

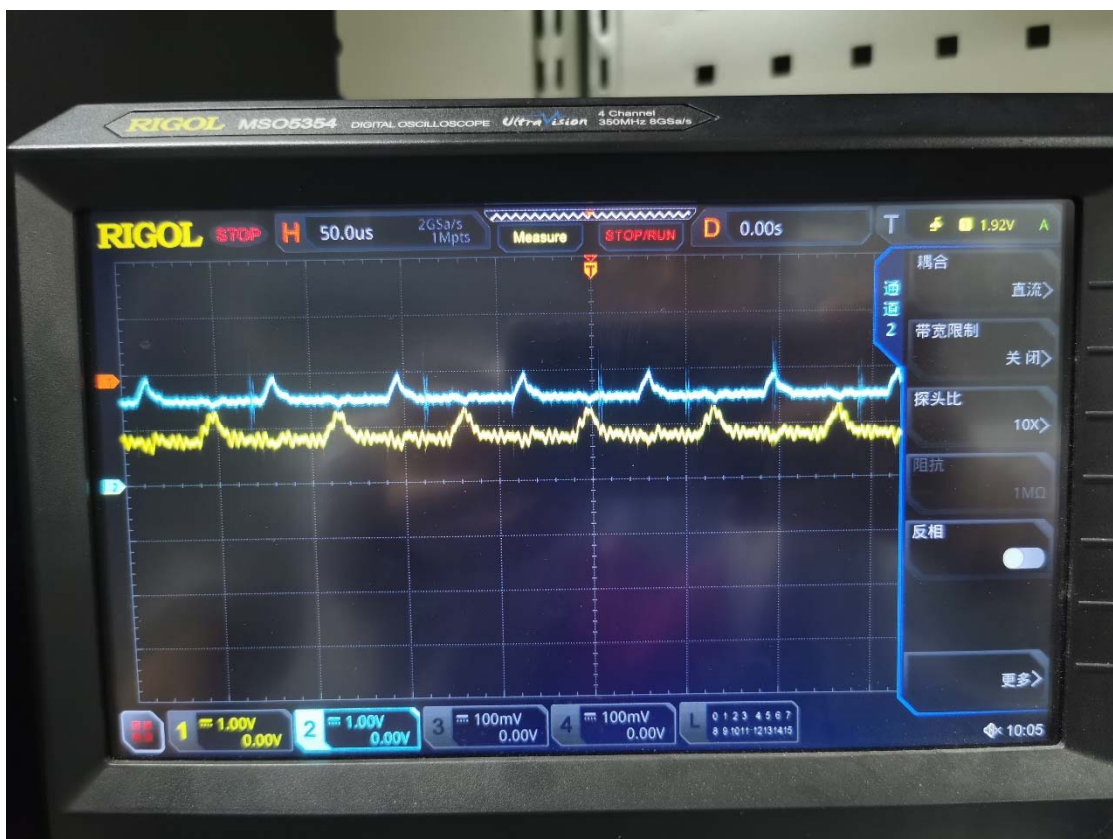
电机运转过程中，无法使占空比为固定值，因此不能给出固定占空比时候的波形图，因为我们的问题是，人为用力使电机堵转时（也就是电机先运转正常然后堵住），有时候输出电流为0的现象。所以采集了在电机堵住时正常输出电流和异常输出电流两种情况的波形。

During the operation of the motor, it is not possible to set the duty cycle to a fixed value, so we cannot provide a waveform diagram for a fixed duty cycle. This is because our problem is that When the motor is blocked by human force (i.e. the motor runs normally first and then blocks), sometimes the output current is 0. Therefore, we collected waveforms for two situations: normal output current and abnormal output current when the motor is stuck.

1、正常：用手堵转电机时，ISENA 或 ISENB 有电流输出，条件 SLEW=AVDD

Normal: When manually blocking the motor, ISENA or ISENB has current output, with SLEW=AVDD

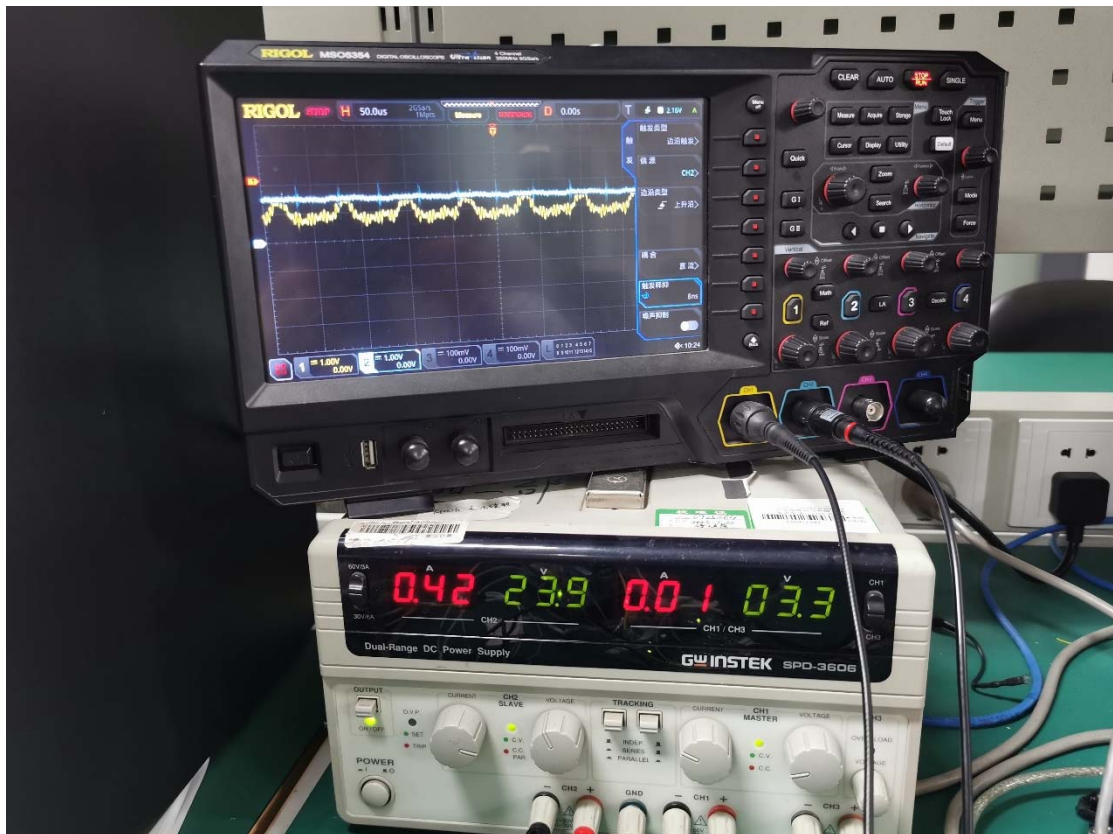
黄色-ISENA 蓝色—ISENB Yellow represents ISENA, blue represents ISENB



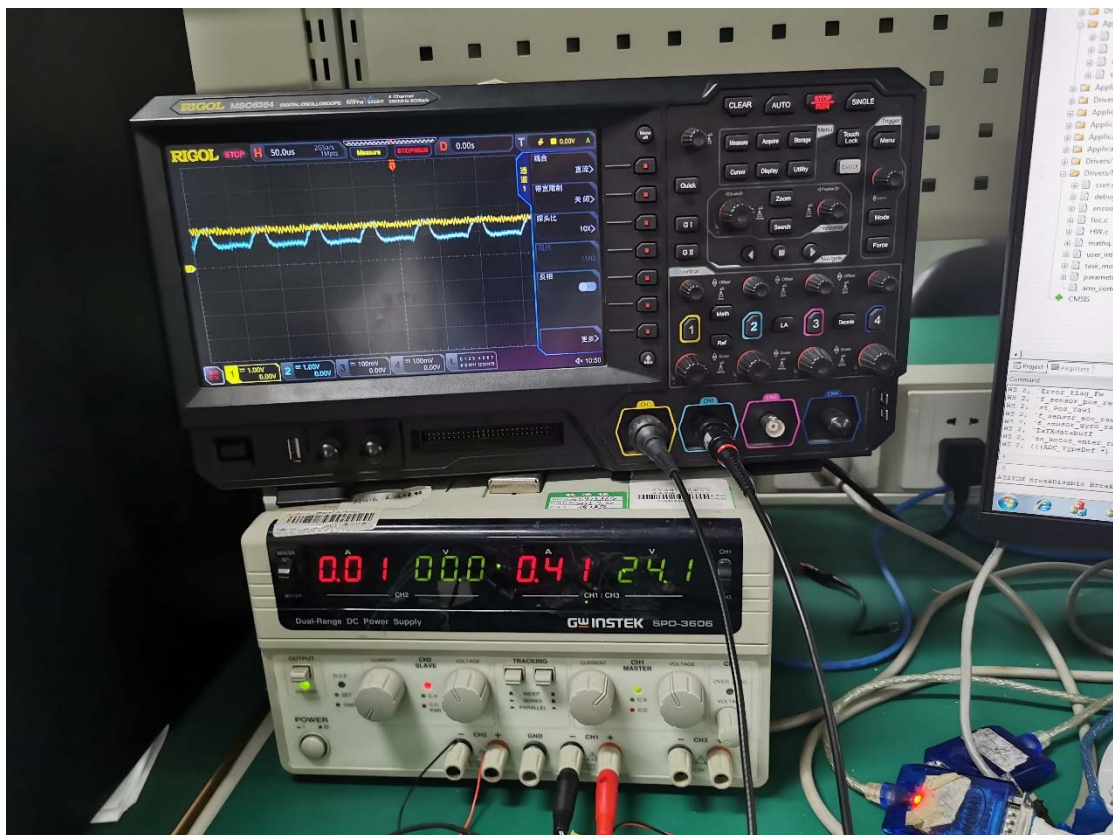
黄色 ISENA 蓝色 OUTA Yellow represents ISENA, blue represents OUTA



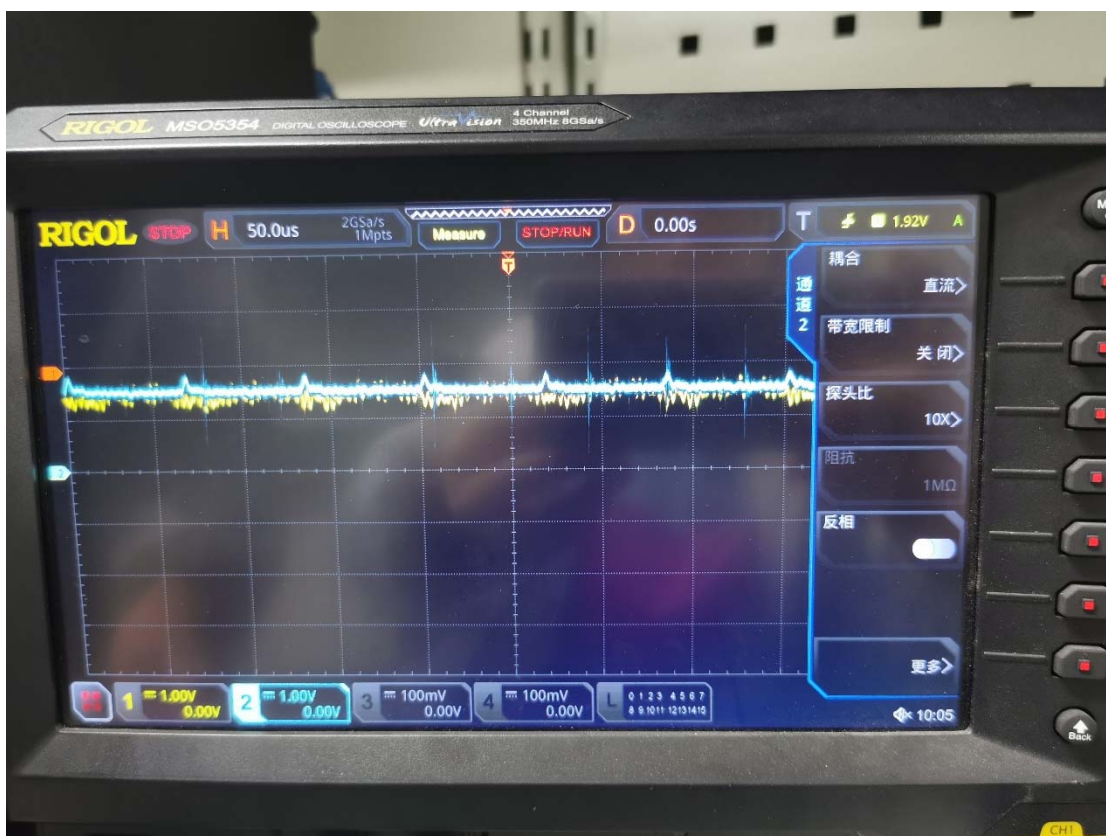
黄色-ISENA 蓝色-ISENB, 电流 420mA Yellow represents ISENA, blue represents ISENB, current 420mA



黄色-ISENA 蓝色-ISENB, 电流 420mA, SLEW=AGND Yellow represents ISENA, blue represents ISENB, current 420mA SLEW=AGND



- 2、异常：用手堵转电机时，ISENA 和 ISENB 都无电流输出，直流电压 1.5v，SLEW=AVDD
Abnormal: When manually blocking the motor, both ISENA and ISENB have no current output, with a DC voltage of 1.5v , SLEW=AVDD
黄色 ISENA 蓝色 ISENB Yellow represents ISENA, blue represents ISENB

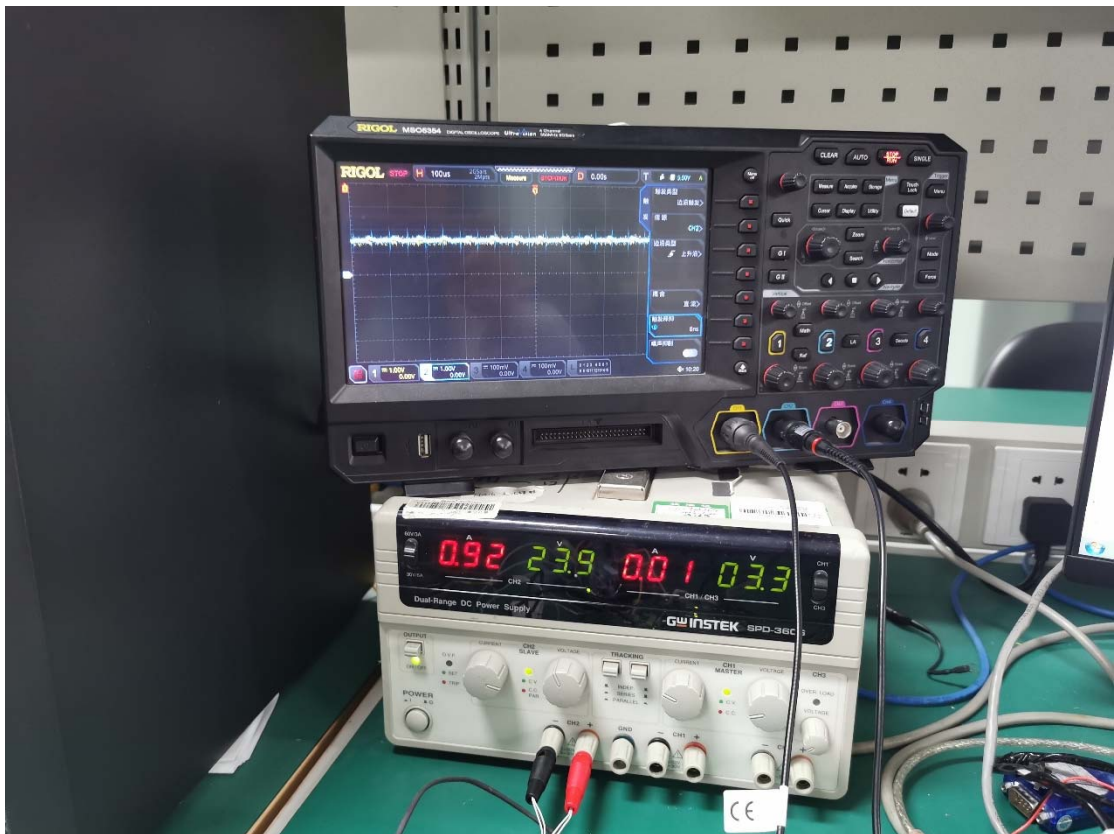


黄色 Isena 蓝色 OUTA Yellow represents ISENA, blue represents OUTA

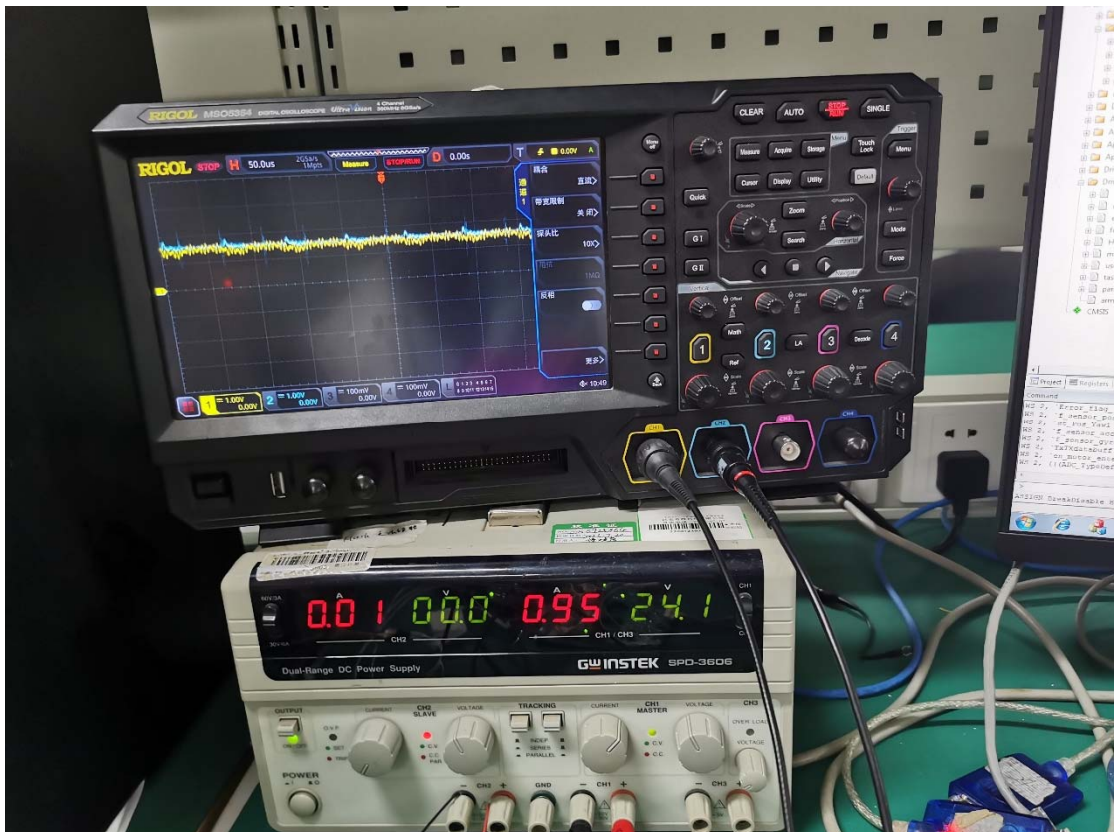


黄色 ISENA 蓝色 ISENB, 电流已经增加到 920Ma. Yellow represents ISENA, blue represents

ISENB , The current has increased to 920mA.



黄色 ISENA 蓝色 ISENB, 电流增加到 950ma, SLEW=AGND。Yellow represents ISENA, blue represents ISENB , The current has increased to 950Ma, SLEW=AGND



黄色 SOA 蓝色 SOB 无输出，SLEW=AGND。Yellow represents SOA, blue represents SOB, SLEW=AGND



因此，我们目前的主要问题是：为什么电机有力的情况下，从 8311 开发板源端（SOA,SOB）采集到的电流为 0。

Therefore, our current main question is: why is the current collected from the source (SOA, SOB) of the 8311 development board is 0, when the motor is strong power.