Summary

- A Quadratic-interpolated LUT-based pre-distortion method is proposed
  - High accuracy inverse function
  - Low ACLR
  - Fast adaption speed

Experiment result shows
- Qua-interpolated method is suitable to any PA characteristics
- Even though the nonlinearities are further serious, the performance still be performed well
- WCDMA application, the ACLR in the first channel is reduced by 22.41 dB
  - Without DPD : -29.21 dB
  - Qua-inter : -51.62 dB
- The output power of the PA bias at 0.28 V when passing the specification
  - Without DPD : 4 dBm
  - Qua-inter DPD : 18.17 dBm