



RF Exposure Evaluation

Kingfisher 40W 1900MHz CDMA SCPA

Product # 100.0195.001

Unity Wireless Systems Corp.

Date: May 17, 2006

Report No.: 170506.1

Labs: 19473 Fraser Way, Pitt Meadows, BC, Canada V3Y 2V4

A handwritten signature in blue ink that appears to read 'Bruce Balston'.

Bruce Balston
EMC Engineer

A handwritten signature in blue ink that appears to read 'Andrew Marles'.

Andrew Marles
EMC Coordinator

A.1 RF Exposure Evaluation

FCC 1.1310 states the criteria listed in the table below shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in Section 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of Section 2.1093 of this chapter. Further information on evaluating compliance with these limits can be found in the FCC's OST/OET Bulletin Number 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation".

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Average Time |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------|
| (A) Limits for Occupational/Control Exposures | | | | |
| 300-1500 | -- | -- | F/300 | 6 |
| 1500-100,000 | -- | -- | 5 | 6 |
| (B) Limits for General Population/Uncontrolled Exposures | | | | |
| 300-1500 | -- | -- | F/1500 | 6 |
| 1500-100,000 | -- | -- | 1 | 30 |

Test Method

The MPE for this device was calculated as a function of the output power and nominal antenna gain.

EUT Operating Condition

The maximum output power of the EUT is 46.5 dBm as tested. An antenna gain of 6 dBi is assumed.

RF exposure distance calculation

| Frequency (MHz) | Output Power to Antenna (dBm) | Antenna Gain (dBi) | r (cm) |
|-----------------|-------------------------------|--------------------|--------|
| 1931 | 46.62 | 6 | 120.60 |
| 1988 | 46.20 | 6 | 114.90 |

As shown above, the minimum distance where the MPE limit is reached is 69 cm for this EUT. Note that final MPE compliance for this device is determined at the time of licensi