1 collection of data (collected every 0.5 seconds)

y = 4E-14x6 - 5E-11x5 + 3E-08x4 - 7E-06x3 + 0.0008x2 - 0.0433x + 0.0565  
R² = 0.5589

2 Collection of data (Collected every 0.5 seconds)

y = 5E-14x6 - 5E-11x5 + 2E-08x4 - 5E-06x3 + 0.0005x2 - 0.0248x - 0.0813  
R² = 0.8385

3 Collection of Data (collected every 0.1 seconds)

y = -0.0004x - 0.1682  
R² = 0.0688

With the collected data, I believe that the 0.01 if one disregard the blue lines