



Date: 2016-02-22

Report Number: 60.960.16.022.02

Model No.: Coach Smart

### **Radiofrequency radiation exposure evaluation**

According to KDB 447498 D01v06 section 4.3.1,

>> The 1-g SAR test exclusion thresholds, for 100MHz to 6GHz, at test separation distances  $\leq 50$  mm are determined by:

Power at 2.402GHz = 0.0760 mW EIRP

Power at 2.440GHz = 0.0753 mW EIRP

Power at 2.480GHz = 0.0756 mW EIRP

Power at 2.457GHz = 0.0731 mW EIRP

$[(0.0760 \text{ mW}) / (20 \text{ mm})] \cdot [\text{sqrt}(2.402 \text{ GHz})] = 0.005889$  which is  $\leq 3.0$  for 1-g SAR.

$[(0.0753 \text{ mW}) / (20 \text{ mm})] \cdot [\text{sqrt}(2.440 \text{ GHz})] = 0.005881$  which is  $\leq 3.0$  for 1-g SAR.

$[(0.0756 \text{ mW}) / (20 \text{ mm})] \cdot [\text{sqrt}(2.480 \text{ GHz})] = 0.005952$  which is  $\leq 3.0$  for 1-g SAR.

$[(0.0731 \text{ mW}) / (20 \text{ mm})] \cdot [\text{sqrt}(2.457 \text{ GHz})] = 0.005729$  which is  $\leq 3.0$  for 1-g SAR.

Therefore the device is exempt from stand-alone SAR test requirements.

>> The fundamental frequency of the EUT is 2402MHz-2480MHz and 2457MHz, the test separation distance is  $< 50$ mm. (Manufacturer specified the separation distance is: 20mm)

>> The power of EUT measured is:

- For 2402MHz:  $0.0760\text{mW} = 10 \log(0.0760) \text{ dBm} \sim -11.19\text{dBm}$

- For 2440MHz:  $0.0753\text{mW} = 10 \log(0.0753) \text{ dBm} \sim -11.23\text{dBm}$

- For 2480MHz:  $0.0756\text{mW} = 10 \log(0.0756) \text{ dBm} \sim -11.21\text{dBm}$

- For 2457MHz:  $0.0731\text{mW} = 10 \log(0.0731) \text{ dBm} \sim -11.36\text{dBm}$