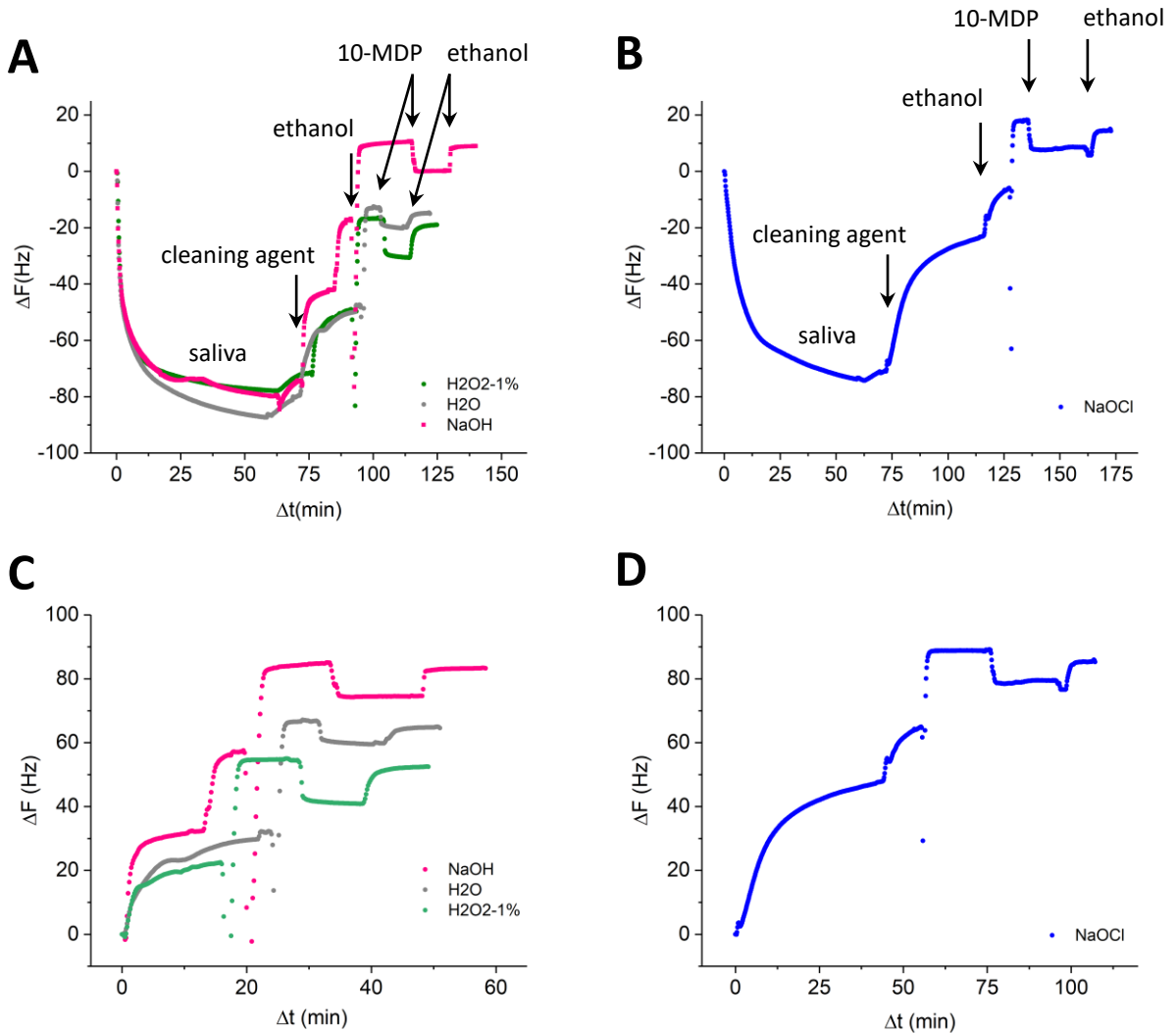


QCM-D results



While all tested cleaning agents were effective in desorbing salivary pellicle from zirconia, desorption kinetics were the fastest for **0.1 M NaOH** (A). Due to the slow desorption kinetics for **1% NaOCl**, the results are plotted separately with a different time scale (B). Change in frequency following the application of the cleaning agents is highlighted in C & D. All plots show representative results for the 3rd harmonic monitored under continuous flow (100 $\mu\text{l}/\text{min}$; flow rate was reduced to 10 $\mu\text{l}/\text{min}$ during saliva protein adsorption after the first 2 min). The zirconia sensor surface was rinsed with 50 mM NaCl solution immediately before and after applying the cleaning agents.