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Supporting information for article:

Identifying and quantifying amorphous and crystalline content in complex powdered samples: application to archaeological carbon blacks

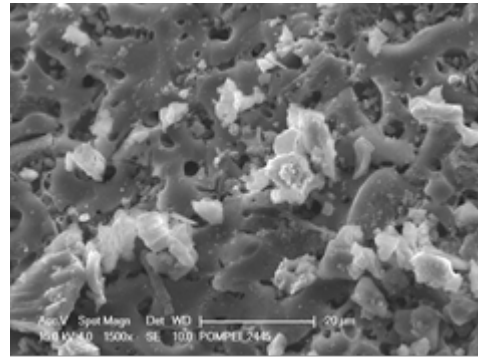
Sophie Cersoy, Pauline Martinetto, Pierre Bordet, Jean Louis Hodeau, Elsa Van Elslande and Philippe Walter

Supporting information

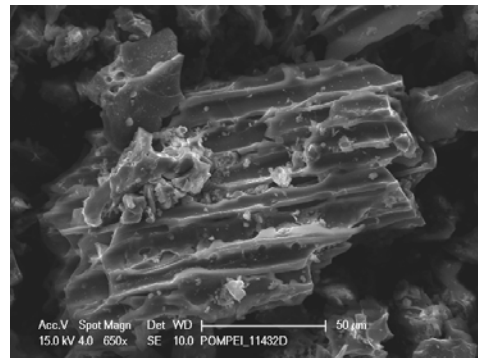
Figure S1 Two types of roman bronze vessels: *theca atramentaria* and *unguentarium* (adapted from Canevali *et al.*, 2011).



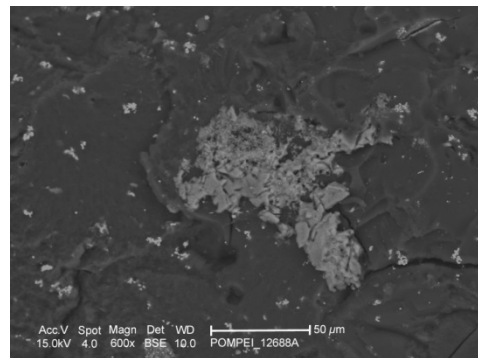
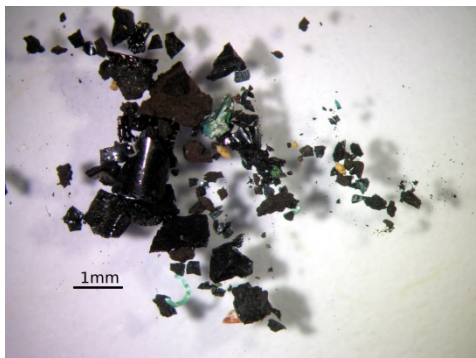
Figure S2 Optical (left) and electronic (right) micrographs of the archaeological samples: (a) 2445; (b) 11432d; (c) 12688a; (d) 12458a and (e) 12724.



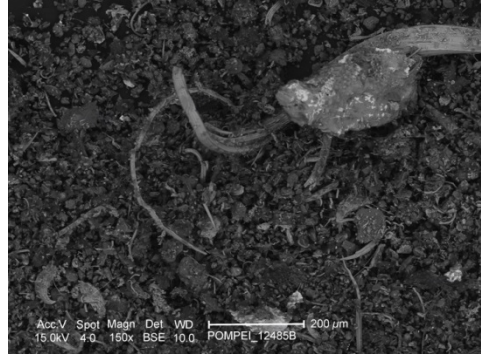
a



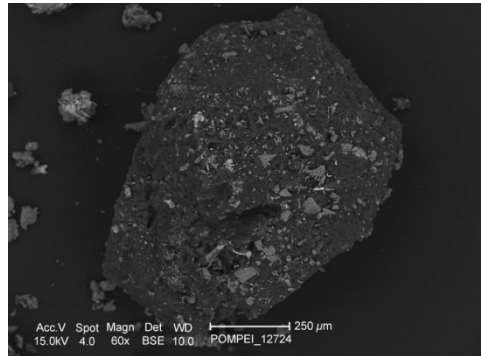
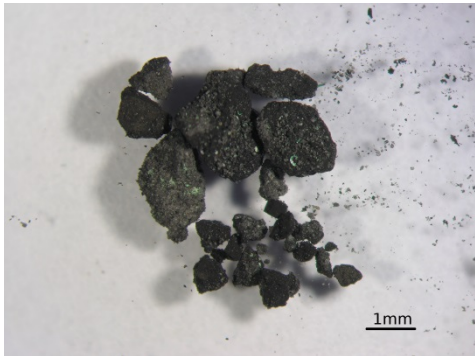
b



c



d



e

Figure S3 Full-pattern matching of a whitlockite-rich diffraction pattern obtained by XRD-CT reverse analysis for sample 2445 (experimental pattern: data points, calculated pattern: red full line, difference: blue full line, $R_B = 0.7\%$, $R_F = 0.7\%$).

