

RF Exposure Evaluation

FCC ID: 2ATK6-W1S

1. Client Information

Applicant	:	SHENZHEN LOOKCARE INDUSTRY CO., LTD
Address	:	5F, Bldg H, No.8 East Area, Shangxue Science and Technology Industry, Bantian St, Longgang Dist, Shenzhen, China
Manufacturer	:	SHENZHEN LOOKCARE INDUSTRY CO., LTD
Address	:	5F, Bldg H, No.8 East Area, Shangxue Science and Technology Industry, Bantian St, Longgang Dist, Shenzhen, China

2. General Description of EUT

EUT Name	:	TWS
Models No.	:	W1S, W1, W2, W2S, W3, W3S, W5, W5S, W6, W6S, W7, W7S, W8, W8S, W9, W9S, W1 Pro
Model Difference	:	The same product motherboard, different knowledge appearance and model.
Product Description	Operation Frequency:	Bluetooth 5.1(BT): 2402~2480 MHz
	Max. Power:	Bluetooth: -0.164 dBm(Max)
	Antenna Gain:	-0.58dBi Ceramic Antenna
	Modulation Type:	GFSK
Power Supply (Earphone)	:	USB Input: 5V DC 3.7V by 30mAh Li-ion battery
Power Supply (Charger Box)	:	USB Input: 5V DC 3.7V by 300mAh Li-ion battery
Software Version	:	N/A
Hardware Version	:	W1-6973D-V13
Connecting I/O Port(S)	:	Please refer to the User's Manual
Remark	:	The antenna gain provided by the applicant, the verified for the RF conduction test 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						
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
2.402	-0.860	0 ± 1	1	1.259	0.390	3.0
2.441	-0.164	0 ± 1	1	1.259	0.393	3.0
2.480	-0.234	0 ± 1	1	1.259	0.397	3.0

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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