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RF Exposure Evaluation FCC ID: 2A5HI-SW12

1. Client Information

Applicant	1	Shenzhen Tianpengyu Technology Co. Ltd			
Address		Room 301, Building 16, Liangli Industrial Park, 78 Ainan Road, Longgang Community, Baolong Street, Longgang District, Shenzhen China			
Manufacturer	:	Shenzhen Tianpengyu Technology Co. Ltd			
Address	Y	Room 301, Building 16, Liangli Industrial Park, 78 Ainan Road, Longgang Community, Baolong Street, Longgang District, Shenzhen China			

2. General Description of EUT

EUT Name	:	Smart Watch					
Model(s)		SW12, SW11, SW09, SW16, SW17, SW18, H02, H03, PR1, PR2, PR3, PR5, PR6, W7, W8, W9, S1, S2, S3					
Model Difference		All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name.					
Product Description		Operation Frequency:	Bluetooth 4.0(BLE): 2402MHz~2480MHz				
		Number of Channel:	Bluetooth 4.0(BLE): 40 channels				
		Antenna Gain:	2dBi Wire Antenna				
		Modulation Type:	GFSK				
		Bit Rate of Transmitter:	1Mbps				
Power Rating		Input: DC 5V DC 3.7V by 230mAh Rechargeable Li-ion battery					
Software Version	•	0071.0300-1109					
Hardware Version		V 1.4					
Connecting I/O Port(S)		Please refer to the User's Manual					

Remark: 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.

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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
 - 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)]*[$\sqrt{f_{(GHz)}}$] \leq 7.5.0 for 10-g SAR



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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	-4.112	-4±1	-3	0.501	0.155	3.0					
2.440	-5.1	-5±1	-4	0.398	0.124	3.0					
2.480	-6.12	-6±1	-5	0.316	0.100	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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