



## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	Smart GPS Cycling Computer
Model Name	XOSS G+
FCC ID	2AJFWXOSSG

### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

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

Where  $f(\text{GHz})$  is the RF channel transmit frequency in GHz

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

### 3. CALCULATION

BLE: GFSK 1Mbps

$P_t = 2.163 \text{ dBm} = 1.64 \text{ mW}$

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

§15.247.

The result for RF exposure evaluation  $\text{SAR} = (1.64 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480(\text{GHz})}] = 0.52 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

BLE: GFSK 2Mbps

$P_t = -2.045 \text{ dBm} = 0.62 \text{ mW}$

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

§15.247.

The result for RF exposure evaluation  $\text{SAR} = (0.62 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.402(\text{GHz})}] = 0.19 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.



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Pt=2.122dBm=1.63mW

The value of the Maximum output power  $P_t$  is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation  $SAR=(1.63mW /5mm) \cdot [\sqrt{2.457(GHz)}]= 0.51<3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

#### 4. CONCLUSION

The SAR evaluation is not required.



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