Maximum Permissible Exposure Evaluation

FCC ID: 2BCU8-L70

1. General Information about EUT

1.1 Client Information

Applicant	:	SHENZHEN SONDONWEAR INFORMATION TECHNOLOGY CO.LTD
Address	:	4th Floor, Building A1, Zhongtai Info Industrial Park, Shilongzai Community, Shiyan Street, Bao 'an District, SZ, China
Manufacturer	:	SHENZHEN SONDONWEAR INFORMATION TECHNOLOGY CO.LTD
Address	:	4th Floor, Building A1, Zhongtai Info Industrial Park, Shilongzai Community, Shiyan Street, Bao 'an District, SZ, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	SMART WATCH	
Models No.	:	L70, L39, L71, L77	
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name, brand name and product name.	
Brand Name	:	----	
Sample ID	:	HC-C-202405-0298-1-1#	
Product Description	:	Operation Frequency:	Bluetooth&BLE: 2402MHz~2480MHz
		Antenna Gain:	0dBi Conducting Wire Antenna
Power Rating	:	USB Input: DC 5 V DC 4.4V 300mAh Rechargeable Li-ion battery	
Software Version	:	N/A	
Hardware Version	:	MOY.M81306.02	
Remark: The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.			

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The RF Exposure Evaluation for FCC:

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)]*[√ $f_{(GHz)}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[√ $f_{(GHz)}$] ≤7.5.0 for 10-g SAR

2. Calculation:

Test separation: 5mm						
Bluetooth 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**
2402	2.177	2±1	3	1.995	0.618	**3.0**
2441	1.355	1±1	2	1.585	0.495	**3.0**
2480	0.107	0±1	1	1.259	0.397	**3.0**
Bluetooth Mode (π/4-DQPSK)						
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**
2402	2.44	2±1	3	1.995	0.618	**3.0**
2441	1.557	1±1	2	1.585	0.495	**3.0**
2480	0.444	0±1	1	1.259	0.397	**3.0**
Bluetooth Mode (8-DPSK)						
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**
2402	3.014	3±1	4	2.512	0.779	**3.0**
2441	2.116	3±1	4	2.512	0.785	**3.0**
2480	0.988	0±1	1	1.259	0.397	**3.0**
BLE 1M Mode						
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**
2402	2.033	2±1	3	1.995	0.618	**3.0**
2440	1.217	1±1	2	1.585	0.495	**3.0**
2480	0.03	0±1	1	1.259	0.397	**3.0**
BLE 2M Mode						
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**
2402	2.198	2±1	3	1.995	0.618	**3.0**
2440	1.282	1±1	2	1.585	0.495	**3.0**
2480	0.156	0±1	1	1.259	0.397	**3.0**

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093, the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06, No SAR is required.

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