

Supporting information

‘Handling different spatial resolutions in image fusion by Multivariate Curve Resolution-Alternating Least Squares for incomplete image multisets’.

S. Piqueras^{1, † (*)}, C. Bedia², C. Beleites³, C. Krafft⁴, J. Popp⁴, M. Maeder⁵, R. Tauler², A. de Juan^{1, (*)}.

1. Chemometrics group. Universitat de Barcelona. Diagonal, 645. 08028 Barcelona. piqueras.sara@gmail.com; anna.dejuan@ub.edu .
2. IDAEA-CSIC. Barcelona.
3. Chemometric Consulting and Chemometrix GmbH, Södeler Weg 19, 61200 Wölfersheim, Germany.
4. Leibniz Institute of Photonic Technologies, Jena (Germany)
5. Dept. Chemistry. The University of Newcastle. Newcastle (Australia)

Corresponding author: anna.dejuan@ub.edu

SUPPLEMENTARY FIGURES

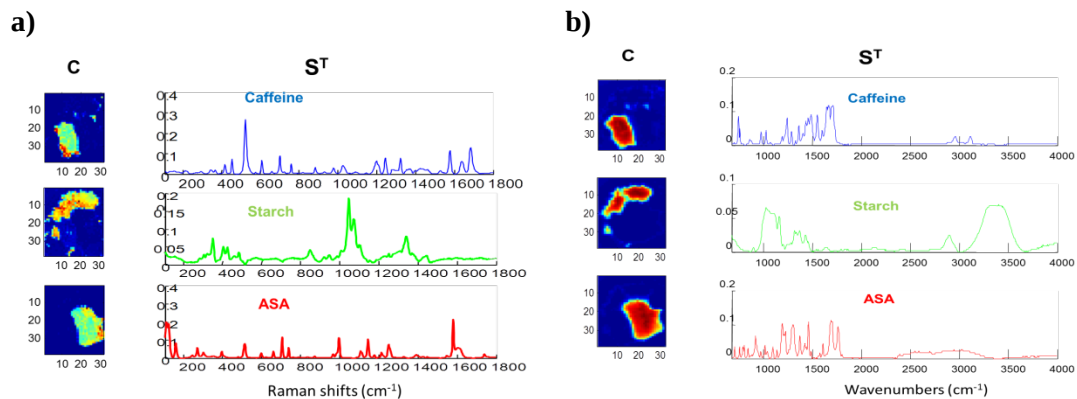


Figure S1. Individual MCR-ALS analysis of pharmaceutical mixture a) Distribution maps and pure spectra of Raman image compounds b) Distributions maps and pure spectra of MIR image compounds.

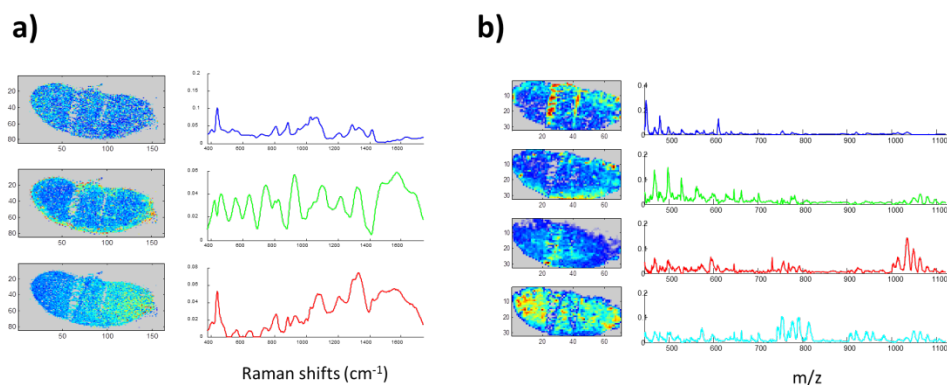


Figure S2. Individual MCR-ALS analysis of bean tissue a) Distribution maps and pure spectra of Raman image compounds b) Distribution maps and pure spectra of IMS image compounds.

Raman/IR multiset (D)

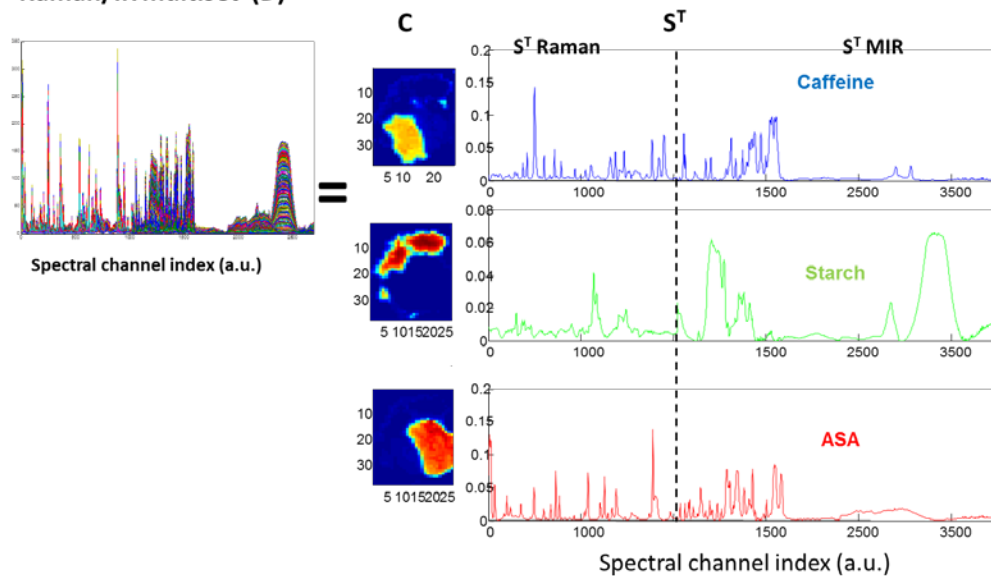


Figure S3. MCR-ALS multitechnique analysis of complete multiset of MIR and Raman pharmaceutical mixtures images.

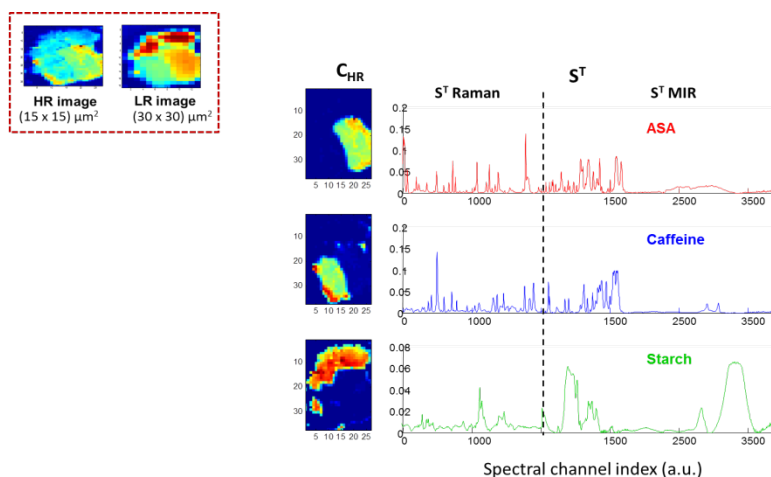


Figure S4. MCR-ALS results of image fusion scenario 1. Top plots: global intensity maps of HR Raman image and LR FT-IR image. Left plots: High spatial distribution maps of image constituents. Right plots: Raman and MIR spectral signatures of image constituents.