



RF Exposure Evaluation

FCC ID: 2BAJP-B3

1. Client Information

Applicant	:	Zhongshan Veerman Intelligent Technology Co., LTD
Address	:	6th floor, No. 23, Shengfeng Kangya Road, Xiaolan Town, Zhongshan City, Guangdong Province, China.
Manufacturer	:	Zhongshan Veerman Intelligent Technology Co., LTD
Address	:	6th floor, No. 23, Shengfeng Kangya Road, Xiaolan Town, Zhongshan City, Guangdong Province, China.

2. General Description of EUT

EUT Name	:	smart lock	
Model(s) No.	:	B3, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14	
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance and model name.	
Product Description	:	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz
	:	Antenna Gain:	-4.44dBi Internal Antenna
Power Supply	:	USB Input: DC 5V	
Software Version	:	ZYWERV2.8	
Hardware Version	:	ZY-WER-G002 V6.3	
Remark: The antenna gain and adapter provided by the applicant, the adapter and verified for the RF conduction test provided by TOBY test lab.			

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:

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

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



2. Calculation:

Test separation: 5mm						
Bluetooth LE						
Frequency (MHz)	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
2402	4.454	4±1	5	3.162	0.980	3.0
2440	4.571	4±1	5	3.162	0.988	3.0
2480	4.566	4±1	5	3.162	0.996	3.0

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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