

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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