

# RF Exposure Evaluation

## FCC ID: 2ALTC-V07

### 1. Client Information

**Applicant** : SHENZHEN WO-SMART TECHNOLOGIES CO., LTD  
**Address** : 2C, AB Block, Tianji Building, Tian'an Cyber Park, Chegongmiao, Futian District, Shenzhen, China  
**Manufacturer** : SHENZHEN WO-SMART TECHNOLOGIES CO., LTD  
**Address** : 2C, AB Block, Tianji Building, Tian'an Cyber Park, Chegongmiao, Futian District, Shenzhen, China

### 2. General Description of EUT

<b>EUT Name</b>	: SPORT BP Heart Rate Monitor	
<b>Models No.</b>	: V07, V07S	
<b>Model Difference</b>	: All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.	
<b>Product Description</b>	Operation Frequency:	Bluetooth 4.0(BLE): 2402MHz~2480MHz
	Number of Channel:	Bluetooth 4.0(BLE): 40 channels
	RF Output Power:	-10.08 dBm Conducted Power
	Antenna Gain:	2.12 dBi Ceramic Antenna
	Modulation Type:	GFSK
	Bit Rate of Transmitter:	1Mbps(GFSK)
<b>Power Supply</b>	: DC Voltage Supplied by the Host System. DC Supply by the Battery.	
<b>Power Rating</b>	: DC 5.0 V by Host System. DC 3.7 V by 80mAh Li-Lion Battery.	
<b>Connecting I/O Port(S)</b>	: Please refer to the User's Manual	

#### Note:

More test information about the EUT please refer to 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR}$$
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0 \text{ for 10-g SAR}$$

**2. Calculation:**

Test separation: 5mm						
Bluetooth 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	-10.08	-10±1	-9	0.126	0.039	3.0
2.441	-10.82	-10±1	-9	0.126	0.039	3.0
2.480	-12.96	-13±1	-12	0.063	0.020	3.0

So standalone SAR measurements are not required.

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