

RF Exposure Evaluation

FCC ID: 2ARUI-ITF20RD

1. Client Information

Applicant	:	American Exchange Time LLC
Address	:	No.1441 Broadway 27th Floor, New York, NY 10018
Manufacturer	:	American Exchange Time LLC
Address	:	No.1441 Broadway 27th Floor, New York, NY 10018

2. General Description of EUT

EUT Name	:	Smart Watch	
Model(s) No.	:	500029, 500027, 500028	
Model Different	:	All these models are the same PCB, layout and electrical circuit, the only difference is Color of the bands.	
Product Description	:	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz
		Number of Channel:	Bluetooth 5.0(BLE): 40 channels
		RF Output Power:	8.117 dBm (Max)
		Antenna Gain:	0 dBi Monopole Antenna
		Modulation Type:	GFSK
		Bit Rate of Transmitter:	1Mbps
Power Rating	:	USB Input:DC 5V DC 3.7V 170mAh by Li-ion battery	
Software Version	:	V3.6	
Hardware Version	:	V03	
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.

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 (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	7.925	8±1	9	7.943	2.462	3.0
2.442	8.117	8±1	9	7.943	2.482	3.0
2.480	7.775	8±1	9	7.943	2.502	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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