Rapid determination of lead isotopes in water by coupling DGT passive samplers and MC-ICP-MS laser ablation

Desaulty Anne-Marie*, Lach Philippe, Perret Sebastien

BRGM, F-45060, Orléans, France

* Corresponding author

Supplementary Material (ESI)

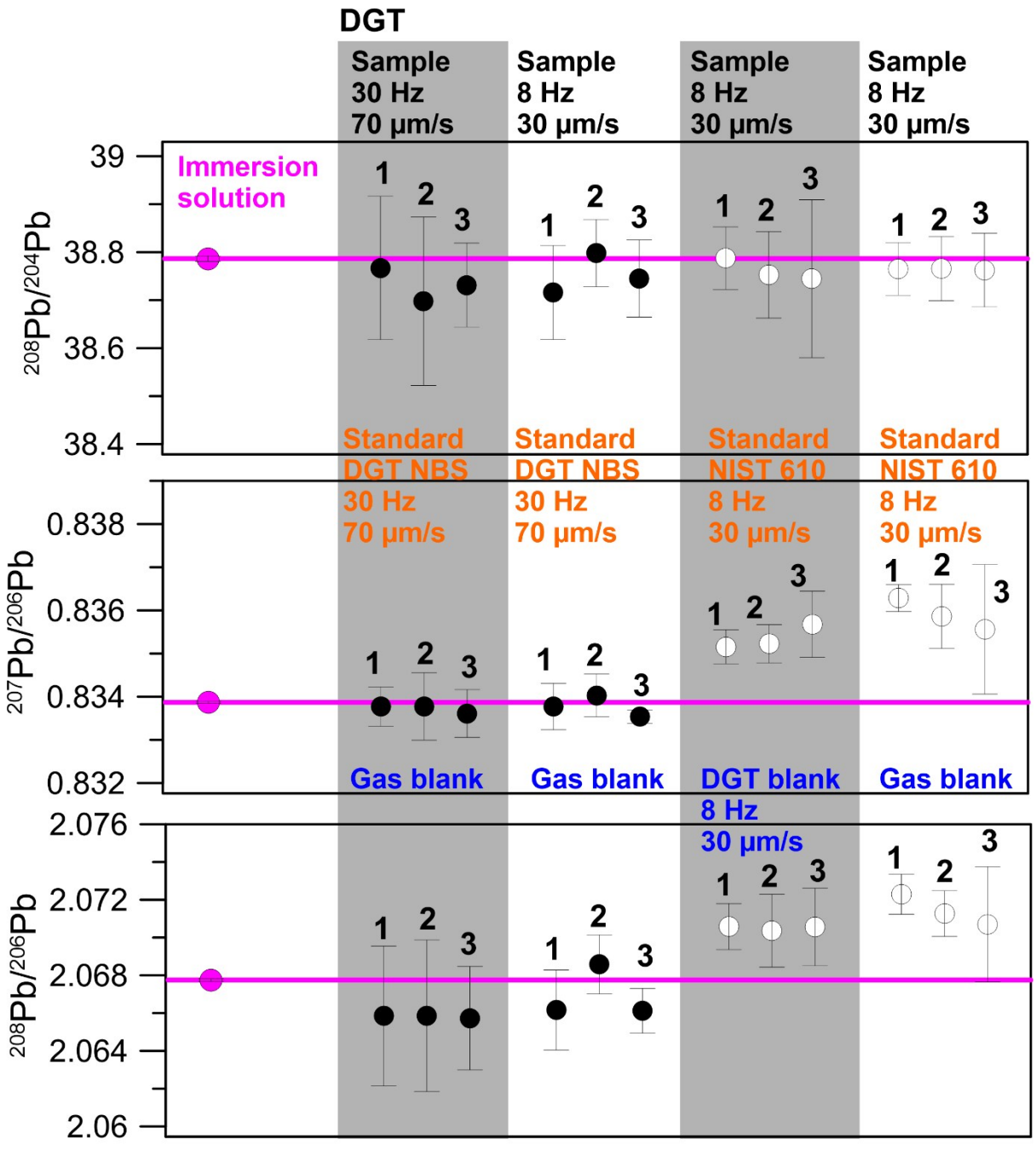
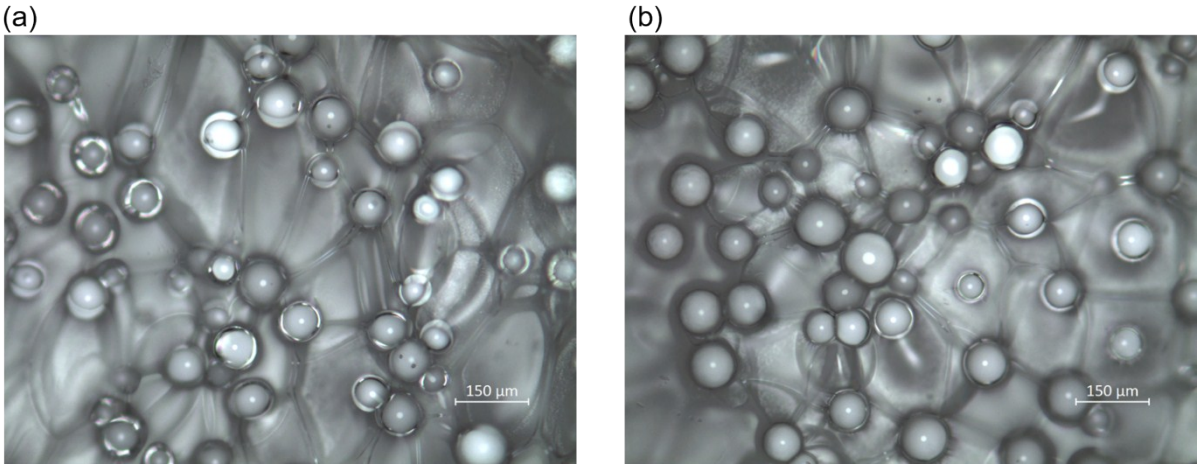


Fig.S1 Pb-isotope data for immersion solution analysed by liquid-MC-ICP-MS (pink dots), and DGT 1, 2 and 3 analysed by LA-MC-ICP-MS, with various laser-ablation parameters and external normalizations (black and white dots).

15



16

17 **Fig.S2** Optical image of: (a) DGT B resin layer and (b) DGT resin layer voluntarily laid on the
18 wrong face; the hydrogel covers the resin beads in both cases.

19

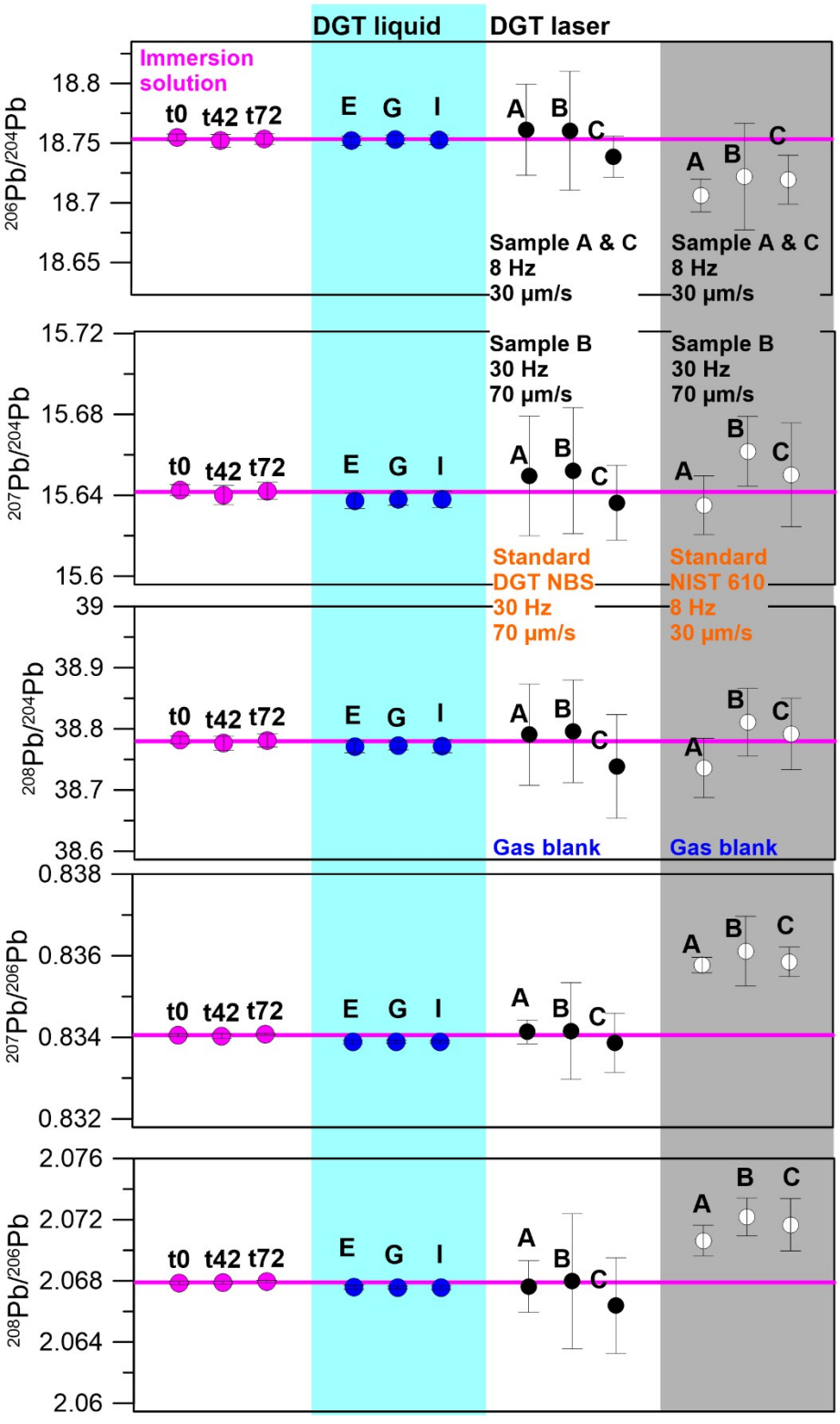


Fig.S3 Pb-isotope data for immersion solutions collected at t=0, 42 and 72 hours and analysed by liquid-MC-ICP-MS (pink dots), DGT E, G and I analysed by liquid-MC-ICP-MS (blue dots), and DGT A, B and C analysed by LA-MC-ICP-MS, with various laser-ablation parameters and external normalizations (black and white dots).