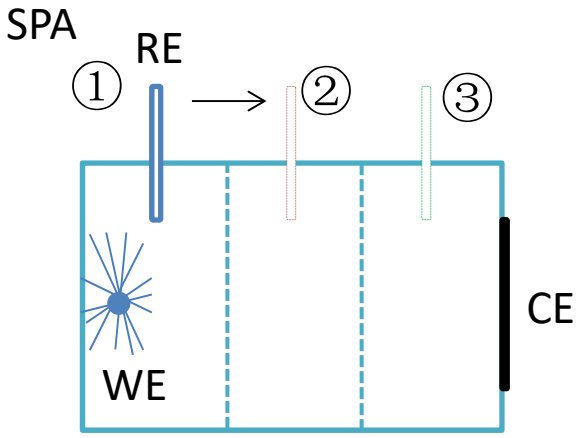
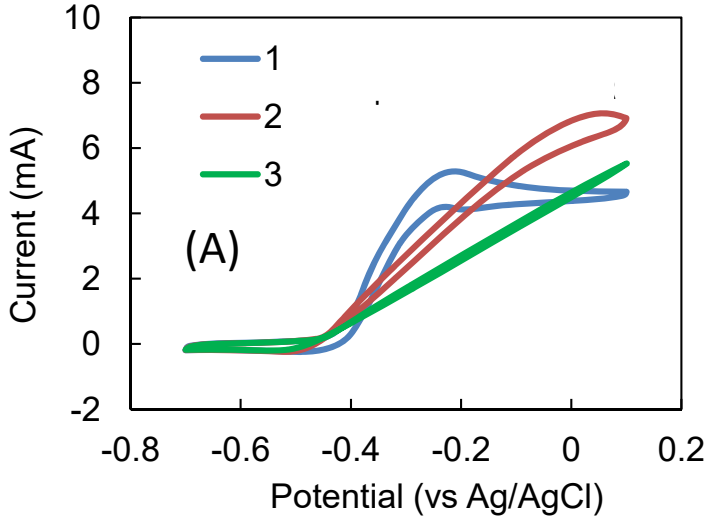
Electrochemistry QUIZ!

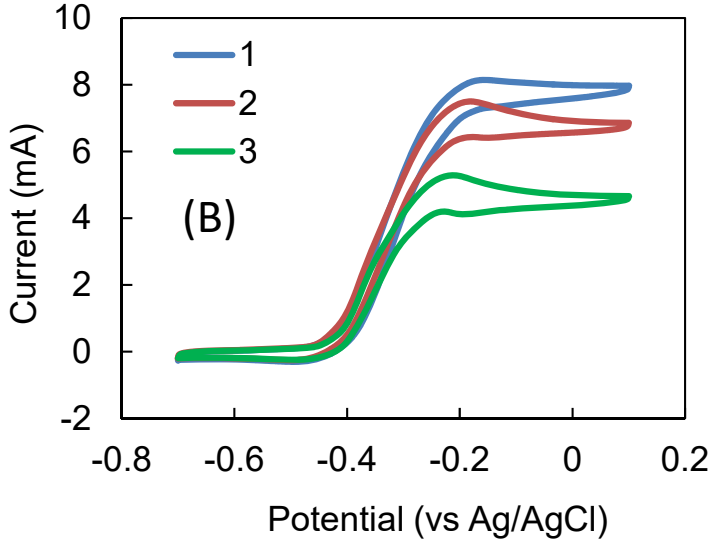
By Fang Zhang and Bruce Logan

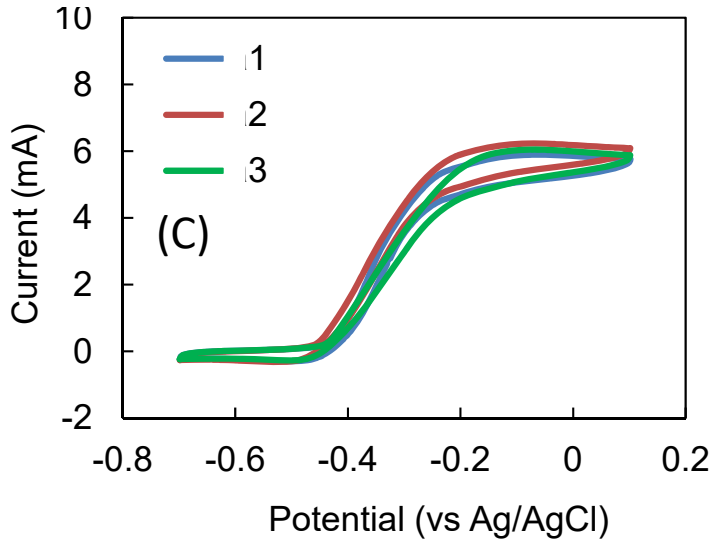
PennState

QUIZ #1: Which figure describes the change in CV curves when the RE is moved away from the WE?









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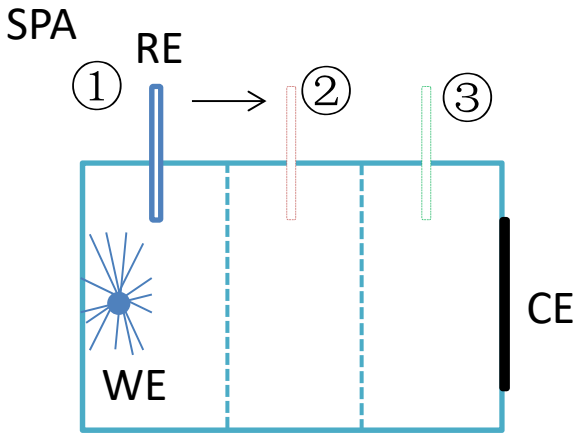
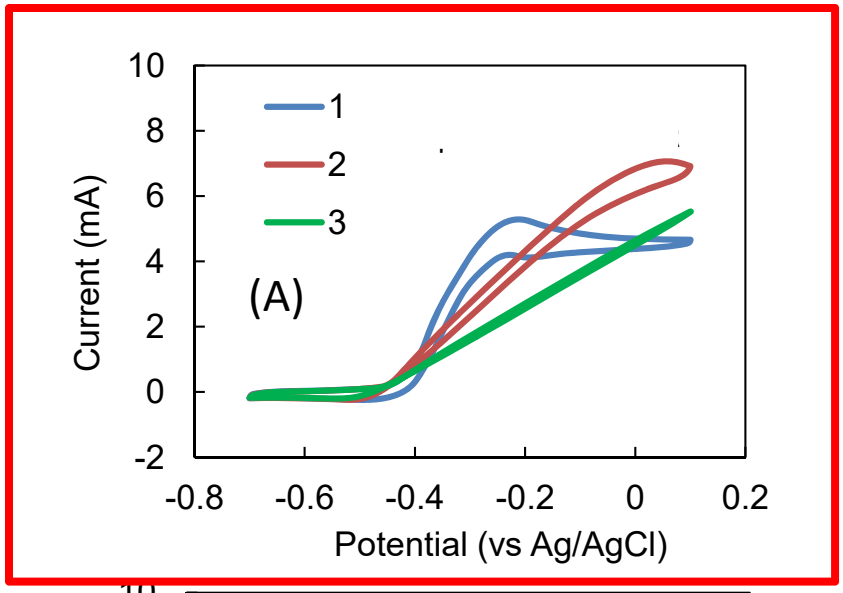
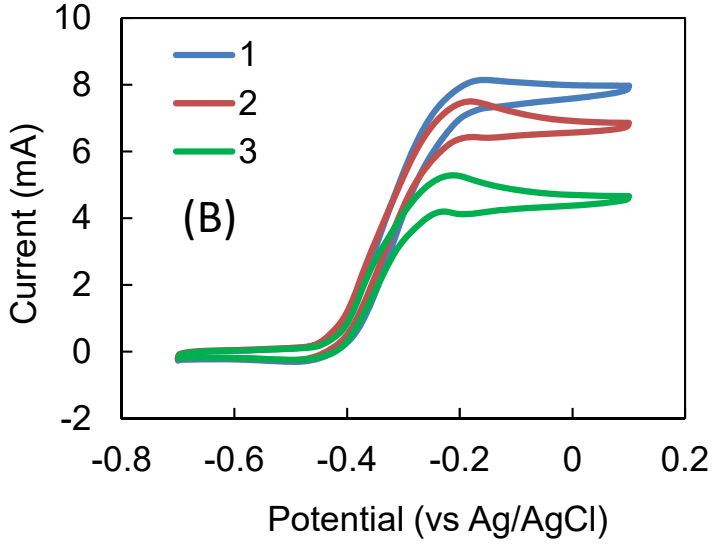
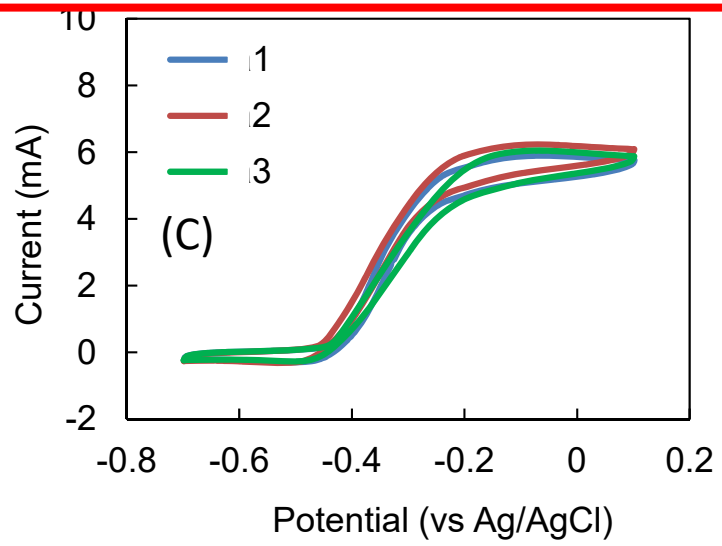
Electrochemisty Answer: **(A)**- If there is no IR correction…









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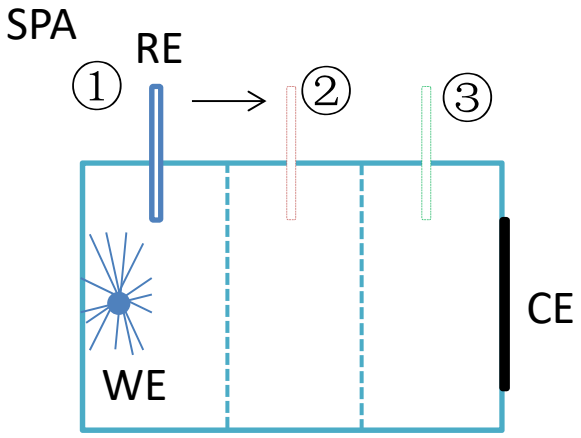
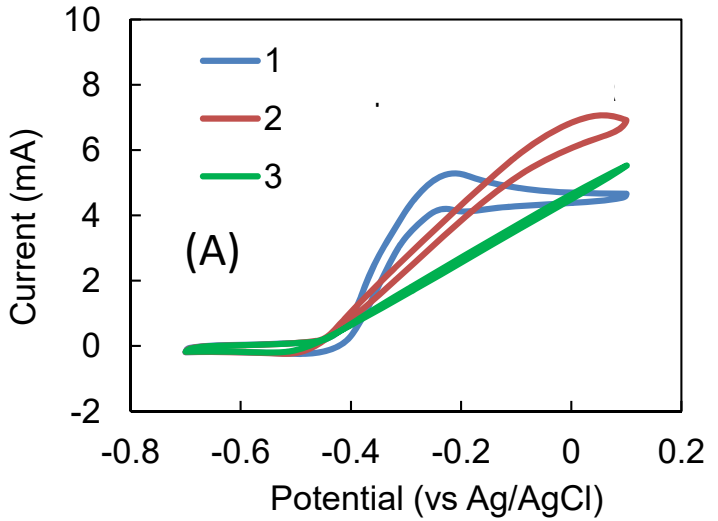
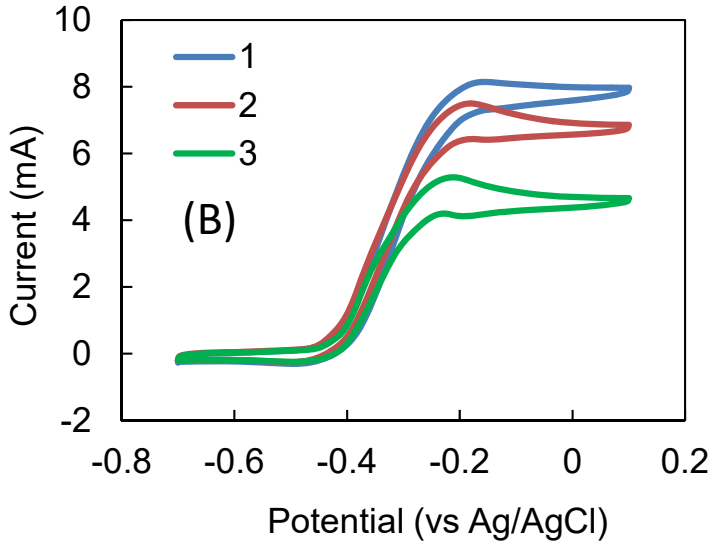
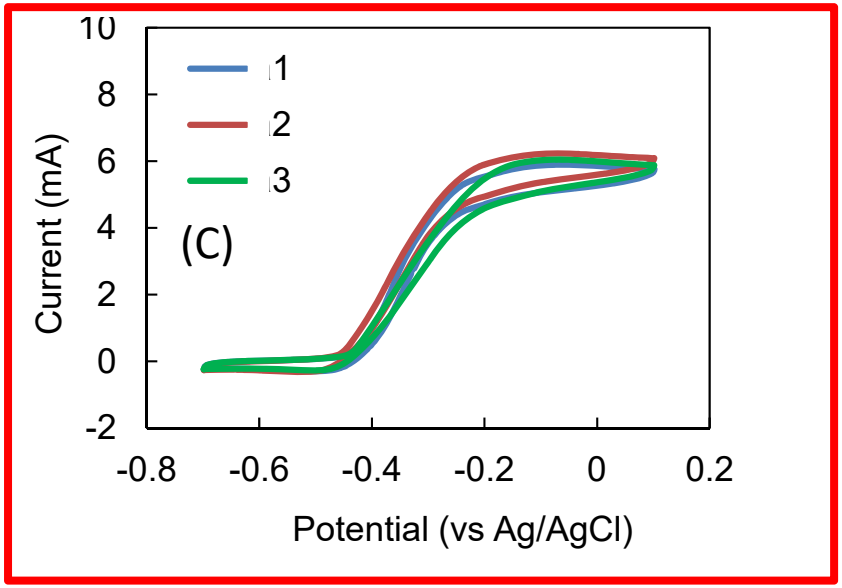
Electrochemisty Answer: (C)- With IR correction









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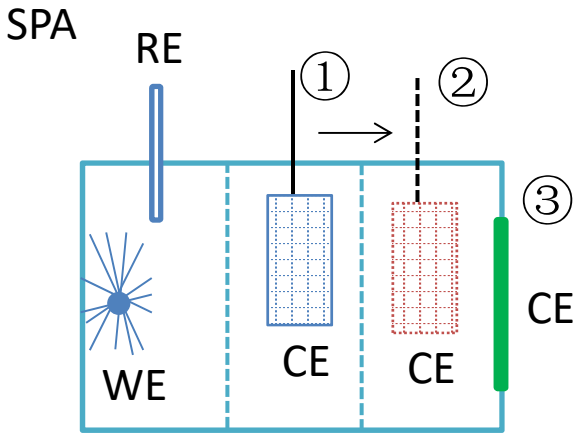
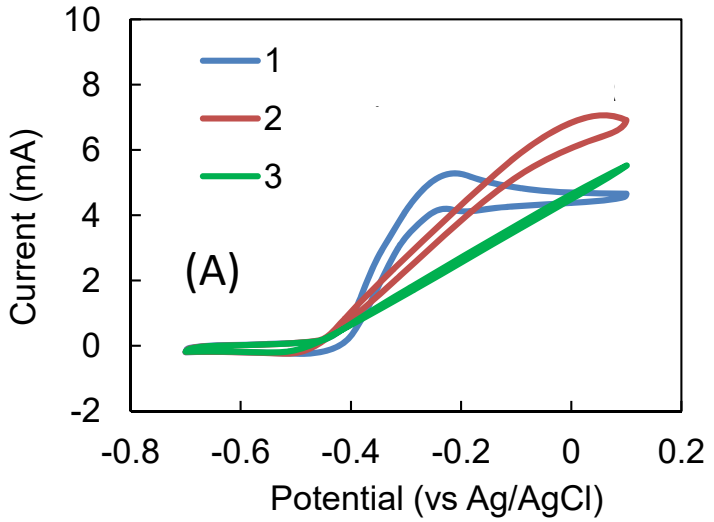
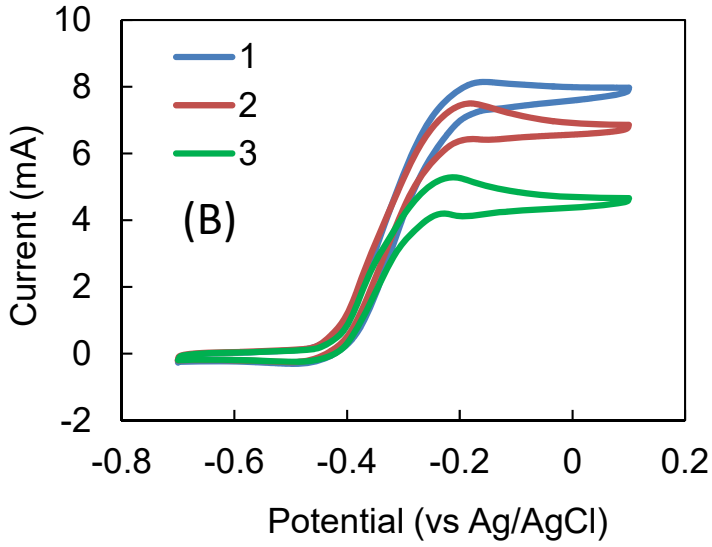
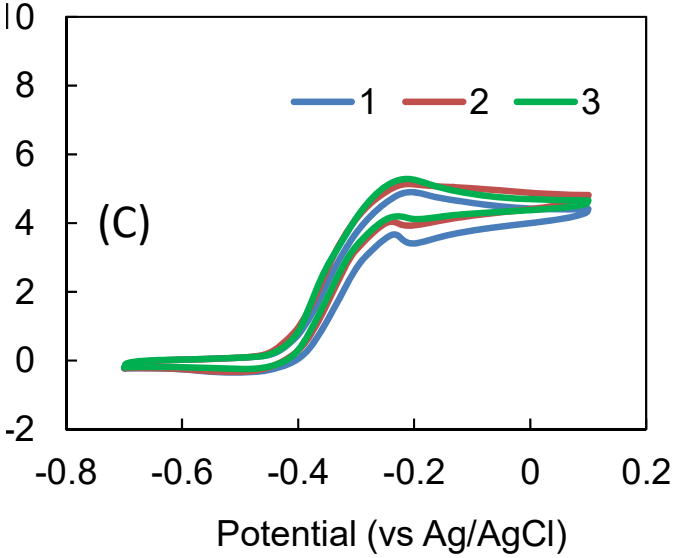
Quiz #2. Which figure describes the change when the CE (cathode) is moved further away from the anode (WE)?









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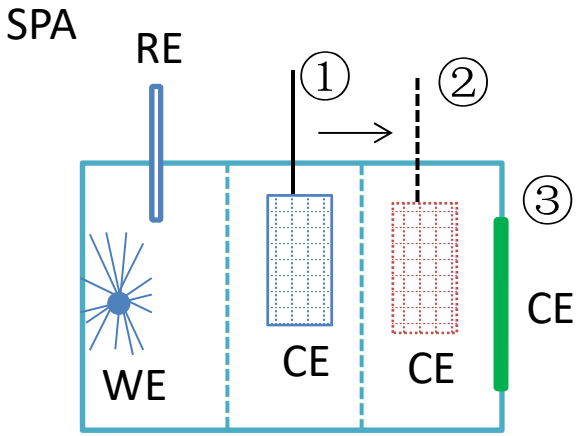
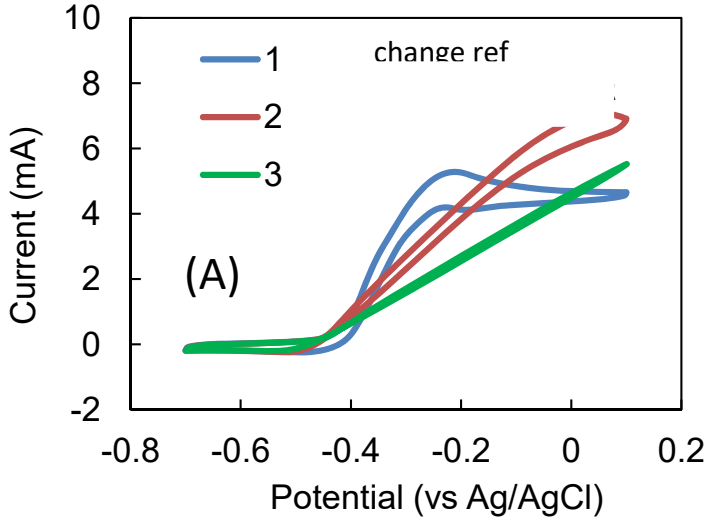
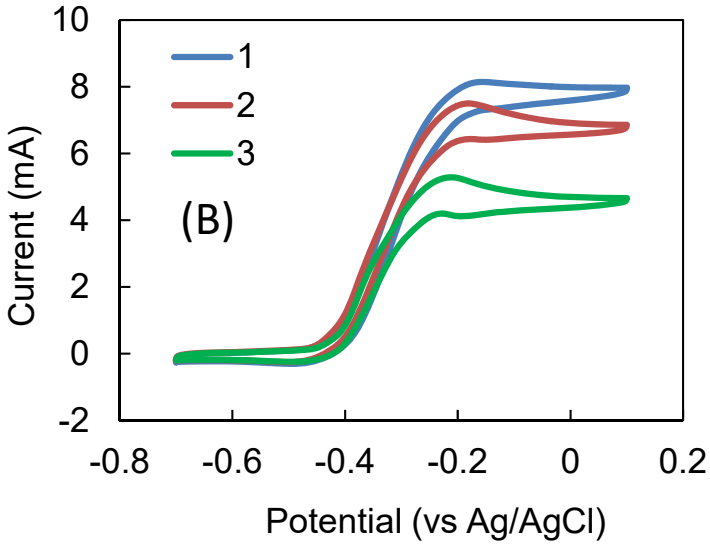
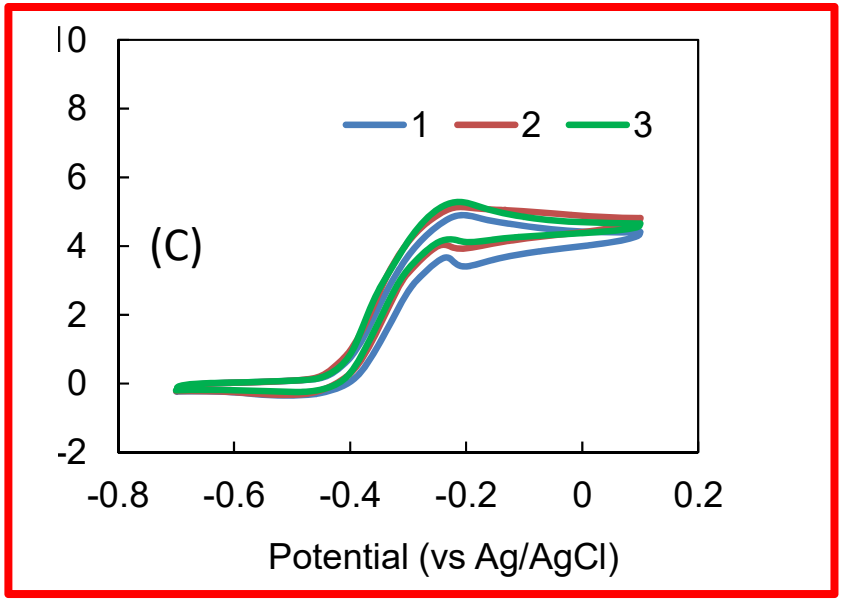
Electrochemistry Answer #2. **(C)** CVs should stay the same









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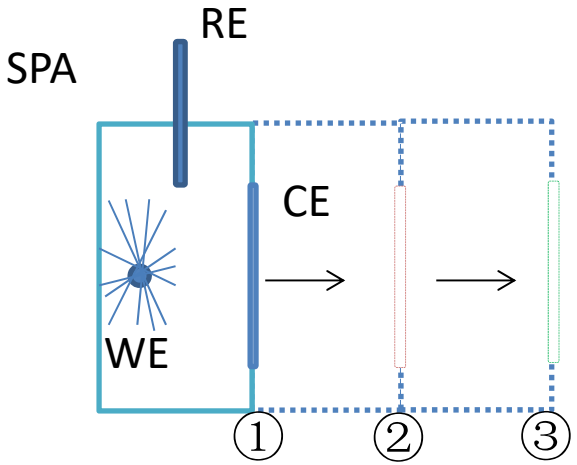
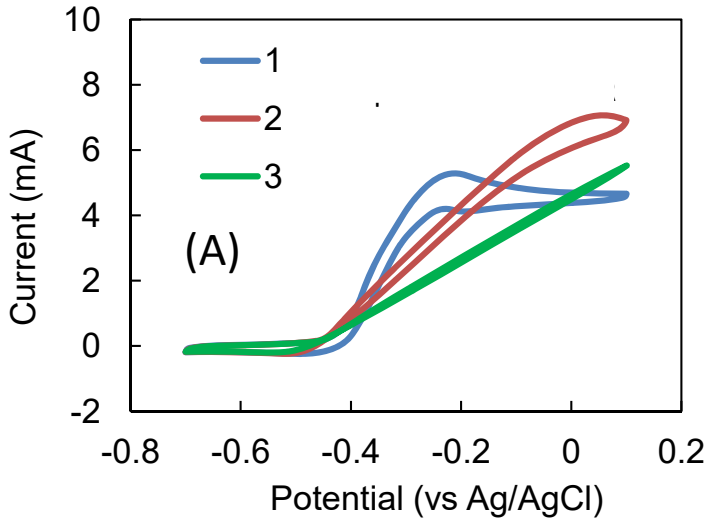
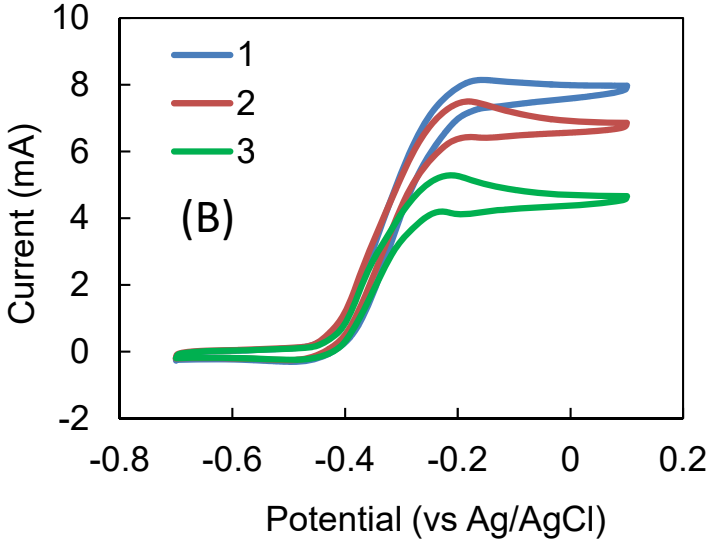
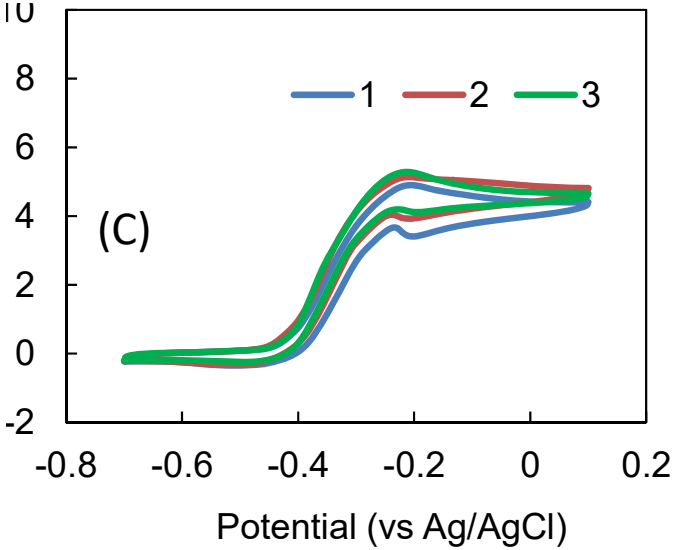
Quiz #3. What if the cathode (CE is moved, and there is time for acclimation of the biofilm?









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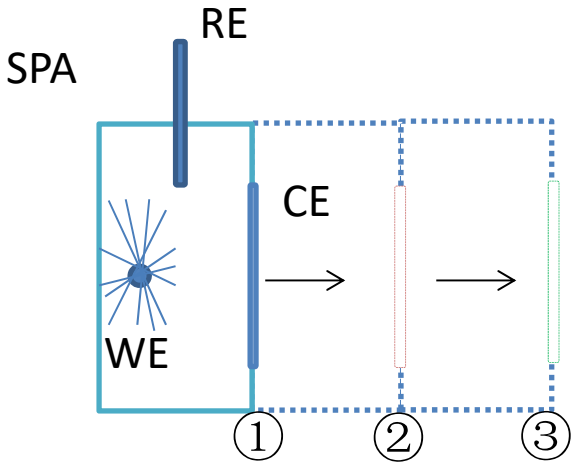
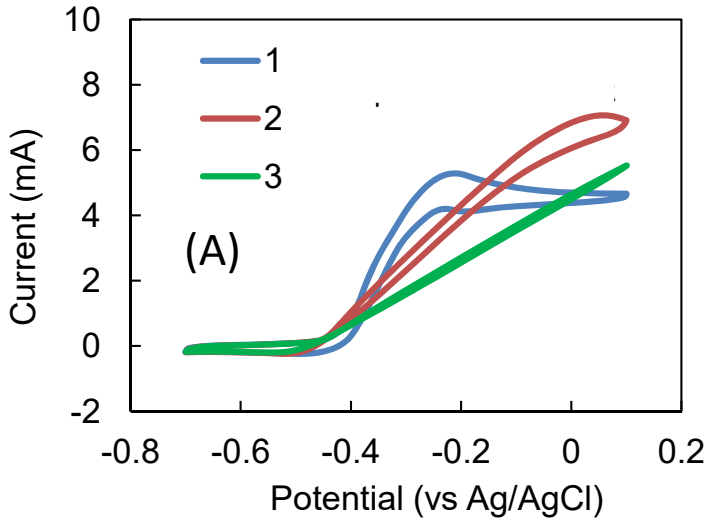
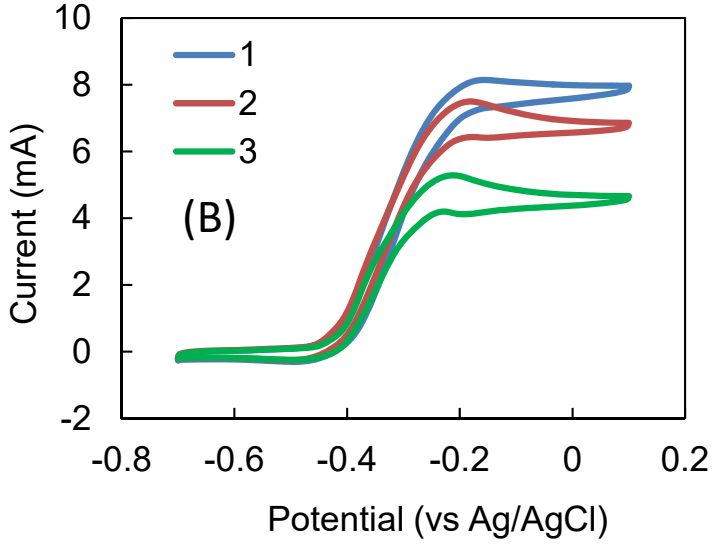
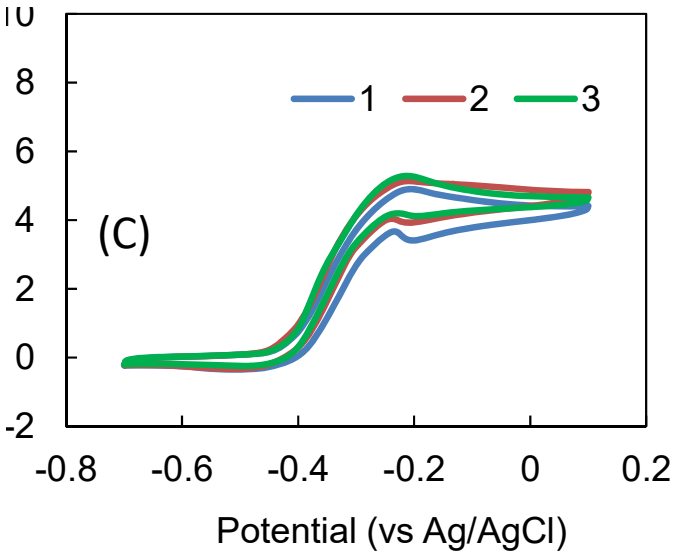
Microbiology/Electrochemistry Answer #3: **(B)** The biofilm can change (!)









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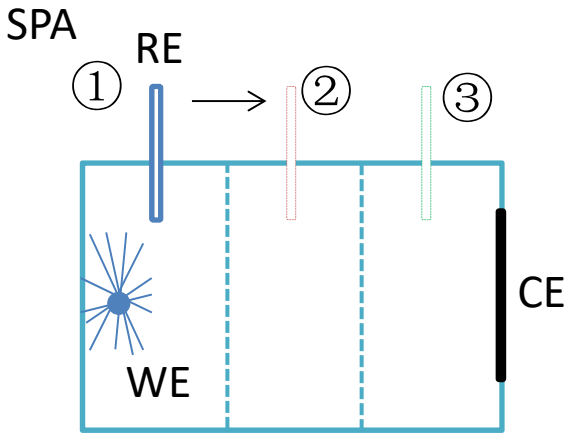
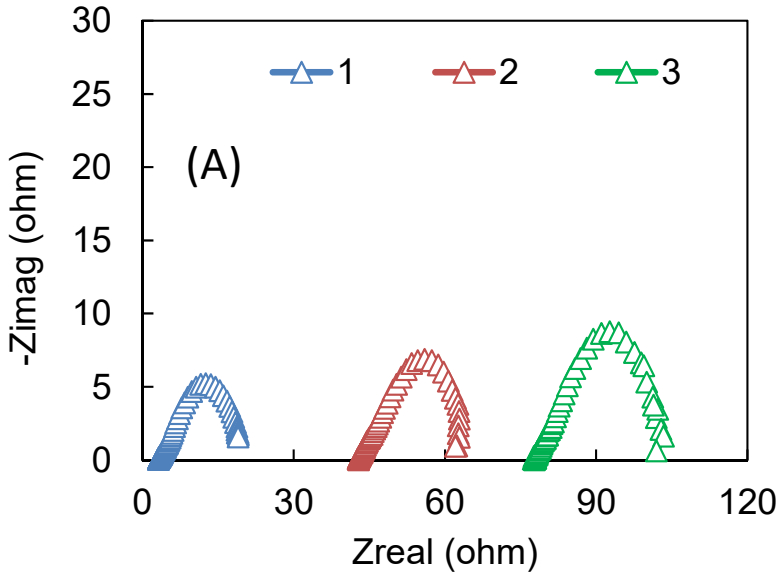
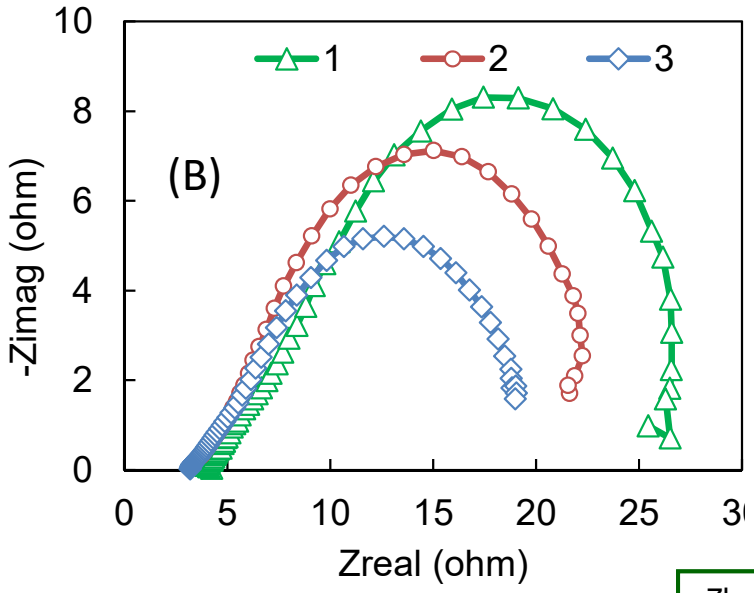
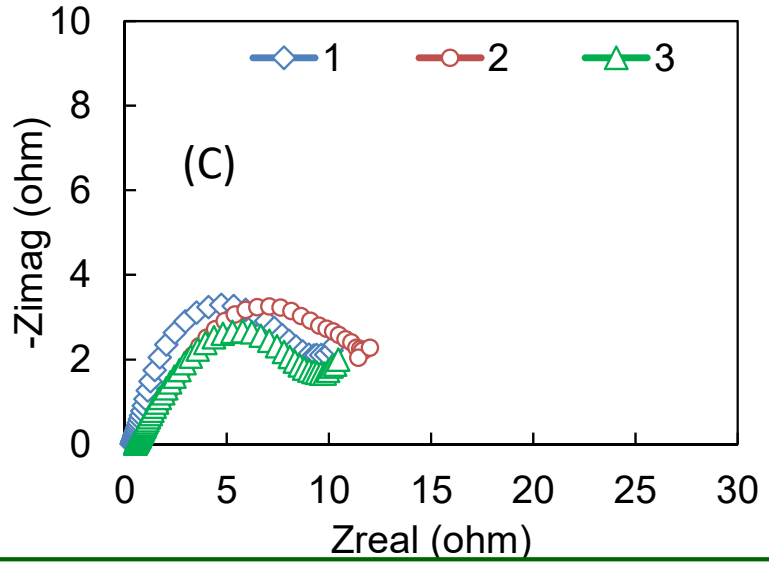
Quiz #4: How does EIS spectra change when RE is moved away from the WE?









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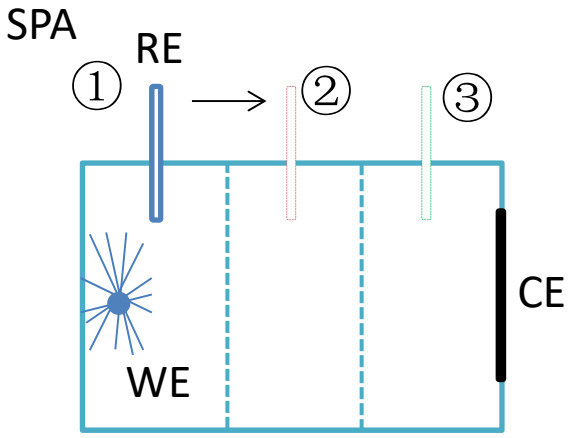
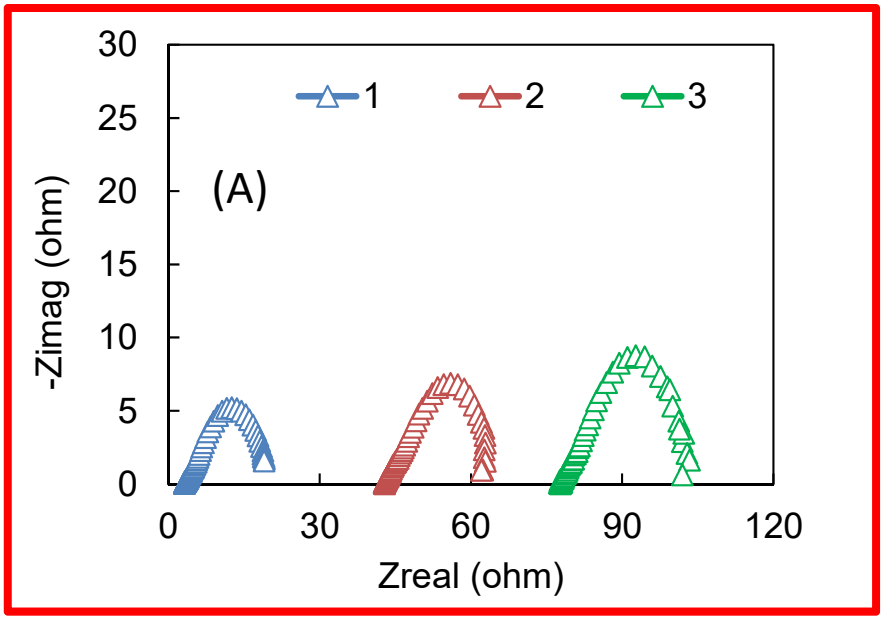
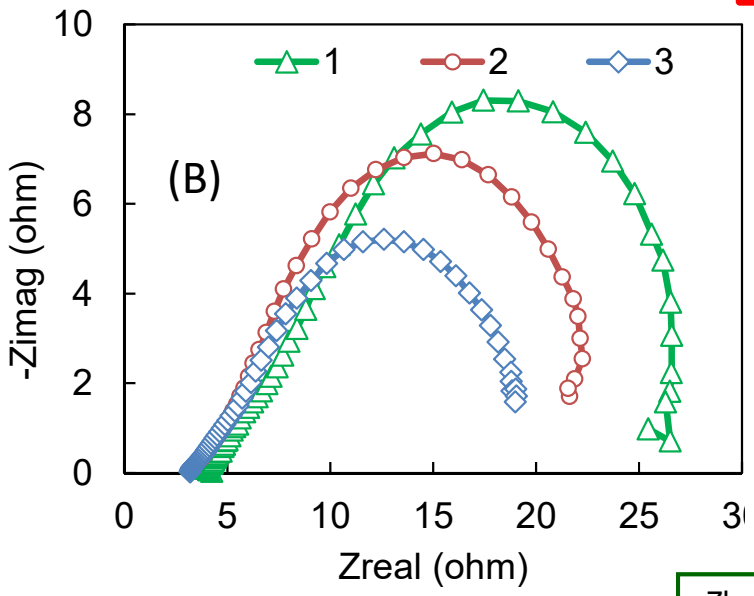
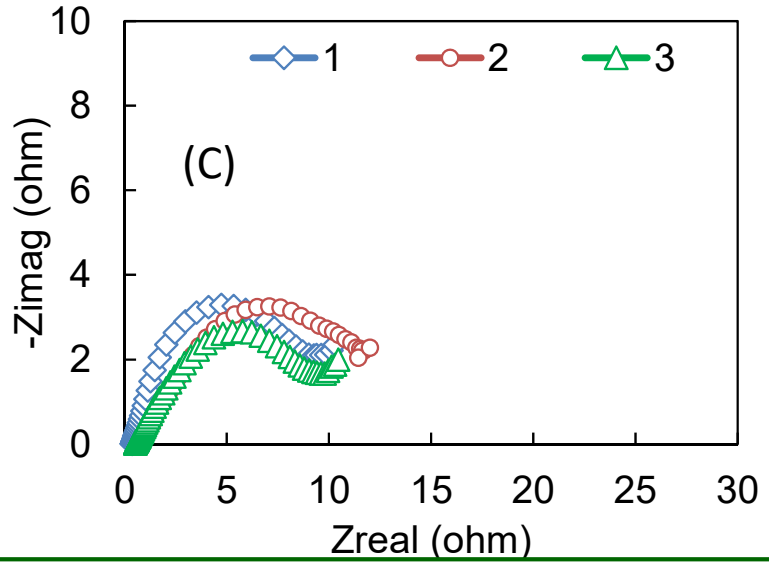
Electrochemistry #4: More solution resistance (cannot change this)









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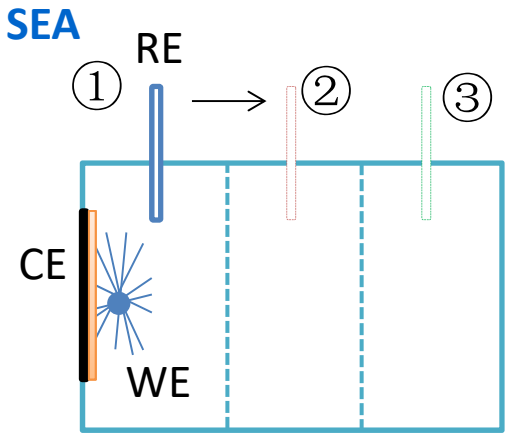
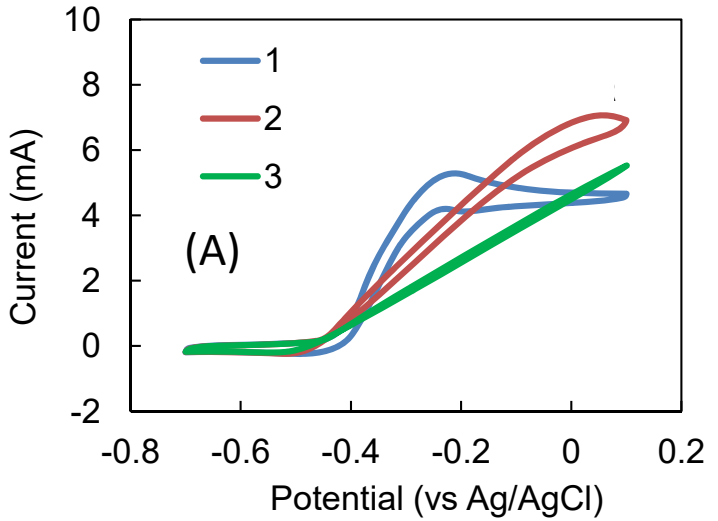
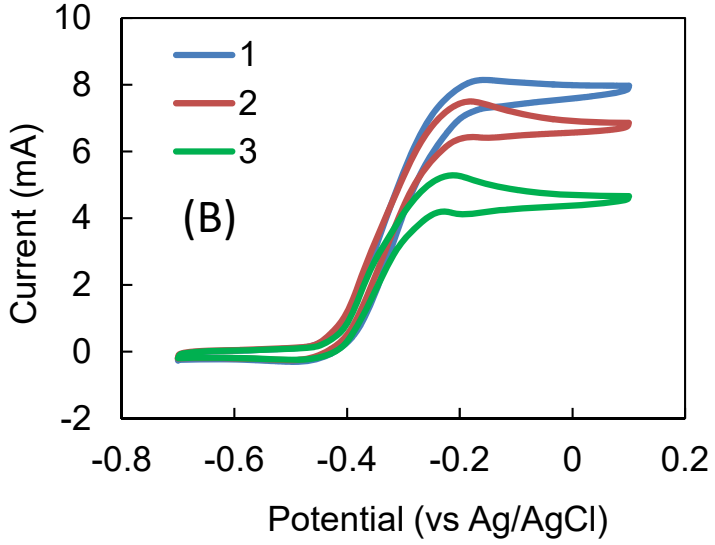
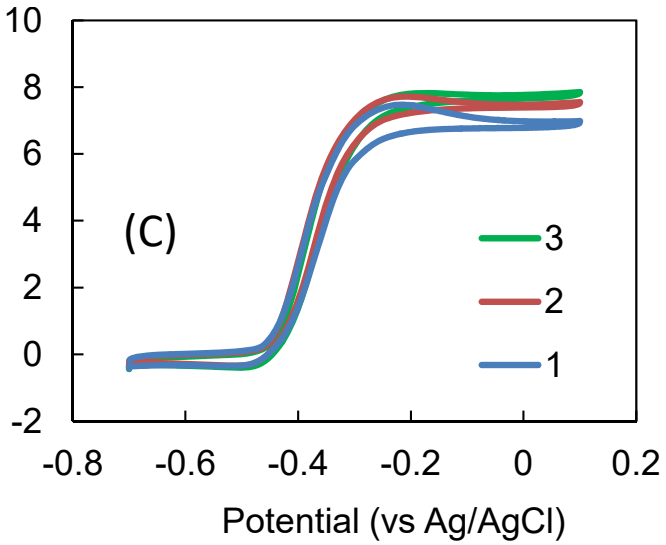
Quiz #5: What is effect of moving the RE using the SEA configuration (no IR correction)?









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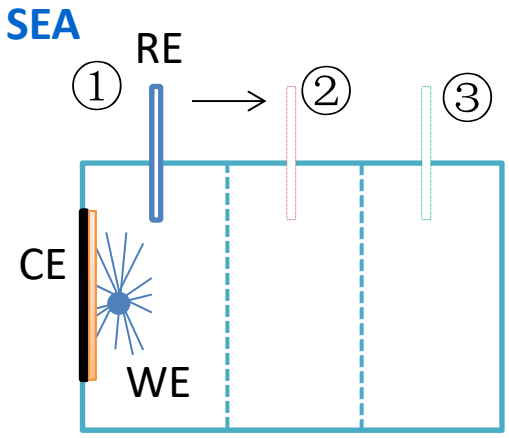
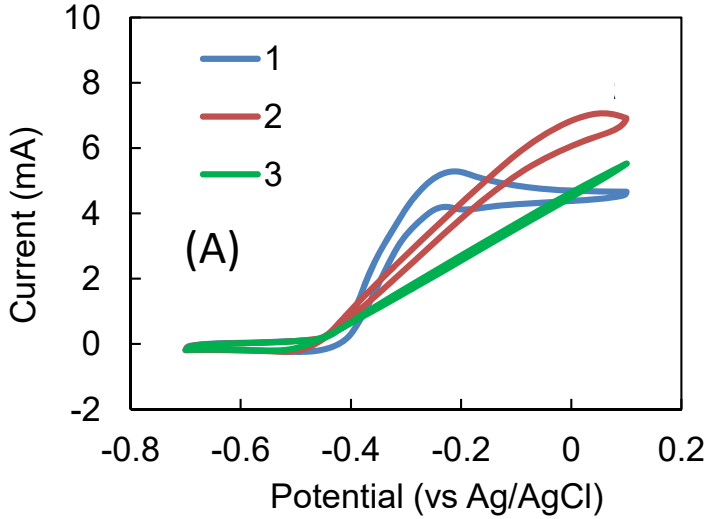
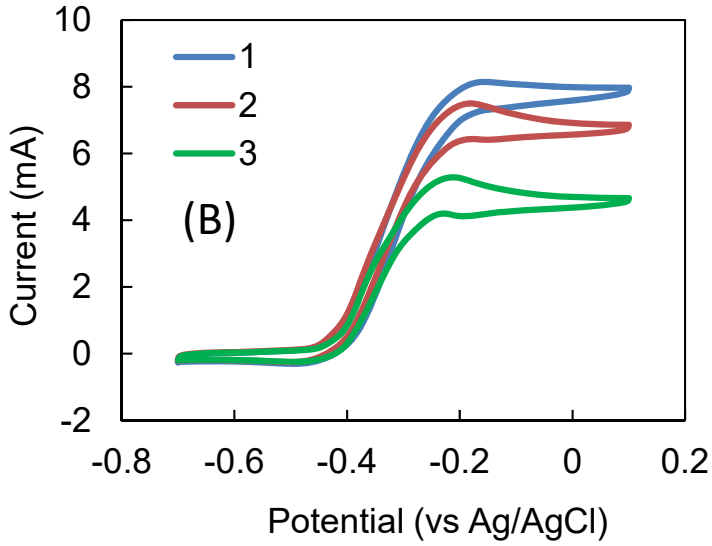
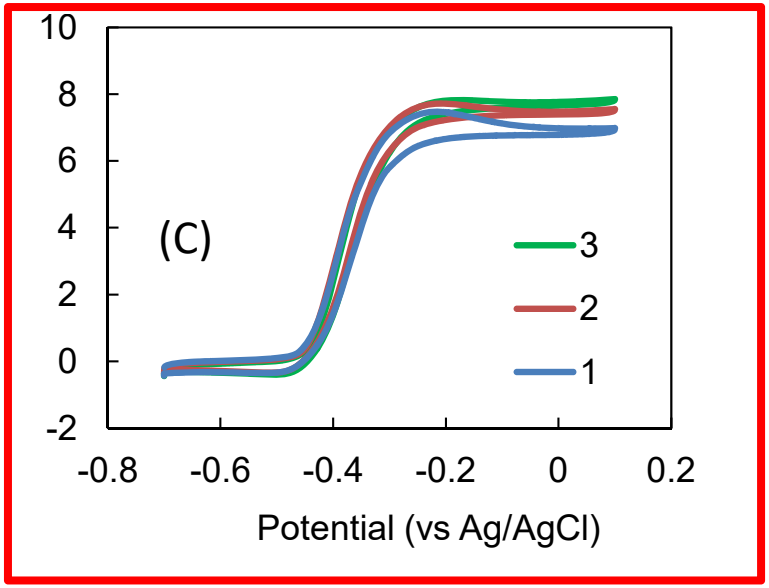
Electrochemistry #5: No effect… RE is outside the current path.









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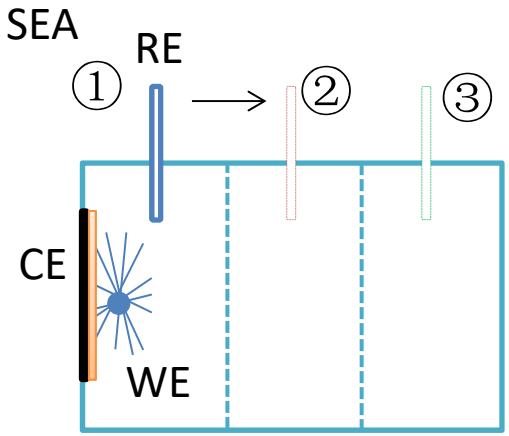
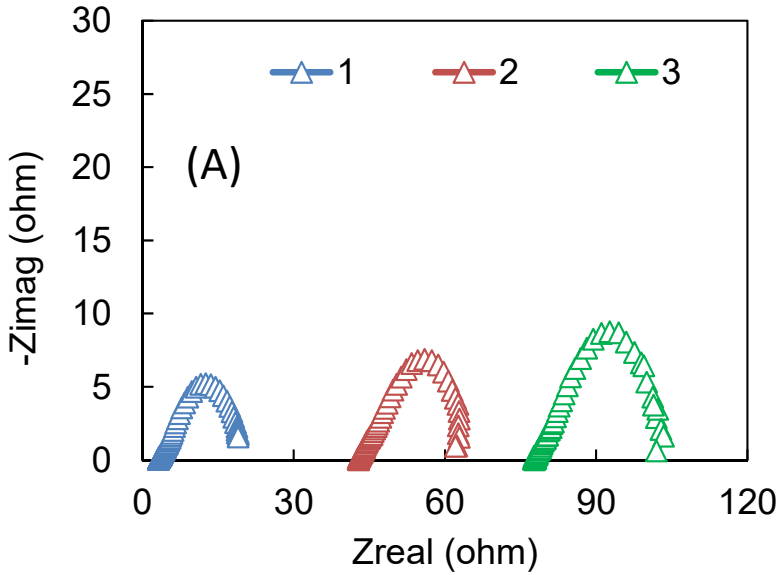
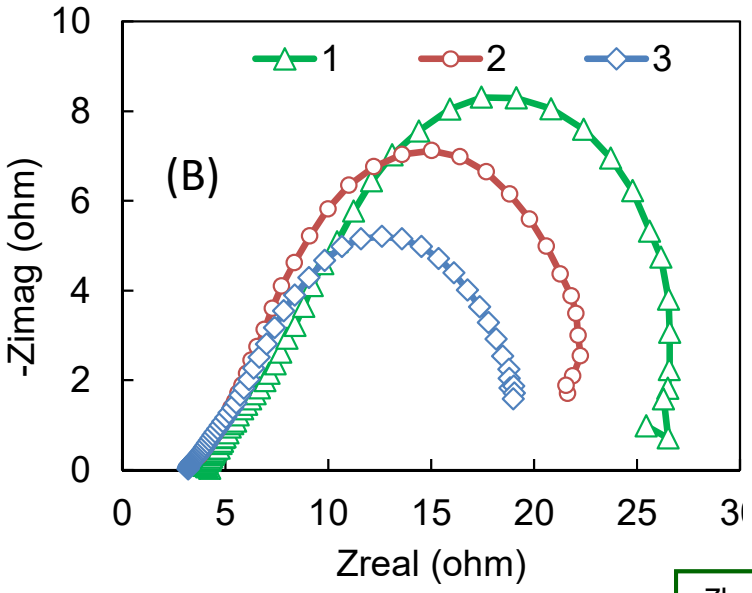
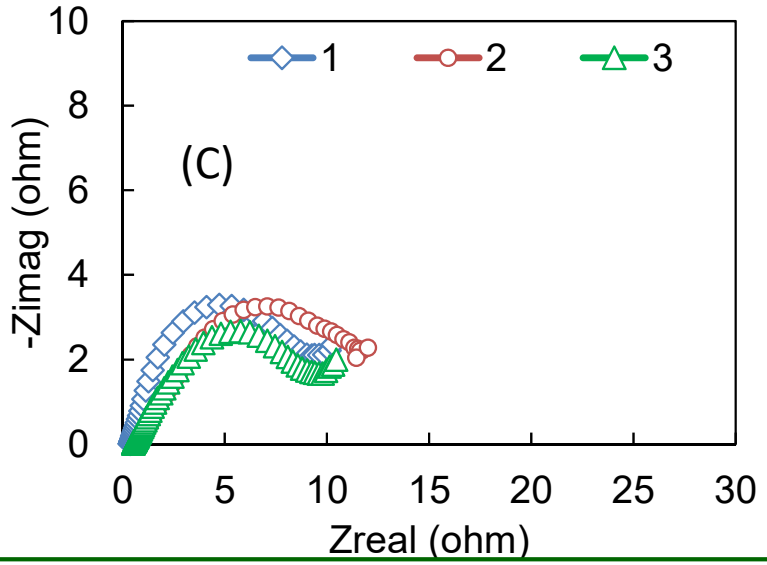
Quiz #6: How does EIS spectra change when RE is moved away from the WE for the SEA configuration?









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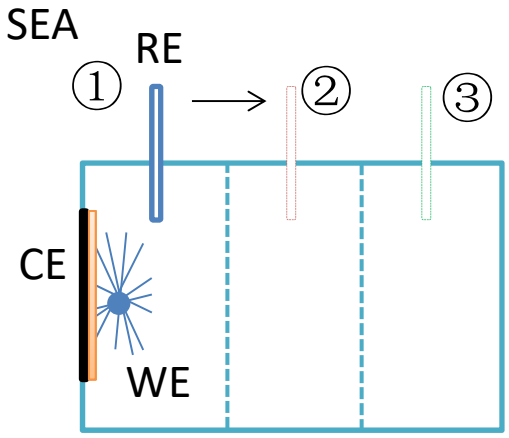
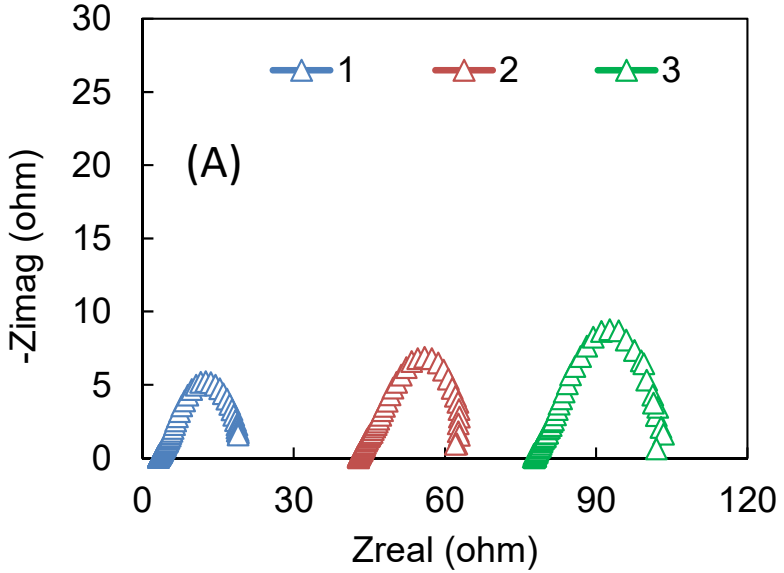
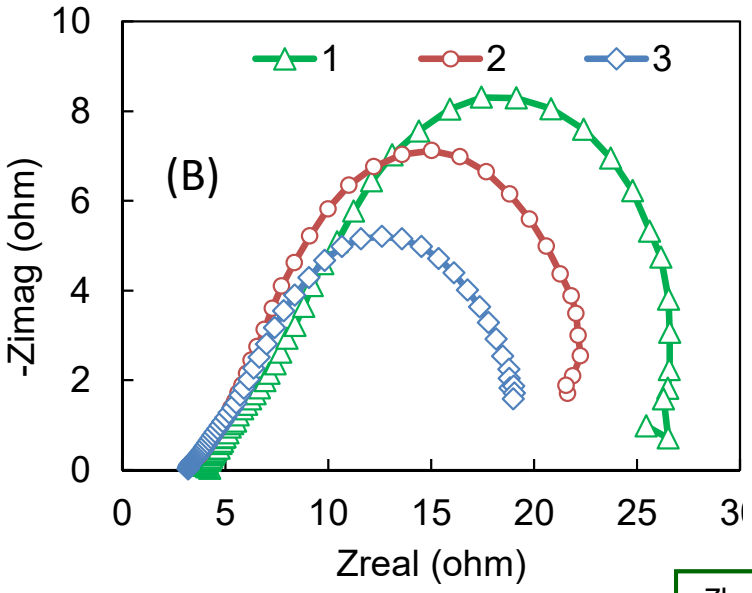
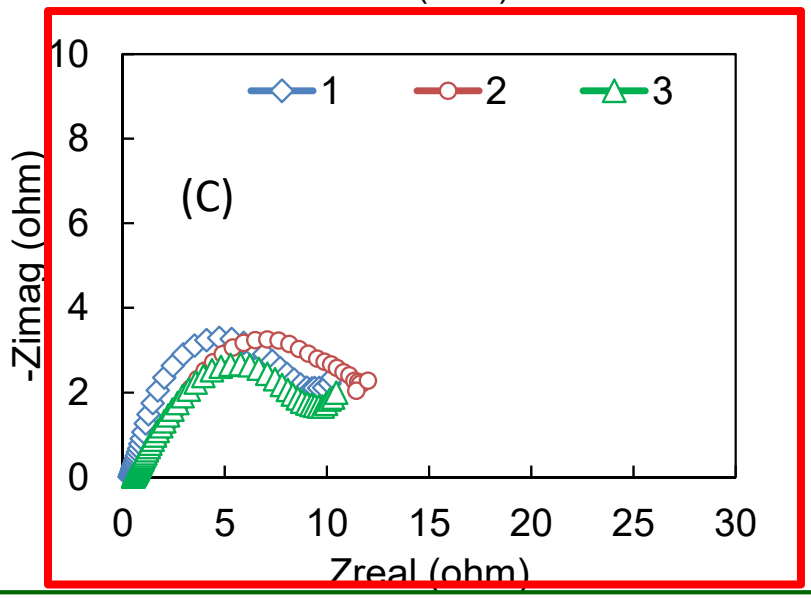
Electrochemistry #6: No impact now as RE is outside the current path; No solution resistance or separator resistance









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