

**MEDIATEK**

# Application Note Format

Page Title/Calibri/20pts

# Feature Introduction

- **Pre-K Item:**

- **Group :**

- RSSI DCOC, RX DCOC,
    - TX TSSI DCOC, ADC DCOC,
    - RX FDIQ, RX FIIQ,
    - TX LPFG, TX DCIQ, TX FDIQ

- **Per ch :**

- TSSI DNL, TX DNL, TX DPD, Tx Flatness

- **Purpose**

- **Prevent tone emission to meet Japan customer requirement**



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INTERNAL USE

# MT7986\_Pre\_Calibration\_AN

Date: 2021/08/16



# History

	Date	Description	PIC
v1	2020/08/16	Initial version	Santai

# Application Note - Outline

- **History**
- **Feature Introduction**
  - Purpose
- **How to Pre Calibration**
  - Pre Calibration Command
- **How to verify**
  - Expected Results
  - Debug

# Feature Introduction

- **Pre-K Item:**

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- RSSI DCOC, RX DCOC,
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- **Per ch :**

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## How to Pre Calibration

- **Pre Calibration Command**

- **iwpriv ra0 set ATE=ATESTART**
- **iwpriv ra0 set ATE=GROUPREK**
- **iwpriv ra0 set ATE=DPD5G**
- **iwpriv ra0 set ATE=DPD2G**
- **ated -i ra0 -c "sync eeprom all"**
  - Write buffer to flash
- **iwpriv ra0 set ATE=ATESTOP**

## How to verify

- **Expected Results**

- **Effuse 0x19a[0] = 1** : means Group Pre- Calibration is done
- **Effuse 0x19a[1] = 1** : means Tx DPD 5G Pre- Calibration is done
- **Effuse 0x19a[2] = 1** : means Tx DPD 2.4G Pre- Calibration is done

- **If verify fail , How to Debug**

- **1、 Collect Pre Calibration log**
- **2、 Check 0x19a confirm pre Calibration is done**
- **3、 feedback to MTK process Windows for advanced analysis**



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*everyday genius*