

Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2AQTJ-81294

1. Client Information

Applicant	Shenzhen Yichuang Technology Co.,Ltd.			
Address	Room2711, Block B, Jiazhaoye Center, Nanyuan Road, Futian District, Shenzhen, China			
Manufacturer	: Shenzhen Yichuang Technology Co.,Ltd.			
Address	: Room2711, Block B, Jiazhaoye Center, Nanyuan Road, Futian District, Shenzhen, China			

2. General Description of EUT

EUT Name		SMART WATCH				
Models No.		81294,81295,81296				
Model Different	ė	All models are in the same PCB layout interior structure and electrical circuits, The appearance color is different.				
Product Description	2	Operation Frequency:	Bluetooth V4.2: 2402MHz~2480MHz			
	:	RF Output Power:	BLE: -0.285dBm (Max)			
		Antenna Gain:	1.6dBi Ceramic Antenna			
Power Supply	:	DC Voltage Supply from USB Port. DC Supply by the Li-ion Battery.				
Power Rating	:	DC 5.0 V from the USB Cable. DC 3.7V by 180mAh Li-ion Battery.				
Software Version		V1.0				
Hardware Version	:	V1.0				
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.

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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

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- 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:
 - [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR
 - [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leqslant 7.5.0 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	-0.285	-1±1	0	1	0.310	3.0			
2.442	-0.389	-1±1	0	1	0.313	3.0			
2.480	-1.009	-1±1	0	1	0.315	3.0			

So standalone SAR measurements are not required.

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