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Report Number: 60.790.15.022.01

Model No.: VBLE

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 ≤ 50 mm are determined by:

Power at 2402MHz = 0.0959 mW EIRP, Power at 2440MHz = 0.0895 mW EIRP

Power at 2480MHz = 0.0909 mW EIRP, Power at 2457MHz = 0.0946 mW EIRP

Power at 2410MHz = 0.0928 mW EIRP, Power at 2473MHz = 0.0941 mW EIRP

$[(0.0959 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt}(2.402 \text{ GHz})] = 0.0297$ which is ≤ 3.0 for 1-g SAR.

$[(0.0895 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt}(2.440 \text{ GHz})] = 0.0279$ which is ≤ 3.0 for 1-g SAR.

$[(0.0909 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt}(2.480 \text{ GHz})] = 0.0286$ which is ≤ 3.0 for 1-g SAR.

$[(0.0946 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt}(2.457 \text{ GHz})] = 0.0296$ which is ≤ 3.0 for 1-g SAR.

$[(0.0928 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt}(2.410 \text{ GHz})] = 0.0288$ which is ≤ 3.0 for 1-g SAR.

$[(0.0941 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt}(2.473 \text{ GHz})] = 0.0295$ which is ≤ 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, 2410MHz, 2473MHz & 2402MHz-2480MHz, the test separation distance is < 50 mm. (Manufacturer specification distance is < 5 mm)

>> The power of EUT measured is:

- For 2402MHz: $0.0959\text{mW} = 10 \log(0.0959) \text{ dBm} \sim -10.18\text{dBm}$

- For 2440MHz: $0.0895\text{mW} = 10 \log(0.0895) \text{ dBm} \sim -10.48\text{dBm}$

- For 2480MHz: $0.0909\text{mW} = 10 \log(0.0909) \text{ dBm} \sim -10.41\text{dBm}$

- For 2457MHz: $0.0946\text{mW} = 10 \log(0.0946) \text{ dBm} \sim -10.24\text{dBm}$

- For 2410MHz: $0.0928\text{mW} = 10 \log(0.0928) \text{ dBm} \sim -10.32\text{dBm}$

- For 2473MHz: $0.0941\text{mW} = 10 \log(0.0941) \text{ dBm} \sim -10.26\text{dBm}$