

Report No.: TB-MPE173305

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RF Exposure Evaluation FCC ID: 2ASHI-DT96

1. Client Information

Applicant	1	SHENZHEN XINKEYING DIGITAL CO.,LIMITED			
Address	Room 17I, Block A, HuaQiang Square, HuaQiang North Road, Futian District, Shenzhen, China				
Manufacturer	:	SHENZHEN XINKEYING DIGITAL CO.,LIMITED			
Address : Room 17I, Block A, HuaQiang Futian District, Shenzhen, Chi		Room 17I, Block A, HuaQiang Square, HuaQiang North Road, Futian District, Shenzhen, China			

2. General Description of EUT

EUT Name		Smart Watch				
Model(s) No.	:	DT96, DT95, DT86, DT66, DT56, DT52, DT97, DT92, DT59, DT40, DTX				
Model Different	:	All these models are in the same PCB, layout and electrical circuit, the only difference is apperance size, It's all plastic				
		Operation Frequency:	y: Bluetooth 5.0(BLE): 2402MHz~2480MH			
and By		Number of Channel: Bluetooth 5.0(BLE): 40 channels				
Product	3	RF Output Power: 3.565 dBm (Max)				
Description	1	Antenna Gain:	2.71 dBi PIFA Antenna			
4000		Modulation Type:	GFSK			
		Bit Rate of Transmitter:	1Mbps&2Mbps			
Power Rating	X	USB Input:DC 5V DC 3.7V by 230mAh Li-ion battery				
Software Version	•	N/A				
Hardware Version		Z23V2.0				
Connecting I/O Port(S)	: 51	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	n: 5mm					
3	WHITE STATE		BLE Mode (1Mbps)			BAIL
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	2.823	3±1	4	2.512	0.779	3.0
2.442	3.150	3±1	4	2.512	0.785	3.0
2.480	3.206	3±1	4	2.512	0.791	3.0
60	The same of the sa	2 Million	BLE Mode (2Mbps)		601	
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	3.492	3±1	4	2.512	0.779	3.0
2.442	3.565	3±1	4	2.512	0.785	3.0
2.480	3.412	3±1	4	2.512	0.791	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.

----END OF REPORT----