SYD8811_dtm_tx_adjust_ power测试说明

关于 dtm 的操作以及 DTMTx_modulation 和 DTMTx_Carrier 函数各参数的意义，请看文章《SYD88811 新 DTM 测试》,这里不再阐述！

关于普通的DTM_TX的操作以及测试请看《SYD8811_dtm_tx测试说明》这里不在阐述！

DTM TX 模式测试设置TXPOWER操作方法

这里请先浏览《SYD8811_dtm_tx测试说明》中的“DTM TX 载波模式测试”，然后按照下面的步骤就行！

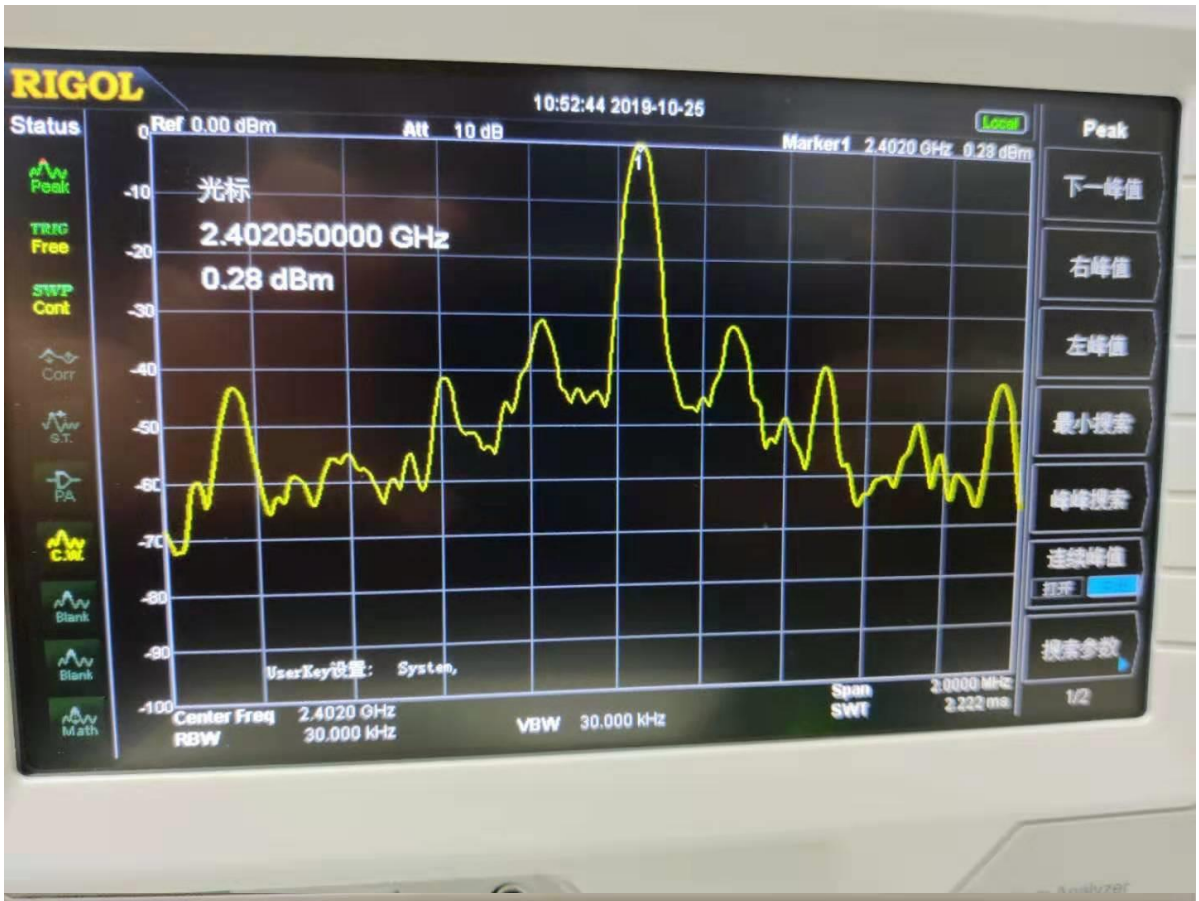
打开工程“SYD8811_SDK\Source Code\SYD8811_peripheral_misc\SYD8811_dtm_tx_adjust_power\KEIL”可以看到main函数如下：

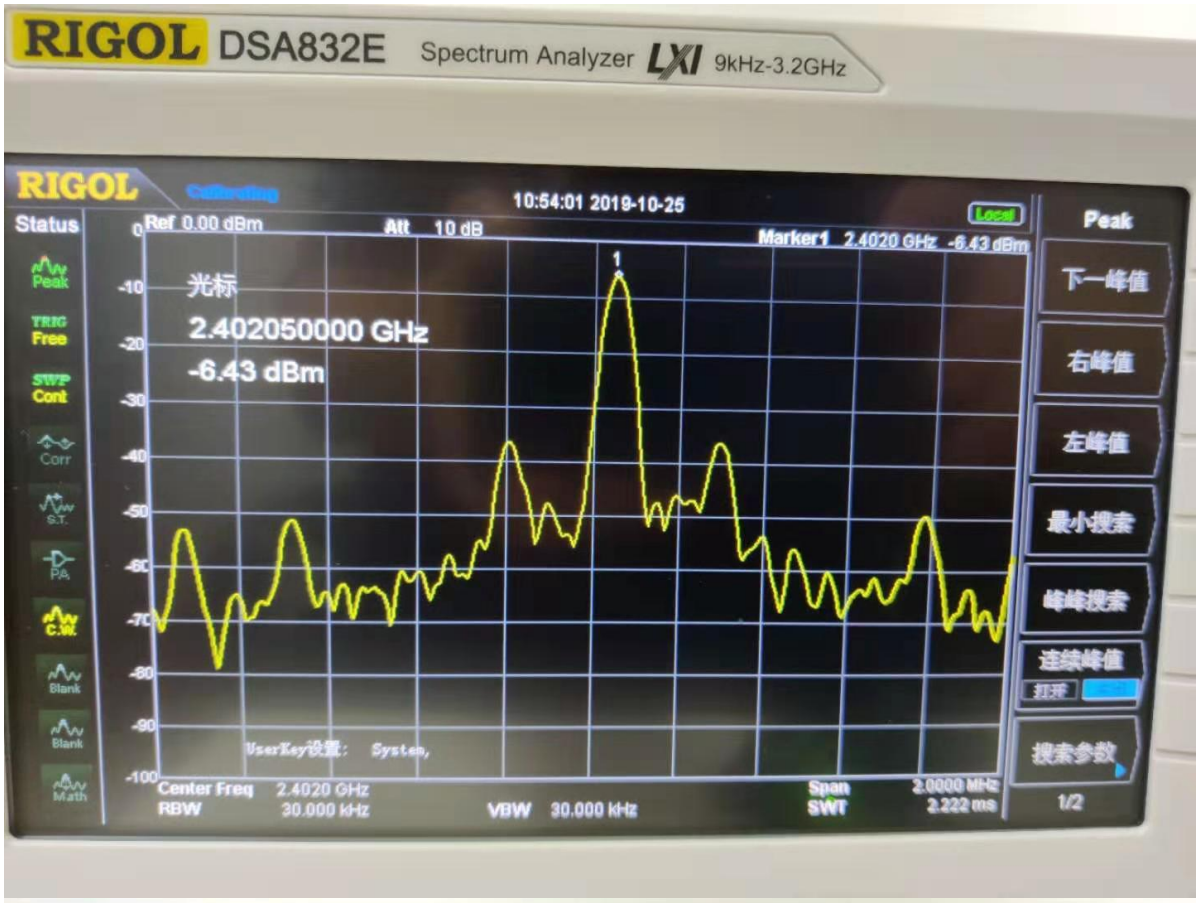
```
int main()
{
    int8_t f=F2402MHZ;
    int8_t c2=0x28,tx_power=BLE_TX_POWER_0_DBM;
    __disable_irq();

    BleInit();
    RCOSCCalibration();
    MCUClockSwitch(SYSTEM_CLOCK_64M_RCOSC);
    ClockSwitch(SYSTEM_32K_CLOCK_RCOSC);
    LPOCalibration();                       //这是内部RC32k晶振的校准函数 经过该函数后定时器能够得到一个比较准确的值

    dbg_init();
    UartEn(true);
    #ifdef _DTMTX_MODULATION_
    dbg_printf("SYD8811 dtm modulation demo %s:%s\r\n", __DATE__ , __TIME__);
    #else
    dbg_printf("SYD8811 dtm Carrier demo %s:%s\r\n", __DATE__ , __TIME__);
    #endif

    PIN_Set_GPIO(U32BIT(KEY1) | U32BIT(KEY2) | U32BIT(KEY3) | U32BIT(KEY4),PIN_SEL_GPIO);
//  PIN_Set_GPIO(U32BIT(LED1) | U32BIT(LED2) | U32BIT(LED3) | U32BIT(LED4),PIN_SEL_GPIO);

    GPIO_Set_Input( U32BIT(KEY1) | U32BIT(KEY2) | U32BIT(KEY3) | U32BIT(KEY4),  U32BIT(KEY1) | U32BIT(KEY2) | U32BIT(KEY3) | U32BIT(KEY4));
    PIN_Pullup_Enable(T_QFN_48, U32BIT(KEY1) | U32BIT(KEY2) | U32BIT(KEY3) | U32BIT(KEY4));
    GPIO_Input_Enable(U32BIT(KEY1) | U32BIT(KEY2) | U32BIT(KEY3) | U32BIT(KEY4));

//  GPIO_Set_Output( U32BIT(LED1) | U32BIT(LED2) | U32BIT(LED3) | U32BIT(LED4));
//  GPIO_Pin_Set(U32BIT(LED1) | U32BIT(LED2) | U32BIT(LED3) | U32BIT(LED4));

    __enable_irq();
    #ifdef _DTMTX_MODULATION_
    DTMTx_modulation(Pseudo_Random_bit_sequence_9,1,F2402MHZ,c2);
    #else
    DTMTx_Carrier(F2402MHZ,c2);
    #endif
    ble_SetTxPower(tx_power);

    while(1)
    {
```

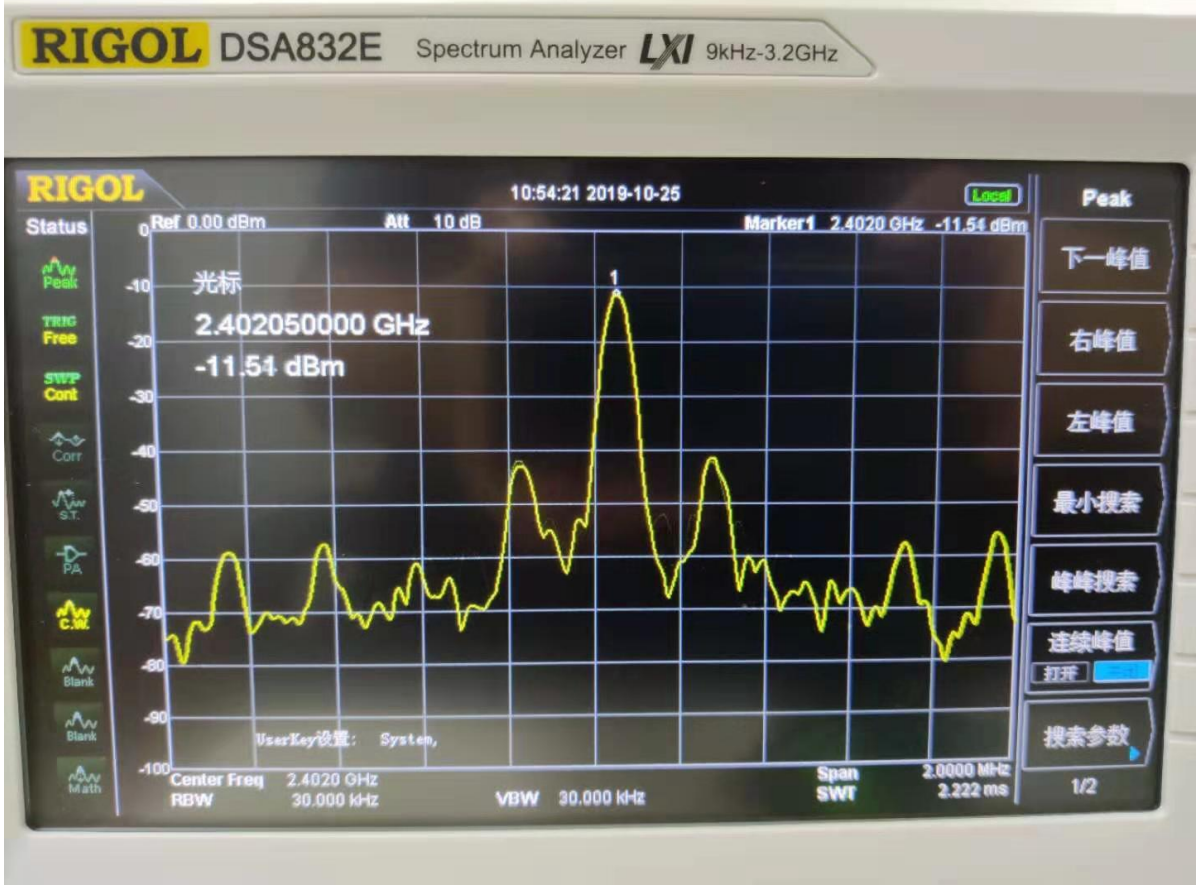
这里开启设置为0DB，然后当按键4按下的时候会逐步缩减功率，功率达到最小值的时候会变为0DB，遵循这个结构体的变化：

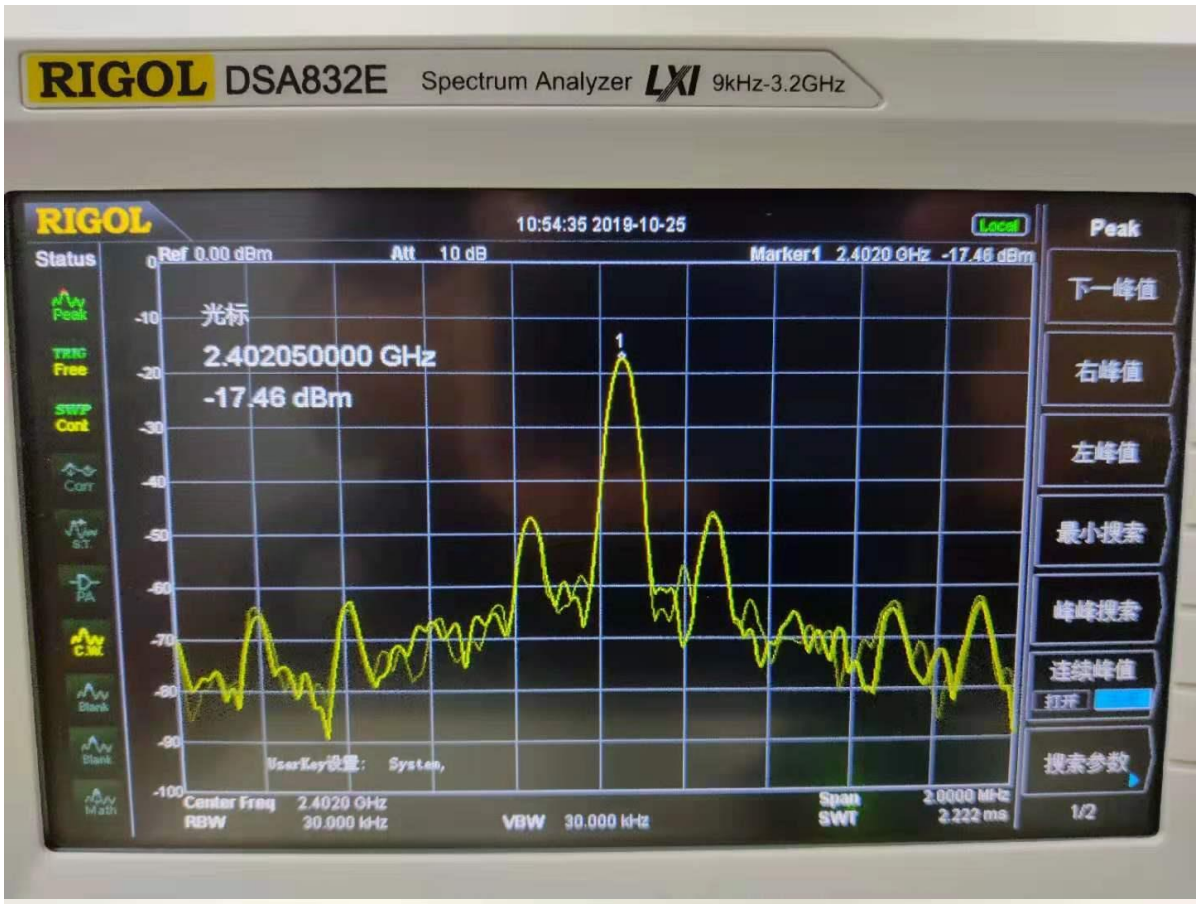
```
typedef enum {
    BLE_TX_POWER_MINUS_31_DBM   = 0,
    BLE_TX_POWER_MINUS_25_DBM   = 1,
    BLE_TX_POWER_MINUS_19_DBM   = 2,
    BLE_TX_POWER_MINUS_13_DBM   = 3,
    BLE_TX_POWER_MINUS_8_DBM    = 4,
    BLE_TX_POWER_MINUS_3_DBM    = 5,
    BLE_TX_POWER_0_DBM          = 6,
    BLE_TX_POWER_2_DBM          = 7,
    BLE_TX_POWER_4_DBM          = 8,
} BLE_TX_POWER;
#pragma pack()
```

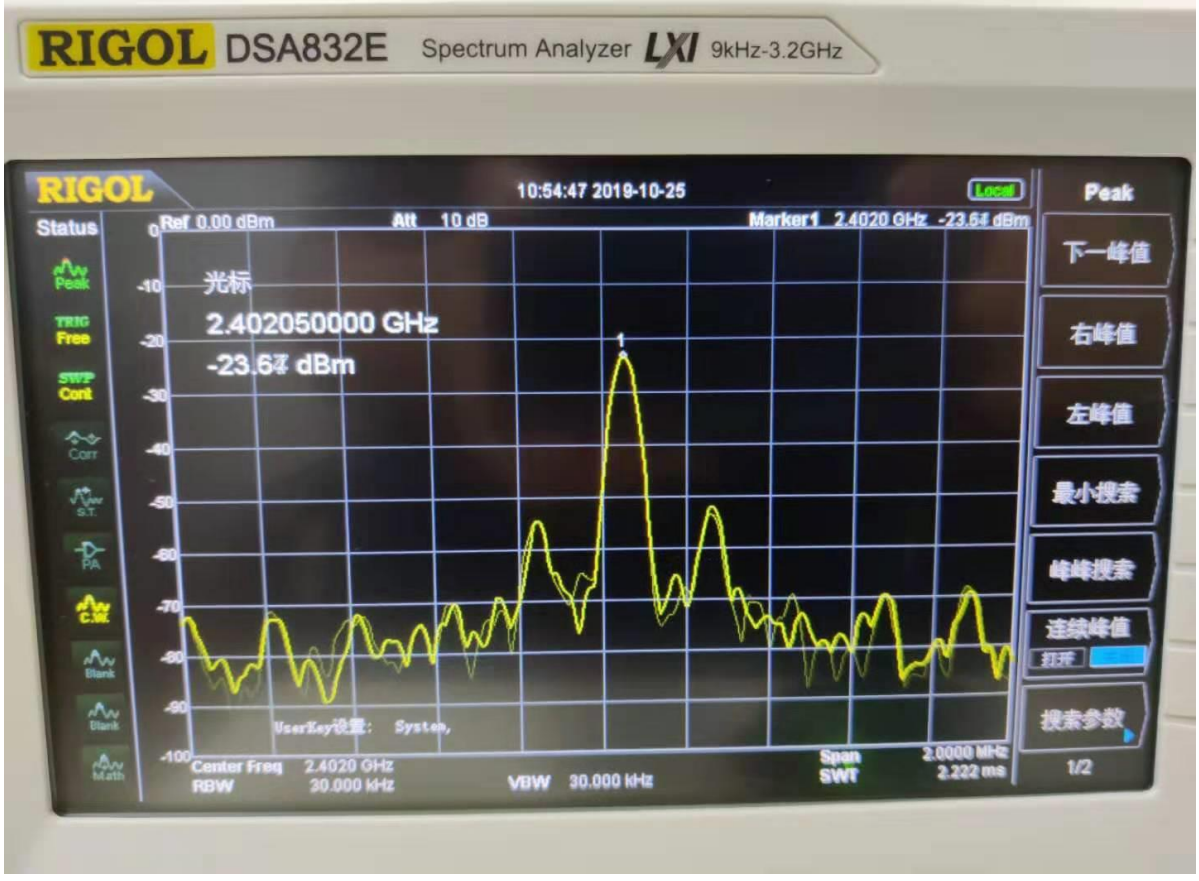
下面是通过按键KEY4的测试结果;

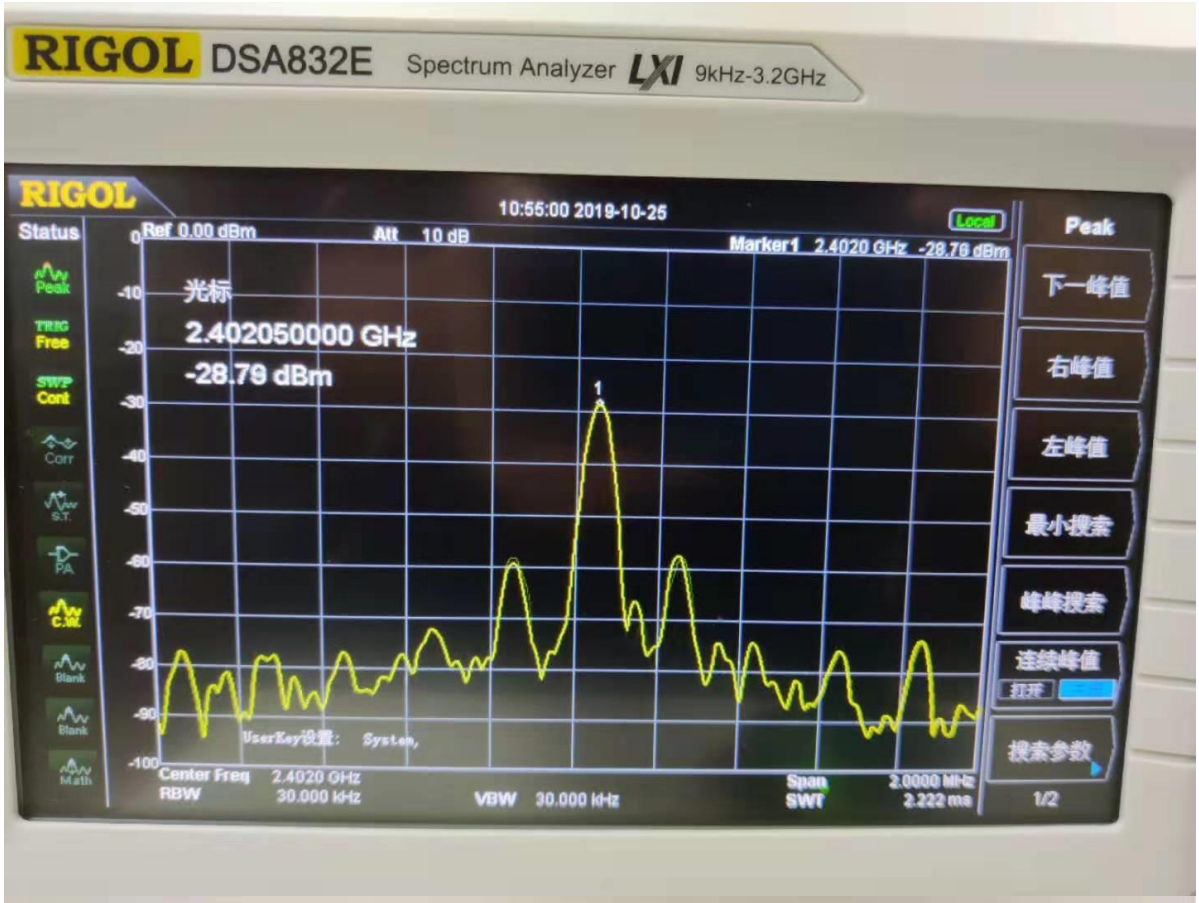


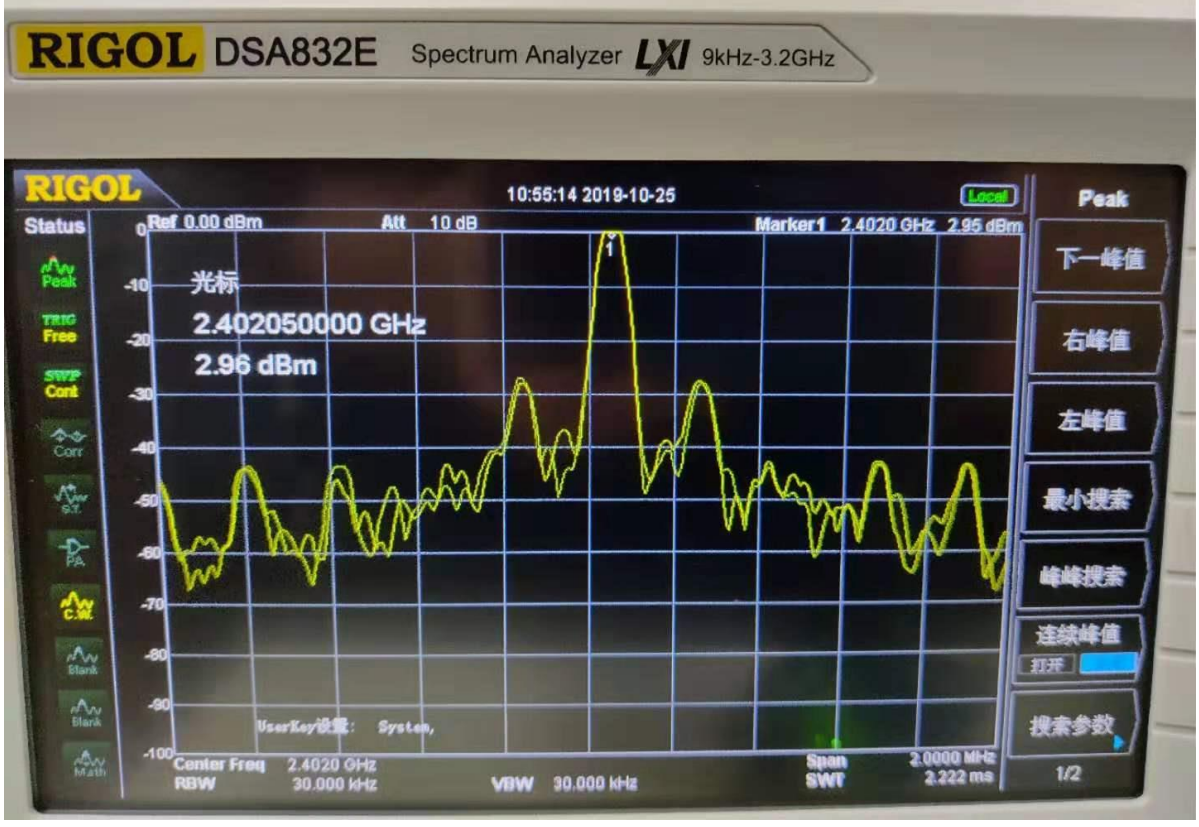


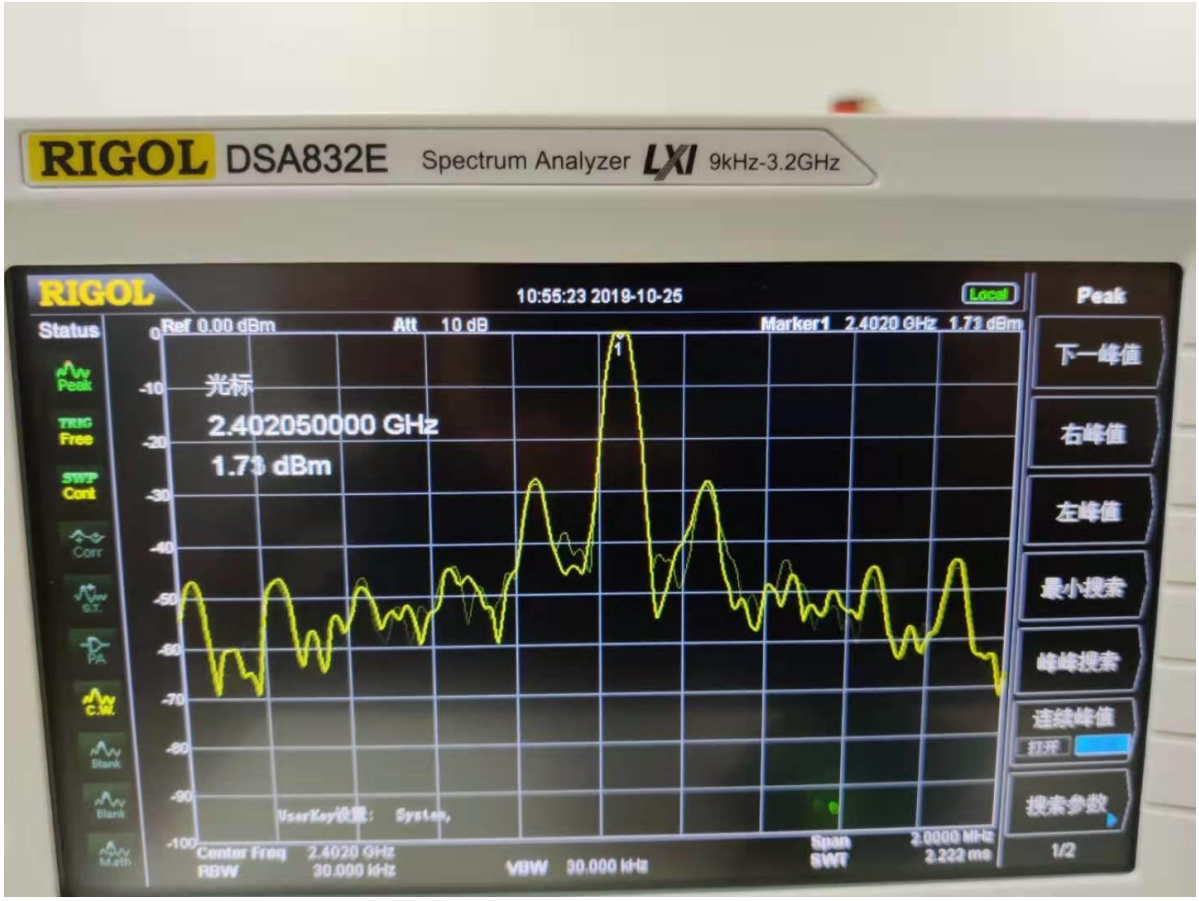












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