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Maximum Permissible Exposure Evaluation FCC ID: 2AZWI-3542LEQI

1. Client Information

Applicant	•••	Shenzhen Leqi Network Technology Co., LTD
Address	3.5	Room 101, Building 9 & Room 401, Building 12, Yazhou Industrial Park, Bantian, Longgang, Shenzhen, Guangdong, China.
Manufacturer	:	Shenzhen Leqi Network Technology Co., LTD
Address		Room 101, Building 9 & Room 401, Building 12, Yazhou Industrial Park, Bantian, Longgang, Shenzhen, Guangdong, China.

2. General Description of EUT

EUT Name	:	Motorized Slider			
Models No.		MS-10			
		Operation Frequency:	Bluetooth 4.2(BLE): 2402MHz~2480MHz		
Product		Number of Channel:	Bluetooth 4.2(BLE): 40 channels		
Description		RF Output Power:	GFSK: -15.42dBm		
		Antenna Gain:	1.7dBi PCB Antenna		
Power Rating	:	Input: DC 5V,2A /7.5V, 2A			
Software Version	:	V1.0.0			
Hardware Version	:	V1.0.0			
Connecting I/O Port(S)	-	Please refer to the Use	er's Manual		
Remark		the MPE report used the EUT (202201-0027-01-02).			



MPE Calculations for WIFI

1. Antenna Gain:

PCB Antenna: 1.7dBi.

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01 S=(PG)/ $4\pi R^2$

Where

- S: power density
- P: power input to the antenna
- G: power gain of the antenna in the direction of interest relative to an isotropic radiator.
- R: distance to the center of radiation of the antenna

4. Test Result:

			Worst I	Maximum	MPE Result			
Mode	N T X	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
TEN L		2402	-15.42	-15±1	-14	1.7	20	0.0000
BLE (GFSK)	1	2440	-15.6	-15±1	-14	1.7	20	0.0000
	-	2480	-15.54	-15±1	-14	1.7	20	0.0000

Note:

(1) N_{TX}= Number of Transmit Antennas

(2) RF Output power specifies that Maximum Conducted Peak Output Power.



5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm ²)		
300-1,500	F/1500		
1,500-100,000	1.0		

For BLE:2402~2480 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.0000** *mW* / *cm*² < *limit* 1*mW* / *cm*². So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

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