

Above figure is our customer's circuit.

On the datasheet, input impedance is 100Mohm. And then bias current(IB) is  $\pm 10$ pA.

However, on the TINA-TI's simulation, there is voltage drops using TLV172 model. As the result, bias current will be 800uA. Please refer to the file "20171217\_TLV172.".

When, we insert 100Mohm Opamp input(U2+ and U3+), there is no voltage drop. So, it seems that we can correct voltage. And then, when we use OPA172 instead of TLV172, there is no voltage drop.

## <Question>

- •Is TLV172's TINA-TI model correct?
- •Are input impedance 100Mohm and input bias current ±10pA correct?