



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.		

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:

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

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0$ 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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