

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE161519 Page: 1 of 3

RF Exposure Evaluation FCC ID: 2AILG-F18

1. Client Information

Applicant		NJY Science & Technology Co., Ltd				
Address		#202 JiaDa R&D Building Lobby B, 5 Songpingshan Road, Shenzhen, China				
Manufacturer	:	NJY Science & Technology Co., Ltd				
Address	:	#202 JiaDa R&D Building Lobby B, 5 Songpingshan Road, Shenzhen, China				

2. General Description of EUT

EUT Name	-	Smart Watch			
Models No.		F18, F19, F20, F22, F23, F25, F26, F28, F29			
Model Difference	i	All models are in the same PCB layout interior structure and electrical circuits, The only difference is appearance color.			
Product Description		Operation Frequency:	Bluetooth 4.2(BT): 2402MHz~2480MHz		
	:	RF Output Power:	BLE:-0.238 dBm		
		Antenna Gain:	3.2dBi Ceramic Antenna		
Power Supply	:	DC Voltage Supply from USB Line. DC Voltage supplied by Li-ion battery.			
Power Rating	:	DC 5V 0.5A by USB Line DC 3.7V by 350mAh Li-ion battery			
Software Version	1	N/A			
Hardware Version		N/A			
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.

TB-RF-074-1.0

Report No.: TB-MPE161519 Page: 2 of 3

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	-0.238	-1±1	0	1.000	0.310	3.0		
2.442	-0.432	-1±1	0	1.000	0.312	3.0		
2.480	-1.020	-1±1	0	1.000	0.315	3.0		

Test separation: 5mm							
The worst RF Exposure Evaluation							
Worst Calculation Value Bluetooth Mode	Total Calculation Value	Threshold Value					
0.315	0.315	3.0					

The worst RF Exposure Evaluation is calculated is 0.315 / cm2 < limit 3.0, So standalone SAR measurements are not required.

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