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