(a) Molecular structure with $r = 3.7 \text{ nm}$.

(b) Graph showing $\text{Re}(V)$ and $\text{Im}(V)$ as a function of time for $6.42 \text{ T}$ at $5 \text{ K}$ with $\epsilon = 70\%$.

(c) Graph showing $\text{Re}(V)$ and $\text{Im}(V)$ as a function of time for $6.42 \text{ T}$ at $50 \text{ K}$ with $\epsilon = 9\%$. 

Parameters:
- $q_F = 1.0(4)$
- $q_B = 4.2(3)$
- $q_F = 0(2)$
- $q_B = 0.5(9)$