

Article

Supplementary Material: Near-Field Optical Examination of Potassium *n*-Butyl Xanthate/Halcopyrite Flotation Products

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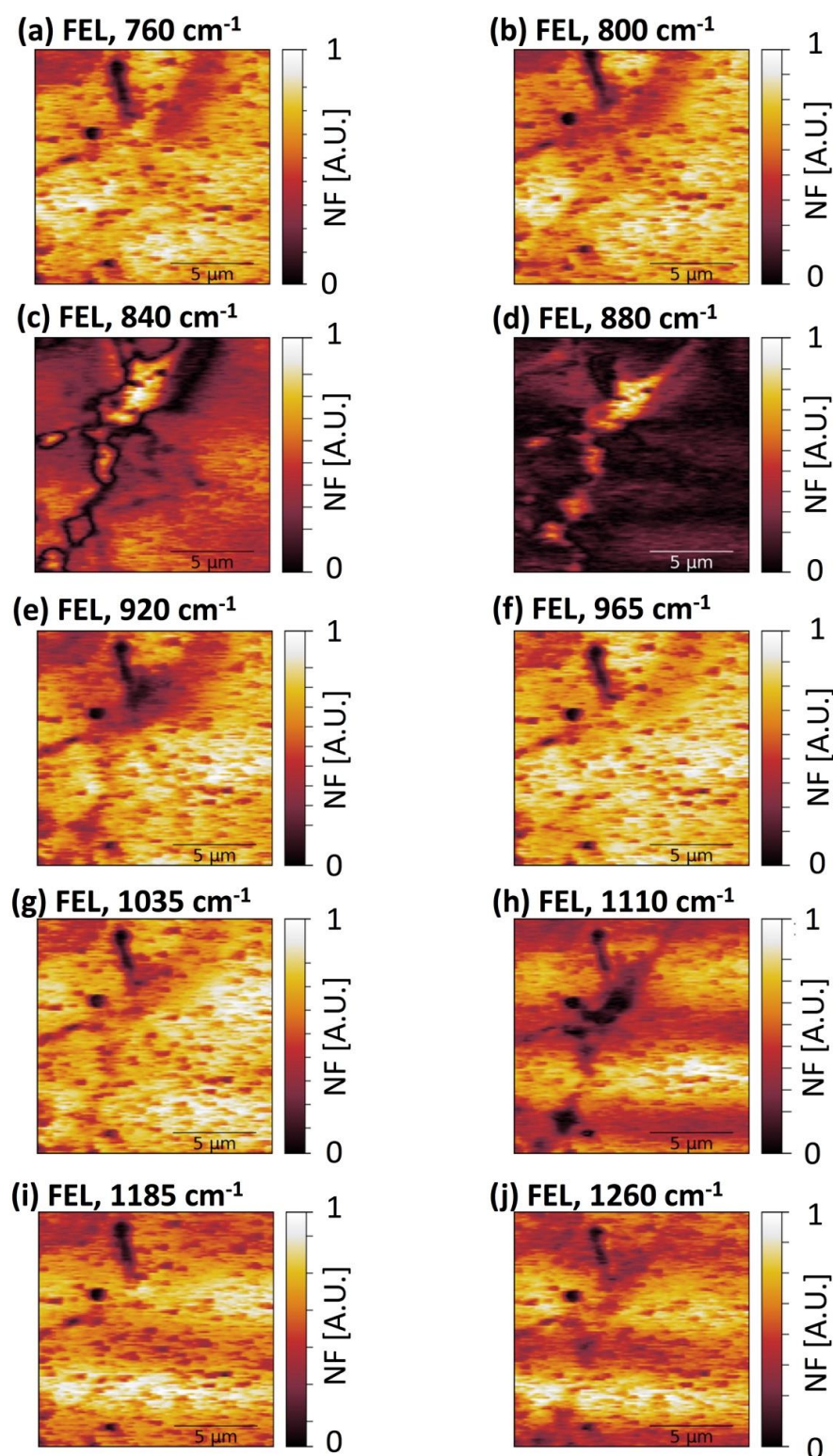


Figure S1. Complementary to the data depicted in Figure 3 of the main manuscript, we present further s-SNIM scans of a CCPX-2a sample examined with the free-electron laser. These scans represent a full set of data for the spectral range examined in this work whereas Figure 3 showed results at selected frequencies only. Specifically, we here display near-field images recorded at FEL frequencies of (a) 760 cm^{-1} , (b) 800 cm^{-1} , (c) 840 cm^{-1} , (d) 880 cm^{-1} , (e) 920 cm^{-1} , (f) 965 cm^{-1} , (g) 1035 cm^{-1} , (h) 1110 cm^{-1} , (i) 1185 cm^{-1} , and (j) 1260 cm^{-1} . No contrast is observed in images (a), (b), (f), (i), and (j), while elongated patches at (c) 840 cm^{-1} , (d) 880 cm^{-1} , (e) 920 cm^{-1} , (g) 1035 cm^{-1} , and (h) 1110 cm^{-1} show an increased/reduced near-field signal, that can be associated with the presence of KBX molecules.