

**Figure S2.** Loadings plot of the model discriminating for the C-source (glucose vs. phenanthrene) based on FT-Raman spectra. Horizontal bold lines in the loading plots represent the macromolecular assignment of the peaks (— proteins, — nucleic acids, — amino acids and — carbohydrates). The sign (-/+) of the bold lines reflect that of the corresponding loading of the PLS-PC1.