# RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	Heart rate monitor
Model Name	HRM819, HRM819S, HRM819E
FCC ID	2ACN7HRM819

#### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 5 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR.

Where f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

# 3. CALCULATION

BLE: 1M

P<sub>t</sub>=-1.309dBm=0.74mW

The value of the Maximum output power Pt is referred to the test report of the CFR47

§15.247.

The result for RF exposure evaluation SAR=(0.74mW / 5mm) .[ $\sqrt{2.402(\text{GHz})}$ ]= 0.23<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

BLE: 2M

 $P_t$ =-4.755dBm=0.33mW

The value of the Maximum output power Pt is referred to the test report of the CFR47

§15.247.

The result for RF exposure evaluation SAR=(0.33mW /5mm) .[ $\sqrt{2.402}$ (GHz)]= 0.10<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

2.4G:

Pt=-0.760dBm=0.84mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(0.84mW /5mm) .[ $\sqrt{2.457}$ (GHz)]= 0.26<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

#### Note:

1. The 2.4GHz and BT(BLE) can not transmit simultaneously:

# 4. CONCLUSION

The SAR evaluation is not required.