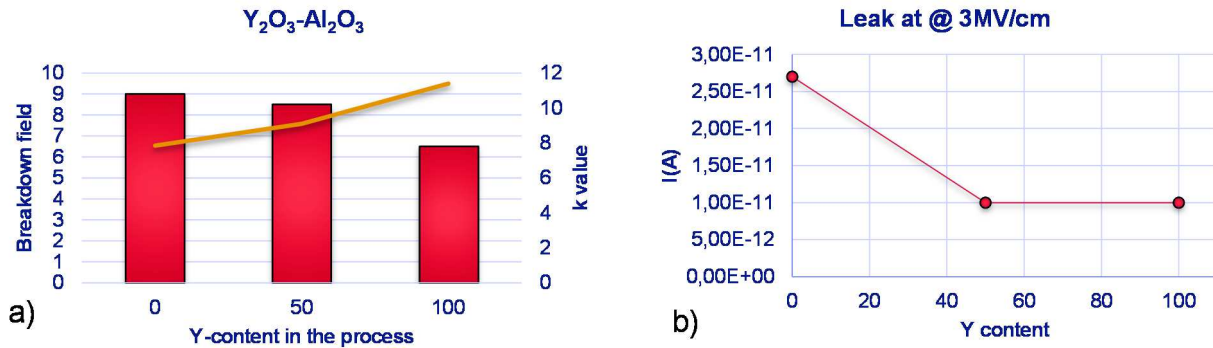


**Figure 1.** Conformality, crystallinity and roughness of  $Y_2O_3$  and  $Y:Al_2O_3$  films.  $Y_2O_3$  has  $1\sigma$  non-uniformity of 1.9% and  $Y:Al_2O_3$  of 1.4%. GIXRD patterns demonstrate the crystallinity of  $Y_2O_3$ . When mixed with amorphous  $Al_2O_3$  to obtain  $Y:Al_2O_3$ , the resulting film is amorphous.



**Figure 2.** Electrical properties of  $Y_2O_3$  in comparison with  $Y_2O_3-Al_2O_3$ .