

## RF Exposure Evaluation

### FCC ID: 2AJ4IIGK-01

#### 1. Client Information

**Applicant** : Igloohome Pte Ltd  
**Address** : 1557 Keppel road, #03-25, singapore 089 066  
**Manufacturer** : Smlpretty Technology Co., Limited  
**Address** : 4F-J Commercial Office Building Haihong industrial area West side of the Xixiang Big road, Xixiang street, Baoan District, Shenzhen City, Guangdong Province, China

#### 2. General Description of EUT

<b>EUT Name</b>	:	Igloohome Smart Keybox	
<b>Models No.</b>	:	IGK-01	
<b>Product Description</b>	Operation Frequency:	BLE: 2402~2480MHz	
	Number of Channel:	BLE: 40 Channels	
	Max Peak Output Power:	GFSK: 3.558 dBm	
	Antenna Gain:	0 dBi PCB Antenna	
	Modulation Type:	1Mbps(GFSK)	
<b>Power Supply</b>	:	DC power by AAA battery.	
<b>Power Rating</b>	:	DC 4*1.5V AAA battery.	
<b>Connecting I/O Port(S)</b>	:	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  $\leq 5$  mm are determined by:
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})]^{*} [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR}$$
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})]^{*} [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0 \text{ for 10-g SAR}$$

**2. Calculation:**

Test separation: 5mm					
BLE Mode (GFSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.558	±0.5	2.546	0.789	3.0
2.442	2.908	±0.5	2.192	0.685	3.0
2.480	2.005	±0.5	1.780	0.561	3.0

So standalone SAR measurements are not required.

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