

# RF Exposure Evaluation

## FCC ID: 2ARUI-08068

### 1. Client Information

**Applicant** : American Exchange Time LLC  
**Address** : No.1441 Broadway 27th Floor, New York, NY 10018  
**Manufacturer** : ShenZhen KY Technology Co., Ltd  
**Address** : No.369, BaoTian 1st RD, TieGang Industrial Park, Xixiang Town, Baoan District, ShenZhen, PRC

### 2. General Description of EUT

<b>EUT Name</b>	:	Smart Watch
<b>Models No.</b>	:	08068, 08069, 08070, 08071, 03684, 03685
<b>Model Different</b>	:	All these models are the same PCB, layout and electrical circuit, the only different is Color of the bands.
<b>Product Description</b>	Operation Frequency:	Bluetooth V4.0: 2402MHz~2480MHz
	RF Output Power:	GFSK:0.283dBm (Max)
	Antenna Gain:	1dBi PCB Antenna
<b>Power Rating</b>	:	DC 5V0.5A by USB Cable. DC 3.7V by 150mAh Li-ion battery.
<b>Software Version</b>	:	2400
<b>Hardware Version</b>	:	V1.0
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual

**Note:** More test information about the EUT please refer the RF Test Report.

## SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance  $\leq 5$  mm are determined by:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}]}{\leq 3.0 \text{ for 1-g SAR}}$$

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}]}{\leq 7.5.0 \text{ for 10-g SAR}}$$

**2. Calculation:**

Test separation: 5mm						
BLE Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-0.247	0±1	1	1.259	0.390	3.0
2.440	0.283	0±1	1	1.260	0.390	3.0
2.480	0.144	0±1	1	1.260	0.390	3.0

The worst RF Exposure Evaluation is calculated as  $0.390 < \text{limit } 3.0$  So standalone SAR measurements are not required.

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