

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

EUT Name	:	SPORT BP Heart Rate Monitor	
Models No.	:	V07, V07S	
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.	
Product Description	:	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)
Power Supply	:	DC Voltage Supplied by the Host System. DC Supply by the Battery.	
Power Rating	:	DC 5.0 V by Host System. DC 3.7 V by 80mAh Li-Lion Battery.	
Connecting I/O Port(S)	:	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 ≤ 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						
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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