Simmons Model test

Current
curve_fit
lmfit

$A = 3000 \pm 3000$
$phi = 3.22 \pm 0.08$
$d = 15.1 \pm 0.3$

$A = 3000 \pm 2000$
$\phi = 3.22 \pm 0.07$
$d = 15.1 \pm 0.3$