

RF Exposure Evaluation

FCC ID: 2A66E-SRC3925

1. Client Information

Applicant	:	Guangdong Seneasy Intelligent Technology Co., LTD
Address	:	No. 63, Huitai Industrial Zone, Huizhou City, Guangdong Province, China
Manufacturer	:	Guangdong Seneasy Intelligent Technology Co., LTD
Address	:	No. 63, Huitai Industrial Zone, Huizhou City, Guangdong Province, China

2. General Description of EUT

EUT Name	:	Bluetooth remote control	
Model(s) No.	:	RC-37(SRC-3925)	
Model Difference	:	----	
Product Description	:	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz
		Number of Channel:	BLE:40 channels
		Antenna Gain:	1.08dBi PCB Antenna
		Modulation Type:	GFSK
		Bit Rate of Transmitter:	1/2Mbps
Power Supply	:	DC 1.5V by AAA battery*2	
Software Version	:	V0.0.2	
Hardware Version	:	S3925A4414-CS	
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:

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

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

2. Calculation:

Test separation: 5mm						
Bluetooth LE 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	2.141	2±1	3	1.995	0.618	3.0
2.440	3.303	3±1	4	2.512	0.785	3.0
2.480	4.175	4±1	5	3.162	0.996	3.0
Bluetooth LE Mode(2Mbps)						
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	2.204	2±1	3	1.995	0.618	3.0
2.440	3.327	3±1	4	2.512	0.785	3.0
2.480	4.167	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.

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