Ensaios con CF4 (P, M)
Sobre depósitos de Ti

CF4-M

É capaz de disgregar o depósito de Ti

CF4-P

Non é soluble, forma suspensión

Medio electrolítico:
1 mM Ferrocenemetanol
1 M KCl en H2O
Con/sen adición de CF4-X
(Disolución MeOH diluída 10 veces)

Cela electrolise:
-3 electrodos:
referencia Ag/AgCl
contra electrodo fío de Pt
-Potenciais respecto Ag/AgCl
-Rango potenciais: -0.2 a +0.4V
-Velocidade: 100 mV/s
-Superficie 1cm^2 aprox

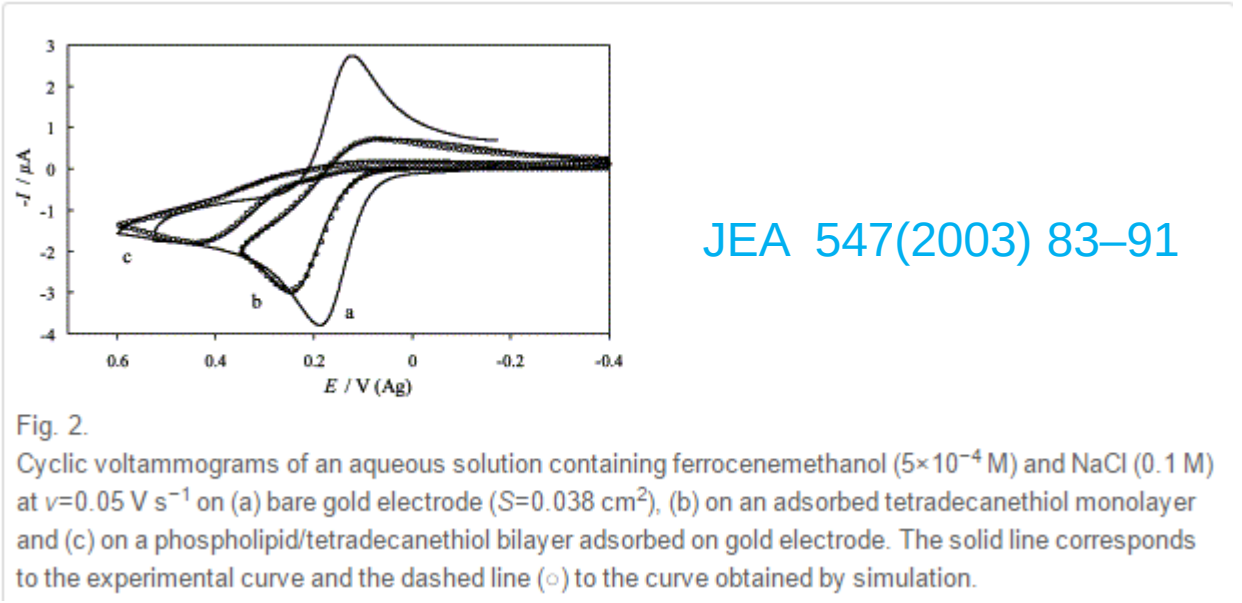

Fig. 2.
Cyclic voltammograms of an aqueous solution containing ferrocenemethanol (5×10^{-4} M) and NaCl (0.1 M) at v=0.05 V s^{-1} on (a) bare gold electrode (S=0.038 cm^2), (b) on an adsorbed tetradecanethiol monolayer and (c) on a phospholipid/tetradecanethiol bilayer adsorbed on gold electrode. The solid line corresponds to the experimental curve and the dashed line (○) to the curve obtained by simulation.

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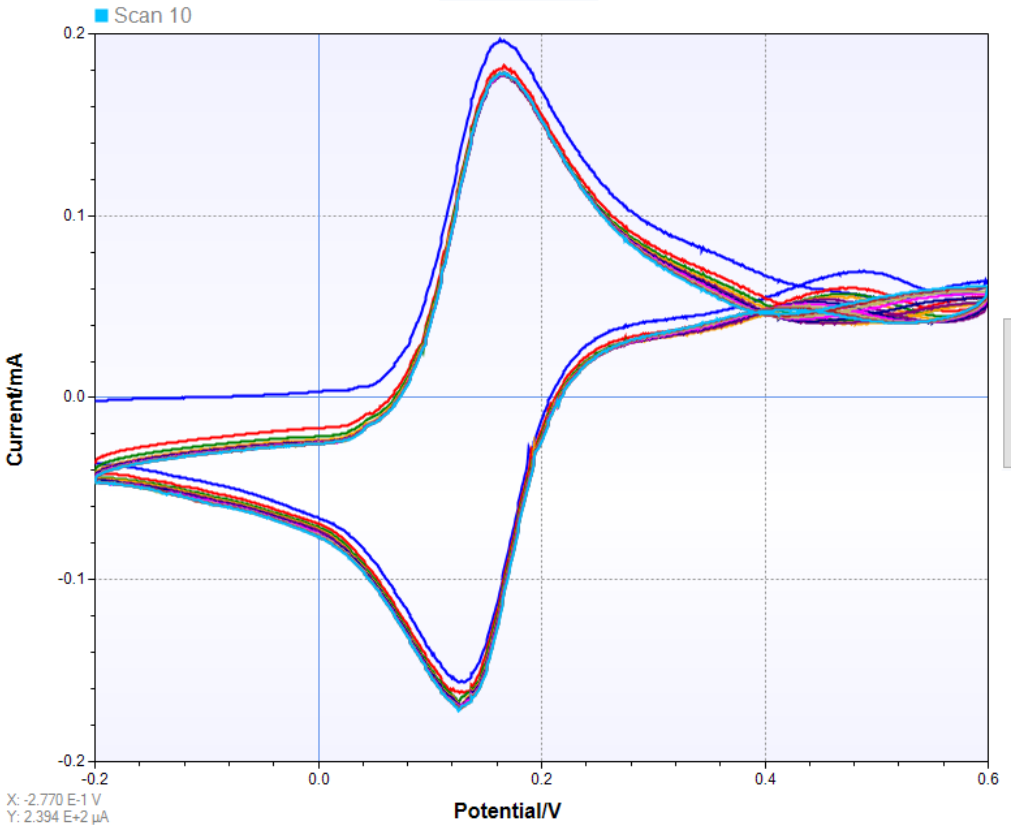
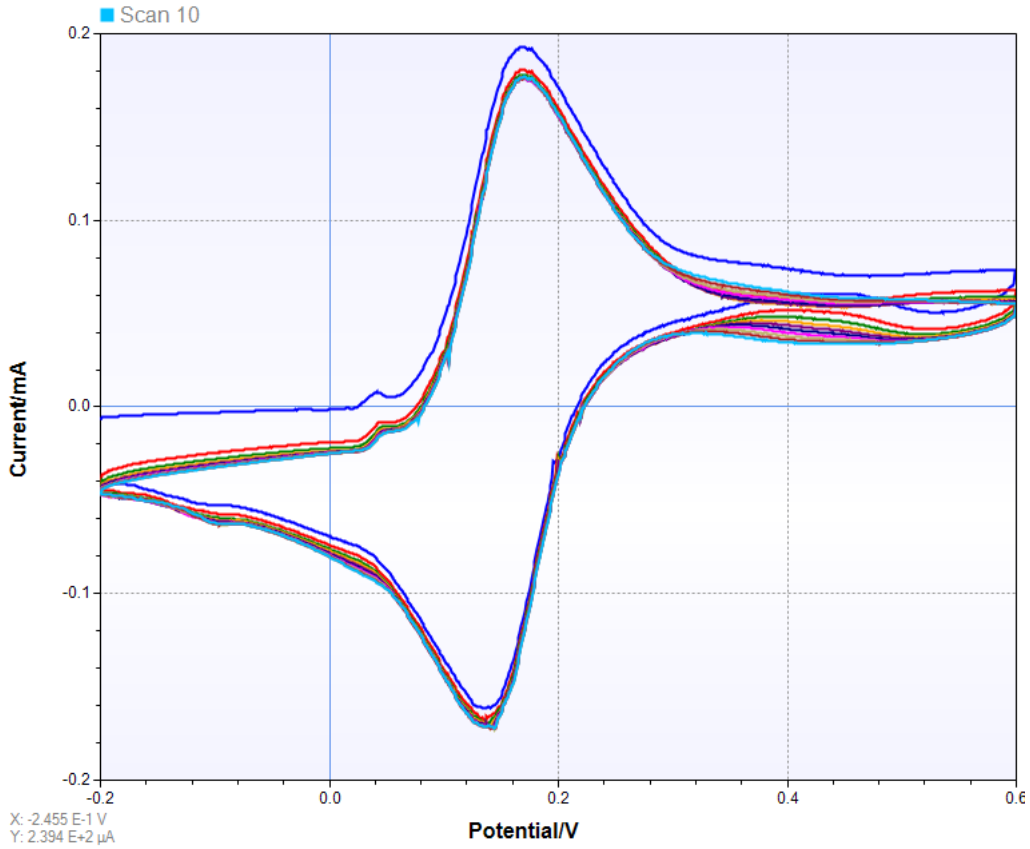




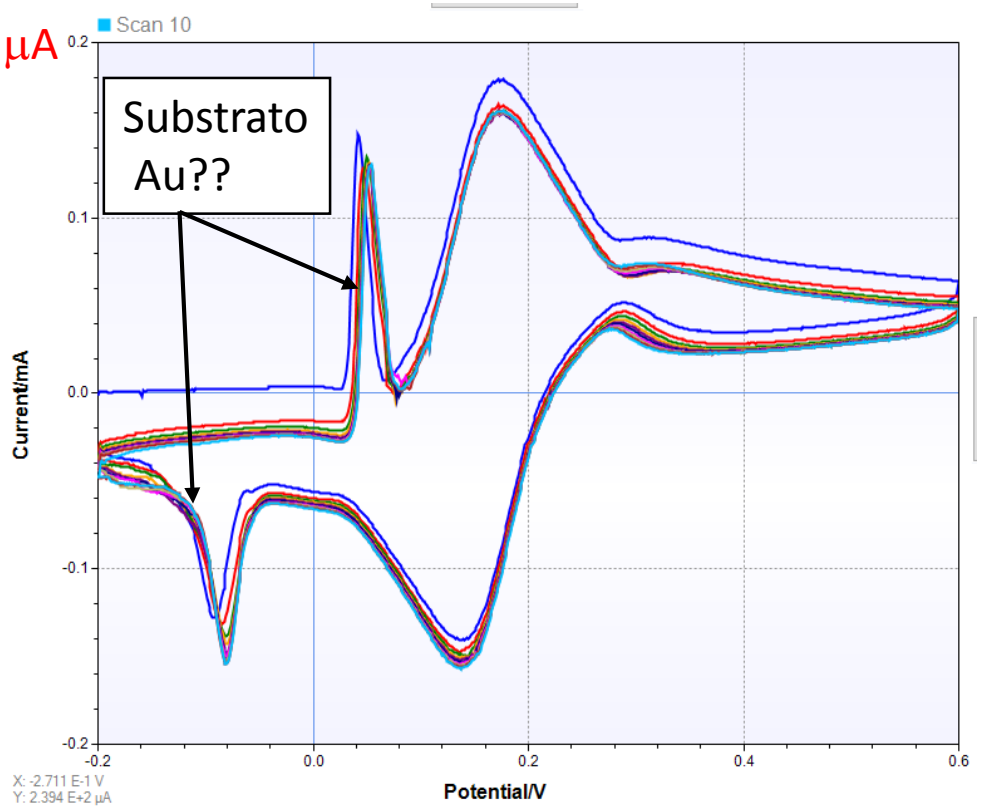
FerroceneMet-Sobre Ti
(C62 de Stefano)

Adición de CF4-P

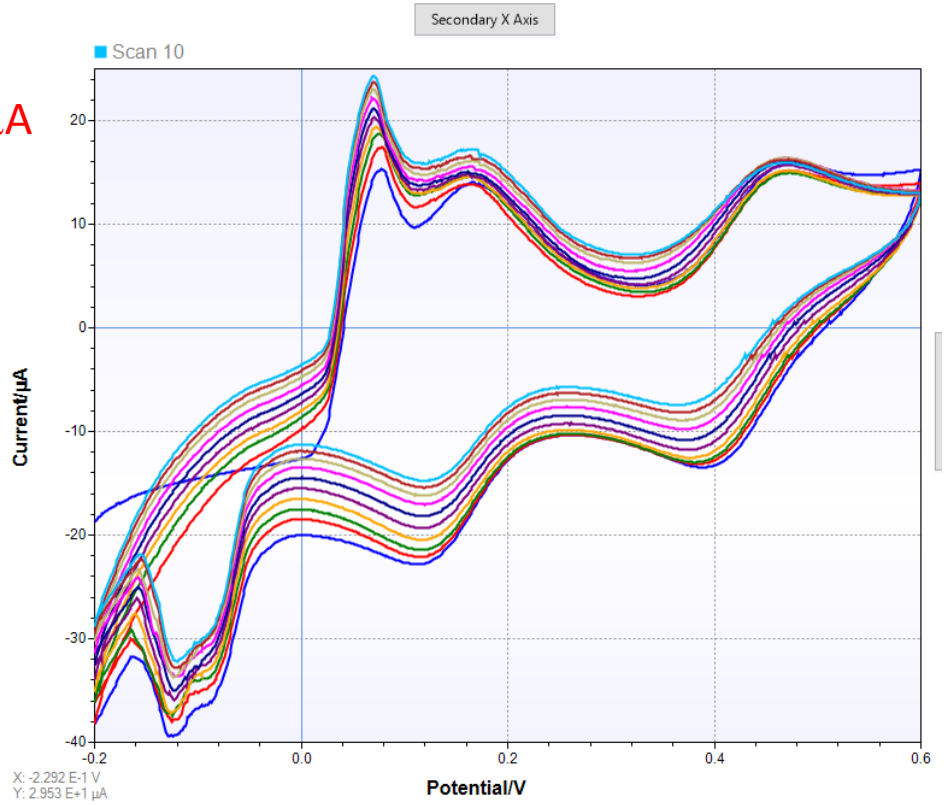
Disolución turbia, non hai cambio no voltamograma

Probablemente se formen micelas, co que non queda composto libre para adherirse

200 µA



20 µA



FerroceneMet-Sobre Ti
(C57 de Stefano)

Adición de **CF4-M**

A corrente redúcese en 10 veces!!⇨evidencia de bloqueo da superficie
Bloqueo forte da superficie compatible coa disgregación do metal observada