



## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	Smart watch
Model Name	I22
Series Model	I18, I20M, I22D
FCC ID	2A54SI22

### 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  $\leq 50$  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

BR/EDR:

$$P_t = -1.823 \text{ dBm} = 0.66 \text{ mW}$$

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  $\text{SAR} = (0.66 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.441 \text{ GHz}}] = 0.205 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

BLE 1M:

$$P_t = 2.041 \text{ dBm} = 1.59 \text{ mW}$$

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  $\text{SAR} = (1.59 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480 \text{ GHz}}] = 0.50 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

BLE 2M:

$$P_t = 2.236 \text{ dBm} = 1.67 \text{ mW}$$

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  $\text{SAR} = (1.67 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480 \text{ GHz}}] = 0.53 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

BR/EDR+BLE 1M:

$$(0.205/3) + (0.50/3) = 0.235$$

BR/EDR+BLE 2M:

$$(0.205/3) + (0.53/3) = 0.245$$

**Note: The BLE and BE/EDR can transmit simultaneously.**

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>



#### **4. CONCLUSION**

The SAR evaluation is not required.

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>