

RF Exposure Evaluation

FCC ID: 2ASHI-DT78

1. Client Information

Applicant : 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 Square, HuaQiang North Road,
Futian District, Shenzhen, China

2. General Description of EUT

EUT Name	:	Smart Watch	
Models No.	:	DT78, DT18, DT19, DT79, DT99, DT69, BT01, BT02, C23, C24	
Model Different	:	All these models are in the same PCB, layout and electrical circuit, the only difference is apperance size, It's all plastic	
Product Description	:	Operation Frequency:	Bluetooth V4.0: 2402MHz~2480MHz
	:	RF Output Power:	BLE:-0.232dBm (Max)
	:	Antenna Gain:	1.6dBi PIFA Antenna
Power Supply	:	DC Voltage Supply from USB cable. DC Supply by the Li-ion Battery.	
Power Rating	:	DC 5V by AC/DC Adapter. DC 3.7V by 170mAh Li-ion battery	
Software Version	:	N/A	
Hardware Version	:	V1.1	
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.

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)] * $[\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] * $[\sqrt{f_{\text{(GHz)}}}] \leq 7.5.0$ 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	-0.244	0 ± 1	1	1.259	0.390	3.0
2.442	-0.232	0 ± 1	1	1.259	0.393	3.0
2.480	-0.631	0 ± 1	1	1.259	0.397	3.0

So standalone SAR measurements are not required.

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