

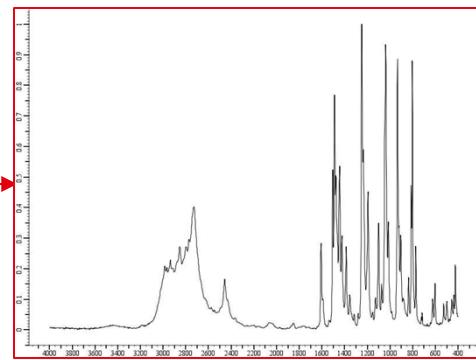
Online documentation: Exercise [~40 min + discuss.]

Inaccurately inspired from Camargo et al. *Forensic Science International* 2012, 223(1-3), 298-305 and Patiny et al. *Data* 2020, 5(4), 116

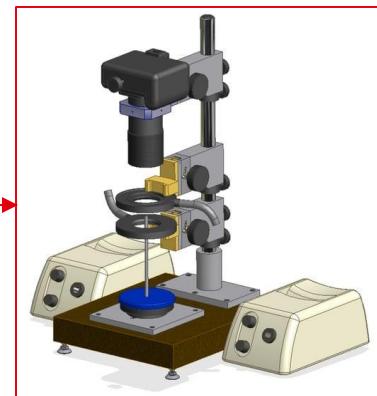
Ecstasy pills



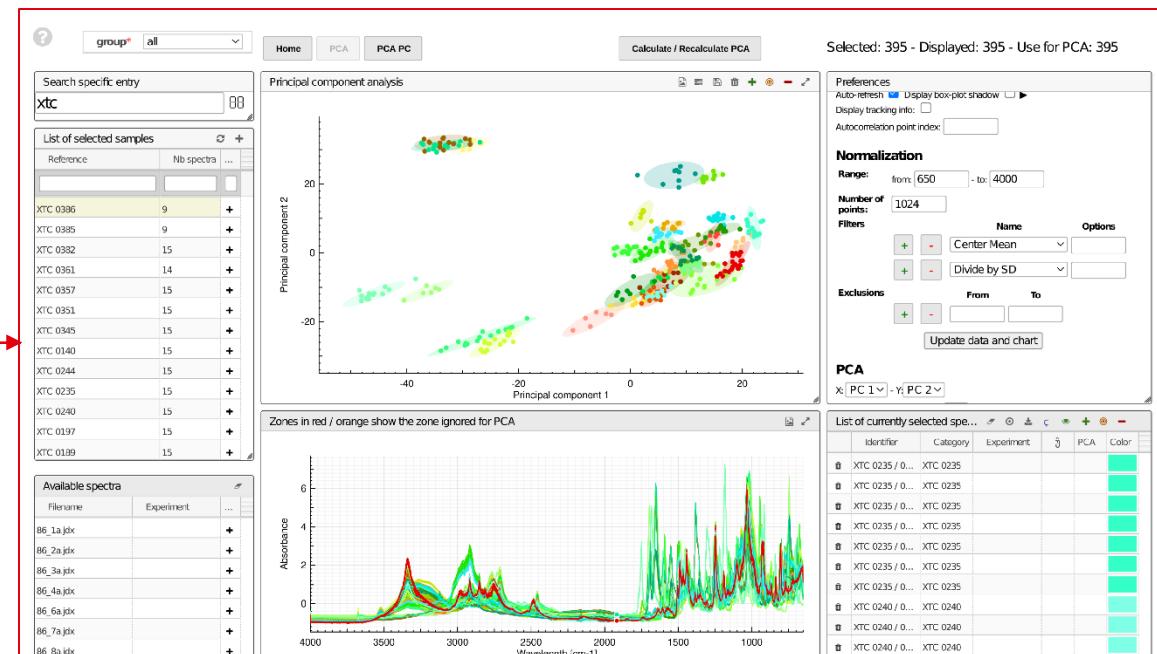
IR spectra



Photographs



Algorithms: Principal Components Analysis (PCA) and *k*-means clustering (KMC)



Families of pills with probable same origin

1. [10'] Familiar with your groups's toolGroup 1: protocols.ioGroup 2: hackmd.ioGroup 3: noto.epfl.chGroup 4: [Chemotion](https://chemotion.net)Group 5 drive.switch.ch

BY GROUPS

Disposable emails:

- mailsac.com
- disposeemail.com
- inboxkitten.com

2. [20'] Write a protocol for the analysis of ecstasy pills

- Focus on reproducibility of data workflow
- From recorded spectra and pictures ...
- ... to data publication.
- Try to include some data-oriented info, for ex. file formats

3. [10'] Evaluate the software you used

- Who is this **specific software** for?
- Which **difficulty** in documenting?
- Which **advantage** in documenting?

go.epfl.ch/online-RDM-doc