

# RF Exposure Evaluation

## FCC ID: 2ANIE-V100S

### 1. Client Information

<b>Applicant</b>	:	WO-SMART TECHNOLOGIES (SHENZHEN) CO.,LTD
<b>Address</b>	:	2C, AB Block, Tianji Building, Tian'an Cyber Park, Chegongmiao,
<b>Manufacturer</b>	:	WO-SMART TECHNOLOGIES (SHENZHEN) CO.,LTD
<b>Address</b>	:	2C, AB Block, Tianji Building, Tian'an Cyber Park, Chegongmiao,

### 2. General Description of EUT

<b>EUT Name</b>	:	V100S Smart Band
<b>Model(s) No.</b>	:	V100S, V100C, V100Pro, V100Plus,
<b>Model Different</b>	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance and shape.
<b>Sample ID</b>	:	TBBJ-20200724-16-1# & TBBJ-20200724-16-2#
<b>Product Description</b>	Operation Frequency:	Bluetooth 4.2(BLE): 2402MHz~2480MHz
	Number of Channel:	Bluetooth 4.2(BLE): 40 channels
	RF Output Power:	3.019 dBm (Max)
	Antenna Gain:	4 dB Internal Antenna
	Modulation Type:	GFSK
	Bit Rate of Transmitter:	1Mbps
<b>Power Rating</b>	:	Input:DC 5V DC 3.7V by 150mAh Li-ion battery
<b>Software Version</b>	:	N/A
<b>Hardware Version</b>	:	M10014.01
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual
<b>Remark:</b> The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.		

**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:

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

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

## 2. Calculation:

Test separation: 5mm						
BLE Mode (1Mbps)						
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	3.019	3±1	4	2.512	0.779	3.0
2.442	2.848	2±1	3	1.995	0.624	3.0
2.480	1.929	1±1	2	1.585	0.499	3.0

### Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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