

# Statement of Human Exposure to Radiofrequency Electromagnetic Field

## Equipment

Type of Equipment	Wireless data collection terminal
Model	NordicID Morphic
Type	HHT811
Manufacturer	Nordic ID

## Standard

OET Bullet 65, supplement C

## RF Exposure compliance for Spread Spectrum Transmitters

The product has 50 mW (17 dBm) output power and internal small chip type antenna has gain less than 1 dBi. The antenna of transmitter shall not be any closer than 5 cm from a person's body (excluding hands and wrists).

A worst case power density calculation (with 100% reflection) is as follow:

$$S = \frac{4 \times \text{EIRP}}{4 \times \pi \times r^2}$$

$$S = 4 \times 63 / (4 \times \pi \times 5^2) = 0,80 \text{ mW/cm}^2$$

Limit according to OET Bulletin 65, supplement C for power density at 1,5 to100 Ghz is 1 mW/cm<sup>2</sup>. In considering the calculation it is determined that the requirements according the referred standard is fulfilled without measurements.

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Hannu Heino  
Technical Director  
Nordic ID