

RF Exposure Evaluation

FCC ID: 2AZWI-3111LEQI

IC: 27649-3111LEQI

1. Client Information

Applicant	:	Shenzhen Leqi Network Technology Co., LTD
Address	:	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	:	Phone Cage for Videography
Model(s)	:	Fold P10, Fold P20, Fold P30
Model Difference	:	All PCB boards and circuit diagrams are the same, the only difference is that different customer names are different
Product Description	:	Operation Frequency: Bluetooth 4.0(BLE): 2402MHz~2480MHz
	:	Number of Channel: Bluetooth 4.0(BLE): 40 channels
	:	RF Output Power: -4.51dBm (Max)
	:	Antenna Gain: 0.55dBi PCB Antenna
	:	Modulation Type: GFSK
	:	Bit Rate of Transmitter: 1Mbps
Power Rating	:	DC 3V by Battery
Software Version	:	V1.1
Hardware Version	:	V1.1
Connecting I/O Port(S)	:	Please refer to the User's Manual
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter 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						
BLE Mode (1Mbps)						
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	-4.51	-4±1	-3	0.501	0.03	3.0
2.440	-5.4	-5±1	-4	0.398	0.03	3.0
2.480	-6.92	-6±1	-5	0.316	0.03	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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