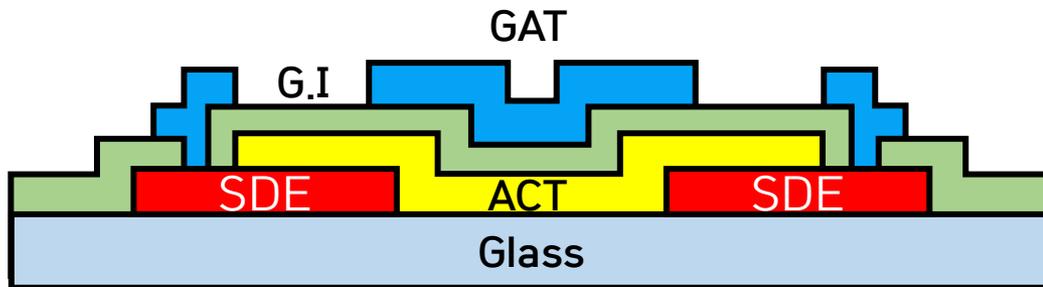


## 실험 목적 : TFT 제작

### Staggered structure TFT 및 회로 제작



SDE : Ta ( 500s depo - RIE 200 s [ $O_2:Ar:SF_6 = 40:10:10$ ] )

ACT : IGZO (1800s depo - BOE 150 s [BOE:DIW = 1:500] )

G.I :  $Al_2O_3$  ( ALD Thermal 500 cycle ) [약 30 nm ]

GAT : Cr ( 1200s depo - wet etcher [180 s] )

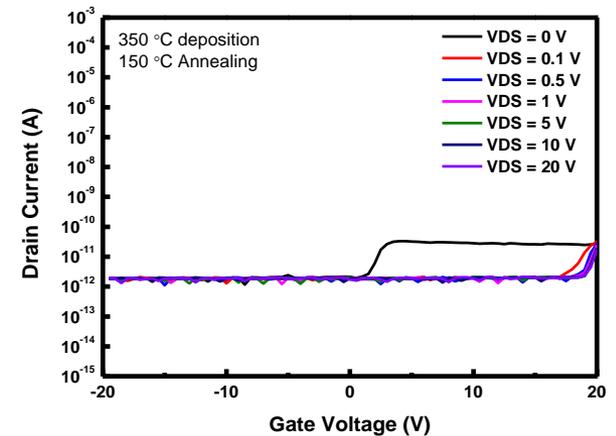
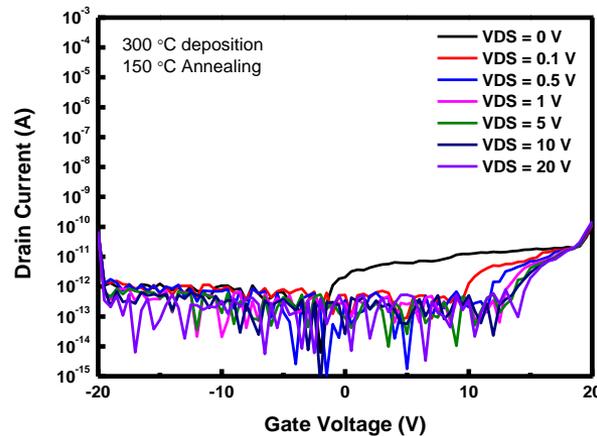
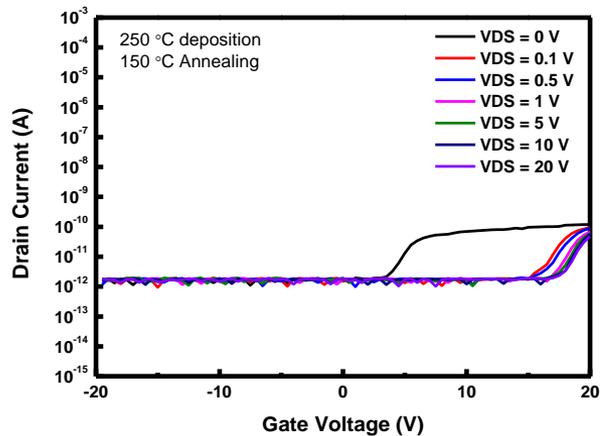
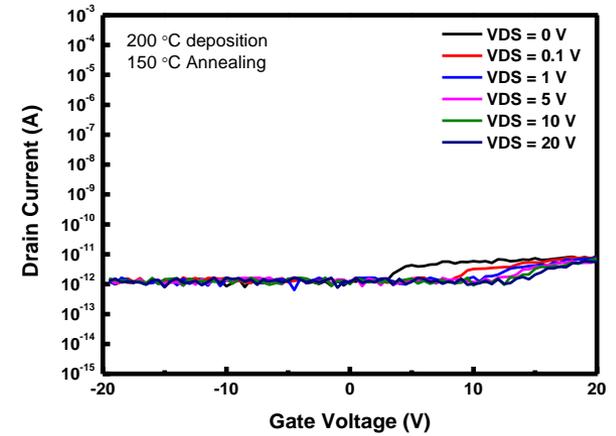
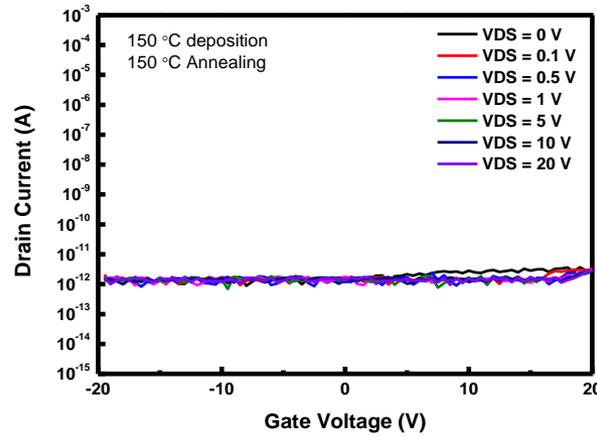
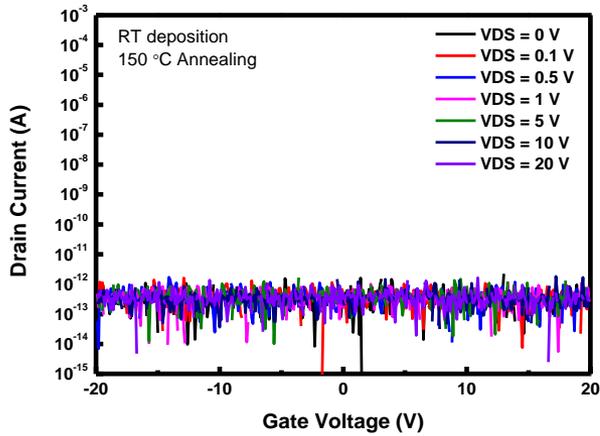
$Al_2O_3$  : ALD 재료 납품 완료

## 성과 정리

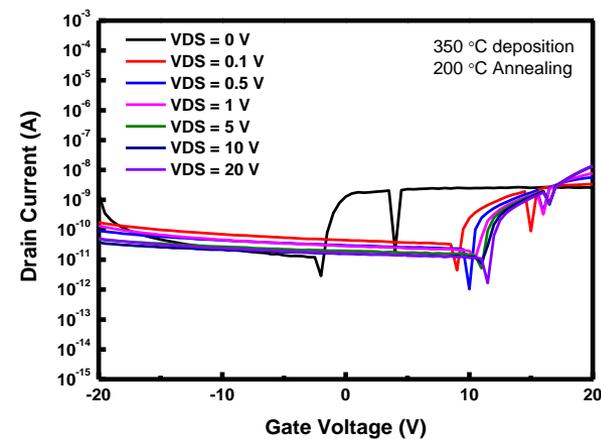
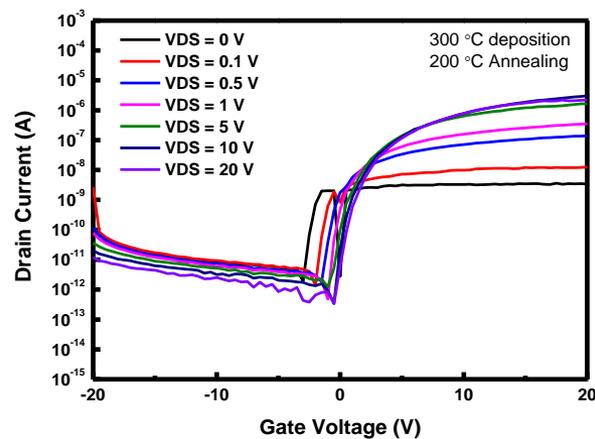
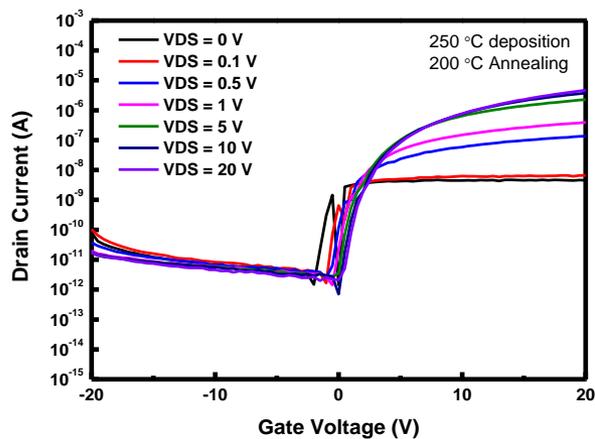
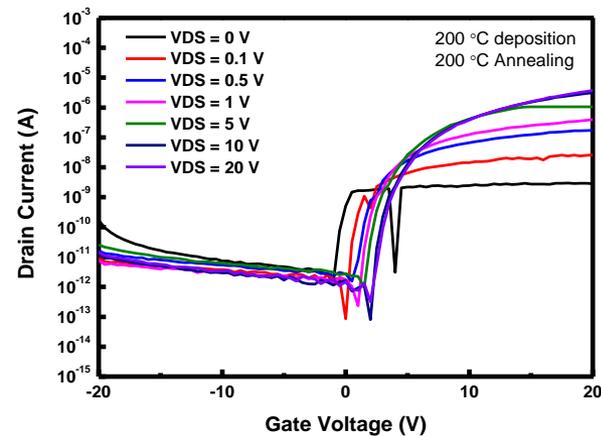
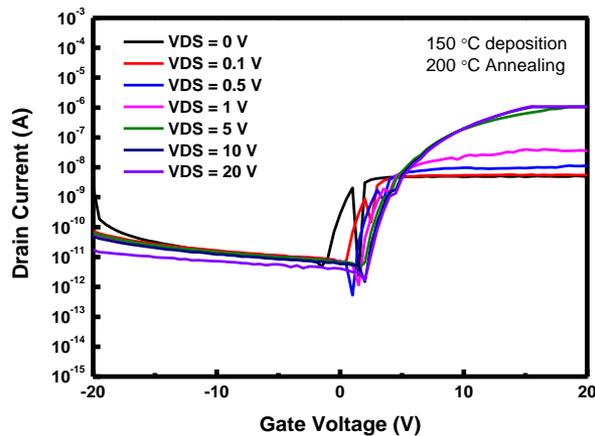
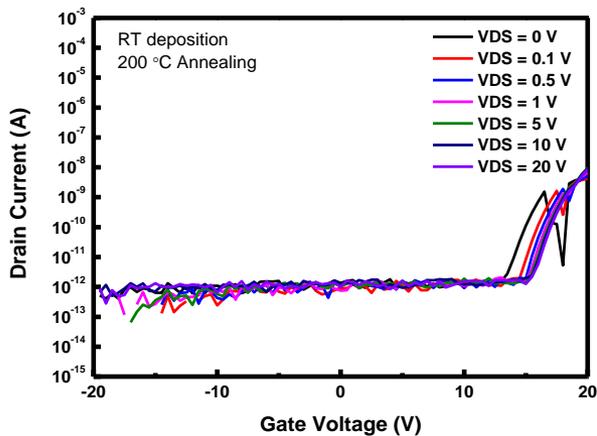
### 혁신립

- ◆ Flexible QD-OLED 백플레인을 위한 PI 공정 및 산화물 TFT, Bank 공정 개발 및 셋업
  - Flexible QD-OLED에 최적화된 기판/배선/PI 기술 개발
  - 산화물 TFT 공정 셋업, IGZO TFT 기반 화소 공정, बैं크 공정
  - Flexible QD-OLED에 최적화된 플렉서블 보상 화소 회로 개발
- PI 최적화 공정 레시피 작성
- Staggered structure TFT 공정 레시피 및 표준 공정 레시피 작성
- 제작된 TFT 특성 작성

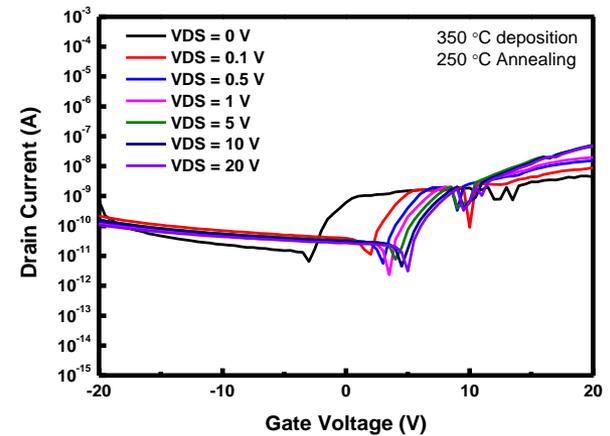
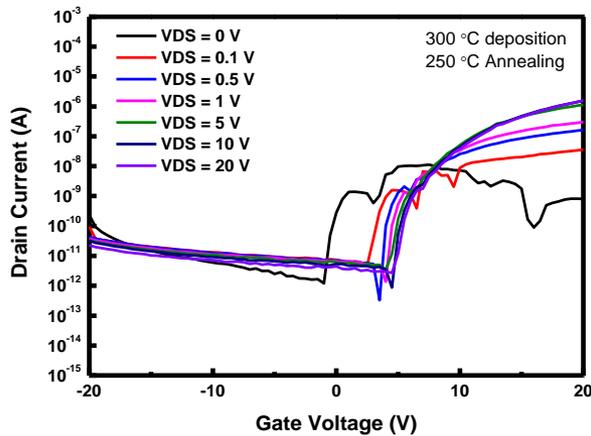
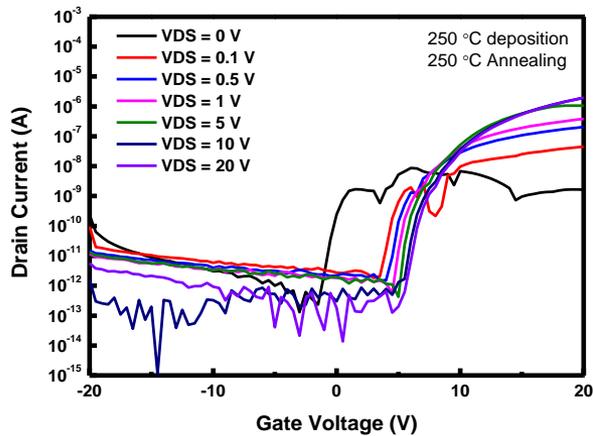
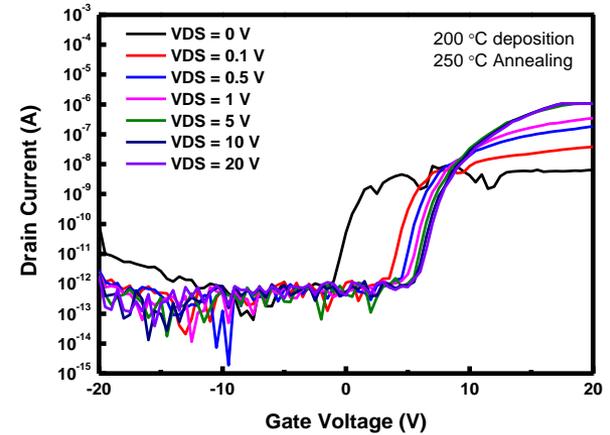
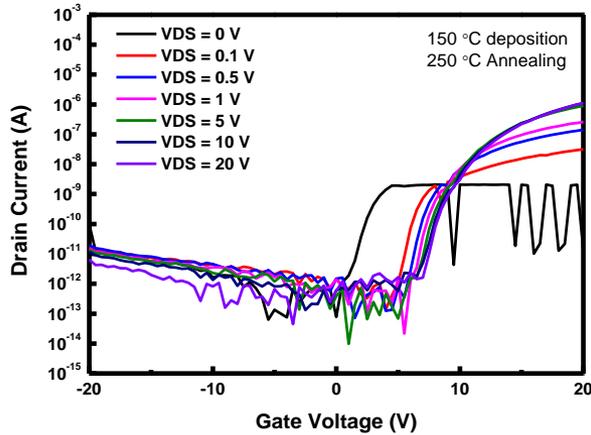
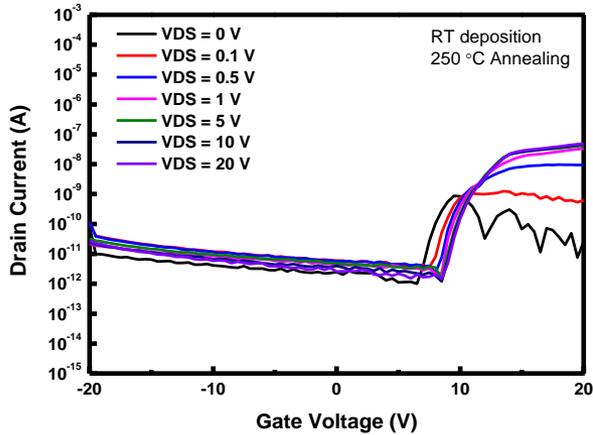
## IGZO 증착온도별, 열처리 온도별 특성 정리 (150 °C annealing)



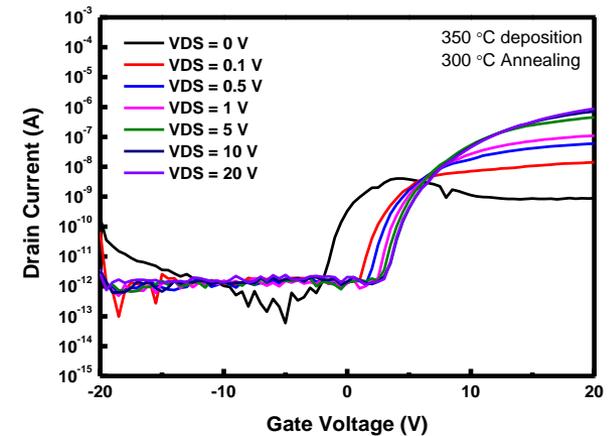
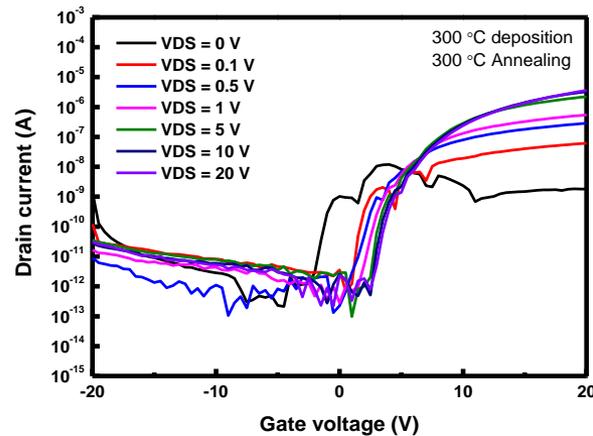
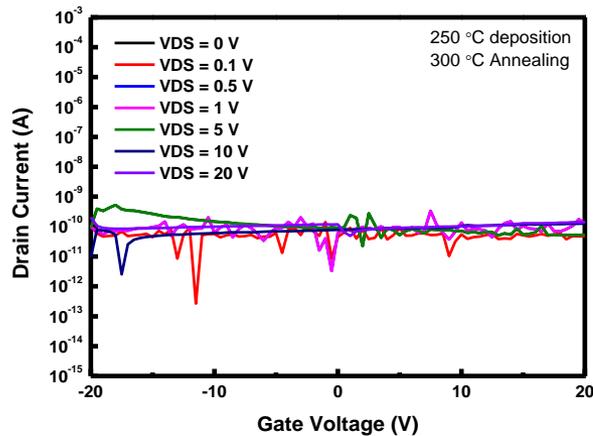
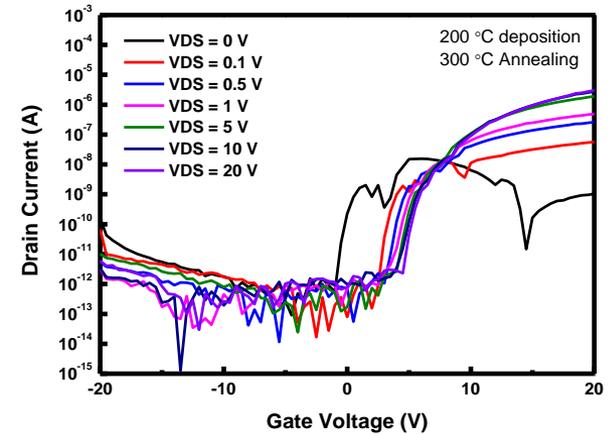
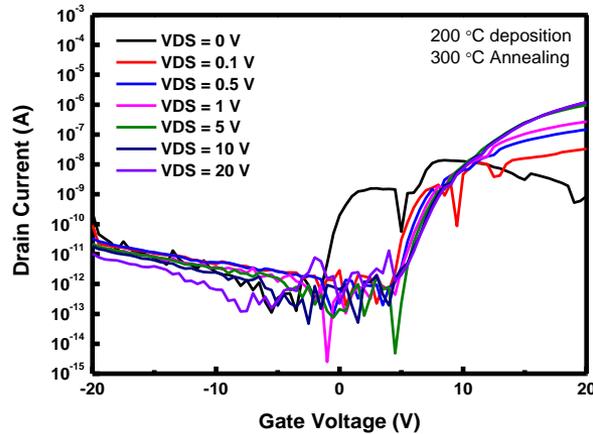
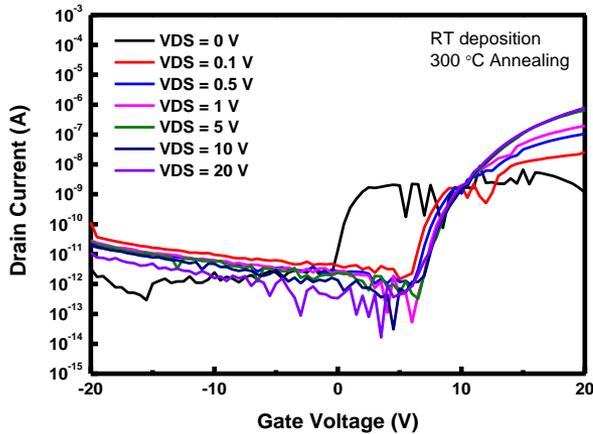
## IGZO 증착온도별, 열처리 온도별 특성 정리 (200 °C annealing)



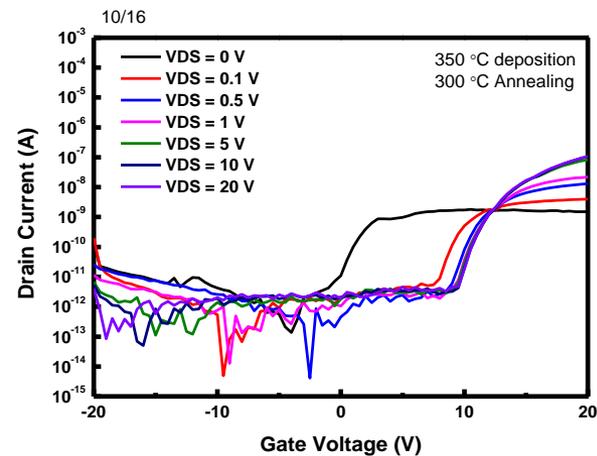
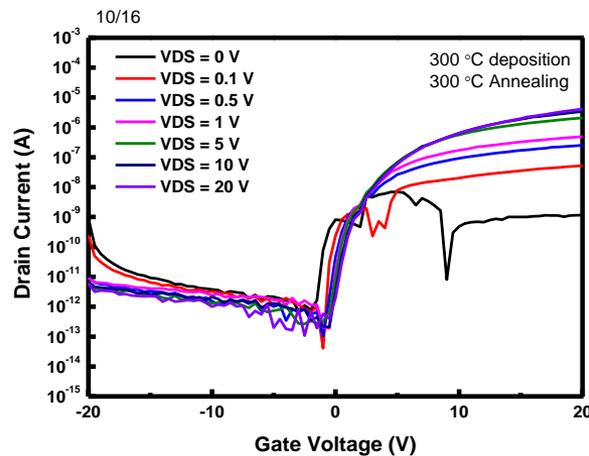
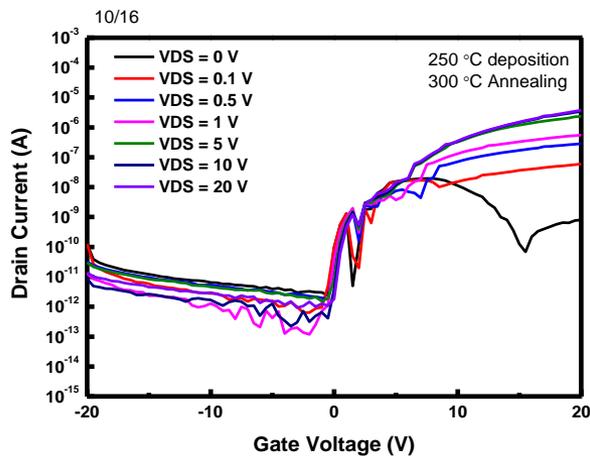
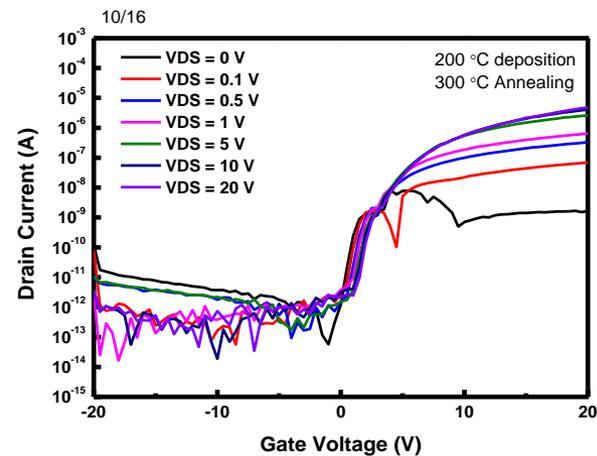
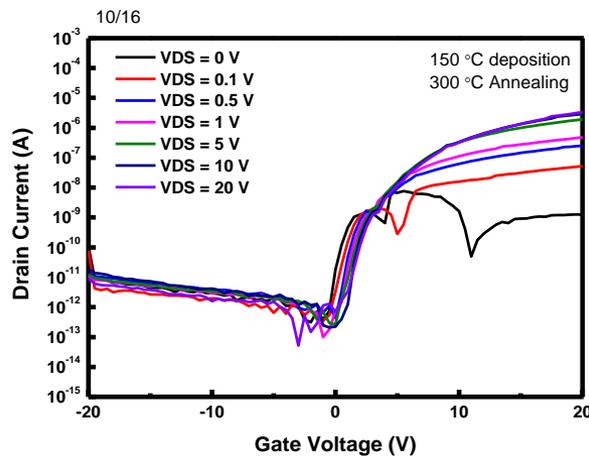
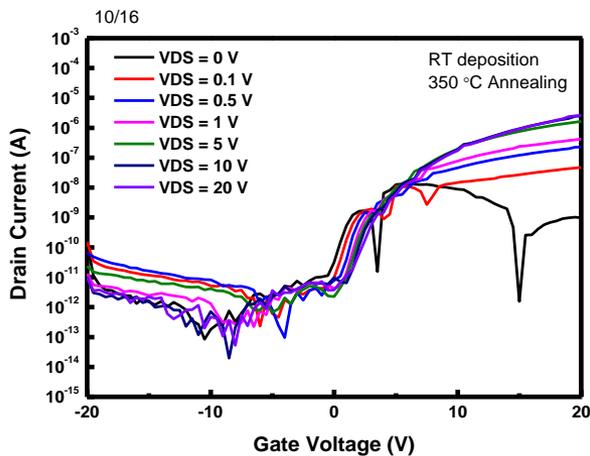
## IGZO 증착온도별, 열처리 온도별 특성 정리 (250 °C annealing)



## IGZO 증착온도별, 열처리 온도별 특성 정리 (300 °C annealing)

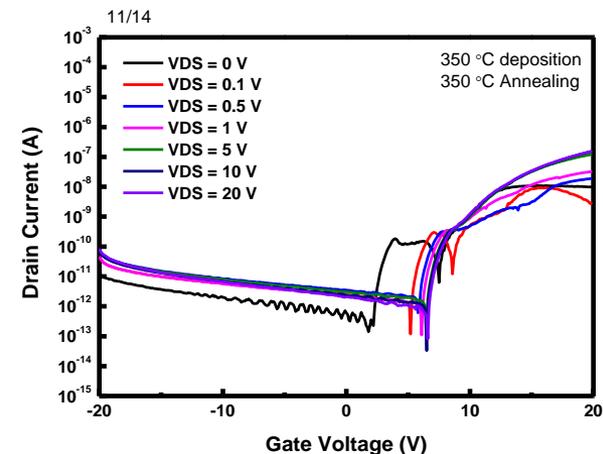
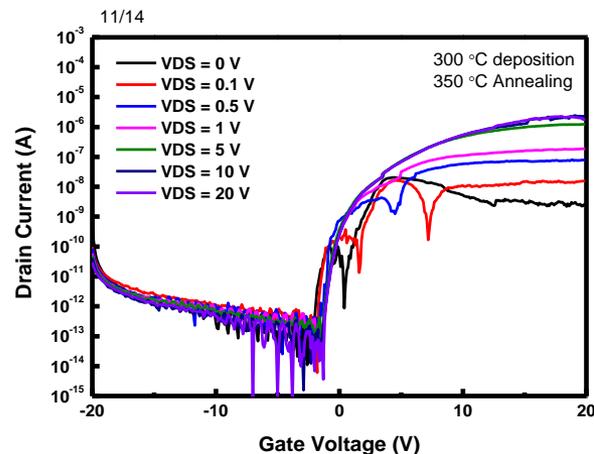
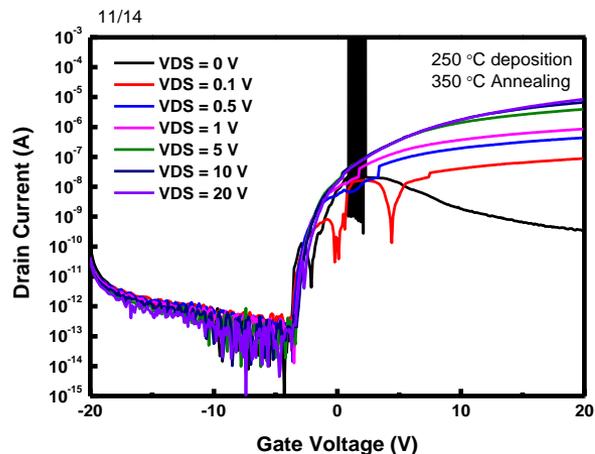
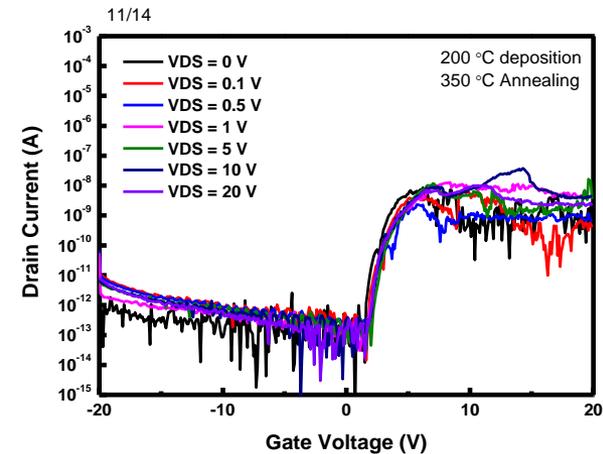
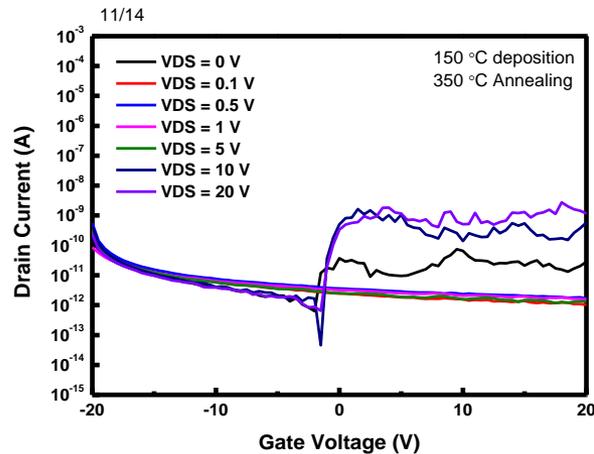
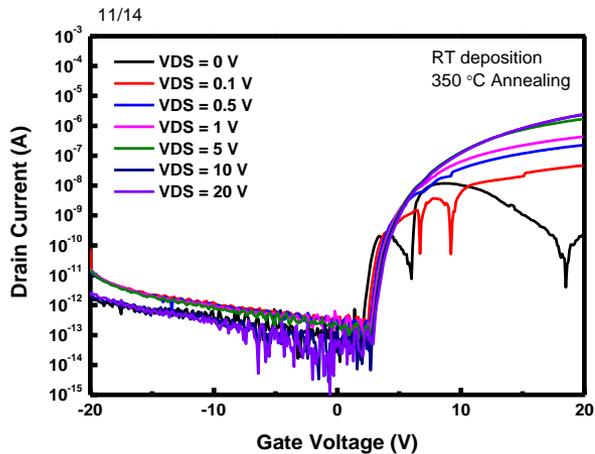


## IGZO 증착온도별, 열처리 온도별 특성 정리 (350 °C annealing)



## IGZO 증착온도별, 열처리 온도별 특성 정리

11/14 기존 샘플 재측정 (Before annealing)



## IGZO 증착온도별, 열처리 온도별 특성 정리 (400 °C annealing)

11/14 기존 샘플 재측정 (After annealing)

