

RF Exposure Evaluation

FCC ID: 2AOSJ-SSP01

1. Client Information

Applicant : Smlpretty Technology Co., Ltd
Address : Unit 4J, Block B, Central, Xixiang Town, Bao'an District, Shenzhen, China
Manufacturer : Smlpretty Technology Co., Ltd
Address : Unit 4J, Block B, Central, Xixiang Town, Bao'an District, Shenzhen, China

2. General Description of EUT

EUT Name	:	Smart Bluetooth Padlock	
Models No.	:	SSP01	
Product Description	:	Operation Frequency:	Bluetooth V4.2(BLE): 2402~2480 MHz
		RF Output Power:	BLE: -0.668dBm
		Antenna Gain:	4dBi PCB Antenna
Power Supply	:	DC Voltage supplied by USB cabel DC Voltage supplied by Li-ion battery	
Power Rating	:	DC 5.0V by USB cable DC 3.6V by 140mAh Li-ion battery	
Connecting I/O Port(S)	:	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 ≤ 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	-0.688	-2 ± 1.5	-0.5	0.891	0.276	3.0
2.442	-1.989	-2 ± 1.5	-0.5	0.891	0.279	3.0
2.480	-3.111	-2 ± 1.5	-0.5	0.891	0.281	3.0

So standalone SAR measurements are not required.

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