

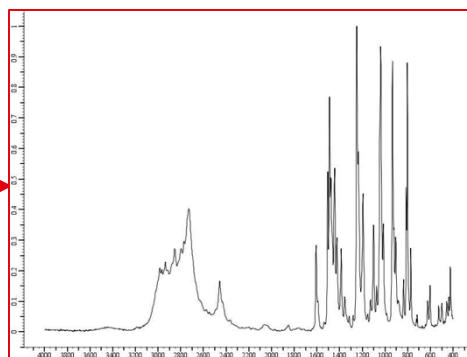
Online documentation: **Exercise** [~40 min + discuss.]

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

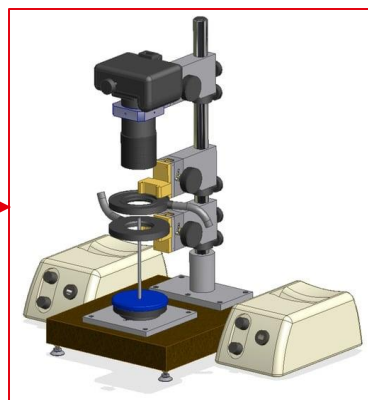
Ecstasy pills



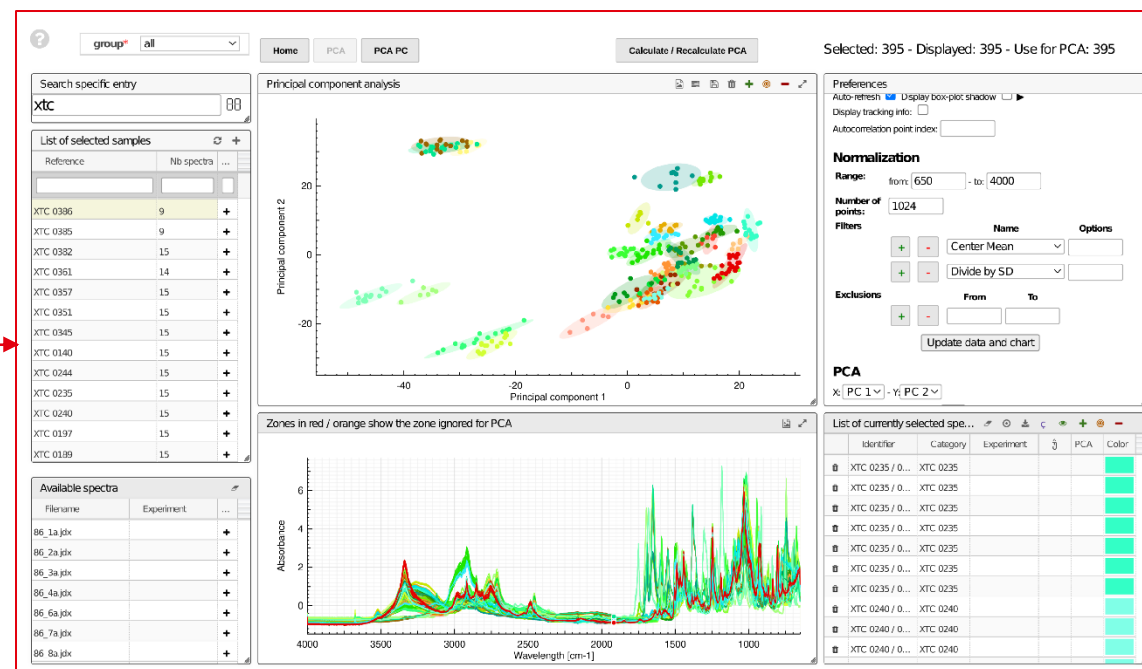
IR spectra



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 tool



Group 1: protocols.io



Group 2: hackmd.io



Group 3: noto.epfl.ch



Group 4: [Chemotion](https://chemotion.com)



Group 5 drive.switch.ch

BY GROUPS

Disposable emails:

- mailsac.com
- disposeamail.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

- a) Who is this **specific software** for?
- b) Which **difficulty** in documenting?
- c) Which **advantage** in documenting?



go.epfl.ch/online-RDM-doc