

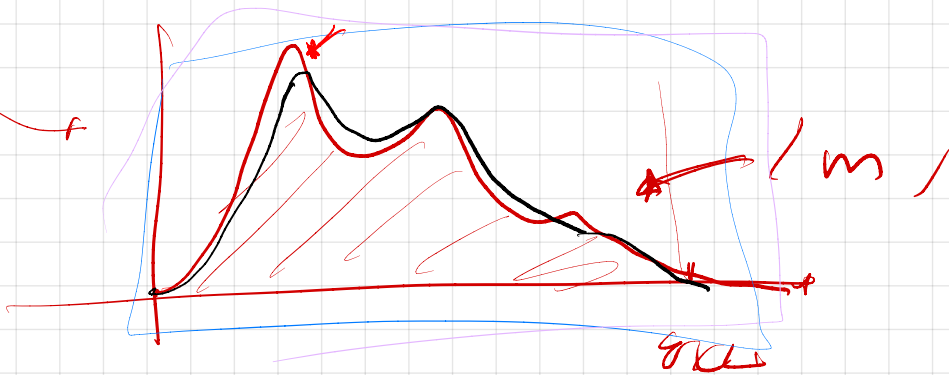
20ms

$|f(t)|$

vector

8kHz

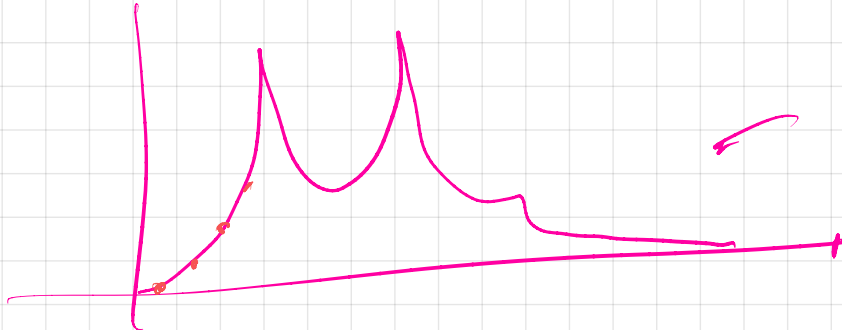
frequency



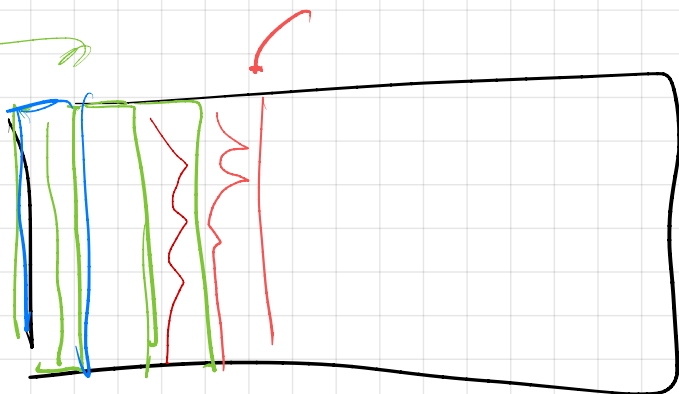
|m|

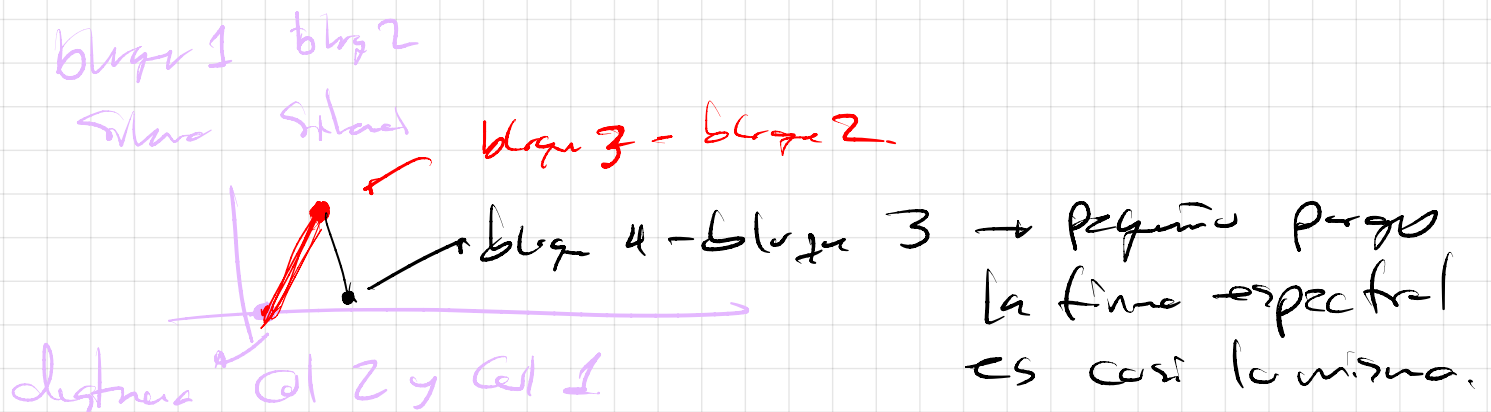
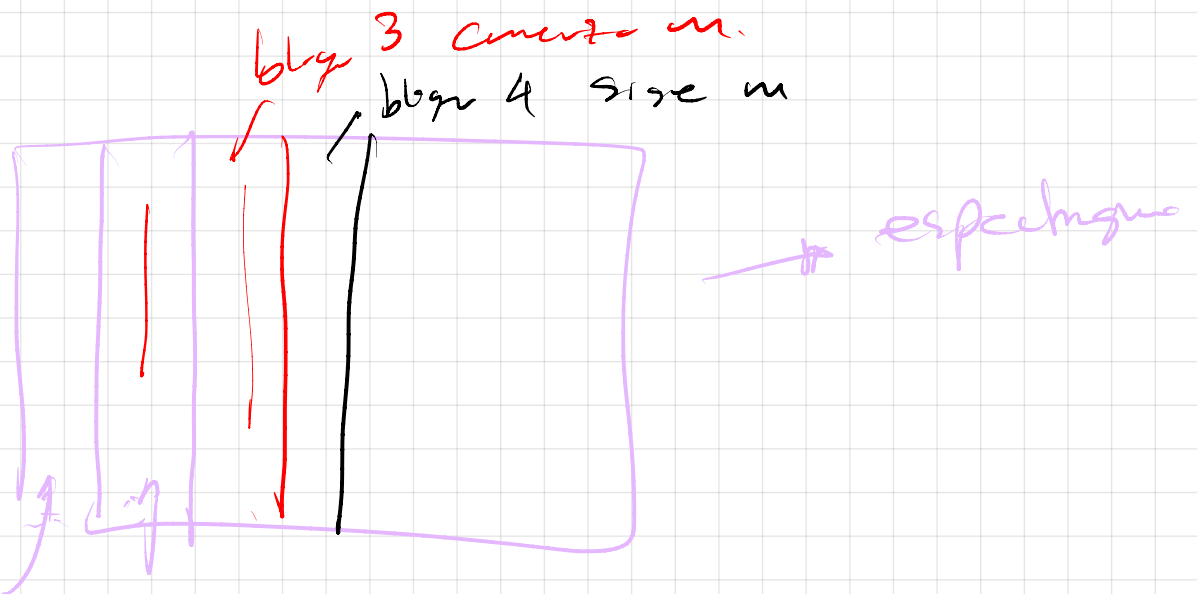
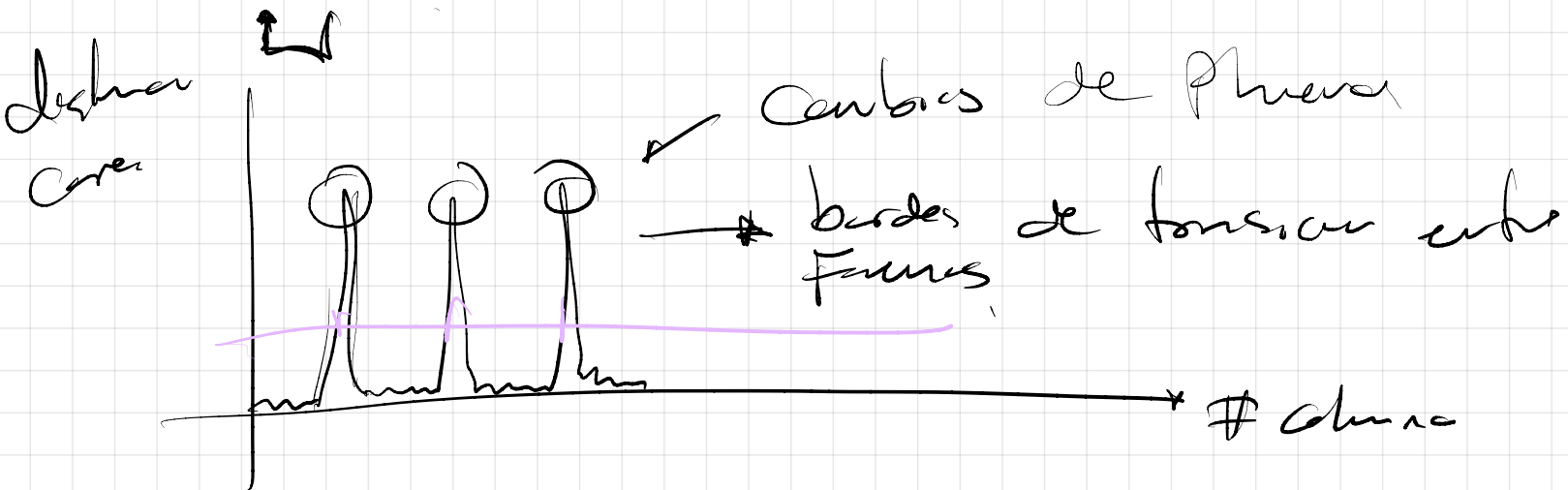
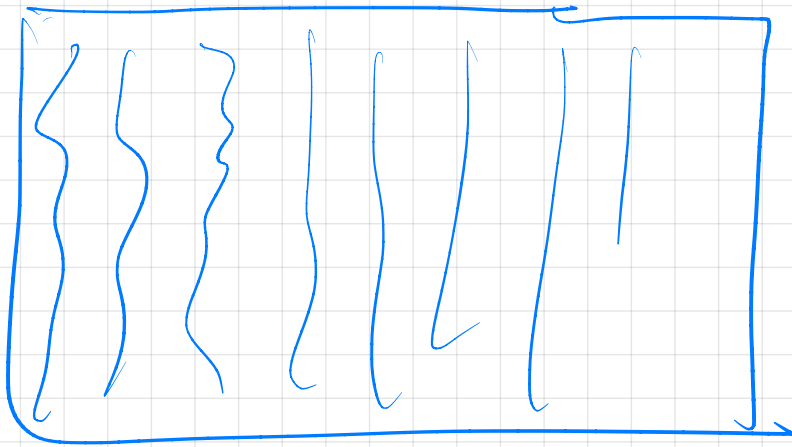
8kHz

- distance
- echoes
- cancellation

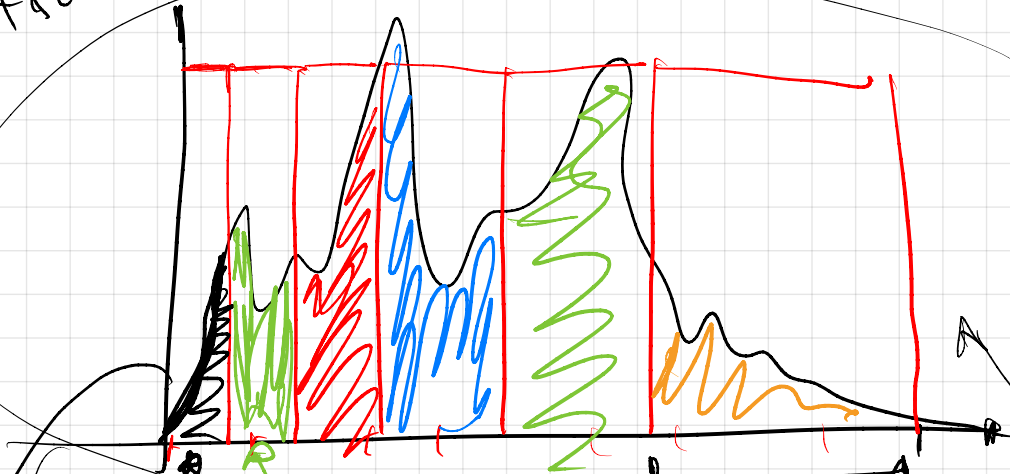


|a|





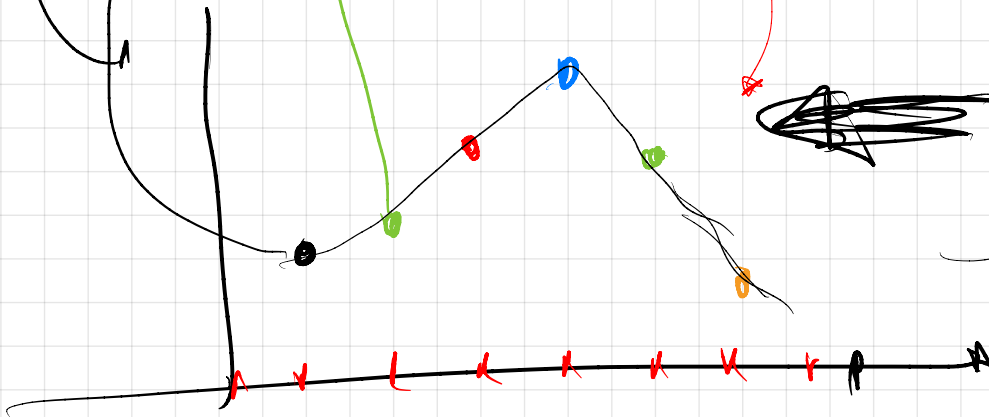
1 fct + 1



$f(\text{kHz})$

$5 \text{ kHz}$

10



2000

$f_{\text{mel}}$

$9 \text{ kHz}$

