

# RF Exposure Evaluation

## FCC ID: 2AG2ATON9668

### 1. Client Information

**Applicant** : Shenzhen Fast Precision Technologies Co. Ltd.  
**Address** : 4th Floor, Yangtian Building, Chuangye 2nd Road, Baoan 72 District, Shenzhen, China.  
**Manufacturer** : Shenzhen Fast Precision Technologies Co. Ltd.  
**Address** : 4th Floor, Yangtian Building, Chuangye 2nd Road, Baoan 72 District, Shenzhen, China.

### 2. General Description of EUT

<b>EUT Name</b>	: BLE Anti-lost Card	
<b>Models No.</b>	: TON9668 TON9668* (* represents 2-digit characters, and each character can be anything ranging from 0 to 9, A to Z, symbols like “-” or “space” and different product models. And * is targeted at different sales territories, sales regions, sales methods, varied client groups, different market positioning and different product colors, and won’t affect the product safety and electromagnetic compatibility)	
<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:	BLE: 2402~2480MHz
	Number of Channel:	BLE: 40 Channels
	Max Peak Output Power:	GFSK: 0.567 dBm
	Antenna Gain:	2 dBi FPC Antenna
	Modulation Type:	1Mbps(GFSK)
<b>Power Supply</b>	: DC Supply from the Host System. DC Supply by the Battery.	
<b>Power Rating</b>	: DC 5.0 V from the Host System by the USB Cable. DC 3.7 V~120mAh 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR}$$
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0 \text{ for 10-g SAR}$$

**2. Calculation:**

Test separation: 5mm						
BLE Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.567	0±1	1	1.259	0.390	3.0
2.442	-0.239	0±1	1	1.259	0.393	3.0
2.480	0.261	0±1	1	1.259	0.397	3.0

So standalone SAR measurements are not required.

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