Test condition:

- 1. Measure the thermal couple under surface temperature, Tc is 58.1°C
- 2. TPS54426 the θ_{JC} = 51.3(°C/W)
- 3. P_D =0.85 Watt.
- 4. This package have the Thermal pad. (We have to mount a PCB).
- 5. Not include Thermal pad condition $T_I = 101.7$ °C

Question:

How could I evaluation of T_J ? (Need consider the Thermal pad condition) Q1.How to use this formula $(T_J = P_D * \theta_{JC} + T_C)$ to calculate T_J ? (Need consider Thermal pad containing proportional relationship both with Tc.) Q2.Why the $\theta_{JC} > \theta_{JA}$ from the TPS54426 specification? (formula $\theta_{JA} = \theta_{JC} + \theta_{JA}$, normally the $\theta_{JA} > \theta_{JC}$)