

# RF Exposure Evaluation

**FCC ID: 2A66E-SRC3925**

## 1. Client Information

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

## 2. General Description of EUT

<b>EUT Name</b>	:	Bluetooth remote control	
<b>Model(s) No.</b>	:	RC-37(SRC-3925)	
<b>Model Difference</b>	:	----	
<b>Product Description</b>	:	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
<b>Power Supply</b>	:	DC 1.5V by AAA battery*2	
<b>Software Version</b>	:	V0.0.2	
<b>Hardware Version</b>	:	S3925A4414-CS	
<b>Remark:</b> 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  $\leq 5$  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 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.

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