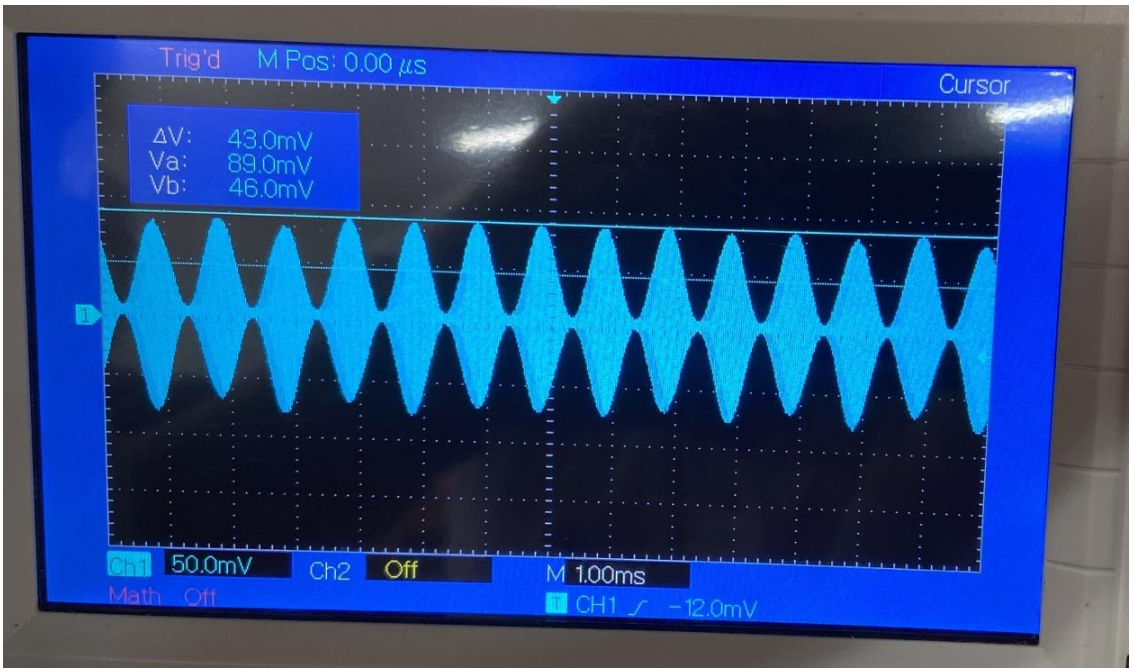
Practica 3.1

KaAm=1

Am= 1 para todas las mediciones



$Ka = 1$

$Ac = 46mV$

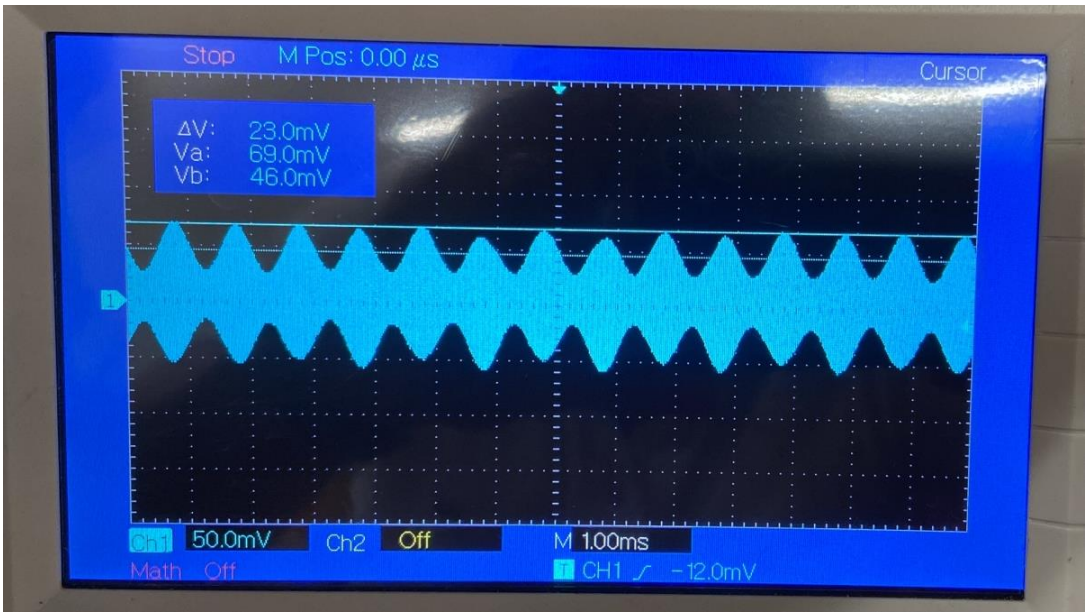
$\Delta R = 43mV$

$inidice\ de\ modulación\ (\mu) = \frac{\Delta R}{Ac} = 0{,}94$

$$Potencia\ señal\ (Ps) = \frac{Ac^2}{2}\ [1 + \frac{Ka^2 * Am^2}{2}]$$

$$(Ps) = \frac{(46m)^2}{2}\left[1 + \frac{(1)^2 * (1)^2}{2}\right] = 1.587\ mW$$

$Para\ KaAm\ < 1$



$Ka = 0.5$

$Ac = 46mV$

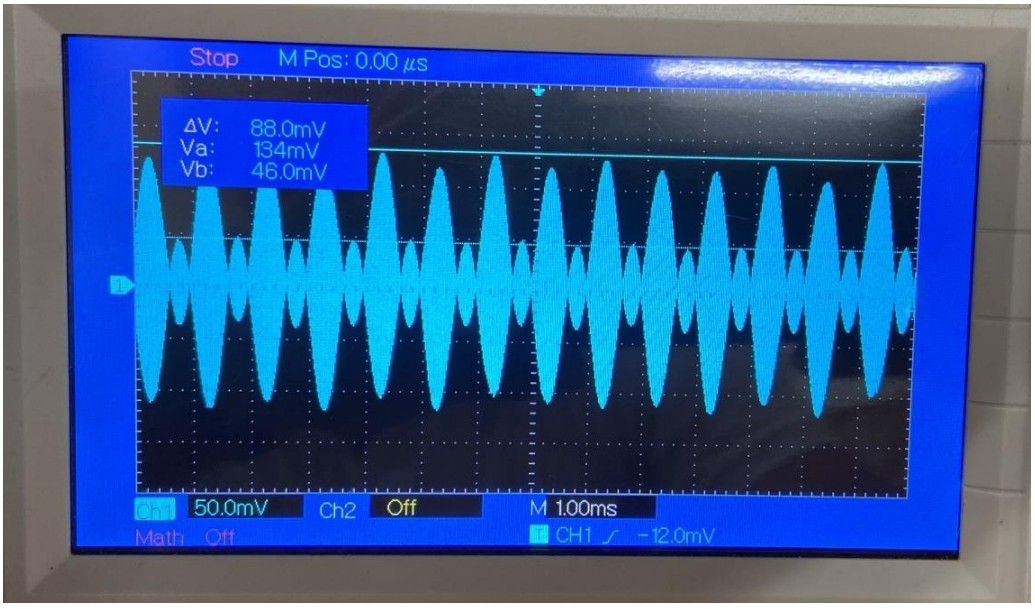
$\Delta R = 23mV$

$inidice\ de\ modulación\ (\mu) = \frac{\Delta R}{Ac} = 0{,}5$

$$Potencia\ señal\ (Ps) = \frac{Ac^2}{2}\ [1 + \frac{Ka^2 * Am^2}{2}]$$

$$(Ps) = \frac{(46m)^2}{2}\left[1 + \frac{(0.5)^2 * (1)^2}{2}\right] = 1.19025\ mW$$

$Para\ KaAm > 1$

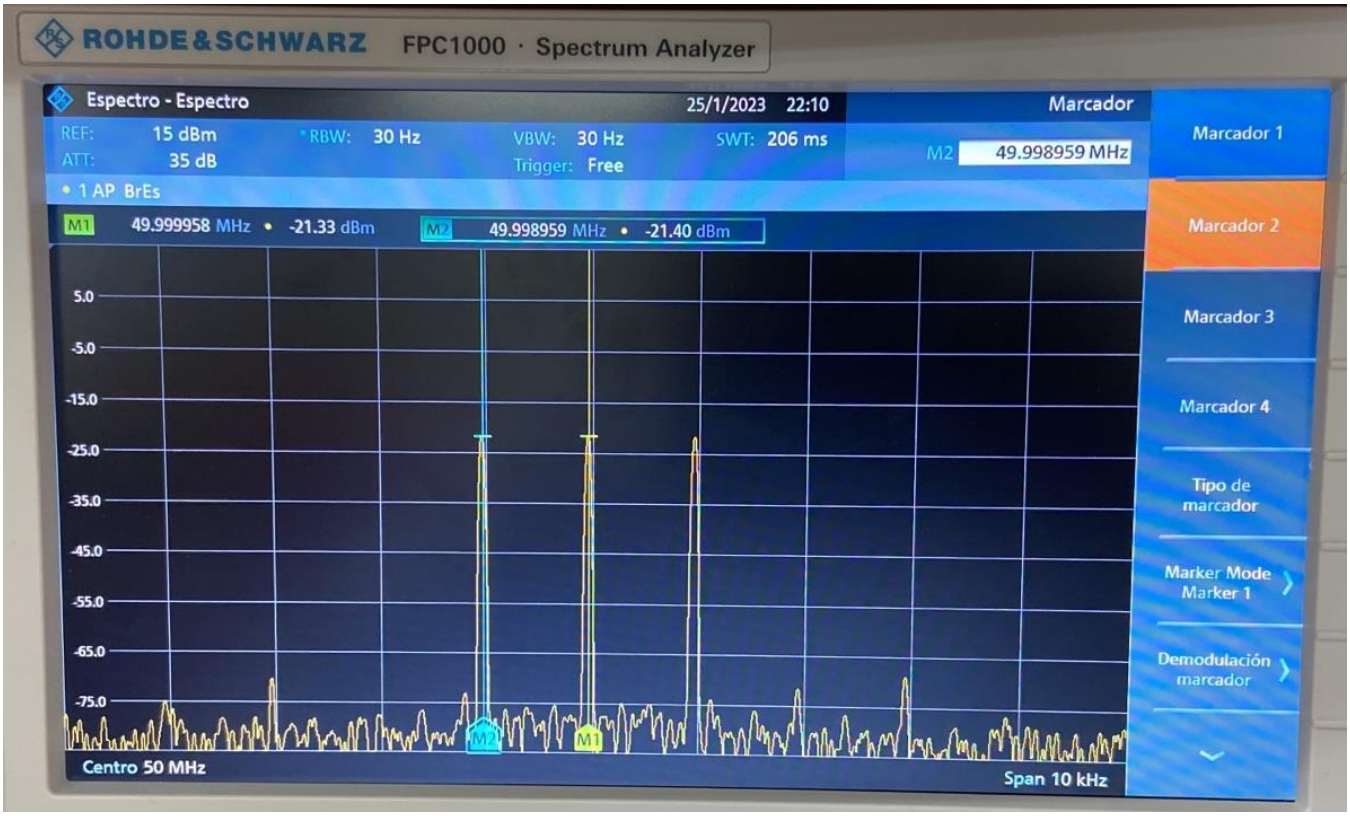


$Ka = 2$

$Ac = 46mV$

$\Delta R = 88mV$

$inidice\ de\ modulación\ (\mu) = \frac{\Delta R}{Ac} = 1{,}92$



$Potencia\ señal\ (Ps) = \frac{Ac^2}{2}\ [1 + \frac{Ka^2 * Am^2}{2}]$

$(Ps) = \frac{(46m)^2}{2}\left[1 + \frac{(2)^2 * (1)^2}{2}\right] = 3.174\ mW$