

RF Exposure Evaluation

FCC ID: 2AILG-X3

1. Client Information

Applicant	:	NJY Science & Technology Co., Ltd
Address	:	#202 JiaDa R&D Building Lobby B, 5 Songpingshan Road, Shenzhen, 518057China
Manufacturer	:	NJY Science & Technology Co., Ltd
Address	:	#202 JiaDa R&D Building Lobby B, 5 Songpingshan Road, Shenzhen, 518057China

2. General Description of EUT

EUT Name	:	Smart Bracelet
Models No.	:	X3
Model Difference	:	N/A
Product Description	Operation Frequency:	Bluetooth 4.2(BLE): 2402MHz~2480MHz
	Number of Channel:	Bluetooth 4.2(BLE): 40 channels
	RF Output Power:	-4.861 dBm Conducted Power
	Antenna Gain:	1.6 dB Internal Antenna
	Modulation Type:	GFSK
	Bit Rate of Transmitter:	1Mbps(GFSK)
Power Rating	:	DC 5.0V by USB cable. DC 3.7V by 120mAh Li-ion Battery.
Software Version	:	N/A
Hardware Version	:	N/A
Connecting I/O Port(S)	:	Please refer to the User's Manual

Note:

More test information about the EUT please refer to 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:

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

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

2. Calculation:

Test separation: 5mm						
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	-4.861	-5±1	-4	0.398	0.123	3.0
2.442	-5.200	-5±1	-4	0.398	0.124	3.0
2.480	-5.725	-5±1	-4	0.398	0.125	3.0

So standalone SAR measurements are not required.

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