

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 ≤ 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

$$\begin{split} & [(0.0760 \text{ mW}) \, / \, (20 \text{ mm})] \cdot [\text{sqrt} \, (2.402 \text{ GHz})] = 0.005889 \text{ which is} \leq 3.0 \text{ for } 1\text{-g SAR}. \\ & [(0.0753 \text{ mW}) \, / \, (20 \text{ mm})] \cdot [\text{sqrt} \, (2.440 \text{ GHz})] = 0.005881 \text{ which is} \leq 3.0 \text{ for } 1\text{-g SAR}. \\ & [(0.0756 \text{ mW}) \, / \, (20 \text{ mm})] \cdot [\text{sqrt} \, (2.480 \text{ GHz})] = 0.005952 \text{ which is} \leq 3.0 \text{ for } 1\text{-g SAR}. \\ & [(0.0731 \text{ mW}) \, / \, (20 \text{ mm})] \cdot [\text{sqrt} \, (2.457 \text{ GHz})] = 0.005729 \text{ which is} \leq 3.0 \text{ for } 1\text{-g SAR}. \\ \end{aligned}$$

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 < 50mm. (Manufacturer specified the separation distance is: 20mm)
- >> The power of EUT measured is:
  - For 2402MHz: 0.0760mW = 10 log (0.0760) dBm ~ -11.19dBm
  - For 2440MHz: 0.0753mW = 10 log (0.0753) dBm ~ -11.23dBm
  - For 2480MHz: 0.0756mW = 10 log (0.0756) dBm ~ -11.21dBm
  - For 2457MHz: 0.0731mW = 10 log (0.0731) dBm ~ -11.36dBm