

## RF Exposure Assessment

Date: April 3, 2009

**Description:** This device is a handheld device designed to be used with both hands on the touch screen or the sliding QWERTY keyboard. No held-to-ear configurations are available for this device. See Antenna Locations Document for details regarding distances within the device.

**Dimensions:** 127.0 x 80.5 x 15.9 mm

**Radio 1:** Part 27, 2.5-2.7 GHz IEEE 802.16e, 1 Tx antenna, 229 mW

**Radio 2:** Part 15, 2.4-2.5 GHz Bluetooth, 1 Tx antenna, 2.6 mW

**Radio 3:** Part 15, 2.4-2.5 GHz WLAN 802.11b/g, 1 Tx Antenna, 126 mW

Note: Radio 1 and Radio 3 cannot simultaneously transmit.

### KDB 447498 (4)(c)(iii) Condition 1:

Hand SAR is required when:  $Power(mW) > 1000 \cdot \frac{1}{\sqrt{f_{GHz}}}$

**Radio 1:**

$$Power > 1000 \cdot \frac{1}{\sqrt{2.6}}$$

$$Power > 620$$

Since Power is 229 mW, then **Hand SAR is NOT REQUIRED for Radio 1.**

**Radio 2:**

$$Power > 1000 \cdot \frac{1}{\sqrt{2.45}}$$

$$Power > 639$$

Since Power is 2.6 mW, then **Hand SAR is NOT REQUIRED for Radio 2.**

**Radio 3:**

$$Power > 1000 \cdot \frac{1}{\sqrt{2.45}}$$

$$Power > 639$$

Since Power is 126 mW, then **Hand SAR is NOT REQUIRED for Radio 3.**

### KDB 447498 (4)(c)(iii) Condition 2:

Extremity SAR is required for wrist, feet or ankle worn devices. This device cannot be worn in such configurations. **Extremity SAR is not applicable for this device.**

**KDB 447498 (4)(c)(iii) Condition 3:**

Body SAR is required for hand-held and hand-operated or wrist, feet and ankle worn devices that operate closer than 5 cm to the body and:

$$Power > 300 \cdot \frac{1}{\sqrt{f_{GHz}}}$$

This device is to be utilized at a distance greater than 5 cm to the body (See Users Manual), to be able to view the screen contents. Also given limitations to body-worn idle mode conditions for both the WiMAX and WLAN (See manufacturer declaration letter),

**Body SAR is not required.**