

Shenzhen Toby Technology Co., Ltd.



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RF Exposure Evaluation FCC ID: VO8-S6

1. Client Information

Applicant		GuangZhou LIWEI Electronics, LTD			
Address : No.33 Zhenzhong North Rd,Shenshan Ind.Park BaiYun District,Guangzhou GuangDong, China					
Manufacturer	anufacturer : GuangZhou LIWEI Electronics, LTD				
		No.33 Zhenzhong North Rd,Shenshan Ind.Park BaiYun District,Guangzhou GuangDong, China			

2. General Description of EUT

EUT Name		S6				
Model(s) No.	:	S6, S7, S8, X, X-Pro, Gi, H_ALE, FS, T2L				
Model Different		All these models are identical in the same PCB, layout and electrical circuit, the only difference is the model name.				
0000		Operation Frequency:	Bluetooth 5.0(BDR+EDR): 2402MHz~2480MHz			
		Number of Channel:	79 channels			
Product Description	:	Antenna Gain:	0 dBi PIFA Antenna			
Description	TI.	Modulation Type:	GFSK, Pi/4-DQPSK			
		Bit Rate of Transmitter:	Bluetooth :1/2Mbps			
Power Supply (Earphone)		Input: DC 5V DC 3.7V by 50mAh Rechargeable Li-ion battery				
Power Supply (Charger Box)		Input: DC 5V DC 3.7V by 300mAh Rechargeable Li-ion battery				
Software Version		1.0				
Hardware Version		1.0				

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.

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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:

Test separ	ration: 5mm					
	OHIT:	В	luetooth Mode (GFSK)	WW.		AMILIA
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	0.535	0±1	1	1.259	0.390	3.0
2.441	0.643	0±1	1	1.259	0.393	3.0
2.480	0.401	0±1	1	1.259	0.397	3.0
6	Will S	Bluet	tooth Mode (Pi/4-DQPS	K)	(M)	
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	1.437	1±1	2	1.585	0.491	3.0
2.441	1.408	1±1	2	1.585	0.495	3.0
2.480	1.133	1±1	2	1.585	0.499	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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