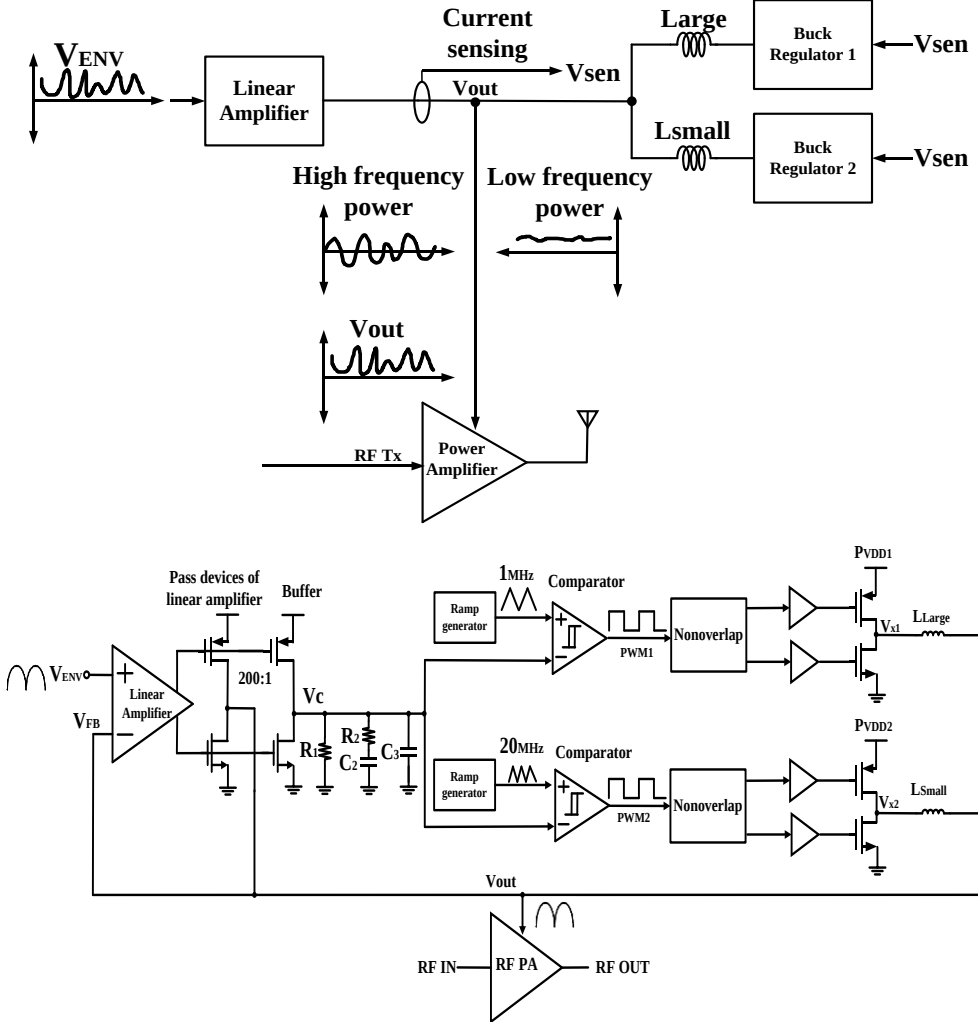


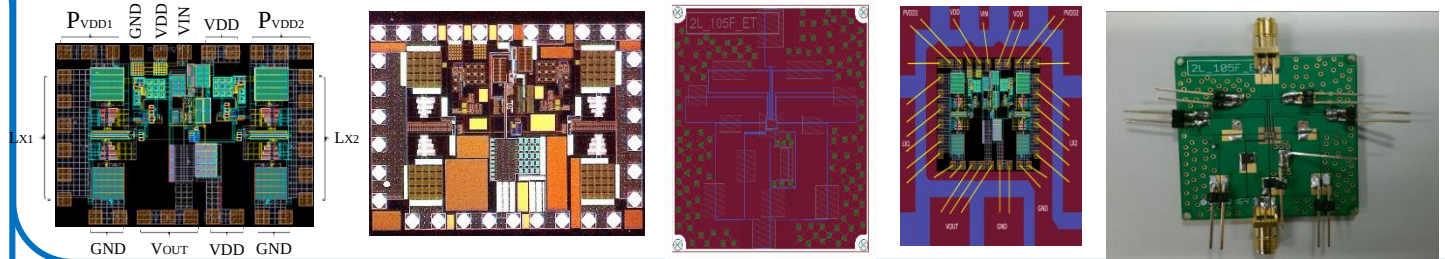


# CMOS Power-Supply Modulator for 20 MHz LTE Envelope Tracking Technique

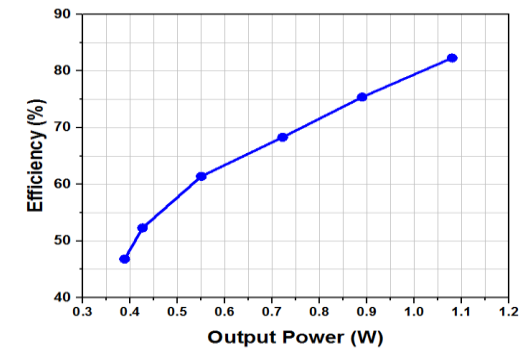
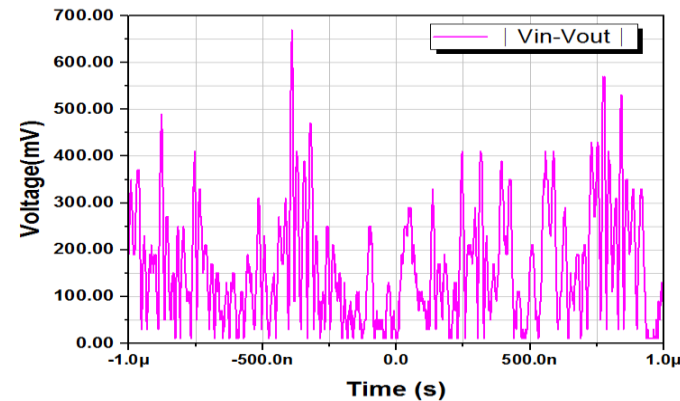
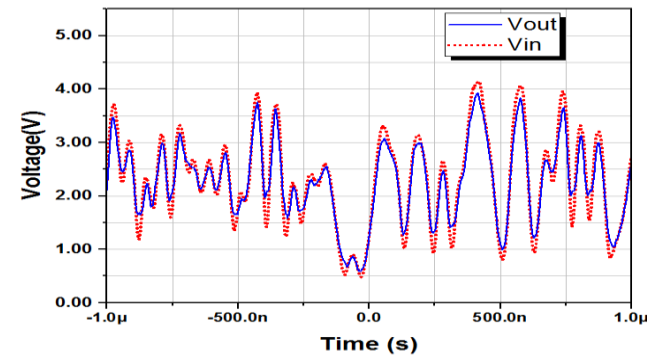
## Schematic



## Chip & PCB



## Measurement Result



|                                       |                   |
|---------------------------------------|-------------------|
| Process                               | 0.35 $\mu$ m CMOS |
| Supply Voltage                        | 5 V               |
| Output Voltage Range                  | 0.4 V~3.9 V       |
| Load                                  | 5 $\Omega$        |
| Signal                                | 20 MHz 16 QAM LTE |
| Max Efficiency (%)<br>( Pout =1.08 W) | 82.3              |