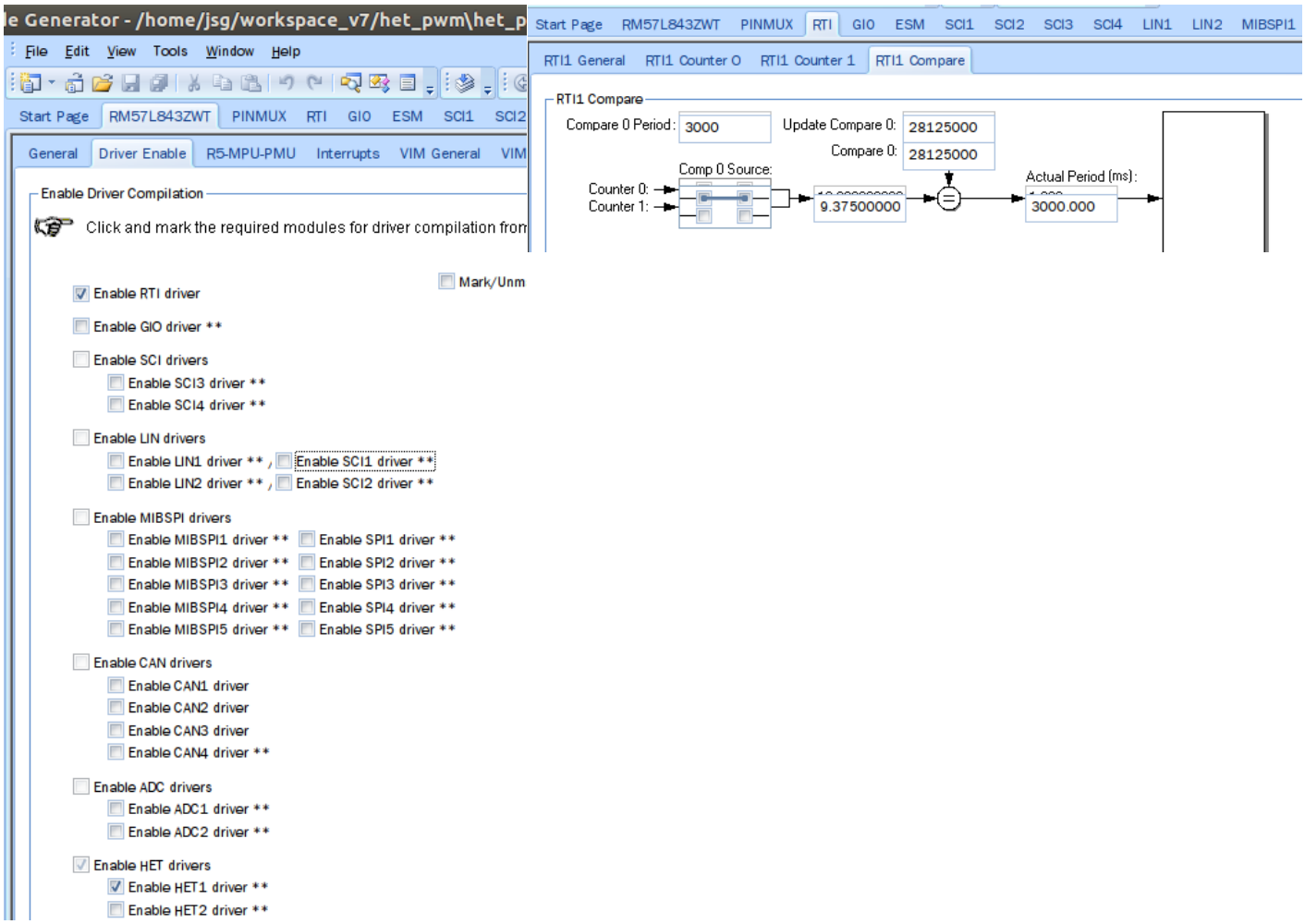
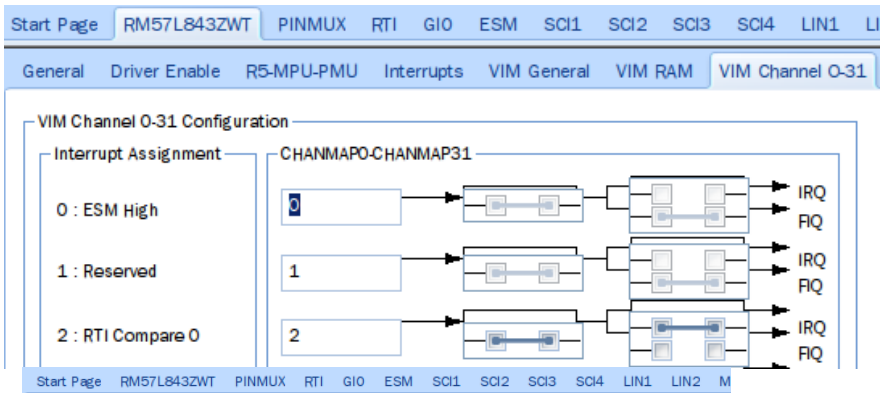
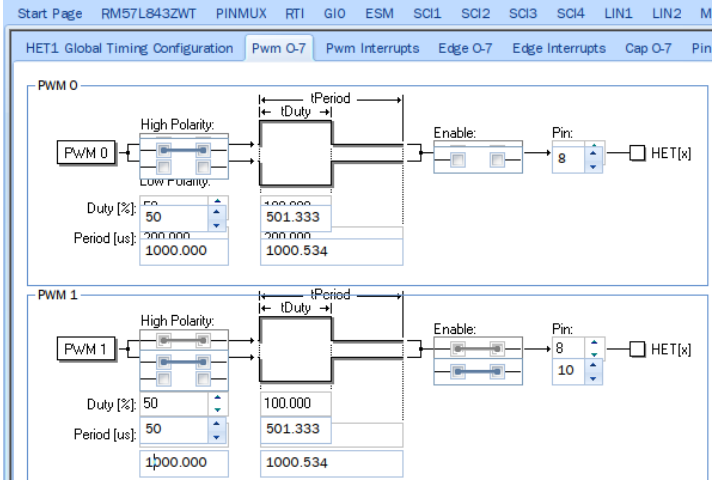
MCU (hetPwm사용)

* Duty : 50% → 70%
* RTI 사용





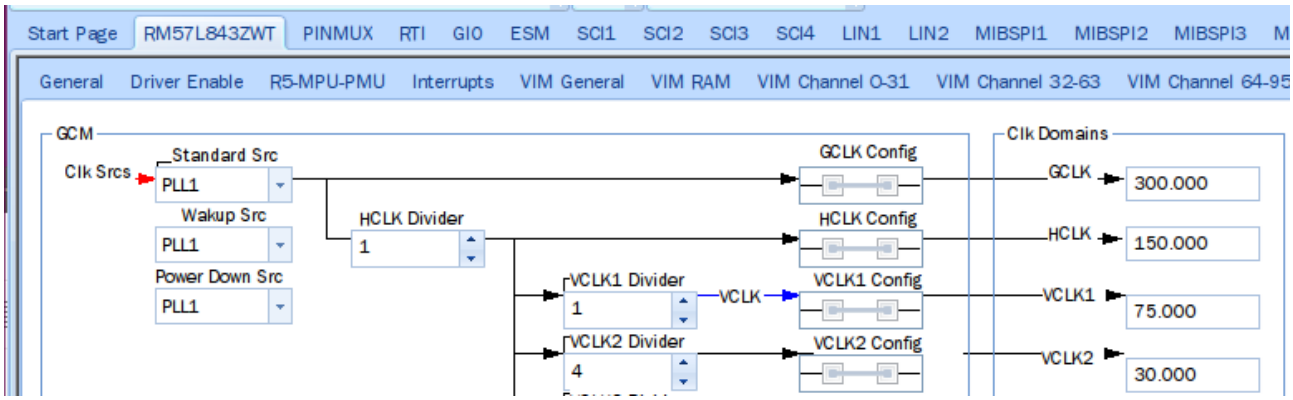


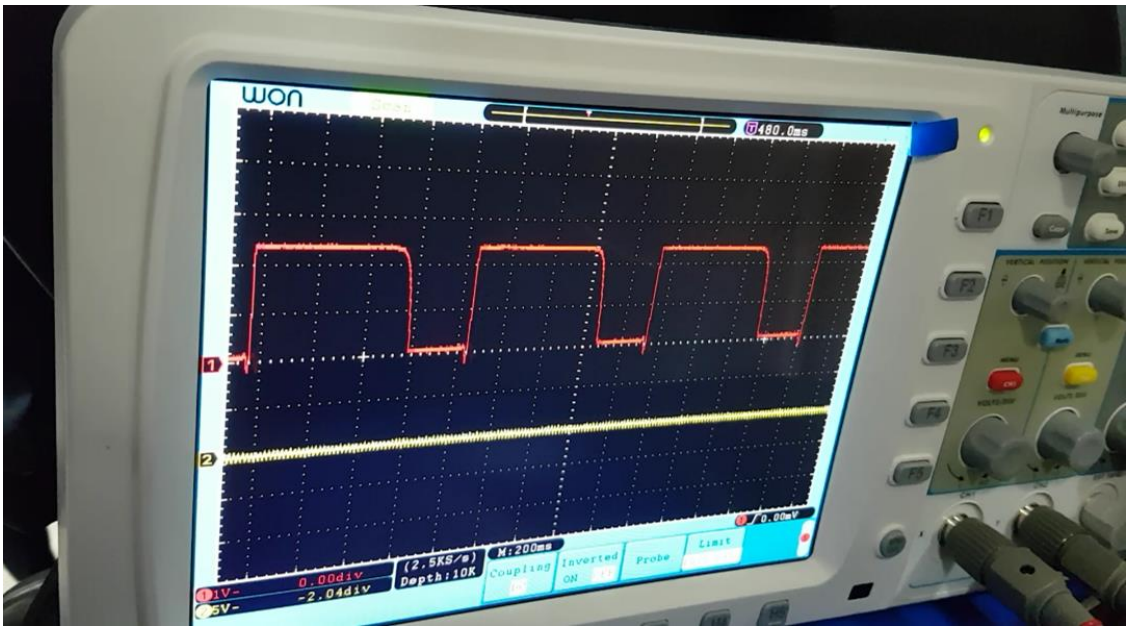
```
#include "HL_sys_common.h"
#include "HL_system.h"
#include "HL_het.h"
#include "HL_rti.h"

void main(void)
{
   rtiInit();
   hetInit();


rtiEnableNotification(rtiREG1,rtiNOTIFICATION_COMPARE0);
   _enable_IRQ_interrupt_();
   rtiStartCounter(rtiREG1,rtiCOUNTER_BLOCK0);

   while(1)
      ;
}

void rtiNotification(rtiBASE_t *rtiREG, uint32 notification)
{
   pwmSetDuty(hetRAM1,  pwm1, 70);
}
```

MCU

주파수 변경 : 30

VCLK2 Divider: 1 → 4





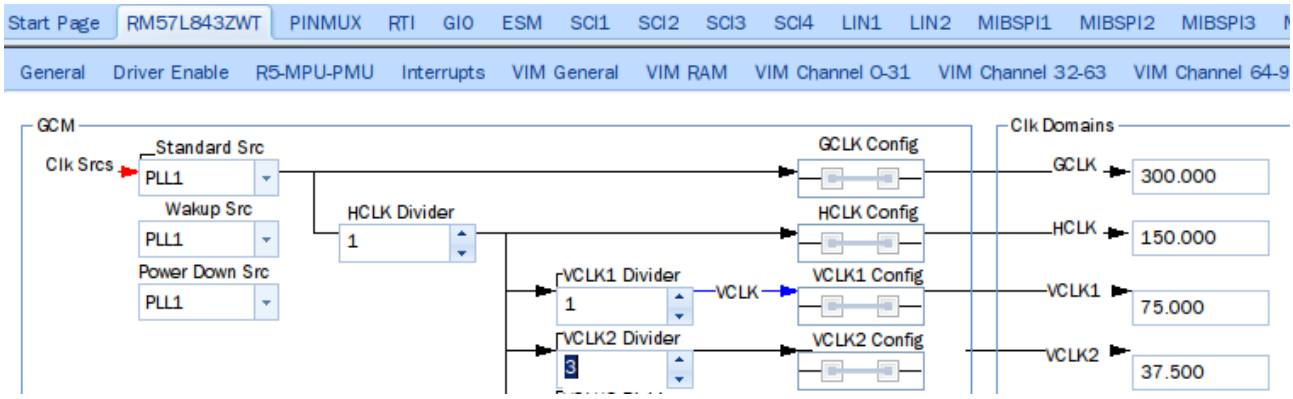
주기 : 800 + a m/s

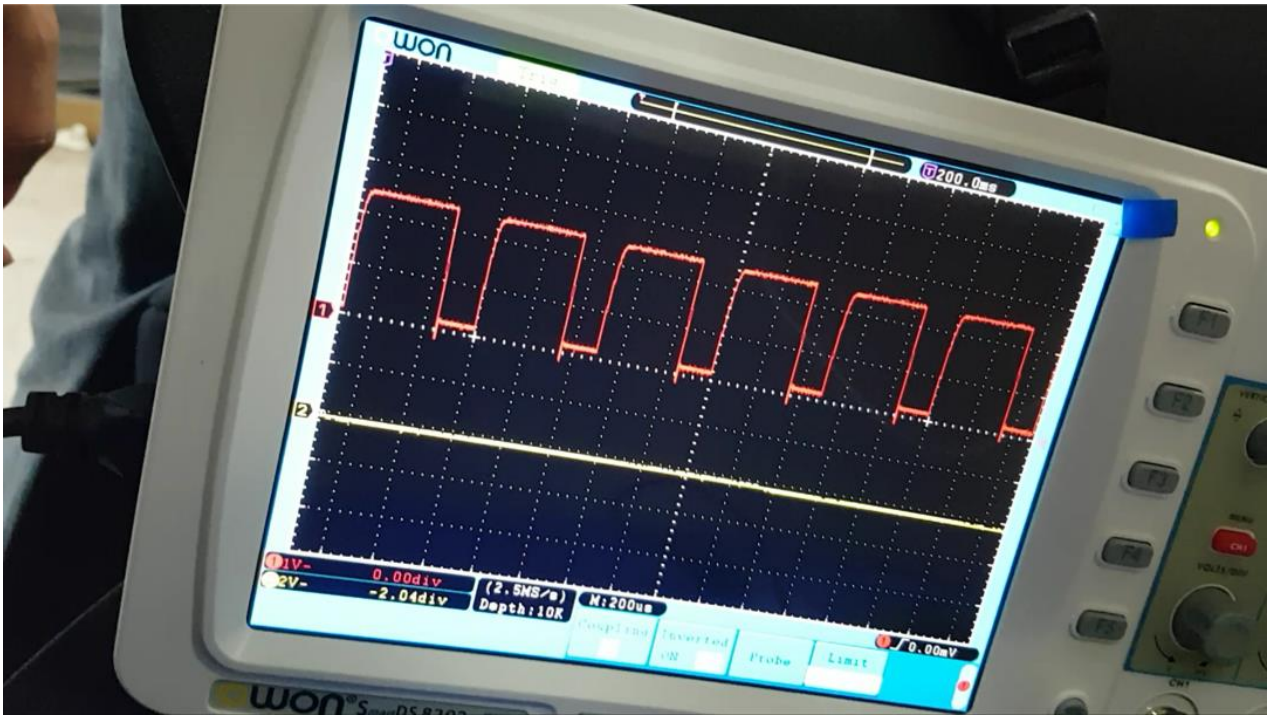
펄스 폭 : 600m/s

MCU

주파수 변경 : 37.5

VCLK2 Divider: 1 → 4





주기 : 500u/s

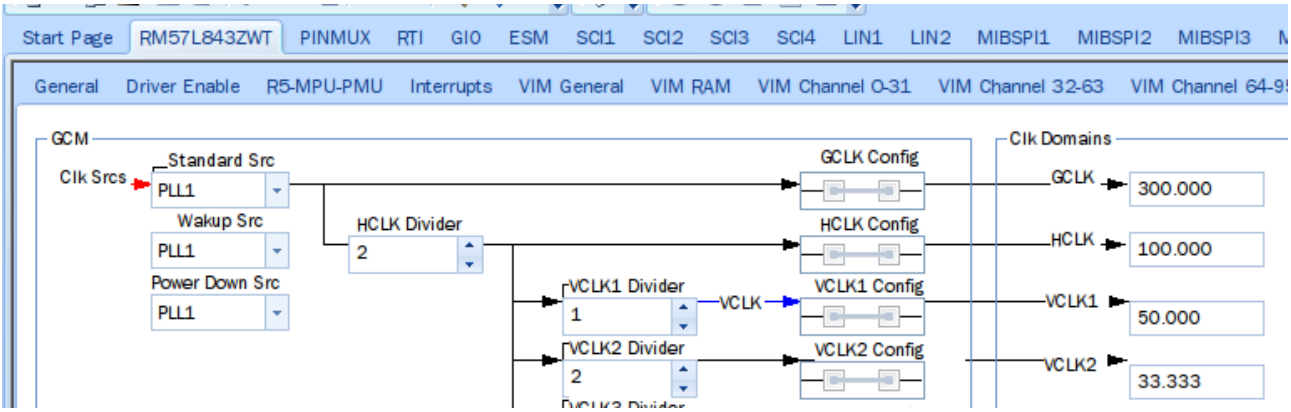
펄스 폭 : 300u/s

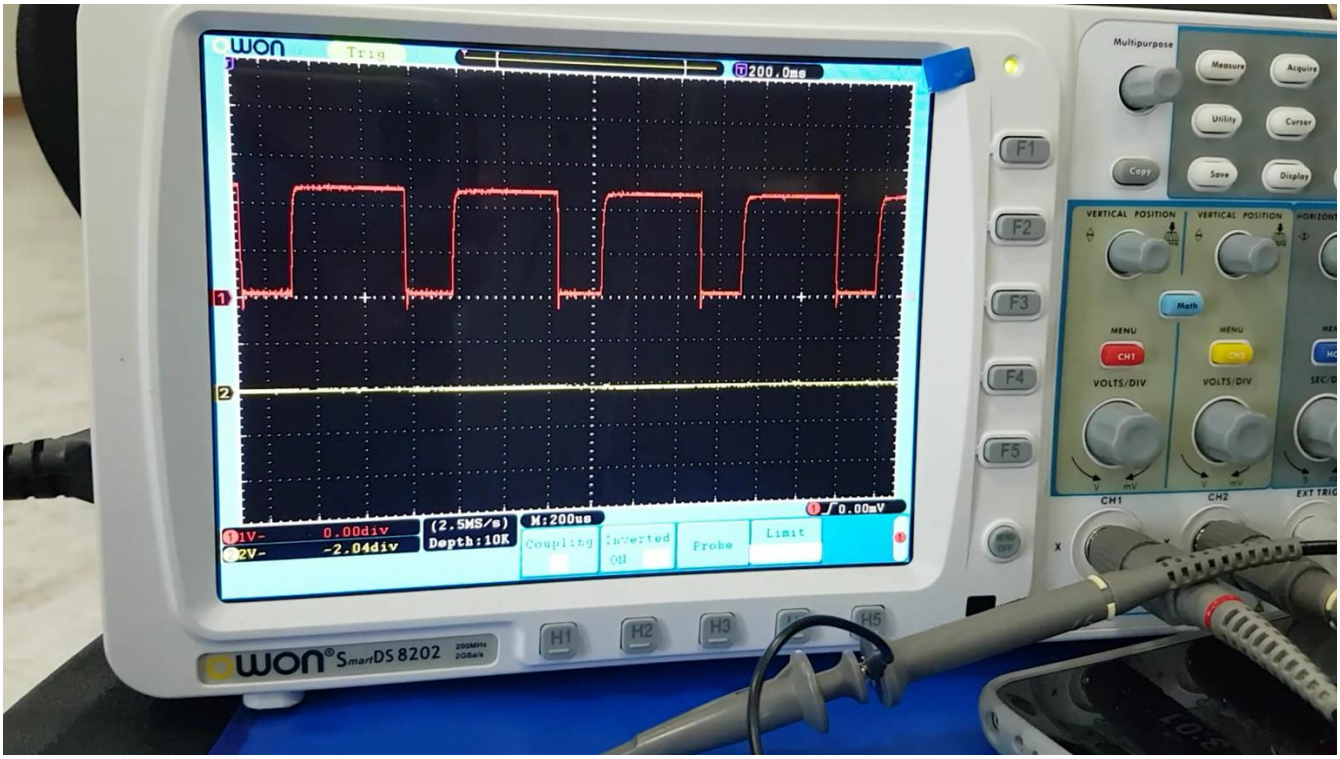
MCU

주파수 변경 : 33.333333

HCLK Divider : 1 → 2

VCLK2 Divider: 1 → 2





주기 : 600 + a u/s

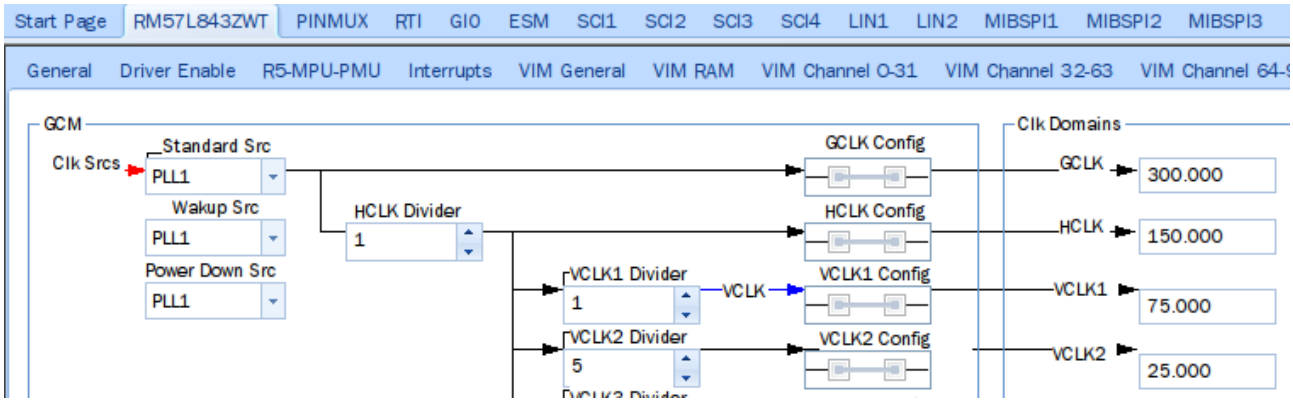
펄스 폭 : 400u/s

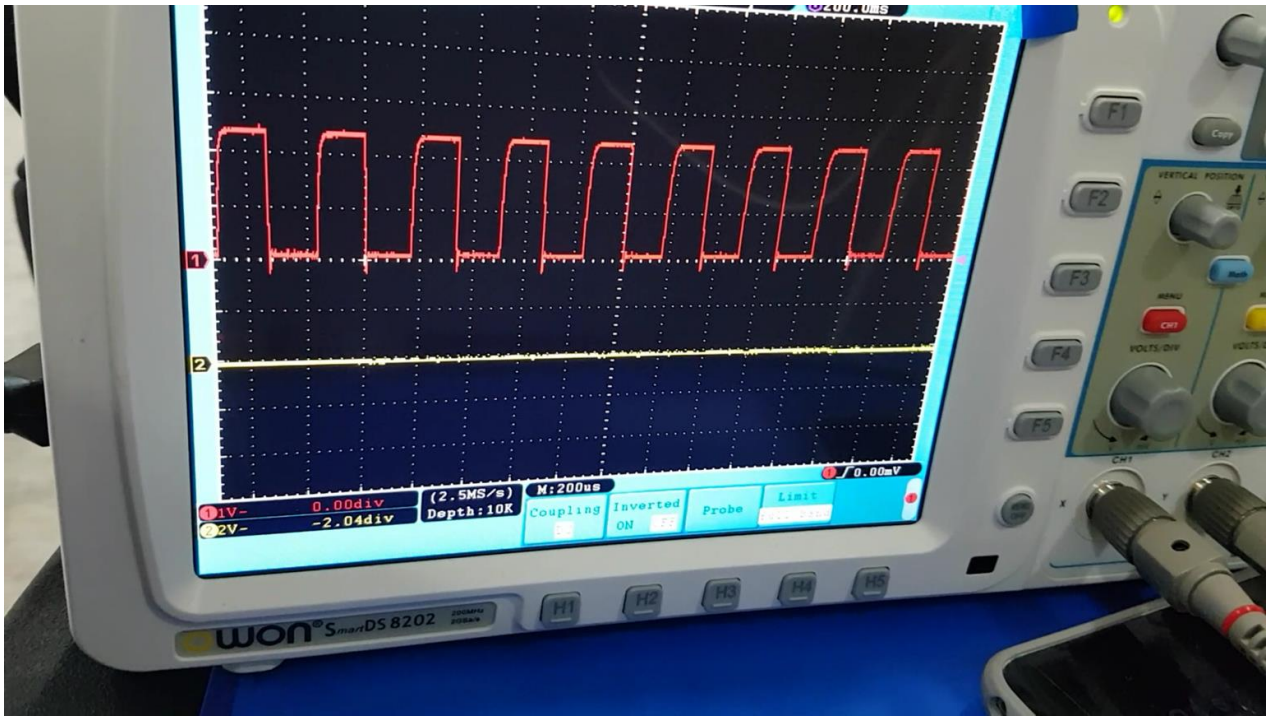
MCU

주파수 변경 : 25

HCLK Divider : 1

VCLK2 Divider: 1 → 5





주기 : 350 + a u/s

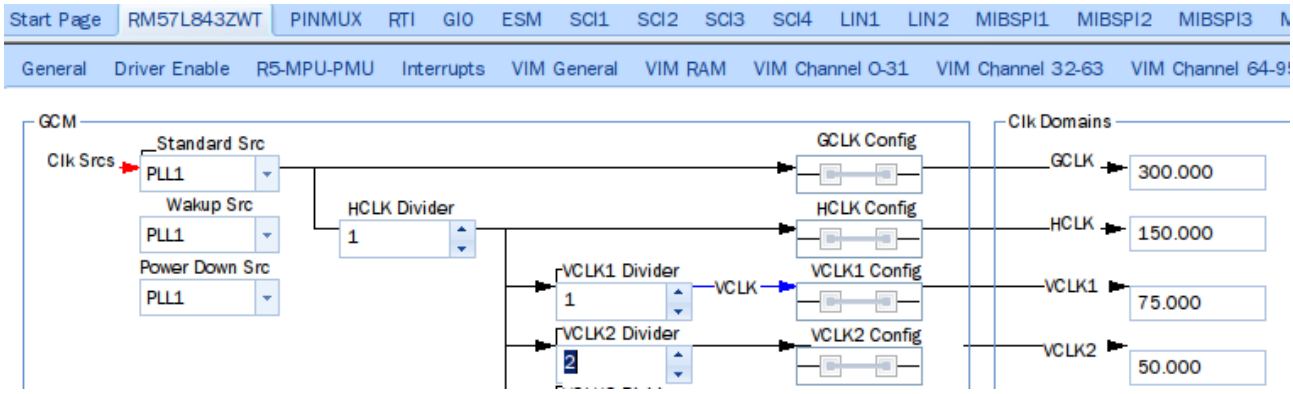
펄스 폭 : 200 + a u/s

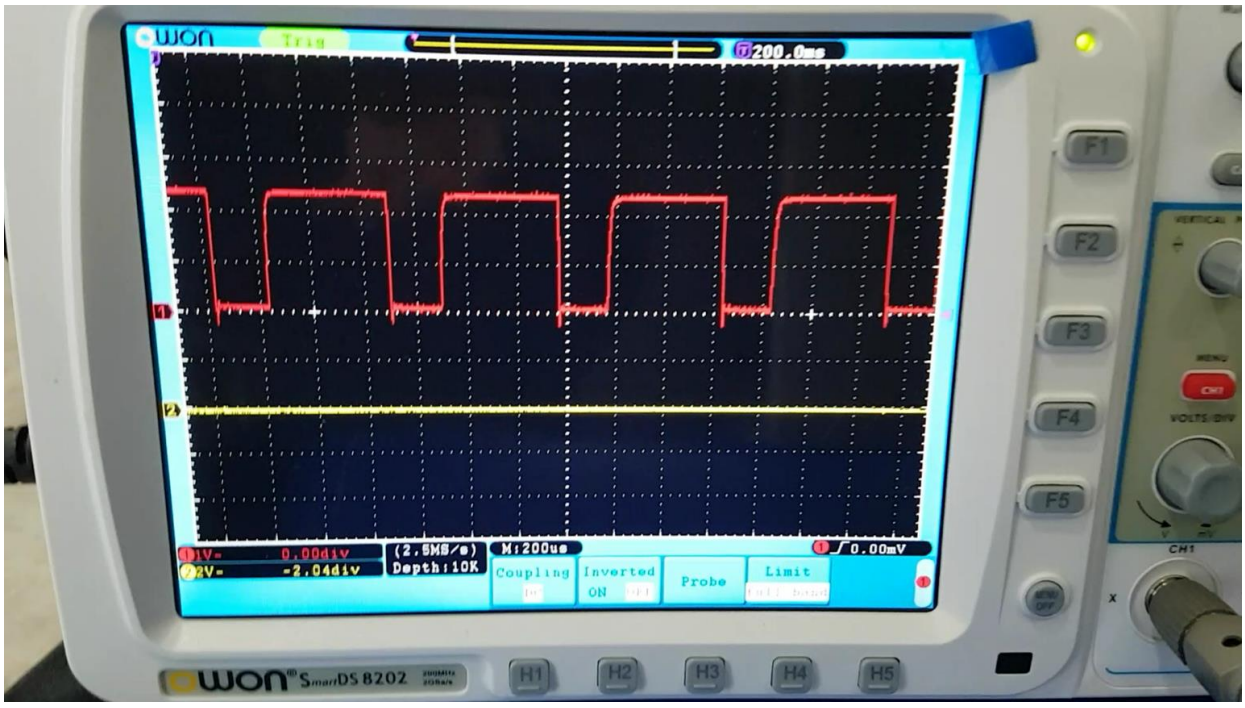
MCU

주파수 변경 : 50

HCLK Divider : 1

VCLK2 Divider: 1 → 2





주기 : 700 u/s

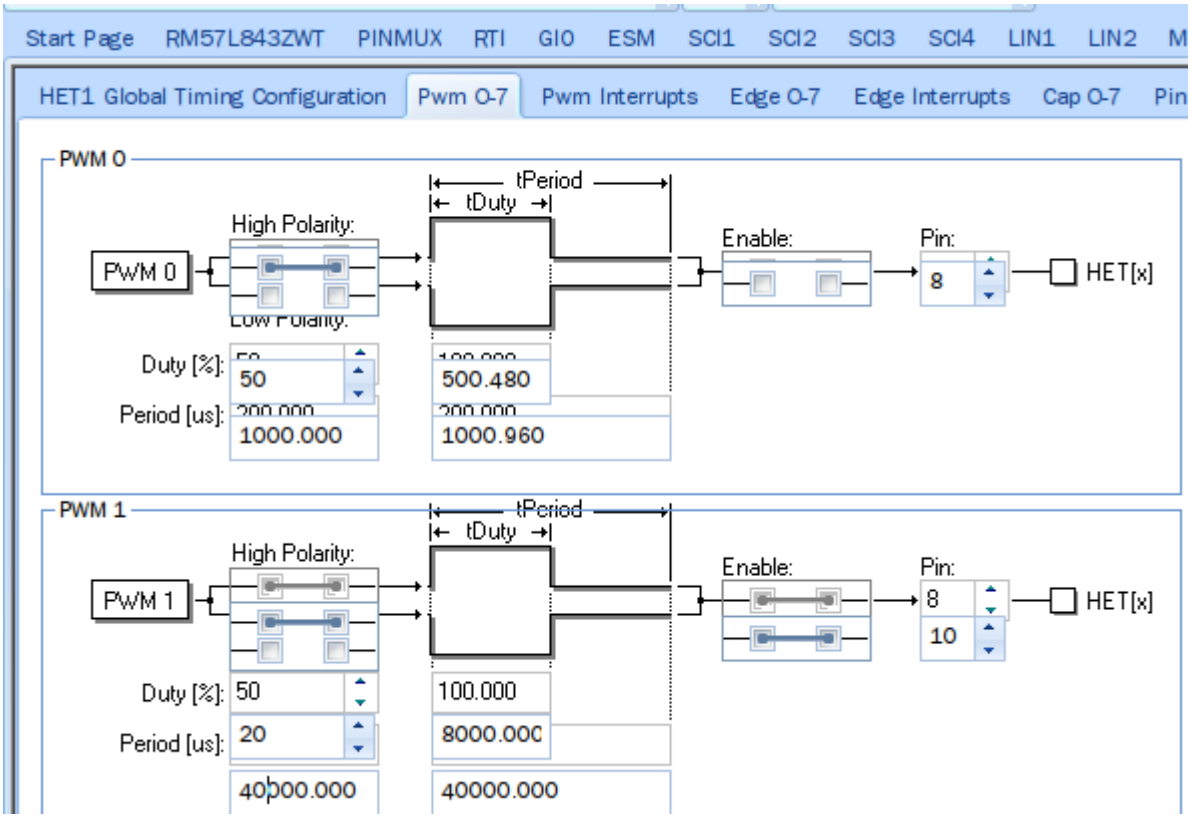
펄스 폭 : 400 + a u/s

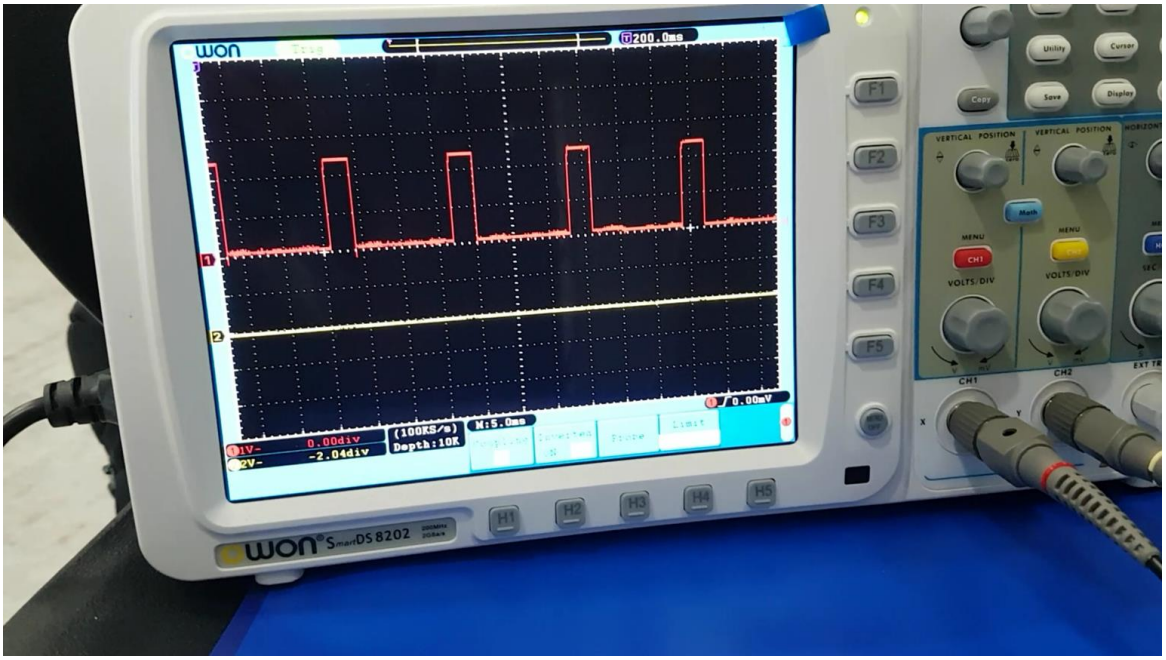
MCU

Duty 변경 : 20

Period[us] 변경 : 40000.000

PWM1을 Enable





주기 : 16 m/s

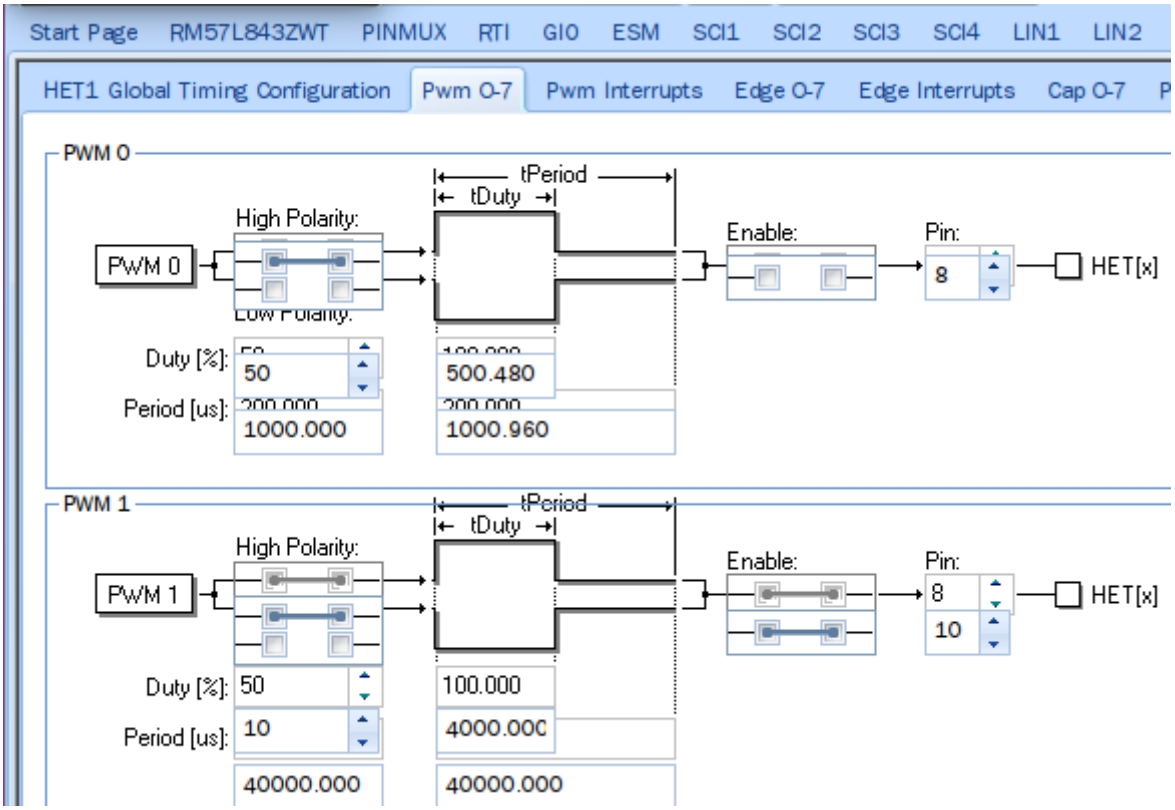
펄스 폭 : 3 m/s

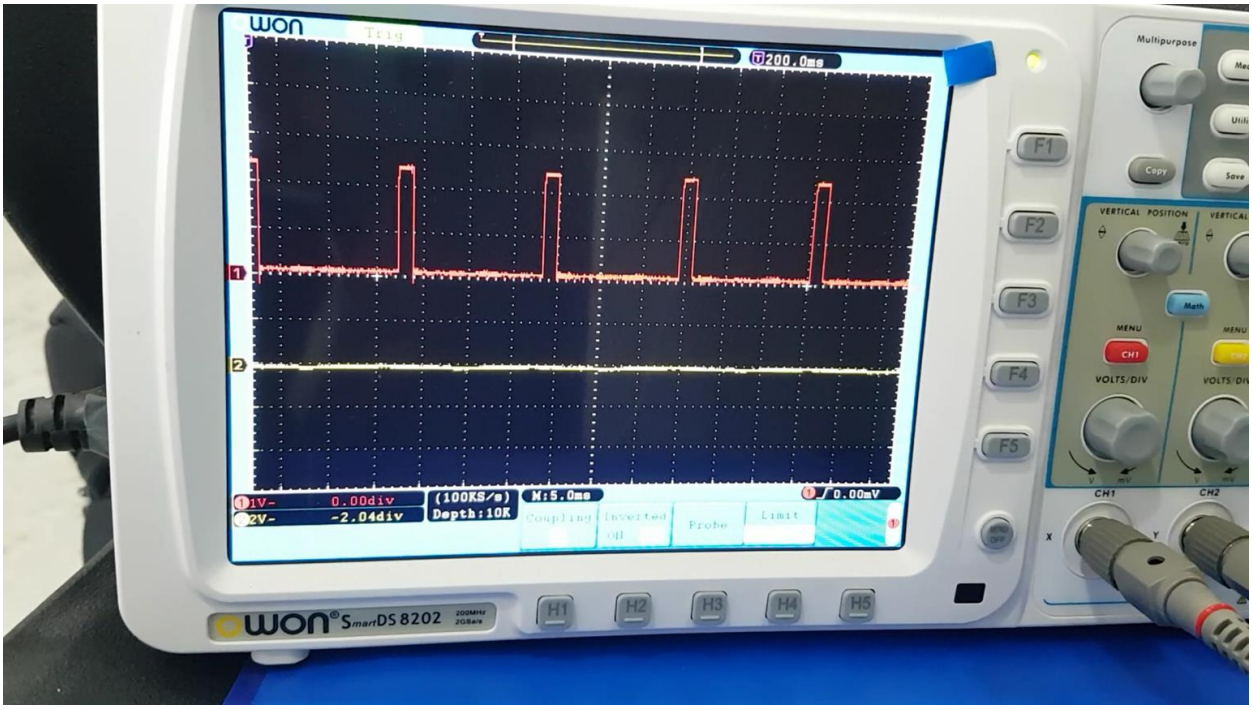
MCU

Duty 변경 : 20

Period[us] 변경 : 40000.000

PWM1을 Enable





주기 : 16 m/s

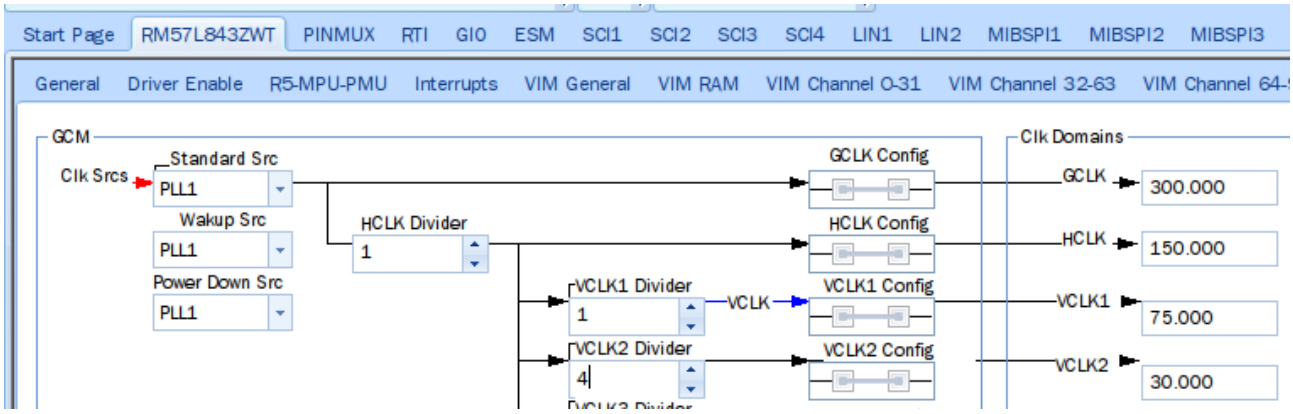
펄스 폭 : 2 m/s

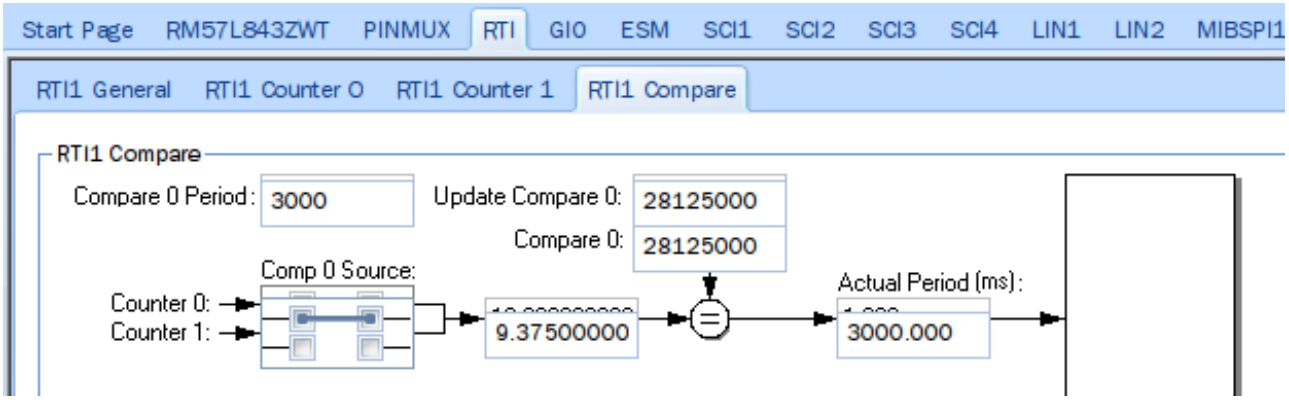
MCU

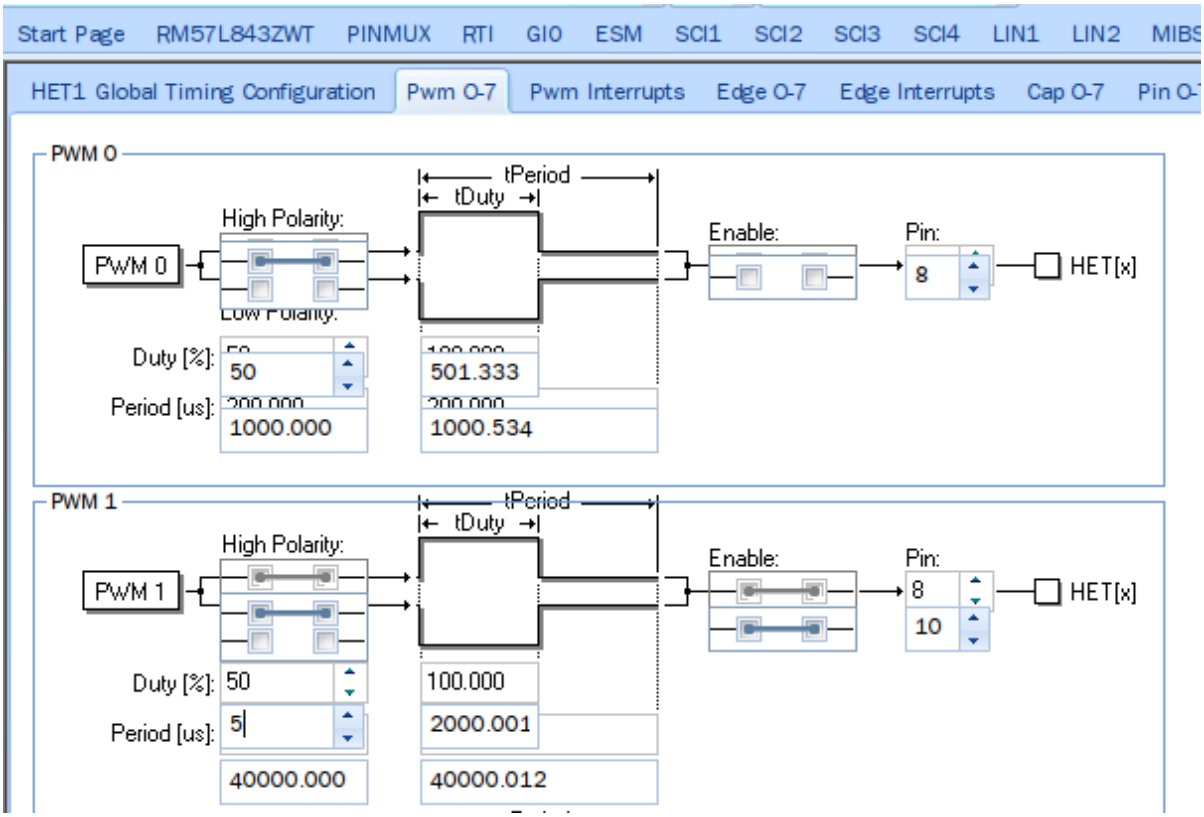
Compare 0 Period 변경 : 3000

Period[us] 변경 : 40000.000

PWM1을 Enable, CCS 소스 변경

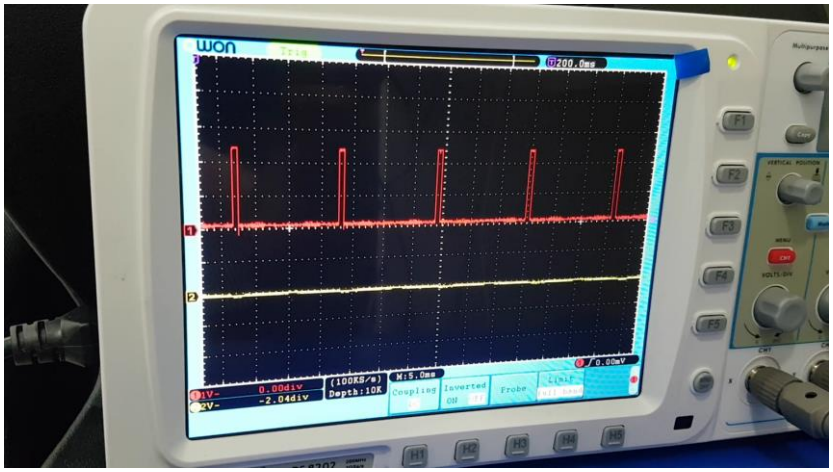




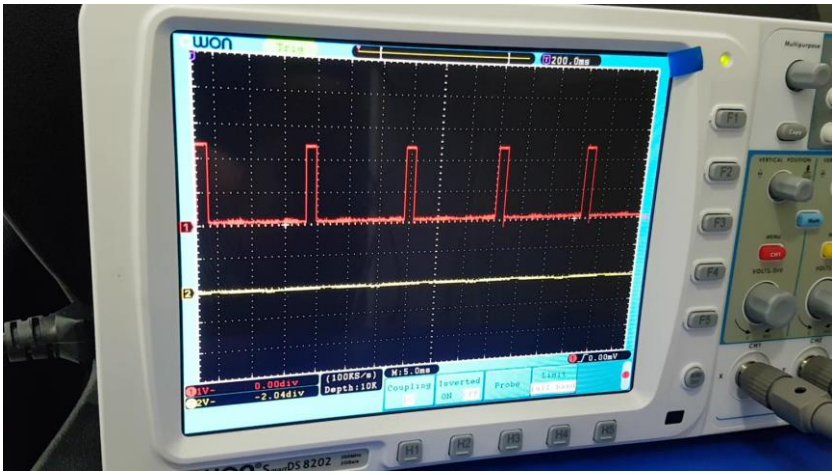

Start Page
RM57L843ZWT
PINMUX
RTI
GIO
ESM
SCI1
SCI2
SCI3
SCI4
LIN1
LIN2
HET1 Global Timing Configuration
Pwm 0-7
Pwm Interrupts
Edge 0-7
Edge Interrupts
Cap 0-7
PWM 0
tPeriod
tDuty
High Polarity:
PWM 0
Enable:
Pin:
8
HET[x]
Duty [%]:
50
501.333
Period [us]:
1000.000
1000.534
PWM 1
tPeriod
tDuty
High Polarity:
PWM 1
Enable:
Pin:
8
10
HET[x]
Duty [%]:
50
100.000
Period [us]:
5
2000.001
40000.000
40000.012

```
#include "HL_sys_common.h"
#include "HL_system.h"
#include "HL_het.h"
#include "HL_rti.h"

void main(void)
{
    rtiInit();
    hetInit();


rtiEnableNotification(rtiREG1,rtiNOTIFICATION_COMPARE0);
    _enable_IRQ_interrupt_();
    rtiStartCounter(rtiREG1,rtiCOUNTER_BLOCK0);

    while(1)
        ;
}

void rtiNotification(rtiBASE_t *rtiREG, uint32 notification)
{
    pwmSetDuty(hetRAM1,  pwm1, 10);
}
```

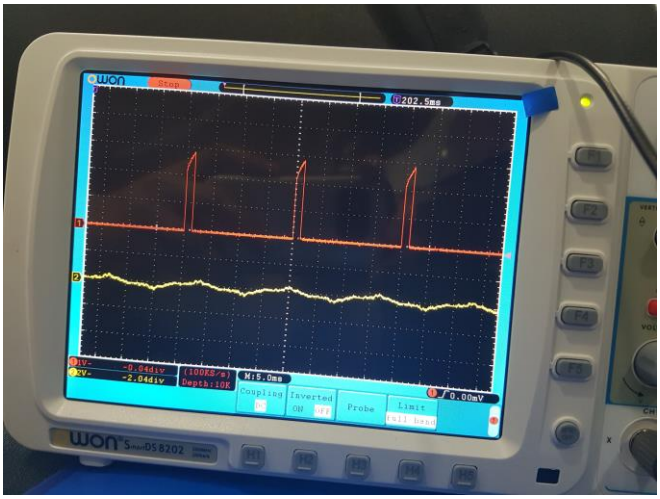
duty : 5%



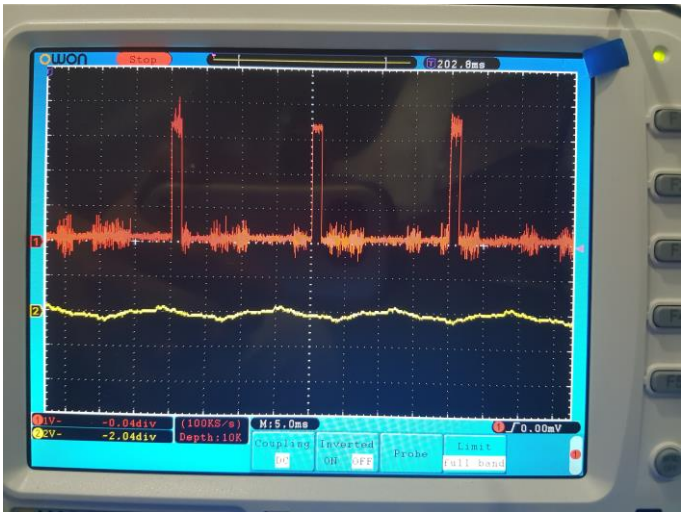
duty : 10%



MCU로 신호선, GND 연결 후 오실로스코프 측정 (전압 : 2.9v, 주기 : 20m/s, 펄스 up너비 : 2m/s)



MCU로 신호선, 아두이노GND 연결 후 오실로스코프 측정 (전압 : 3.4v, 주기 : 20m/s, 펄스 up너비 : 2m/s)



아두이노로 신호선, GND 연결 후 오실로스코프 측정 (전압 : 3.8v, 주기 : 20m/s, 펄스 up너비 : 2m/s)