30.50 -32.80 | -30.50 -31.29 -33.62 | -13 -13 -13 | -17.5 -18.3 -20.6 | | |
| 9256.25 9400.00 | 65.9 55.2 | 11.96 12.10 | 12.1 12.8 | -26.70 -32.48 | -26.84 -33.18 | -13 -13 | -13.8 -20.2 | | |
| 11107.50 11452.00 | | 10.56 12.46 | 13.6 14.1 | -37.20 -37.20 30.62 | -40.24 -38.84 34.19 | -13 -13 | -27.2 -25.8 | | |
| 12958.00 | 47.8 | 11.6294 | 15.2 | -30.62 | -34.19 | -13 | -21.2 | | |

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RADIATED EMISSIONS AND SUBSTITUTION METHOD

TEST EQUIPMENT

| Client | Kyocera Wireless Corp. | EUT Nam | e PCS Hands | CS Handset | | |
|-----------------------------|---------------------------|---------|-------------|------------|---------------------|--|
| PAN # | 26-602-KYO | EUT Mod | el K325 | | | |
| Device T | lype | Model # | Asset # | Cal Done | Cal Due | |
| Pre-Am | plifier | | | | | |
| High-Frequency | | Nemko | 842 | 5/12/06 | 5/12/07 | |
| Antenn | a | | | | | |
| Antenna, | Ridged Guide | 3115 | 877 | 6/20/06 | 6/20/07 | |
| Antenna, Ridged Guide | | 3115 | 529 | 4/13/05 | 7/14/06 Verified | |
| Spectru | m Analyzer / Recei | iver | | | | |
| Spectrum Analyzer, Agilent | | E4440A | 911 | 6/4/06 | 6/7/07 | |
| Signal Generator, Agilent E | | E8254A | 836 | 12/5/05 | 12/5/06 | |

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APPENDIX A

A. Radiated Emissions Measurement Uncertainties

1. Introduction

ISO/IEC 17025:1999 and ANSI/NCSL Z540-1-1994 require that all measurements contained in a test report be "traceable". "Traceability" is defined in the *International Vocabulary of Basic and General Terms in Metrology* (ISO: 1993) as: "the property of the result of a measurement... whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons, *all having stated uncertainties*".

The purposes of this Appendix are to "state the *Measurement Uncertainties*" of the conducted emissions and radiated emissions measurements contained in Section 5 of this Test Report, and to provide a practical explanation of the meaning of these measurement uncertainties.

2. Statement of the Worst-Case Measurement Uncertainties for the Conducted and Radiated Emissions Measurements Contained in This Test Report

| Radiated Emissions Measurement Detection Systems | Applicable | "U" for a k=2 | |
|--|------------------|------------------------|--|
| | Frequency Range | Coverage Factor | |
| HP8568B Spectrum Analyzer with QPA & HP8447F Preamplifier | 30 MHz - 200 MHz | +4.0 dB, -4.1 dB | |
| HP8568B Spectrum Analyzer with QPA & HP8447F Preamplifier | 200 MHz-1000 MHz | +/- 3.5 dB | |
| HP8566B Spectrum Analyzer with QPA & Preselector | 30 MHz - 200 MHz | +3.9 dB, -4.0 dB | |
| HP8566B Spectrum Analyzer with QPA & Preselector | 200 MHz-1000 MHz | +/- 3.4 dB | |
| HP8566B Spectrum Analyzer with QPA & HP 8449A Preamplifier | 1 GHz - 18 GHz | +2.5 dB, -2.6 dB | |
| HP8566B Spectrum Analyzer with QPA & HP8449A Preamplifier | 18 GHz - 40 GHz | +/- 3.4 dB | |
| NOTES: | | | |

 Table 1: Worst-Case Expanded Uncertainty "U" of Measurement for a k=2 Coverage Factor

1. Applies to 3 and 10 meter measurement distances

2. Applies to all valid combinations of Transducers (i.e. LISNs, Line Voltage Probes, and Antennas, as appropriate)

3. Excludes the Repeatability of the EUT

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3. Practical Explanation of the Meaning of Radiated Emissions Measurement Uncertainties

In general, a "Statement of Measurement Uncertainty" means that with a certain (specified) confidence level, the "true" value of a measurand will be between a (stated) upper bound and a (stated) lower bound.

In the specific case of EMC Measurements in this test report, the measurement uncertainties of the conducted emissions measurements and the radiated emissions measurements have been calculated in accordance with the method detailed in the following documents:

- ANSI Z540.2 (2002) Guide to the Expression of Uncertainty in Measurement
- NIS 81:1994, The Treatment of Uncertainty in EMC Measurements (NAMAS, 1994)
- NIST Technical Note 1297(1994), Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results (NIST, 1994)

The calculation method used in these documents requires that the stated uncertainty of the measurements be expressed as *an "expanded uncertainty"*, *U*, with a k=2 coverage factor. The practical interpretation of this method of expressing measurement uncertainty is shown in the following example:

EXAMPLE: Assume that at 39.51 MHz, the (measured) radiated emissions level was equal to +26.5 dBuV/m, and that the +/-2 standard deviations (i.e. 95% confidence level) measurement uncertainty was +/-3.4 dB.

In the example above, the phrase "k = 2 Coverage Factor" simply means that the measurement uncertainty is stated to cover \pm -2 standard deviations (i.e. a 95% confidence interval) about the measurand. The measurand is the radiated emissions measurement of \pm 26.5 dBuV/m at 39.51 MHz, and the 95% bounds for the uncertainty are -3.4 dB to \pm 3.4 dB. One can thus be 95% confident that the "true" value of the radiated emissions measurement is between \pm 23.1 dBuV/m and \pm 29.5 dBuV/m. *In effect, this means that in the above example there is only a 2.5% chance that the "true" radiated emissions value exceeds* \pm 29.5 dBuV/m.

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APPENDIX B

B. Nemko USA, Inc. Test Equipment & Facilities Calibration Program

Nemko USA, Inc. operates a comprehensive Periodic Calibration Program in order to ensure the validity of all test data. Nemko USA's Periodic Calibration Program is fully compliant to the requirements of NVLAP Policy Guide PG-1-1988, ANSI/NCSL Z540-1-1994, ISO 10012: 2003, ISO/IEC 17025:1999, and ISO-9000: 2000. Nemko USA, Inc.'s calibrations program therefore meets or exceeds the US national commercial and military requirements [N.B. ANSI/NCSL Z540-1-1994 replaces MIL-STD-45662A].

Specifically, all of Nemko USA's *primary reference standard devices* (e.g. vector voltmeters, multimeters, attenuators and terminations, RF power meters and their detector heads, oscilloscope mainframes and plug-ins, spectrum analyzers, RF preselectors, quasi-peak adapters, interference analyzers, impulse generators, signal generators and pulse/function generators, field-strength meters and their detector heads, etc.) and certain *secondary standard devices* (e.g. RF Preamplifiers used in CISPR 11/22 and FCC Part 15/18 tests) are periodically recalibrated by:

- A Nemko USA-approved independent (third party) metrology laboratory that uses NISTtraceable standards and that is ISO Guide 25-accredited as a calibration laboratories by NIST; or,
- A Nemko USA-approved independent (third party) metrology laboratory that uses NISTtraceable standards and that is ISO Guide 25-accredited as a calibration laboratory by another accreditation body (such as A2LA) that is mutually recognized by NIST; or,
- A manufacturer of Measurement and Test Equipment (M&TE), if the manufacturer uses NISTtraceable standards and is ISO Guide 25-accredited as calibration laboratory either by NIST or by another accreditation body (such as A2LA) that is mutually recognized by NIST; or
- A manufacturer of M&TE (or by a Nemko USA-approved independent third party metrology laboratory) that is not ISO Guide 25-accredited. (In these cases, Nemko USA conducts an annual audit of the manufacturer or metrology laboratory for the purposes of proving traceability to NIST, ensuring that adequate and repeatable calibration procedures are being applied, and verifying conformity with the other requirements of ISO Guide 25).

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In all cases, the entity performing the Calibration is required to furnish Nemko USA with a calibration test report and/or certificate of calibration, and a "calibration sticker" on each item of M&TE that is successfully calibrated.

Calibration intervals are normally one year, except when the manufacture advises a shorter interval (e.g. the HP 8568B Spectrum Analyzer is recalibrated every six months) or if US Government directives or client requirements demand a shorter interval. Items of instrumentation/related equipment which fail during routine use, or which suffer visible mechanical damage (during use or while in transit), are sidelined pending repair and recalibration. (Repairs are carried out either in-house [if minor] or by a Nemko USA-approved independent [third party] metrology laboratory, or by the manufacturer of the item of M&TE).

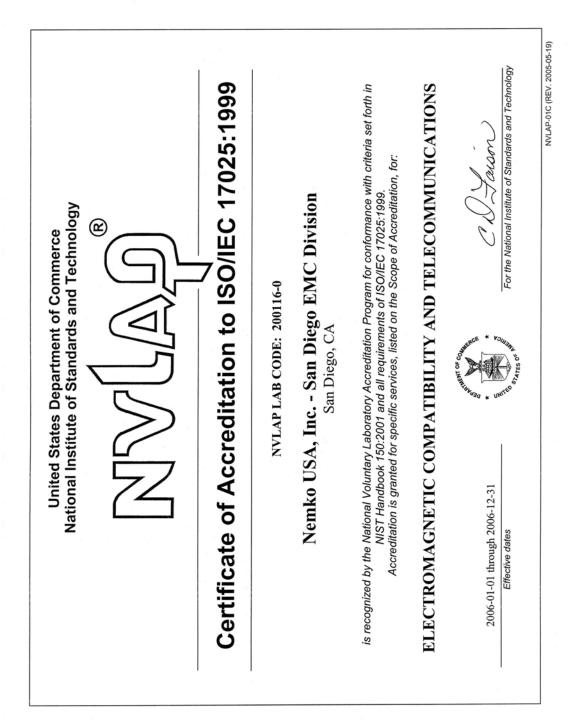
Each antenna used for CISPR 11 and CISPR 22 and FCC Part 15 and Part 18 radiated emissions testing (and for testing to the equivalent European Norms) is calibrated annually by either a NIST (or A2LA) ISO Standard 17025-Accredited third-party Antenna Calibration Laboratory or by the antenna's OEM if the OEM is NIST or A2LA ISO Standard 17025-accredited as an antenna calibration laboratory. The antenna calibrations are performed using the methods specified in Annex G.5 of CISPR 16-1(2003) or ANSI C63.5-2004, including the "Three-Antenna Method". Certain other kinds of antennas (e.g. magnetic-shielded loop antennas) are calibrated annually by either a NIST (or A2LA) ISO Standard 17025-accredited third-party antenna calibration laboratory, or by the antenna's OEM if the OEM is NIST or A2LA ISO Standard 17025-accredited as an antenna calibration laboratory antenna calibration laboratory, or by the antenna's OEM if the OEM is NIST or A2LA ISO Standard 17025-accredited as an antenna calibration laboratory using the procedures specified in the latest version of SAE ARP-958.

In accordance with FCC and other regulations, Nemko USA recalibrates its suite of antennas used for radiated emissions tests on an annual basis. These calibrations are performed as a precursor to the FCC-required annual revalidation of the Normalized Site Attenuation properties of Nemko USA's Open Area Test Site. Nemko USA, Inc. uses the procedures given in both Sub clause 16.6 and Annex G.2 of CISPR 16-1 (2003), and, ANSI C63.4-2003 when performing the normalized site attenuation measurements.

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APPENDIX C

C. NVLAP Accreditation / Nemko Authorization



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SCOPE OF ACCREDITATION TO ISO/IEC 17025:1999

Nemko USA, Inc. - San Diego EMC Division 11696 Sorrento Valley Road, Suite F San Diego, CA 92121 Ms. Rhonda Saxon Phone: 858-755-5525 x226 Fax: 858-793-9914 E-Mail: rhonda.saxon@nemko.com URL: http://www.nemko.com

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

Designation / Description

NVLAP Code

NVLAP LAB CODE 200116-0

Emissions Test Methods: CISPR 14-1 (March 30, 2000): Limits and Methods of Measurement of Radio interference 12/CIS14 Characteristics of Household Electrical Appliances, Portable Tools and Similiar Electrical Apparatus - Part 1: Emissions 12/CIS14a EN 55014-1 (1993), A1 (1997), A2 (1999): 12/CIS14b AS/NZS 1044 (1995): CNS 13783-1: Electromagnetic Compatibility Requirements for household appliances, 12/CIS14c electric tools and similar apparatus - Part 1: Emissions 12/CIS15b CNS 13439 (2000) + A1 (2001): Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment 12/CIS22 IEC/CISPR 22 (1997) & EN 55022 (1998) + A1(2000): Limits and methods of measurement of radio disturbance characteristics of information technology equipment 12/CIS22a IEC/CISPR 22 (1993) and EN 55022 (1994): Limits and methods of measurement of radio disturbance characteristics of information technology equipment, Amendment 1 (1995) and Amendment 2 (1996) 12/CIS22b CNS 13438 (1997): Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment

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|------------------------|--|--|--|
| 12/EM02a | IEC 61000-3-2, Edition 2.1 (2001-10), EN 61000-3-2 (2000), and AS/NZS 2279.1 (2000): Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A) | | |
| 12/EM03b | IEC 61000-3-3, Edition 1.1(2002-03) & EN 61000-3-3, A1(2001): EMC - Part 3-3: Limits - Limitations of voltage changes, voltage flucuations and flicker, in public low-voltage supply-systems, for equipment with rated current <=16 A per phase and not subject to conditional connections | | |
| 12/F18 | FCC OST/MP-5 (1986): FCC Methods of Measurement of Radio Noise Emissions for ISM Equipment (cited in FCC Method 47 CFR Part 18 - Industrial, Scientific, and Medical Equipment) | | |
| 12/T51a | AS/NZS CISPR 22 (2004): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement | | |
| Immunity Test Methods: | | | |
| 12/I01 | IEC 61000-4-2, Ed. 1.2 (2001) + A1, A2; EN 61000-4-2: Electrostatic Discharge Immunity Test | | |
| 12/I02 | IEC 61000-4-3, Ed. 2.0 (2002-03); EN 61000-4-3 (2002): Radiated Radio-Frequency Electromagnetic Field Immunity Test | | |
| 12/I03 | IEC 61000-4-4(1995), A1(2000), A2(2001); EN 61000-4-4: Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical Fast Transient/Burst Immunity Test | | |
| 12/I04 | IEC 61000-4-5, Ed. 1.1 (2001-04); EN 61000-4-5: Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test | | |
| 12/I05 | IEC 61000-4-6, Ed. 2.0 (2003-05); EN 61000-4-6: Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields | | |
| 12/I06 | IEC 61000-4-8, Ed. 1.1 (2001); EN 61000-4-8: Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test | | |
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|---|---|--|
| 12/I07 | IEC 61000-4-11, Ed. 1.1 (2001-03); EN 61000-4-11: Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests | |
| MIL-STD-462: | Conducted Emissions: | |
| 12/A13 | MIL-STD-462 Version D Method CE101 | |
| 12/A14 | MIL-STD-462 Version D Method CE102 | |
| 12/A15 | MIL-STD-462 Version D Method CE106 | |
| 12/A16 | MIL-STD-461 Version E Method CE101 | |
| 12/A17 | MIL-STD-461 Version E Method CE102 | |
| 12/A18 | MIL-STD-461 Version E Method CE106 | |
| MIL-STD-462 : Conducted Susceptibility: | | |
| 12/B12 | MIL-STD-462 Version D Method CS101 | |
| 12/B13 | MIL-STD-462 Version D Method CS103 | |
| 12/B14 | MIL-STD-462 Version D Method CS104 | |
| 12/B15 | MIL-STD-462 Version D Method CS105 | |
| 12/B16 | MIL-STD-462 Version D Method CS109 | |
| 12/B17 | MIL-STD-462 Version D Method CS114 | |
| 12/B18 | MIL-STD-462 Version D Method CS115 | |
| 12/B19 | MIL-STD-462 Version D Method CS116 | |
| 12/B20 | MIL-STD-461 Version E Method CS101 | |
| 12/B21 | MIL-STD-461 Version E Method CS103 | |
| 12/B22 | MIL-STD-461 Version E Method CS104 | |
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|--|------------------------------------|--|--|
| 12/B23 | MIL-STD-461 Version E Method CS105 | | |
| 12/B24 | MIL-STD-461 Version E Method CS109 | | |
| 12/B25 | MIL-STD-461 Version E Method CS114 | | |
| 12/B26 | MIL-STD-461 Version E Method CS115 | | |
| 12/B27 | MIL-STD-461 Version E Method CS116 | | |
| MIL-STD-462 : Radiated Emissions: | | | |
| 12/D04 | MIL-STD-462 Version D Method RE101 | | |
| 12/D05 | MIL-STD-462 Version D Method RE102 | | |
| 12/D06 | MIL-STD-462 Version D Method RE103 | | |
| 12/D07 | MIL-STD-461 Version E Method RE101 | | |
| 12/D08 | MIL-STD-461 Version E Method RE102 | | |
| 12/D09 | MIL-STD-461 Version E Method RE103 | | |
| MIL-STD-462 : Radiated Susceptibility: | | | |
| 12/E08 | MIL-STD-462 Version D Method RS101 | | |
| 12/E09 | MIL-STD-462 Version D Method RS103 | | |
| 12/E10 | MIL-STD-462 Version D Method RS105 | | |
| 12/E11 | MIL-STD-461 Version E Method RS101 | | |
| 12/E12 | MIL-STD-461 Version E Method RS103 | | |
| 12/E13 | MIL-STD-461 Version E Method RS105 | | |

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