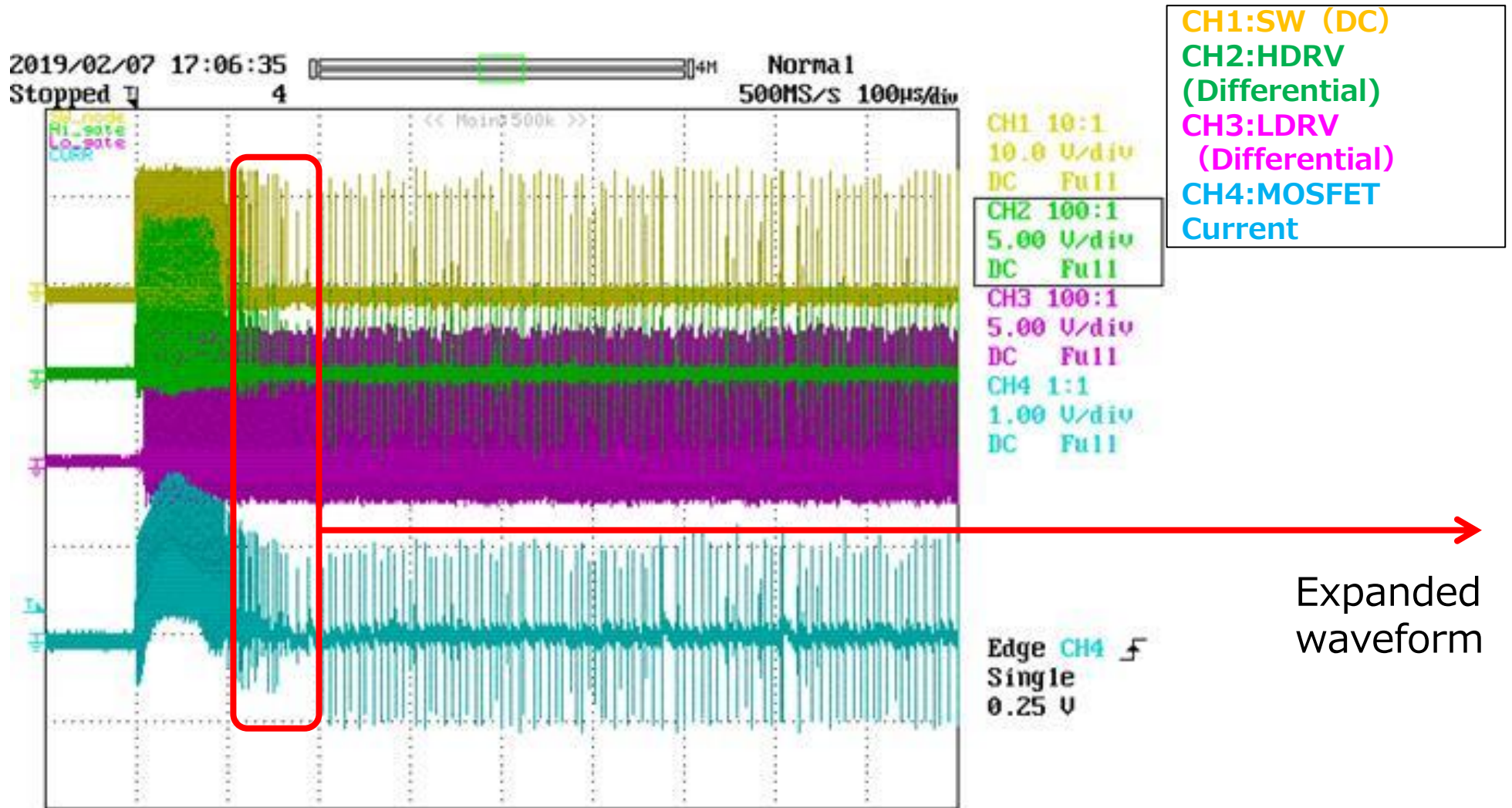
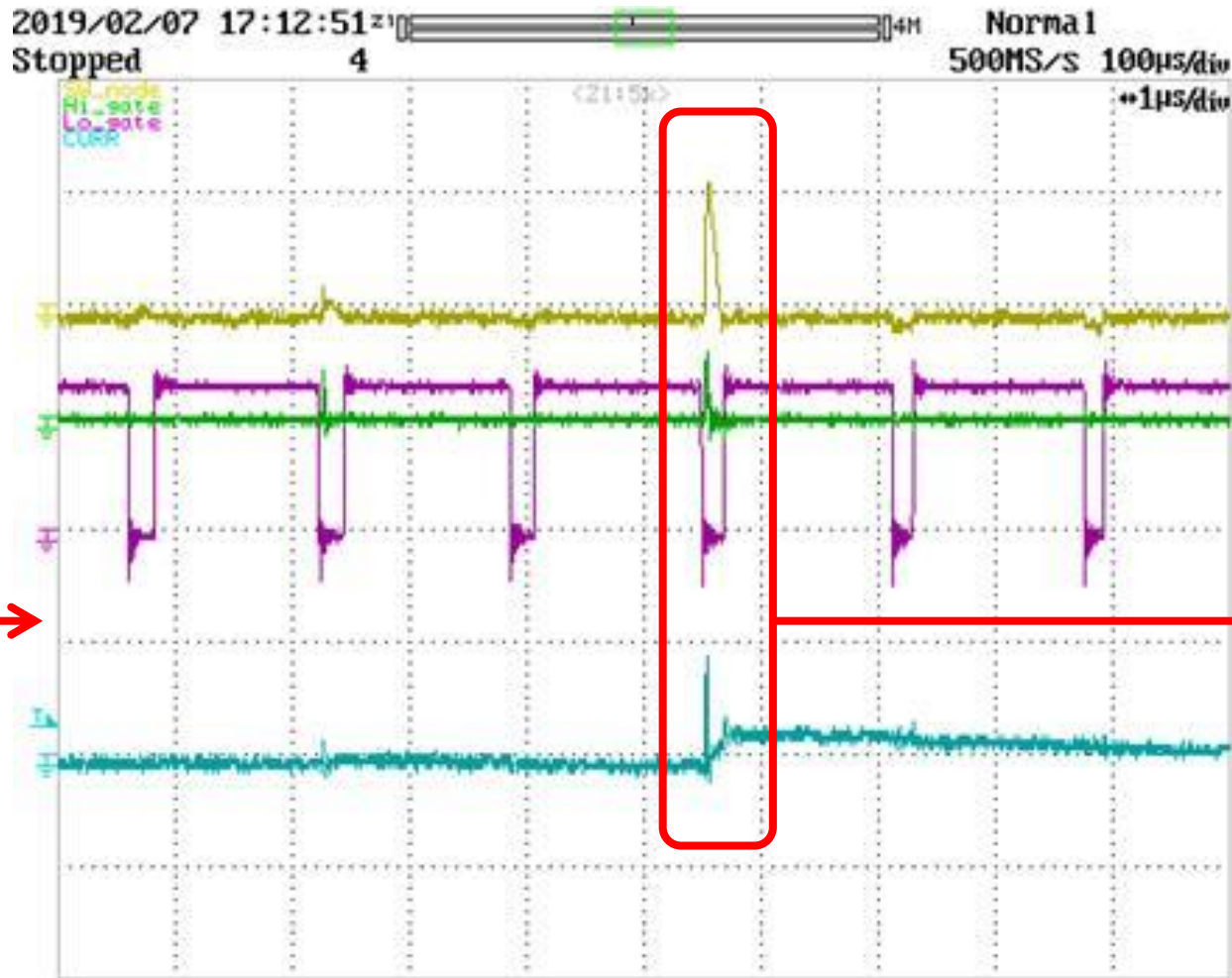


# 1. TPS40304 Overall waveform ROC=4.7kΩ



Although it operates with a resistance of 4.7 kΩ at low temperature, Please tell me about the operation of the gate voltage.

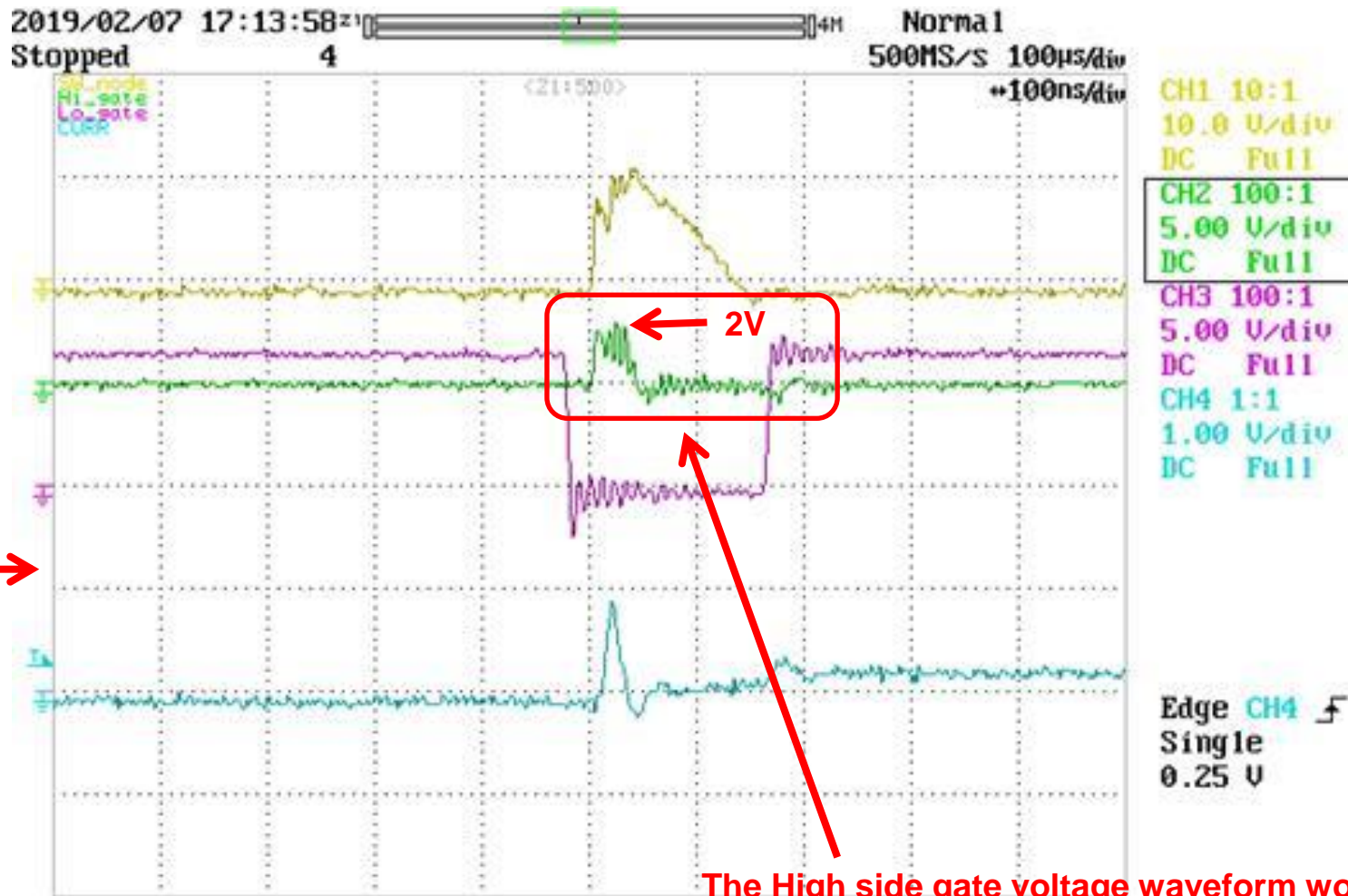
# 1. TPS40304 Expanded waveform ROC=4.7kΩ



CH1:SW (DC)  
CH2:HDRV (Differential)  
CH3:LDRV (Differential)  
CH4:MOSFET Current

Expanded waveform

# 1. TPS40304 Expanded waveform ROC=4.7kΩ



CH1:SW (DC)  
CH2:HDRV  
(Differential)  
CH3:LDRV  
(Differential)  
CH4:MOSFET  
Current

The High side gate voltage waveform worked only up to 2V.  
This is in of the range of operation.(12mV~300mV)  
Why is the gate voltage operating at 2V?