

# RF Exposure Evaluation

## FCC ID: 2ANIE-GT2

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

### 2. General Description of EUT

<b>EUT Name</b>	:	Wearable Smart Watch
<b>Model(s) No.</b>	:	GT2, GT2S, GT1, GT1S, GT3, GT3S, GT3Pro, GT3C
<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>Product Description</b>	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz
	Number of Channel:	Bluetooth 5.0(BLE): 40 channels
	RF Output Power:	-2.222 dBm (Max)
	Antenna Gain:	0 dBi PFC Antenna
	Modulation Type:	GFSK
	Bit Rate of Transmitter:	1Mbps
<b>Power Rating</b>	:	Input:DC 5V DC 3.7V by 220mAh Li-ion battery
<b>Software Version</b>	:	V52.01
<b>Hardware Version</b>	:	E07-V1.3
<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:

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

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

**2. Calculation:**

Test separation: 5mm						
BLE Mode (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	-2.222	-2±1	-1	0.794	0.246	3.0
2.442	-2.695	-2±1	-1	0.794	0.247	3.0
2.480	-3.569	-3±1	-2	0.631	0.199	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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