

Supplementary information

Investigation of Post-Treatment Improving Perovskite Solar Cells Initial Performances and Study of Its Impact on the Durability

Lara Perrin^{*1}, Lionel Flandin¹, Cynthia Farha¹, Stéphanie Narbey², David Martineau², Emilie Planès¹

¹ University Grenoble Alpes, University Savoie Mont Blanc, CNRS, Grenoble INP, LEPMI, 38000 Grenoble, France

² Solaronix S.A., Rue de l'Ouriette 129, 1170 Aubonne, Switzerland

* Correspondence: lara.perrin@univ-smb.fr

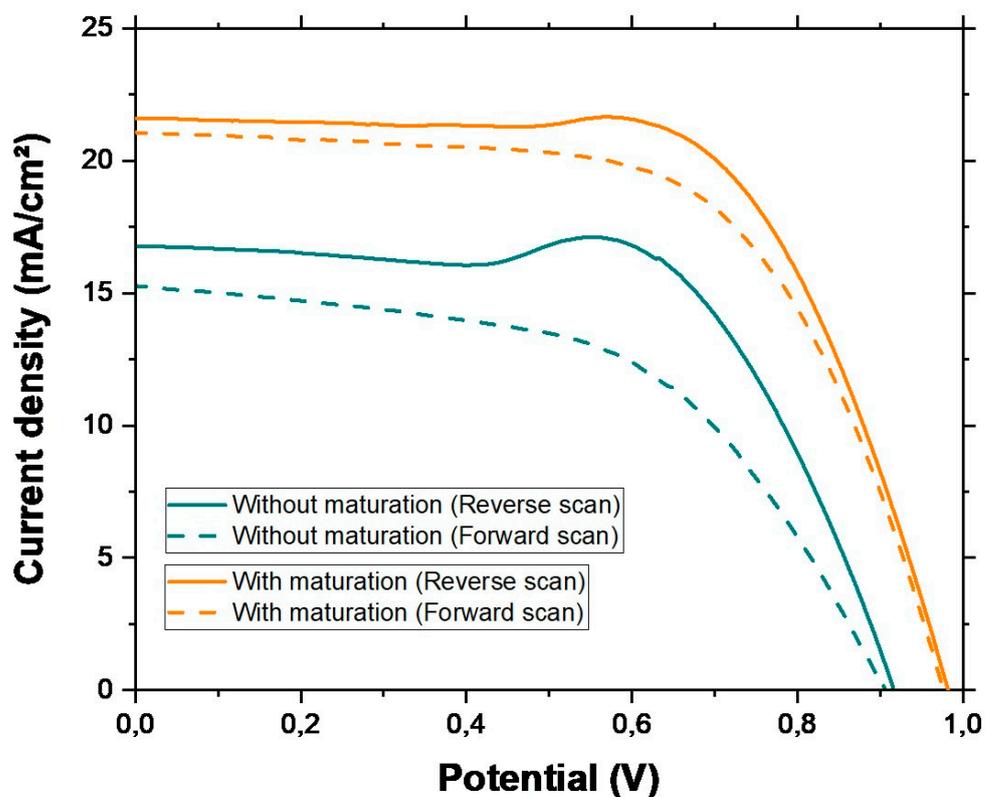


Figure S1. Typical J-V curves (in reverse and forward modes, 4mV/s) obtained before and after the maturation step

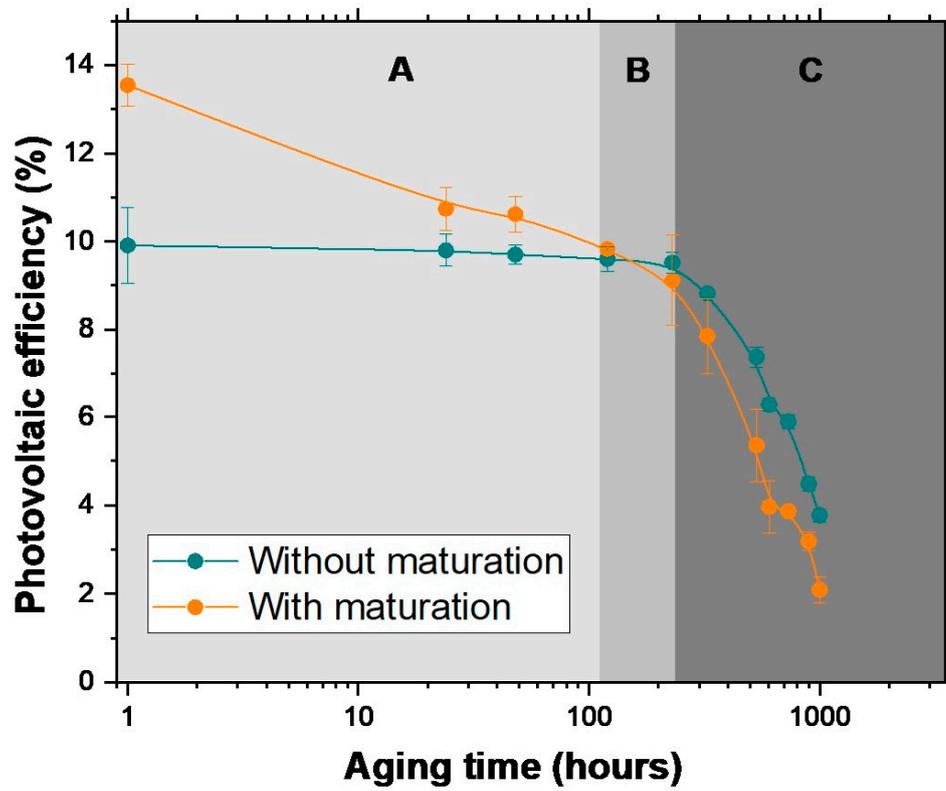


Figure S2. Non-normalized losses in power conversion efficiency (PCE,%) during aging (85°C, 85% RH)

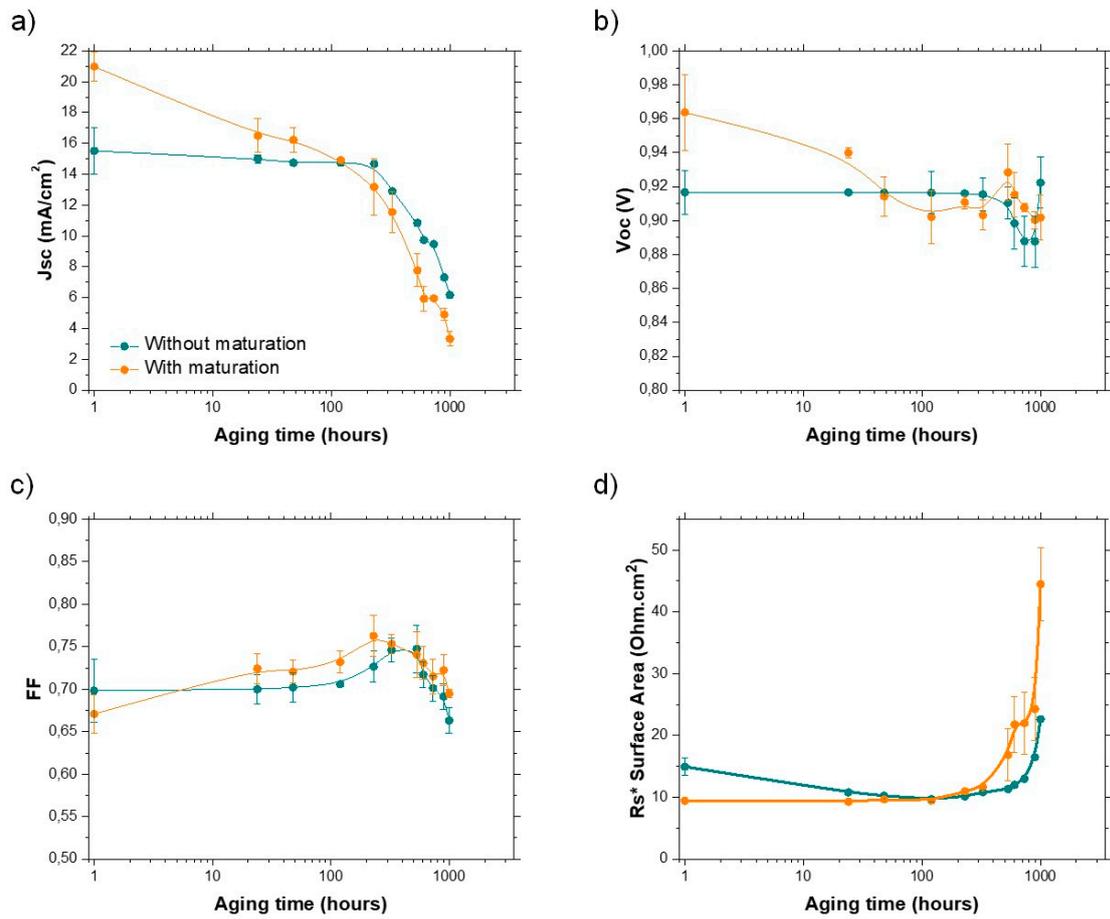


Figure S3. Photovoltaic parameters during aging (85°C, 85% RH): **a)** Jsc, **b)** Voc, **c)** FF and **d)** Rs

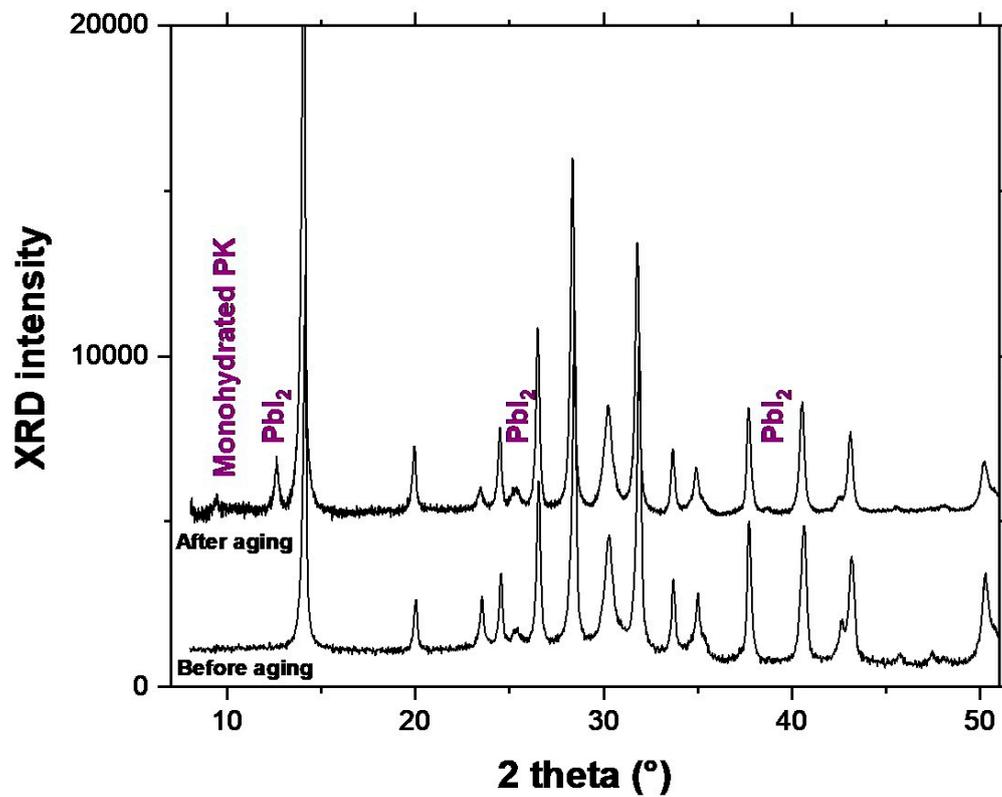


Figure S4. Full XRD diffractograms of perovskite layers before and after aging (example for matured devices), highlight on observed degradation products