

Analysis Report

Report No.: 180800268TWN-001

The Equipment Under Test, Vpod is a 2.4GHz Transceiver (ECG monitor) for ECG Remote Event Monitor operating at 2466MHz. The EUT is powered by 2 X 3VDC batteries. The Vpod monitors ECG signals when connected to the Biosensor Array on the patient's body. The Vpod must be paired with a Vcell before the system is used to allow the patient's ECG data to be sent to the Vpatch website. The Vpod communicates with the Vcell through 2.466GHz transceivers.

Antenna Type: SMD
Antenna Gain: 0.2dBi
Production tolerance: -1.0dB (Minimum) to +0.9dB (Maximum)
According to the KDB 447498:

Based on the Maximum allowed radiated power of production tolerance was +0.9dB in frequency 2.466GHz, thus;

Maximum radiated power (EIRP) is 0.46mW, thus;

Conducted power = Radiated Power (EIRP) – Antenna Gain
So;

Conducted Power = 0.44mW.

The SAR Exclusion Threshold Level:
 $= 3.0 * (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$
 $= 3.0 * 5 / \text{sqrt}(2.466) \text{ mW}$
 $= 9.55 \text{ mW}$

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.