Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE158915

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RF Exposure Evaluation FCC ID: 2AFRJ-DESS1

1. Client Information

Applicant : Noke

2801 Thanksgiving Way, Ste 220 Lehi, UT 84043 **Address**

Manufacturer Mapleaf technology CO., LIMITED

5B1003, Shengtaoshajunyuan, Baoan District, Shenzhen City, **Address**

Guangdong, China

2. General Description of EUT

EUT Name		Electric door strike lock controller								
Models No.	-5	DESS1								
Model Difference	:	N/A								
Product Description	2: 21	Operation Frequency:	Bluetooth 4.2(BLE): 2402MHz~2480MHz							
		Number of Channel:	Bluetooth 4.2(BLE): 40 channels							
		RF Output Power:	0.564 dBm Conducted Power(Module 1) 0.129 dBm Conducted Power(Module 2)							
		Antenna Gain:	0.5 dBi Internal Antenna							
		Modulation Type:	GFSK							
		Bit Rate of Transmitter:	1Mbps(GFSK)							
Power Rating	:	DC 3.6V 2800mAh by Li-ion Battery. DC 12V from DC port.								
Connecting I/O Port(S)	:	Please refer to the User's Manual								
Remark: The EUT ha	s tw	vo bluetooth Module (N52832), t	he one is for APP, the other one is for Networking.							

Note:

More test information about the EUT please refer to the RF Test Report.

TB-RF-074-1. 0

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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:

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

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



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2. Calculation:

					BLE Mode	(GFSK)					
Frequency (MHz)	Worst Conducted Power (dBm) BLE Module No.		Turn-up Power Tolerance (dB) BLE Module No.		Max power of tune up tolerance (dbm) BLE Module No.		Max power of tune up tolerance(mw)		Calculation Value		Threshold Value
	2402	0.565	0.129	0±1	0±1	1	1	1.259	1.259	0.390	0.390
2442	0.019	-0.093	0±1	0±1	1	1	1.259	1.259	0.393	0.393	3.0
2480	-1.241	-1.233	-1±1	-1±1	0	0	1.000	1.000	0.315	0.315	

So standalone SAR measurements are not required.

----END OF REPORT-----