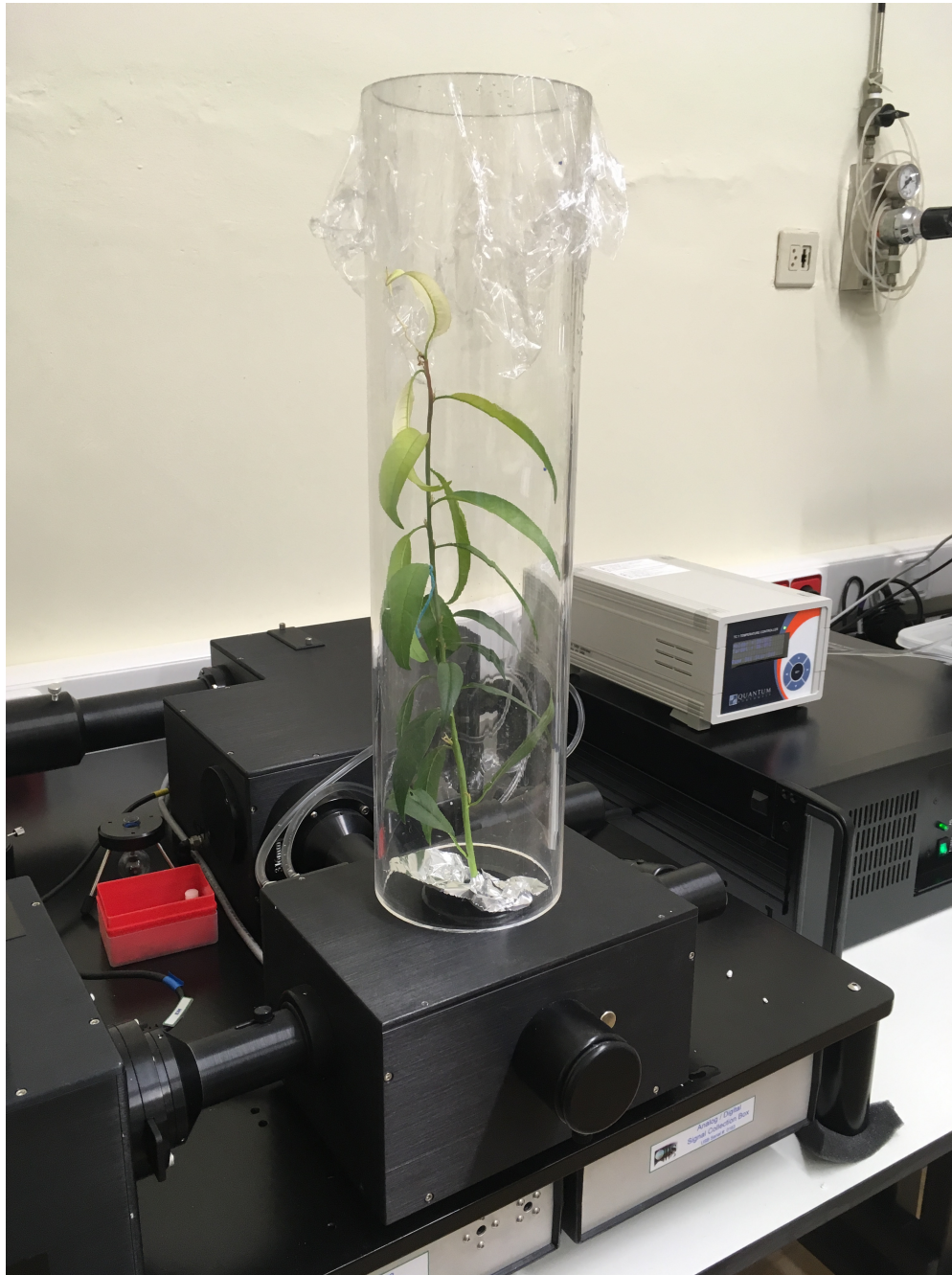


Reduction of Fe(III)-EDTA by an intact Prunus root inserted in the DSPC 8 mL



Whole Prunus plant

Intact root inserted in DSPC 8 mL

300 μ M BPDS, 500 μ M
Fe(III)-EDTA (6 mL)

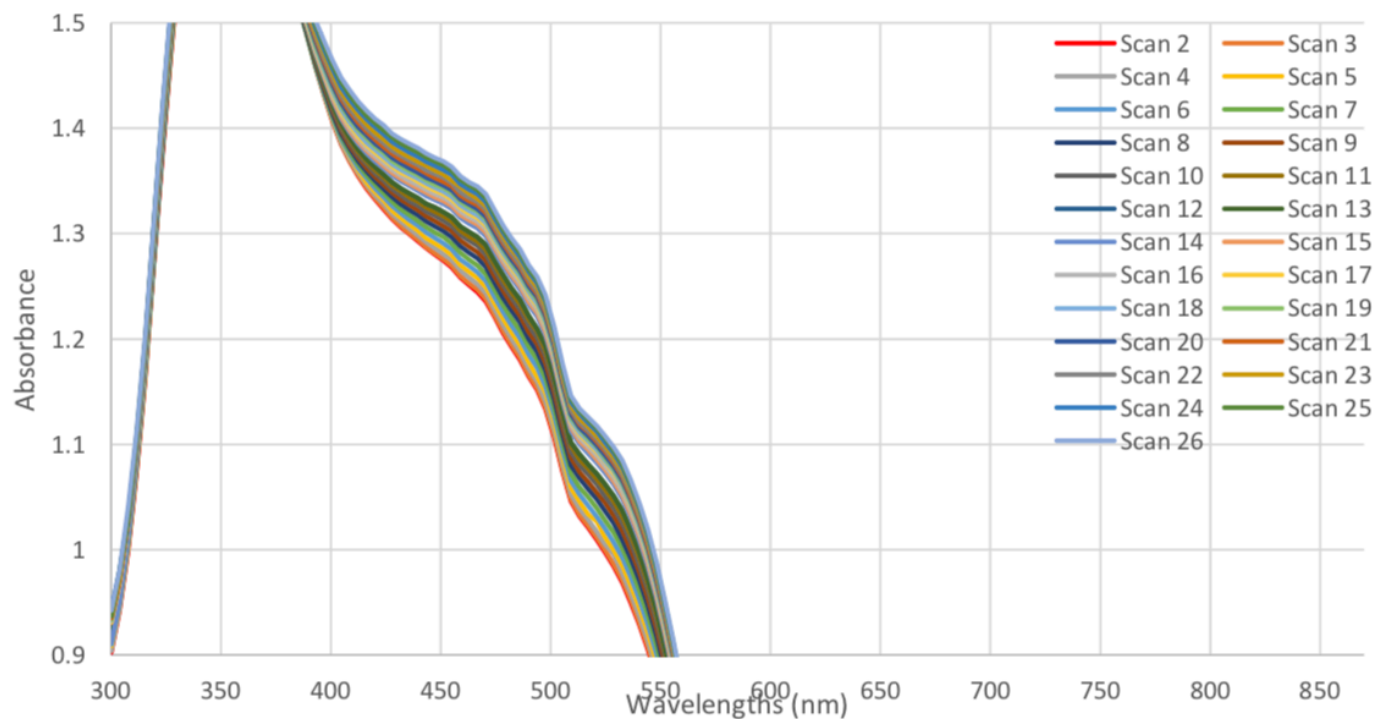
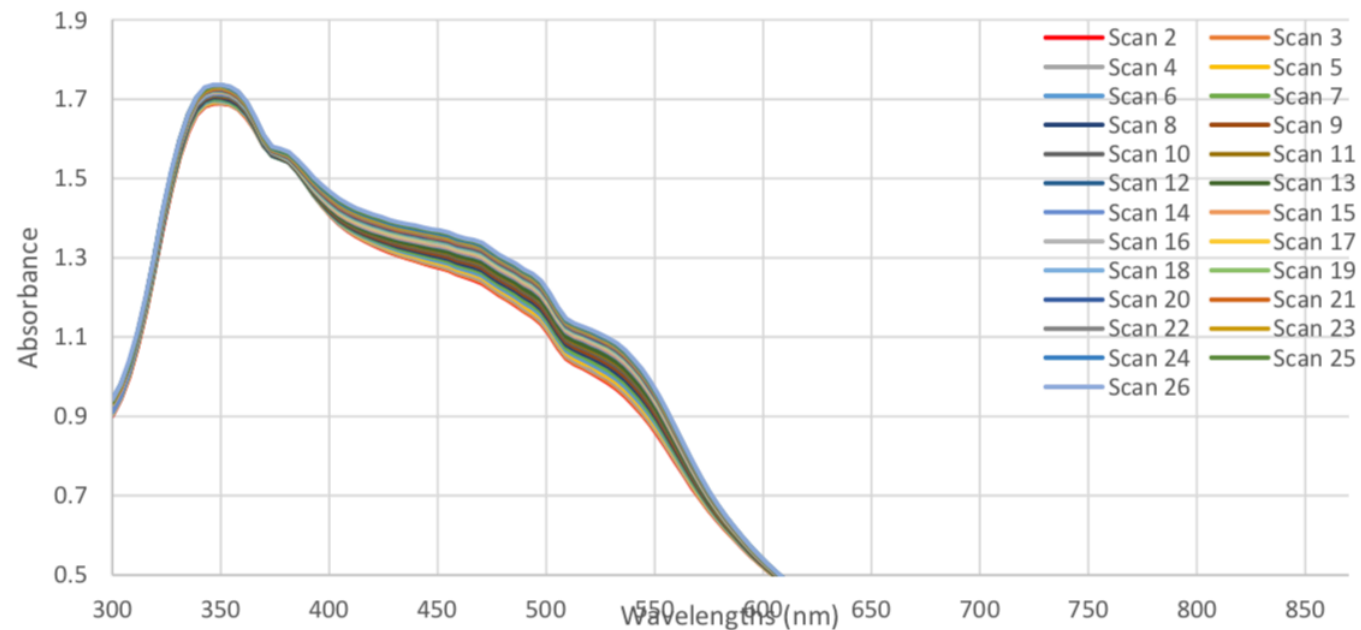
Initial spectrum (time 0)
spectra every 5 min

last spectrum 135 min

slits 3.16

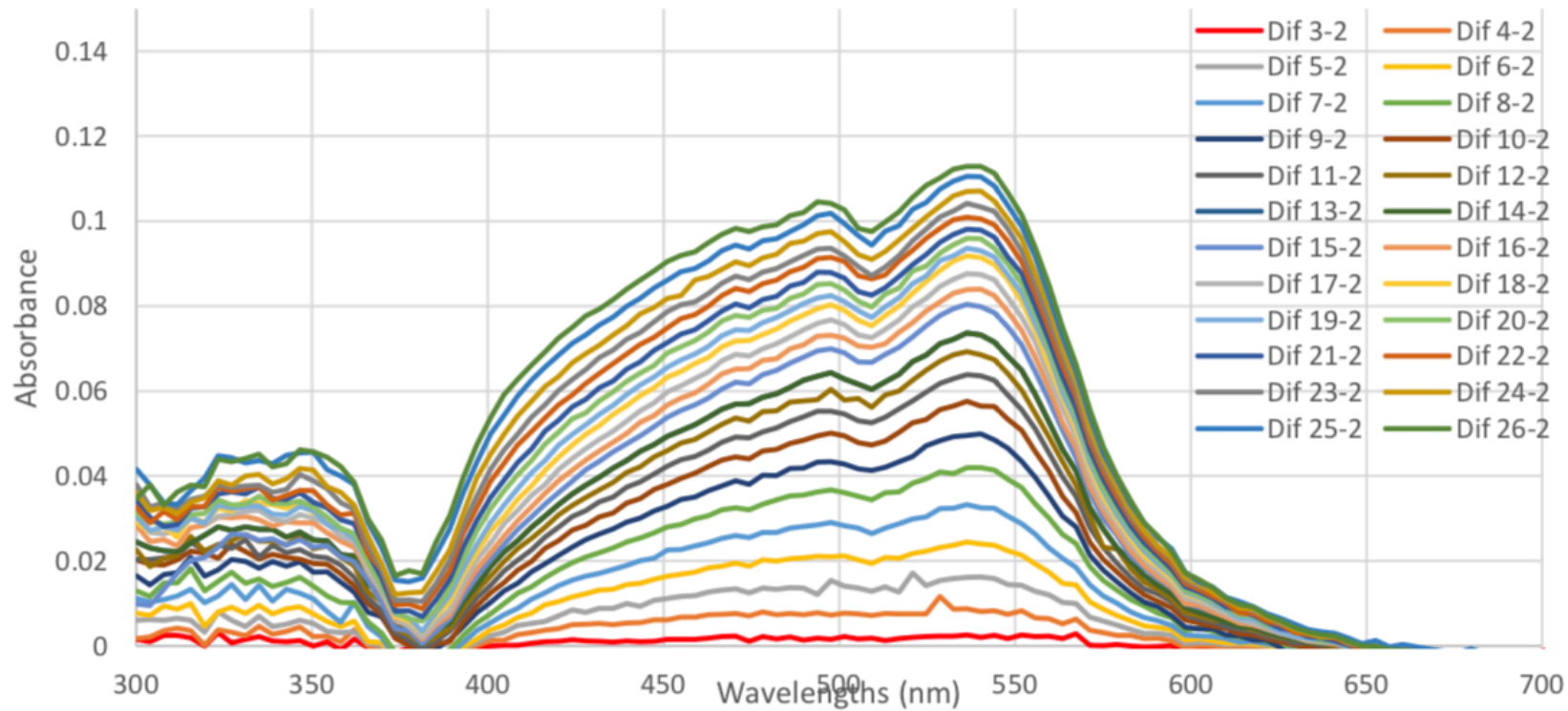
int time 0.5 s

Raw spectra (every 5 min)

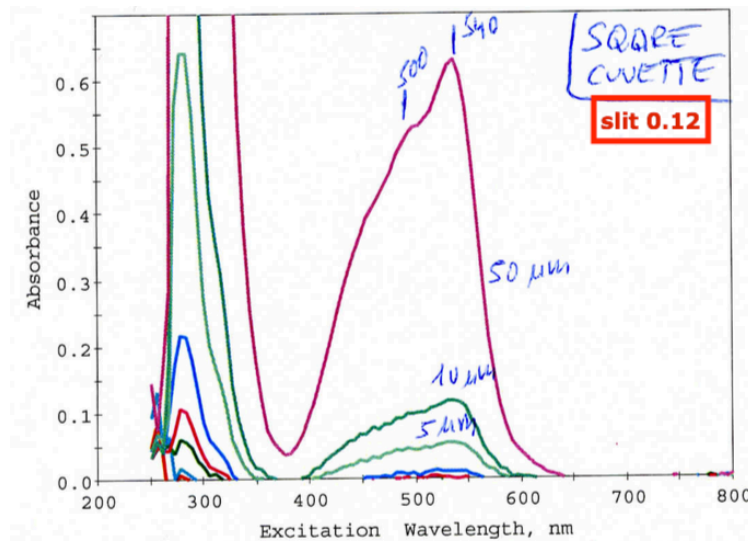


(blow-up)

Fe(III) is reduced progressively to Fe(II) by the ferric chelate reductase (FCR) of the plant root plasma membrane, and Fe(II)-BPDS is formed



Difference spectra (using time 0 as reference)



spectra of Fe(II)-BPDS complex in square cuvette