

# T3-S3-MVSRBoard\_V1.0\_202409281440 Power Consumption Test Log

Date: 20241104  
LastEditTime: 20241104  
Test board: T3-S3-MVSRBoard\_V1.0\_202409281440  
Software name: Sleep\_Wake\_Up.ino  
Testing organization: LILYGO Laboratory

## 1. Test Environment Description

1.1 测试环境  
1.1 Test environment

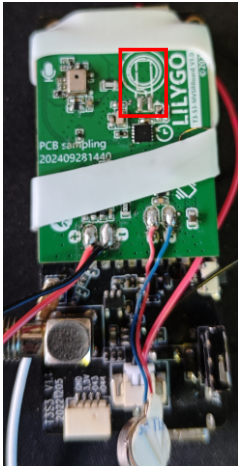
Test Tools	Sampling speed	Test Methodology	Input voltage	Test environment temperature
BLU939	100000 times/s	Battery Interface Measurement	+4.0V	25°C/77°F

1.2 测试的器件型号  
1.2 Test device model

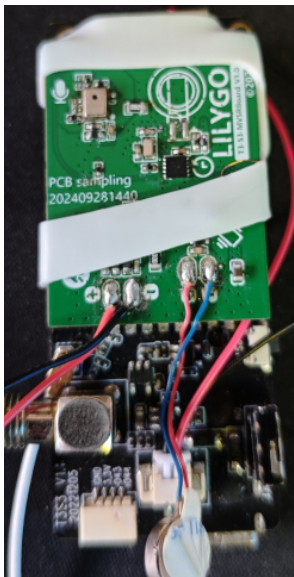
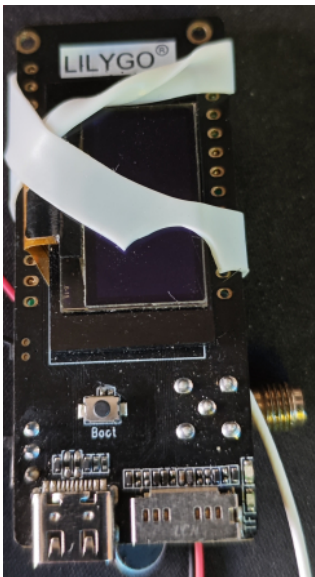
Test device	Screen	Lora	Amplifier	Microphone
Corresponding model	SSD1306	SX1262	MAX98357AETE+T	MSM261S4030H0

## 2. Modification Instructions

2.1 拆除RTC备用电池  
2.1 Remove RTC backup battery

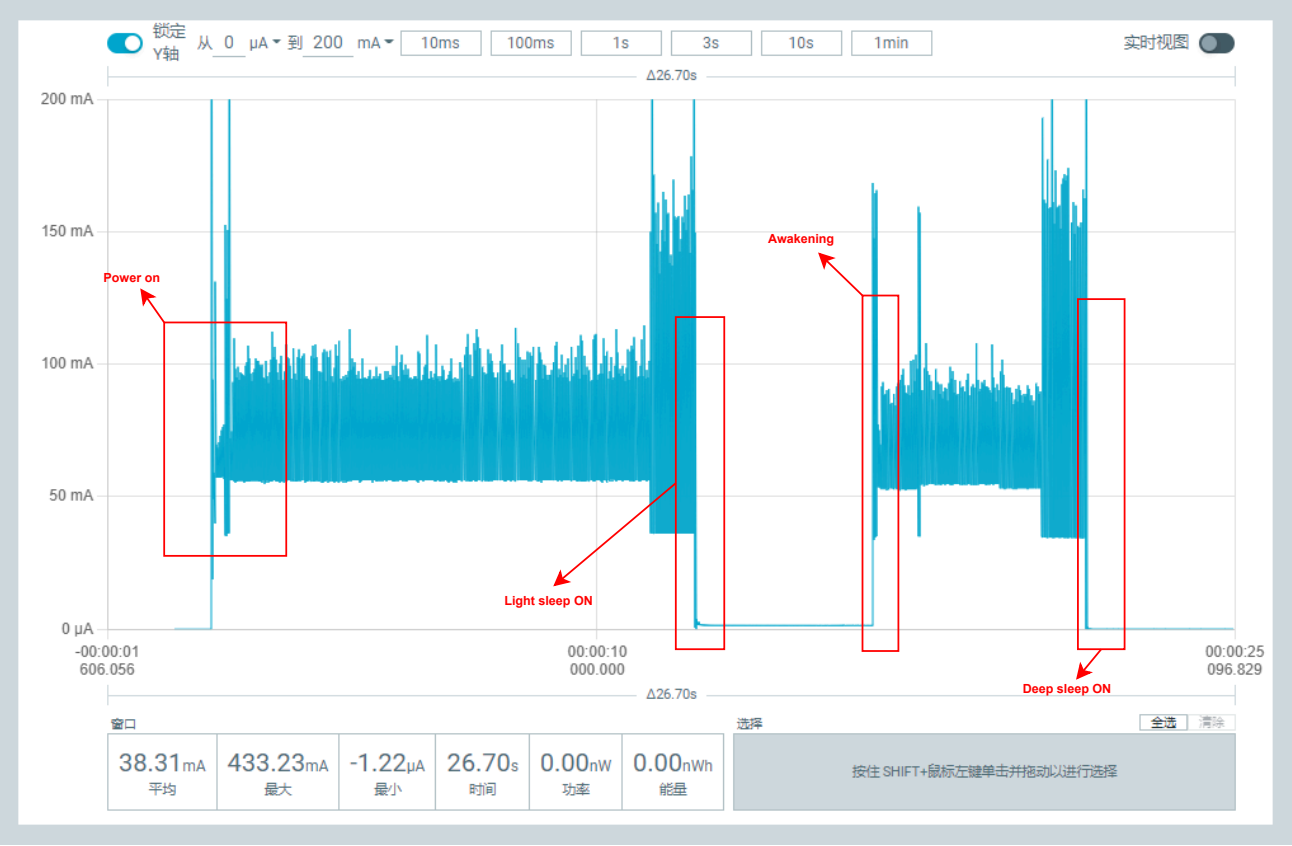


## 3. Test Physical Object Image

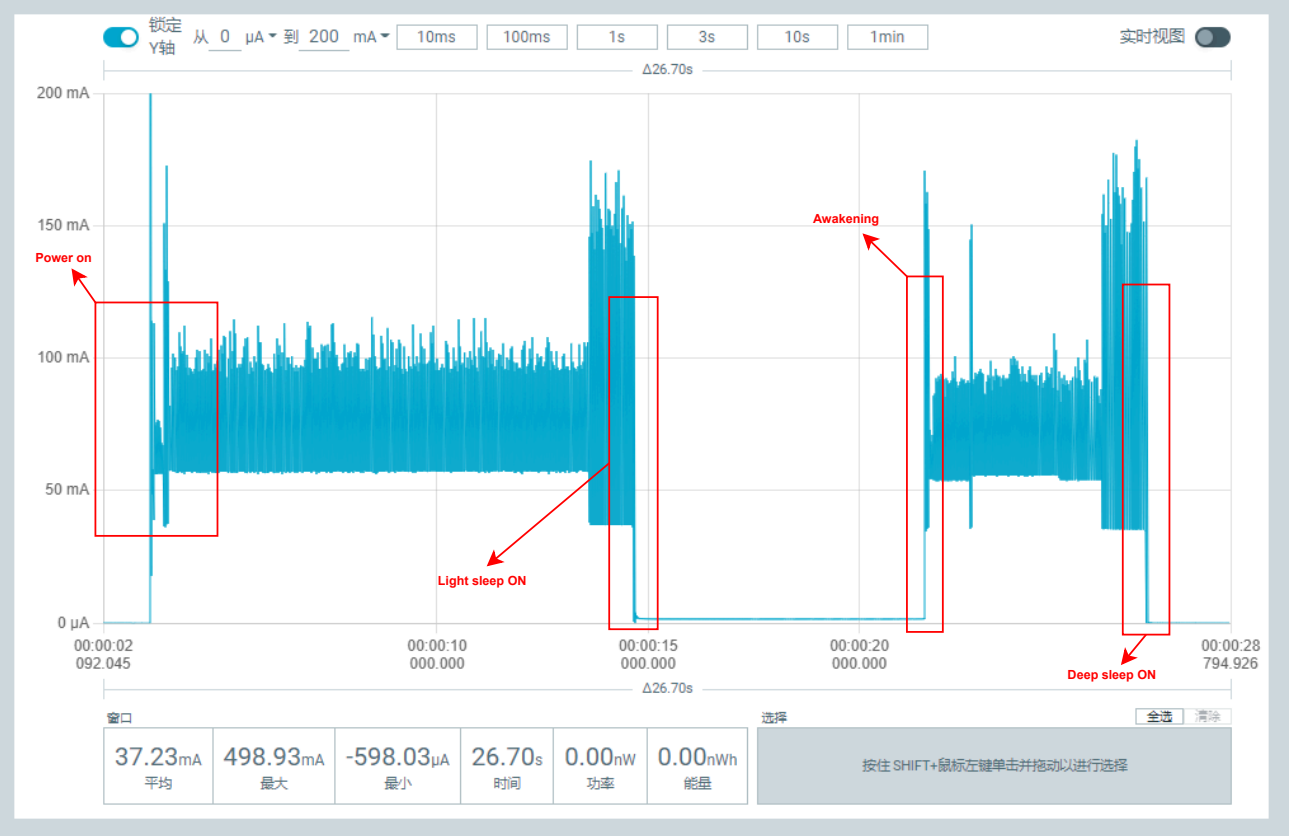


## 4. Power consumption testing

4.1 T3-S3单板功耗图如下  
4.1 The power consumption chart for the T3-S3 board is as follows



4.2 T3-S3+T3-S3-MVSRBoard板功耗图如下  
4.2 The power consumption chart for the T3-S3 and T3-S3-MVSR Board boards is as follows

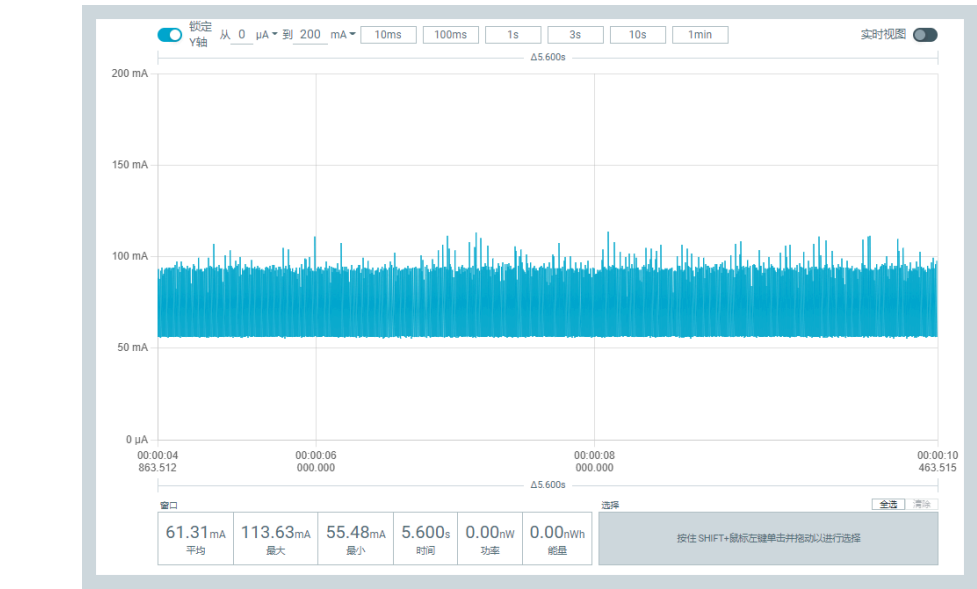


4.3 Current Test Status Diagram:

4.3.1 T3-S3 board:

ESP32S3	LED1	Screen	Lora	Amplifier	Microphone
ON	ON	ON	ON	ON	ON

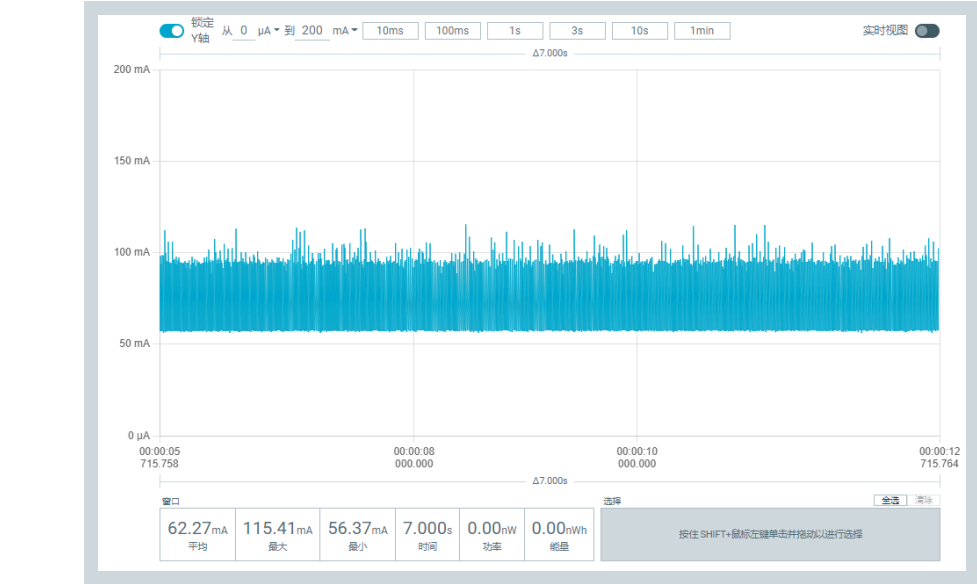
Test result: average 61.31 mA



4.3.2 T3-S3+T3-S3-MVSRBoard board:

ESP32S3	LED1	Screen	Lora	Amplifier	Microphone
ON	ON	ON	ON	ON	ON

Test result: average 62.27 mA



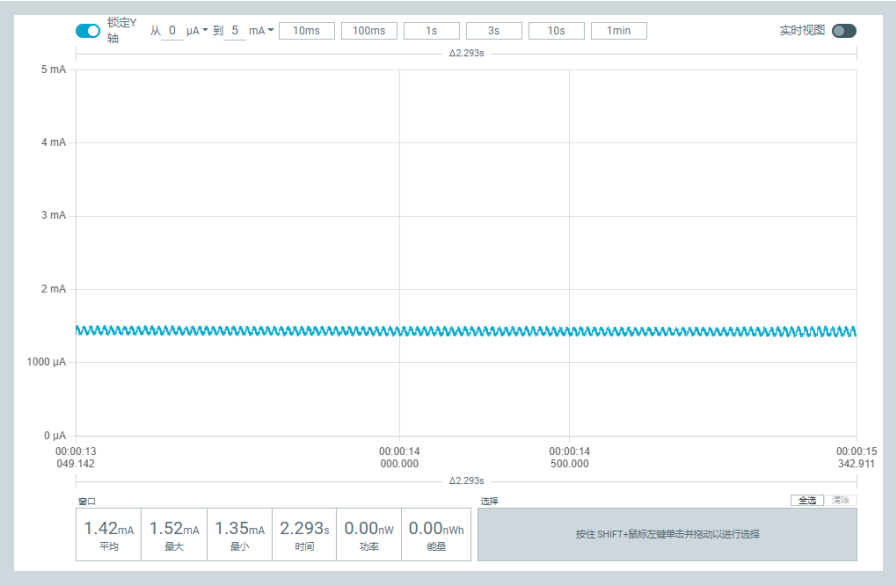
T3-S3-MVSRBoard power consumption: average 0.96 mA

4.4 Current Test Status Diagram:

4.4.1 T3-S3 board:

ESP32S3	LED1	Screen	Lora	Amplifier	Microphone
Light Sleep	OFF	Sleep	Sleep	OFF	OFF

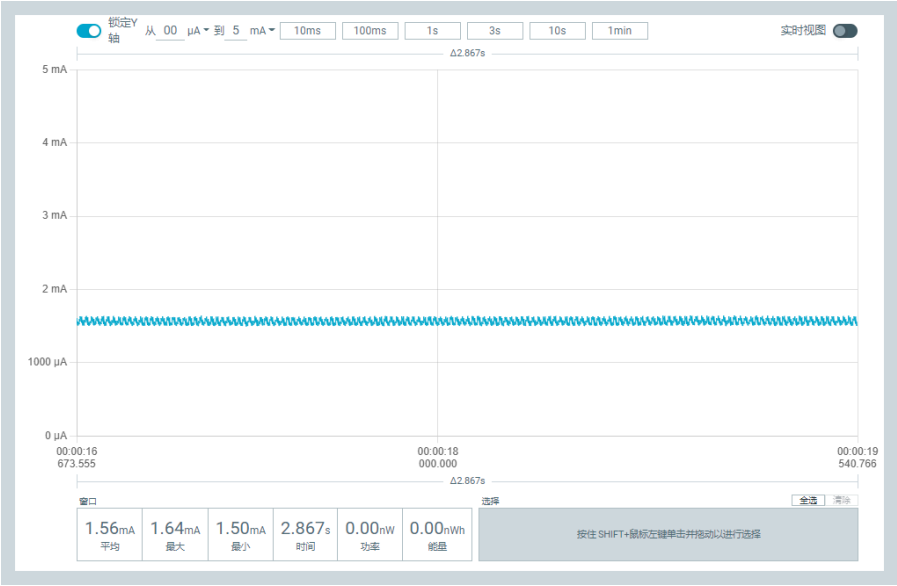
Test result: average 1.42 mA



4.4.2 T3-S3+T3-S3-MVSRBoard board:

ESP32S3	LED1	Screen	Lora	Amplifier	Microphone
Light Sleep	OFF	Sleep	Sleep	OFF	OFF

Test result: average 1.56 mA



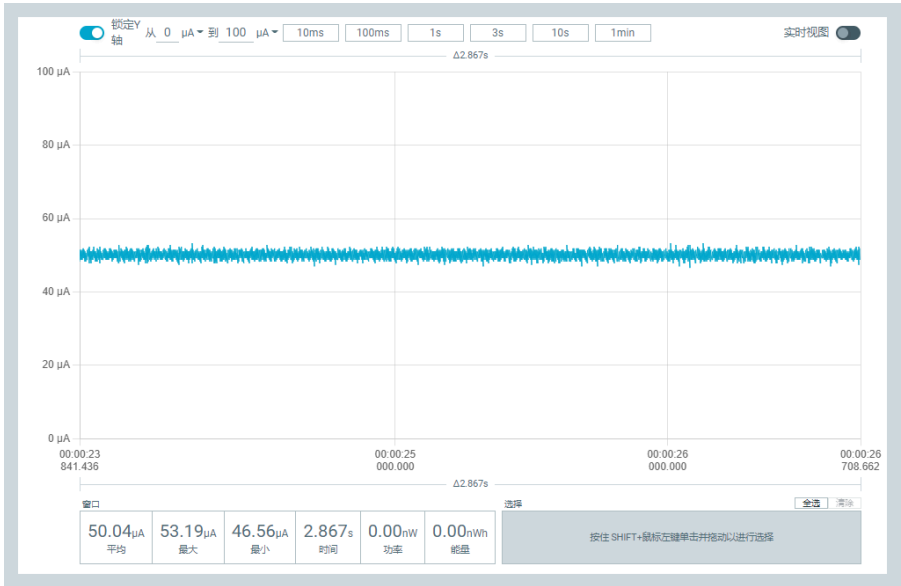
T3-S3-MVSRBoard power consumption: average 0.14 mA

4.5 Current Test Status Diagram:

4.5.1 T3-S3 board:

ESP32S3	LED1	Screen	Lora	Amplifier	Microphone
Deep Sleep	OFF	Sleep	Sleep	OFF	OFF

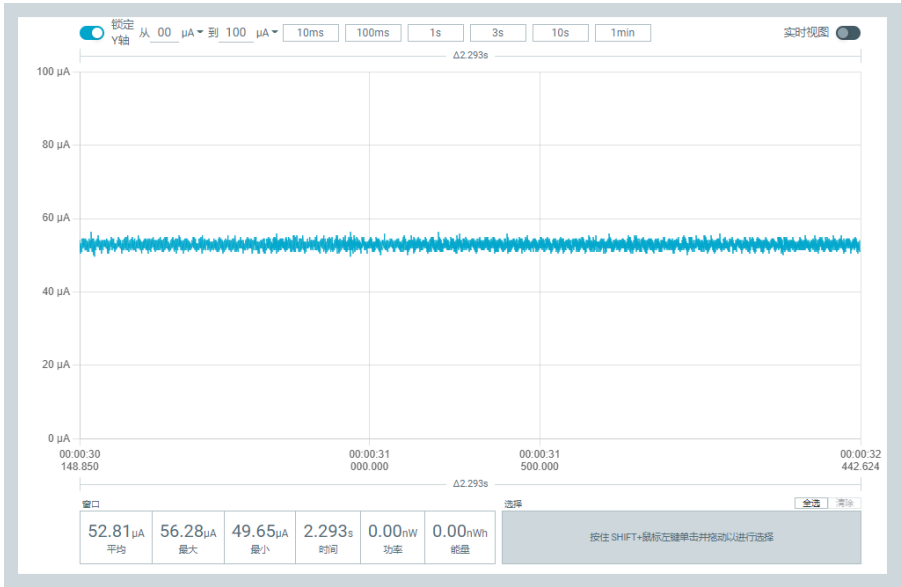
Test result: average 50.04  $\mu$ A



4.5.2 T3-S3+T3-S3-MVSRBoard board:

ESP32S3	LED1	Screen	Lora	Amplifier	Microphone
Deep Sleep	OFF	Sleep	Sleep	OFF	OFF

Test result: average 52.81  $\mu$ A



T3-S3-MVSRBoard power consumption: average 2.77  $\mu$ A