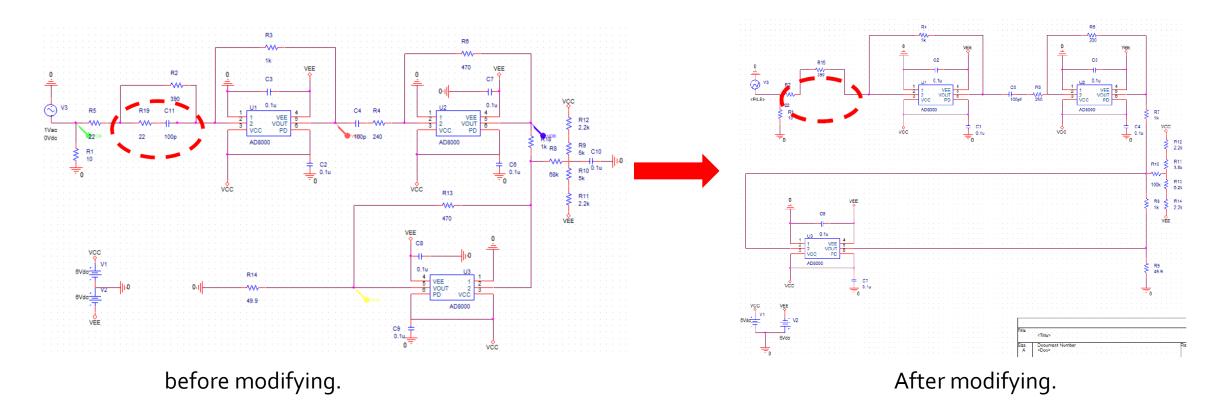
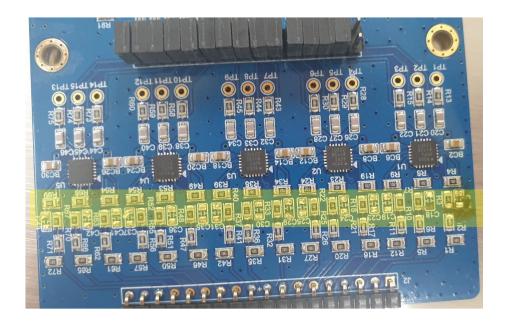
LAMPS Monthly Meeting

Jeahyunn Do Hyugnjun Lee Minjung Kweon INHA Univ. Compared a Pspice simulation with real data for checking they are similar.

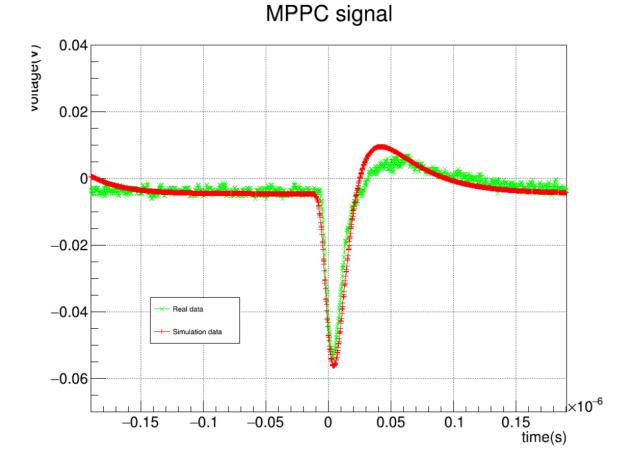


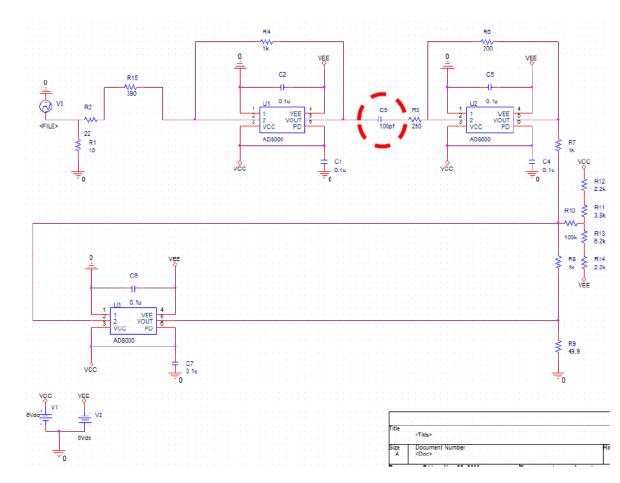
 Deleted the part of circuit in red circle and checked the difference of output signal for comparing a simulation.



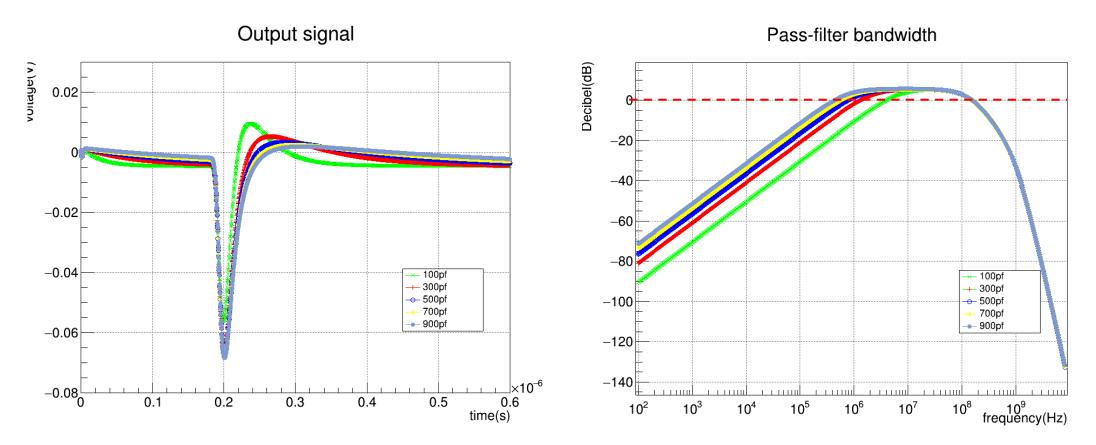
- We can check if real data is similar to simulation.
- We found the result of simulation is reliable.

- I burned a one of capacitors by my mistake.
- ► I disassembled 14 capacitors.
 - : The yellow zone indicates the part of disassembled devices.

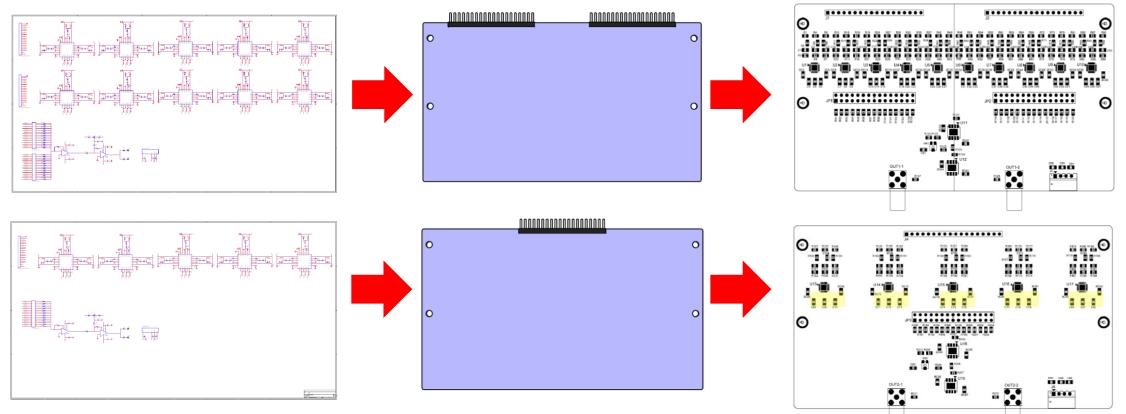




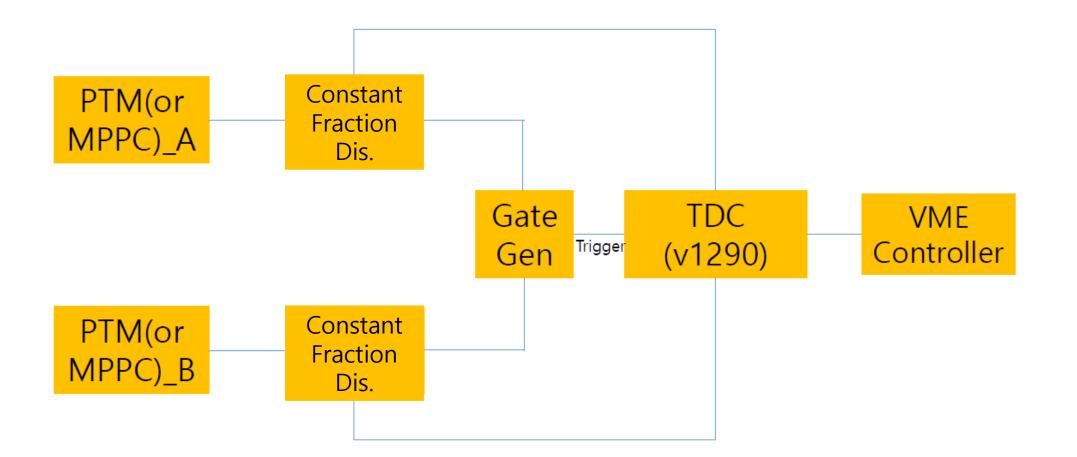
- ► For removing an overshoot, we modified a capacitor value in red circle.
- It causes to change of HPF bandwidth.
- We checked that an overshoot of output pulse and bandwidth as changing capacitor value from 100pF to 1000pF



- ► The overshoot becomes smoother as capacitance increases.
- ► And bandwidth becomes larger too. (the frequency at dB = 0 :1.5Mhz at 100pF, 400kHz at 900pF)
- ► The amplification looks small on the right plot, but we can enlarge amplification as change a feedback resistance.



- ► As I said in last meeting, we will make two versions of PCB.
- The one is a model that KOREA Univ. gave to us : It can connect two sensor boards. The another is a model that we modified : It can connect one sensor board.
- The reason for making a PCB that connects only one sensor board is because it makes PCB modification easier
- A yellow part of right plot is modification part.



- ► We had a termination issue when we connected with each module.
- ► A TDC module can read a Trigger signal but can't read data signal.

Summary & Plan

- We finalized an order and a making PCB. We will receive PCB today.
- We will modify manually the capacitance as I mentioned for comparing with simulation.
- We will solve DAQ code issue as soon as possible.
- Our final goal is to finalize a starting counter model until Mid-July.

PLAN	6/ 3 rd week	6/ 4 th week	6/ 5 th week	7/ 1 st week	7/ 2 nd week	7/ 3 rd week
DAQ code						
Board test						
Final draft submission						?