

# RF Exposure Evaluation

## FCC ID: 2AILG-L5

### 1. Client Information

<b>Applicant</b>	:	NJY Science & Technology Co., Ltd
<b>Address</b>	:	#202 JiaDa R&D Building Lobby B, 5 Songpingshan Road, Shenzhen, China
<b>Manufacturer</b>	:	NJY Science & Technology Co., Ltd
<b>Address</b>	:	#202 JiaDa R&D Building Lobby B, 5 Songpingshan Road, Shenzhen, China

### 2. General Description of EUT

<b>EUT Name</b>	:	Smart Watch	
<b>Models No.</b>	:	L5,L6	
<b>Model Difference</b>	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.	
<b>Product Description</b>	:	Operation Frequency:	Bluetooth: 2402~2480 MHz
		RF Output Power:	-0.458 dBm Conducted Power
		Antenna Gain:	-1.53 dBi Internal Antenna
<b>Power Rating</b>	:	Input: DC 5V DC 3.7V by 200mAh Li-ion batter	
<b>Software Version</b>	:	V0.1.6	
<b>Hardware Version</b>	:	V1.2	
<b>Connecting I/O Port(S)</b>	:	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  $\leq 5$  mm are determined by:

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

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}]}{\leq 7.5.0 \text{ for 10-g SAR}}$$



## 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	-0.458	0±1	1	1.259	0.390	3.0
2.442	-0.549	0±1	1	1.259	0.393	3.0
2.480	-0.796	0±1	1	1.259	0.397	3.0

Test separation: 5mm	
The worst RF Exposure Evaluation	
Worst Calculation Value	Threshold Value
0.397	3.0

The worst RF Exposure Evaluation is  $0.397 / \text{cm}^2 < \text{limit } 3.0$ , So standalone SAR measurements are not required.

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