

# RF Exposure Evaluation

## FCC ID: 2ALUEBT-01

### 1. Client Information

**Applicant** : Dynamic Bicycles, Inc.  
**Address** : 461 Main Street, Suite C200 Pawtucket, RI 02860 USA  
**Manufacturer** : Smlpretty Technology Co., Limited.  
**Address** : B Block 4J, Zhongyang Avenue, Baoyuan Road, Xixiang Avenue,  
Baoan District, Shenzhen City, China

### 2. General Description of EUT

<b>EUT Name</b>	:	Bluetooth bicycle lock	
<b>Models No.</b>	:	BT-01	
<b>Model Difference</b>	:	N/A	
<b>Product Description</b>	:	Operation Frequency:	Bluetooth 4.0(BLE): 2402MHz~2480MHz
		Number of Channel:	Bluetooth 4.0(BLE): 40 channels <b>see note(3)</b>
		RF Output Power:	1.404 dBm Conducted Power
		Antenna Gain:	0.5 dBi Chip Antenna
		Modulation Type:	GFSK
		Bit Rate of Transmitter:	1Mbps(GFSK)
<b>Power Supply</b>	:	DC Voltage Supplied by the Host System. DC Supply by the Battery.	
<b>Power Rating</b>	:	DC 5.0 V by Host System. DC 3.7 V by Li-Lion 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:

- [(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	1.404	$1 \pm 1$	2	1.585	0.491	3.0
2.441	-0.427	$0 \pm 1$	1	1.259	0.393	3.0
2.480	-2.830	$-2 \pm 1$	-1	0.794	0.250	3.0

So standalone SAR measurements are not required.

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