

## **Certification Exhibit**

**FCC ID: WYU-CMX300CA  
IC: 9530A-CMX300CA**

**FCC Rule Part: 15.247  
IC Radio Standards Specification: RSS-210**

**ACS Project Number: 11-0007**

**Manufacturer: Orderite, Inc.  
Model: CMX300CA**

## **RF Exposure**

**General Information:**

Applicant: Orderite, Inc.  
ACS Project: 11-0007  
Device Category: Handheld  
Environment: General Population/Uncontrolled Exposure

**Technical Information for FCC ID: WYU-CMX300CA, IC: 9530A-CMX300CA (Bluetooth):**

Antenna Type: Chip Antenna  
Antenna Gain: 2dBi  
Maximum Transmitter Conducted Power: 5.26dBm  
Maximum System EIRP: 7.26dBm, 5.23mW

**Technical Information for FCC ID: WYU-CMX300CA, IC: 9530A-CMX300CA (802.11 b/g):**

Antenna Type: Chip Antenna  
Antenna Gain: 2dBi  
Maximum Transmitter Conducted Power: 15.24dBm  
Maximum System EIRP: 17.24dBm, 52.97mW

**Technical Information for FCC ID: MCQ-XBEEEXSC, IC: 1846A-XBEEEXSC (900MHz):**

Antenna Type: Wire Antenna  
Antenna Gain: 1.9dBi  
Maximum Transmitter Conducted Power: 19.97dBm  
Maximum System EIRP: 21.87dBm, 153.8mW

**Antenna Separation Distances:**

To Antenna: 802.11b/g / Bluetooth – 5.1cm  
Bluetooth / 900MHz – 8.9cm  
802.11b/g / 900MHz – 14cm  
To Hand: 802.11b/g - 0.3175 cm  
Bluetooth - 6.985 cm  
900MHz - 5.08 cm

**RF Exposure Justification**

As specified in this application, the modular approved devices as detailed above are integrated into the Orderite, Inc. handheld wireless device model HAND002. The Orderite, Inc. HAND002 is designed for handheld operation only and has no provisions for body worn or lap held operation.

Per KDB 447498(4)(c)(iii), hand SAR is exempt. Hand SAR is required for hand-held and hand-operated devices with output power  $> 1000 \cdot [f(\text{GHz})]^{-0.5}$  mW that are designed with the hand operating closer than 5 cm from the antenna during normal use.

**Output Power Threshold ( $> 1000 \cdot [\text{sqrt } f(\text{GHz})]$  mW) Calculation**

Bluetooth EIRP: 5.23mW  
802.11b/g EIRP: 52.97mW  
900MHz EIRP: 153.8mW

$$1000 / (\text{sqrt } 0.915) = 1045$$

$$1000 / (\text{sqrt } 2.44) = 640$$

$$(5.23 / 640) + (52.97 / 640) + (153.8 / 1054) = 0.239$$

$$0.0239 < 1$$

.