

# Setting calibration frequency for an IVD

## Challenge



Needed to perform multiple calibration studies for IVD

- A client selling *In Vitro* Diagnostics (IVD) tools had to perform laborious studies to establish the frequency of calibration to be applied on their IVD tools
- Knowing that the required calibration frequency is directly linked to the stability of the reagents used, why not use stability data to predict a calibration frequency that still guarantees performance of the assay?

## Solution



Use of Bayesian methods optimized study process

- Using Bayesian methods, the client's complex process to compute doses from measured signals was simulated, making it possible to evaluate the optimal frequency of calibrations

## Outcome



Time-consuming calibrations are reduced by more than 50%

- All tasks delivered within defined time frame
- The project has been presented in a conference with the customer
- The approach developed in 2015 is nowadays used in routine