

RF Exposure Evaluation

FCC ID: 2ANIE-V19

1. Client Information

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

2. General Description of EUT

EUT Name	:	V19 health bracelets	
Models No.	:	V19, V19S, V19C, V19Pro, V19Plus	
Model Different	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is appearance color.	
Product Description	:	Operation Frequency:	Bluetooth V4.0: 2402MHz~2480MHz
	:	RF Output Power:	BLE:-1.703dBm (Max)
	:	Antenna Gain:	2dBi Ceramics Antenna
Power Supply	:	DC Voltage Supply from USB Interface. DC Supply by the Li-ion Battery.	
Power Rating	:	DC 3.7V 130mAh by Li-ion Battery. Input: DC 5V 1A by USB Interface.	
Software Version	:	00.13.00.13-1011	
Hardware Version	:	V1.1	
Connecting I/O Port(S)	:	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 ≤ 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	-1.881	-1.5±1	-0.5	0.891	0.276	3.0
2.442	-1.703	-1.5±1	-0.5	0.891	0.279	3.0
2.480	-1.976	-1.5±1	-0.5	0.891	0.281	3.0

So standalone SAR measurements are not required.

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