



Date: 2015-09-15

Report Number: 60.790.15.008.01

Model No.: BKM4AB

### **Radiofrequency radiation exposure evaluation**

According to KDB 447498 D01v05r02 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 2457GHz = 0.8531 mW EIRP

Power at 2402GHz = 1.1912 mW EIRP

Power at 2440GHz = 1.1721 mW EIRP

Power at 2480GHz = 1.3335 mW EIRP

$[(0.8531 \text{ mW}) / (50 \text{ mm})] \cdot [\text{sqrt}(2457 \text{ GHz})] = 0.8457$  which is  $\leq 3.0$  for 1-g SAR.

$[(1.1912 \text{ mW}) / (50 \text{ mm})] \cdot [\text{sqrt}(2402 \text{ GHz})] = 1.1676$  which is  $\leq 3.0$  for 1-g SAR.

$[(1.1721 \text{ mW}) / (50 \text{ mm})] \cdot [\text{sqrt}(2440 \text{ GHz})] = 1.1579$  which is  $\leq 3.0$  for 1-g SAR.

$[(1.1335 \text{ mW}) / (50 \text{ mm})] \cdot [\text{sqrt}(2480 \text{ GHz})] = 1.1289$  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 2457MHz, the test separation distance is  $< 50$ mm.

>> The power of EUT measured is:

- For 2457MHz:  $0.8531\text{mW} = 10 \log(0.8531) \text{ dBm} \sim -0.69\text{dBm}$
- For 2402MHz:  $1.1912\text{mW} = 10 \log(1.1912) \text{ dBm} \sim +0.76\text{dBm}$
- For 2440MHz:  $1.1721\text{mW} = 10 \log(1.1721) \text{ dBm} \sim +0.69\text{dBm}$
- For 2480MHz:  $1.3335\text{mW} = 10 \log(1.3335) \text{ dBm} \sim +1.25\text{dBm}$