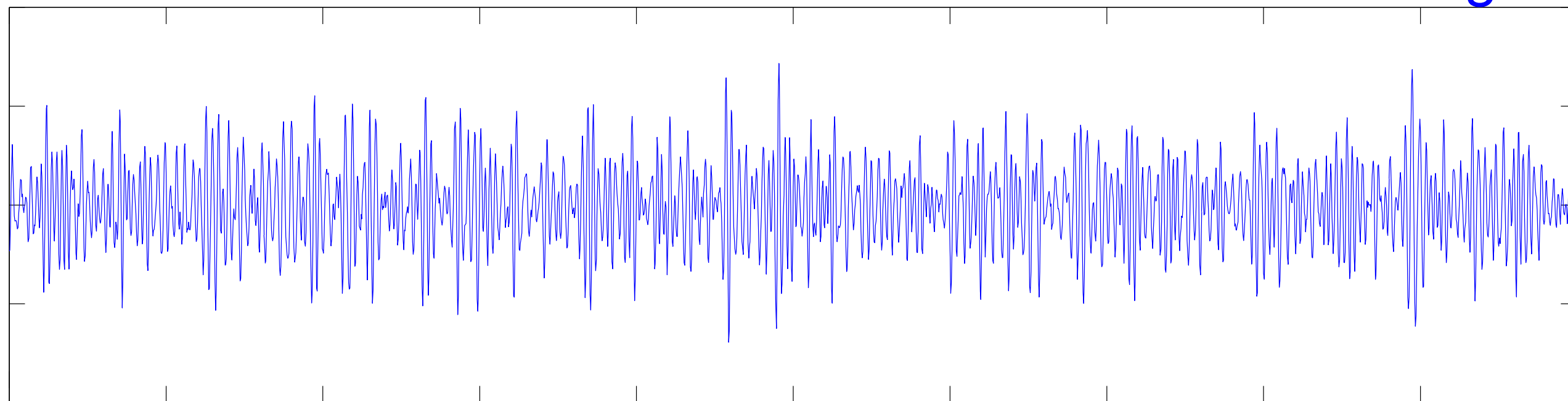
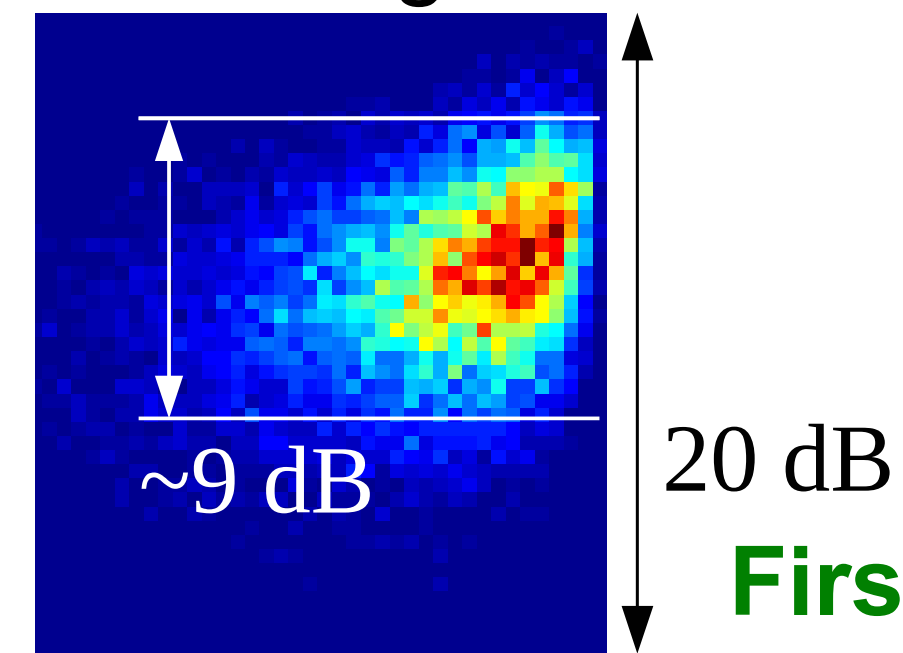


$v(t)$  (Volts)

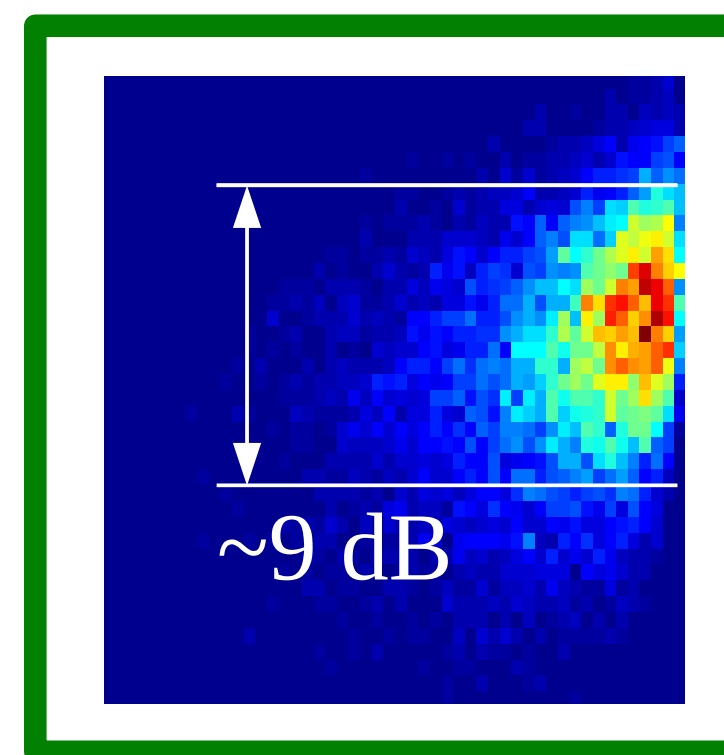
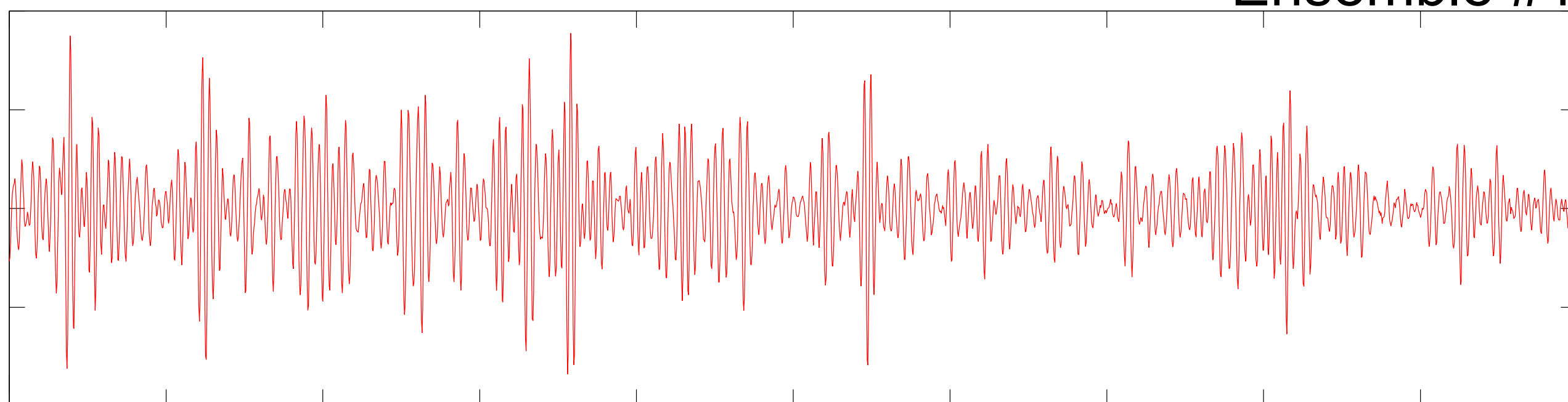
Simulated signal



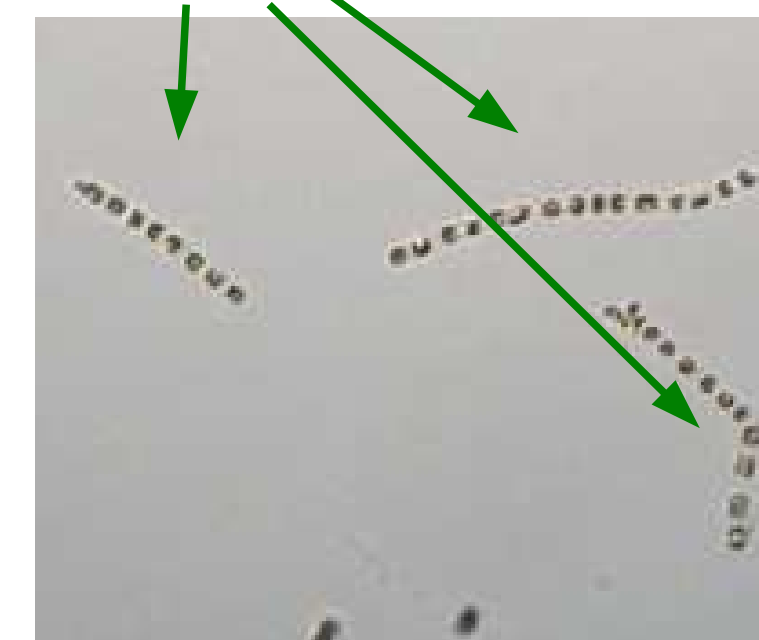
2D Histogram



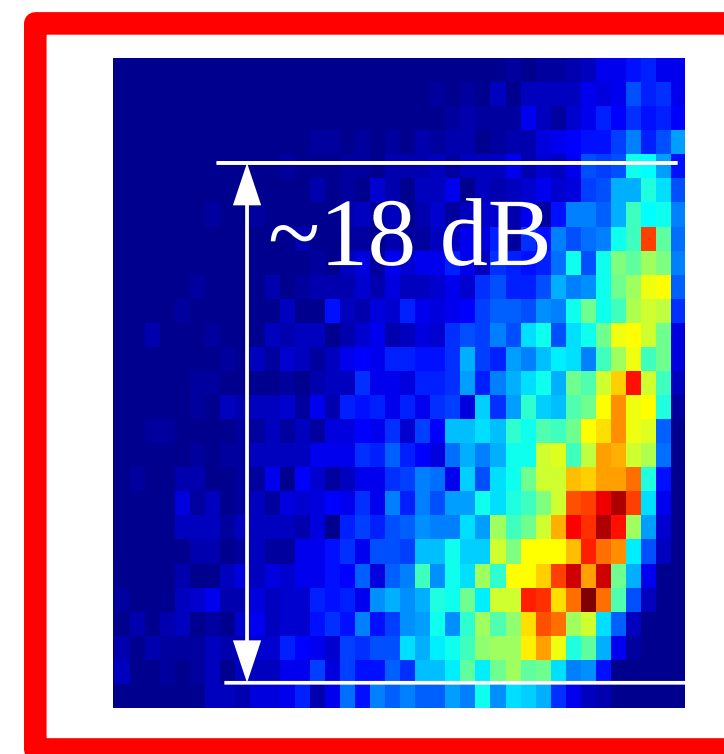
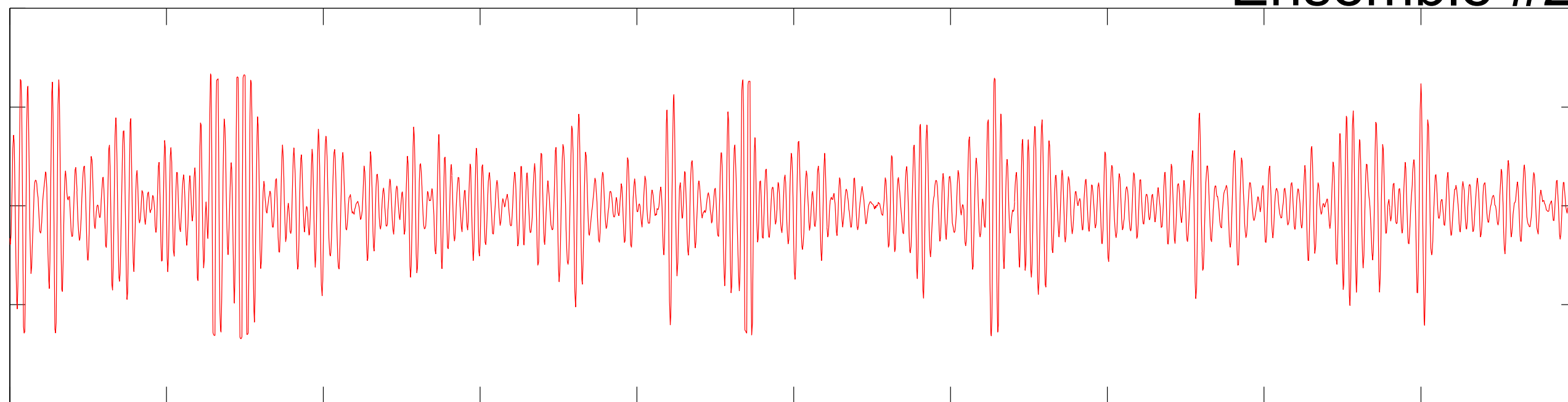
Ensemble #1



**First assumption applies**



Ensemble #2



**First assumption does not apply!!**

0 5 10 15 20 25 30 35 40 45

time( $\mu\text{s}$ )