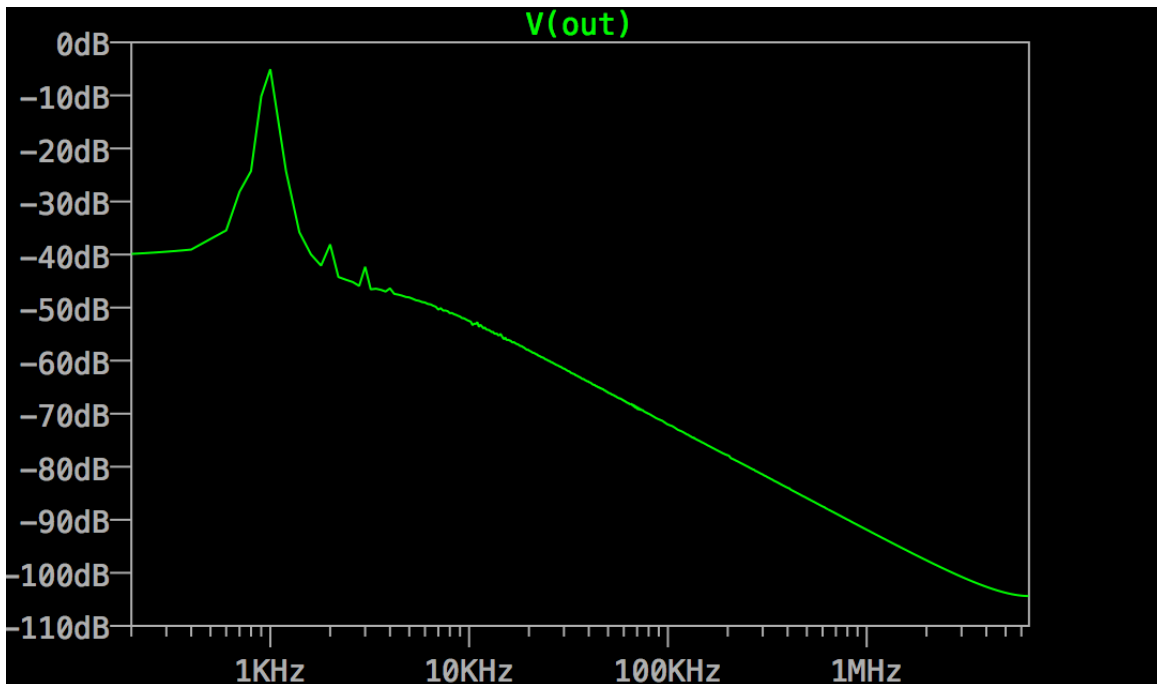


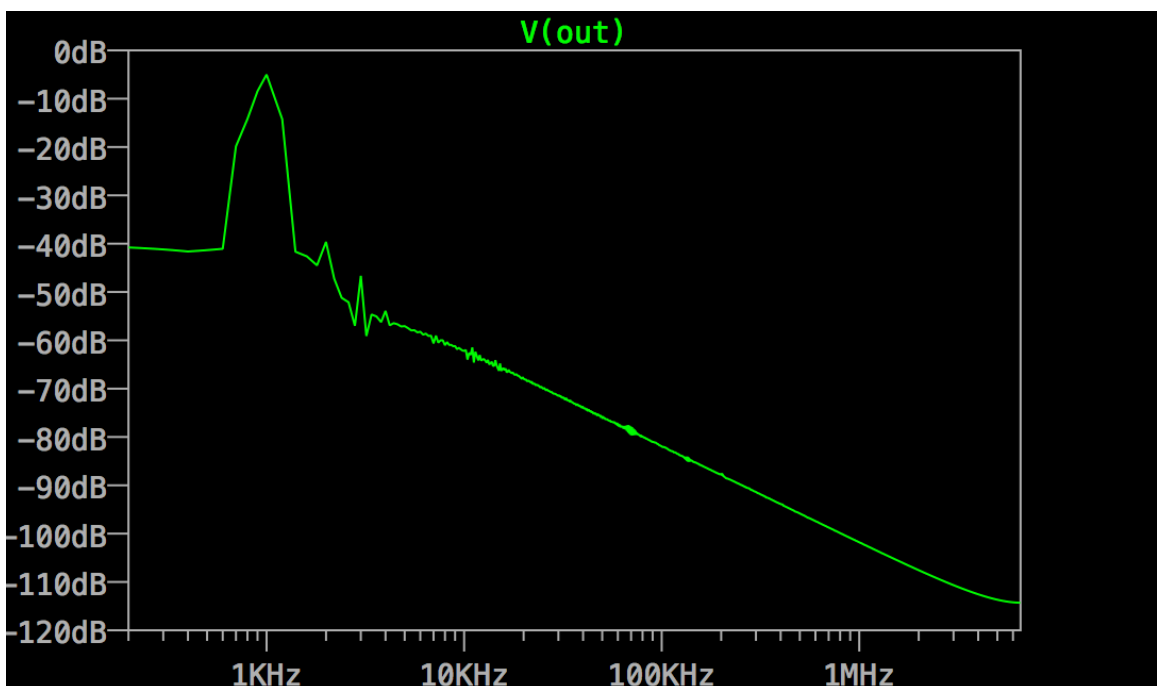
# LTSpice FFT display with two apertures for Gaussian Window

FFT of Gaussian is another Gaussian:

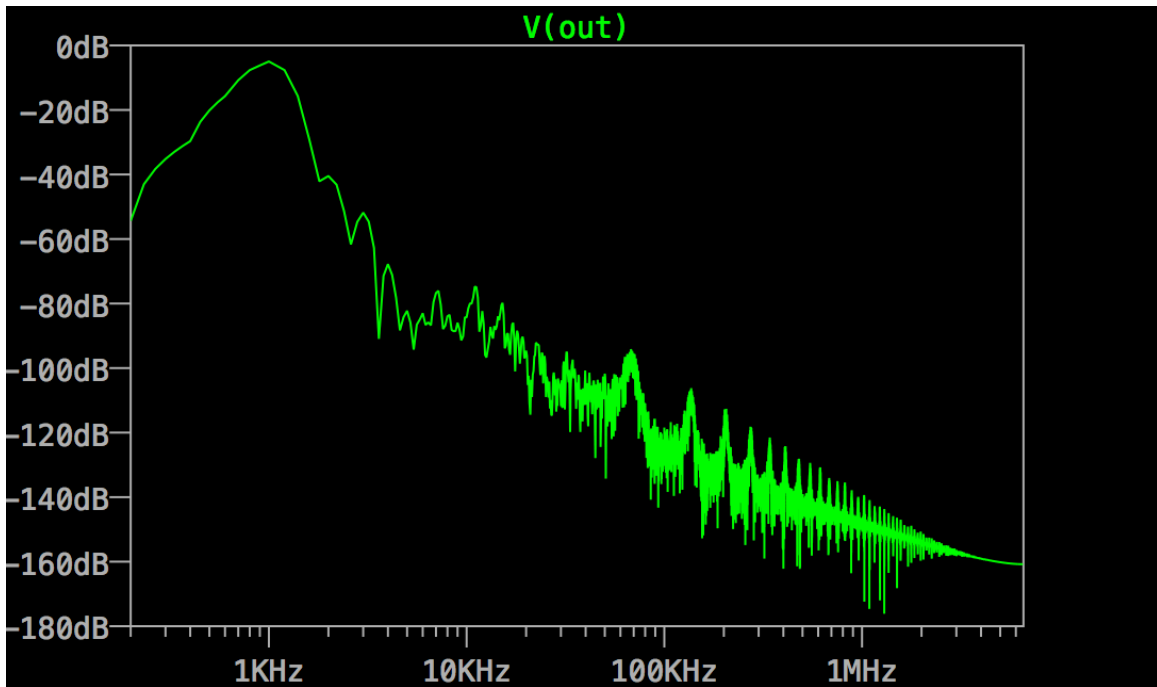
$$\frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{x^2}{2\sigma^2}} \xleftrightarrow{FFT} e^{-\frac{\sigma^2\omega^2}{2}}$$



Gaussian window with Sigma = 1

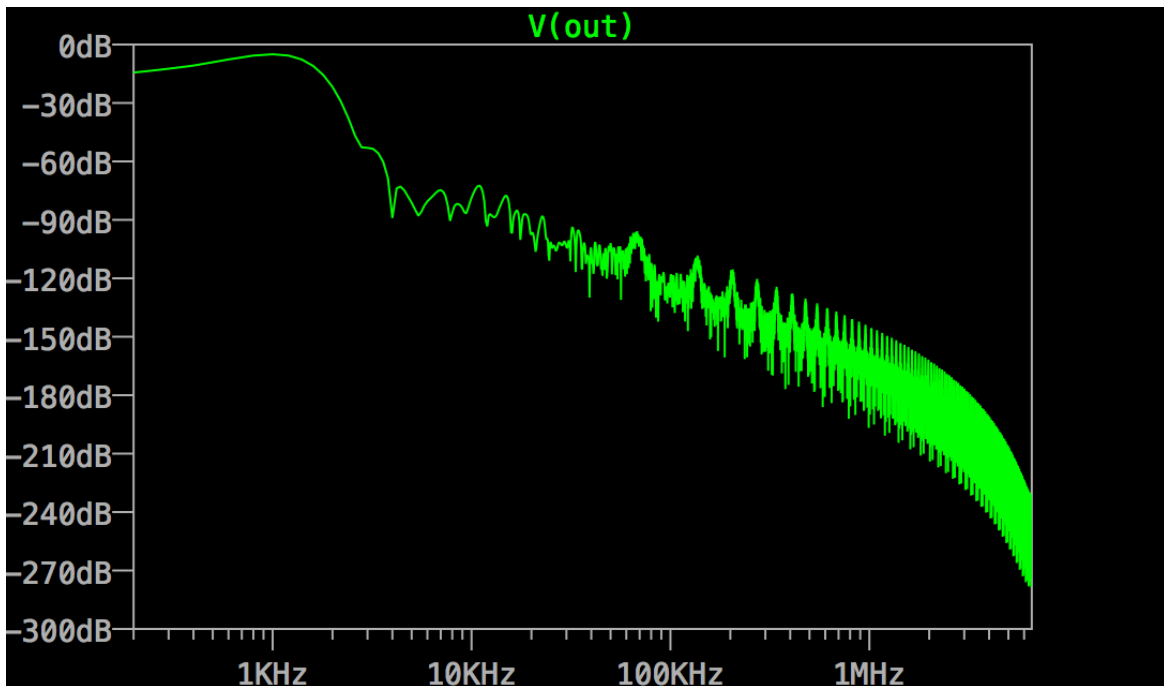


Gaussian window with a Sigma = 0.5 (default LTSpice Setting)



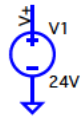
Gaussian window with Sigma = 0.25.

As sigma gets lower, resolution is higher but the discrimination (specificity) is lower (the 1 KHz peak is starting to disappear)



Gaussian window with Sigma = 0.125.

Max resolution (most „events” are captured) with minimum discrimination (lowest specificity).



```

.tran 0 5ms
;step param Gain 10 1k2 300
;step param RL list 220 680 1Meg 10Meg

```

