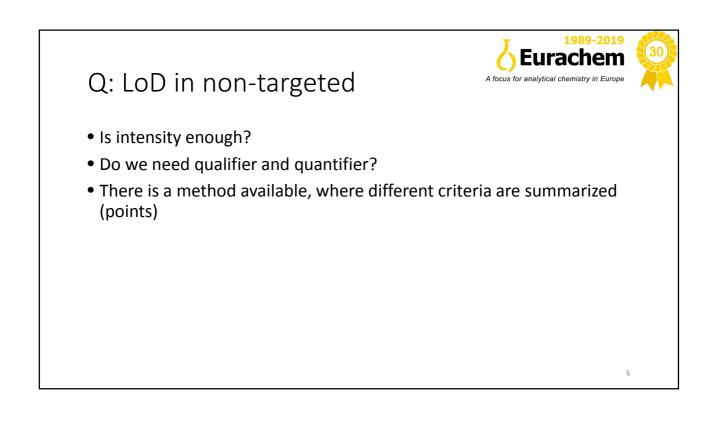


A focus for analytical chemistry in Europ

### Q: is LoD meaningless in nontargeted analysis?

- Relay on comparable data (historical data)
- Maybe we should talk about limit of detection for the identification
- Calculating limits on the intensity level
  - Blank sample it needs to go through the whole process
  - Already procedural samples have a lot of peaks



## Q: what can we learn from qualitative analysis?

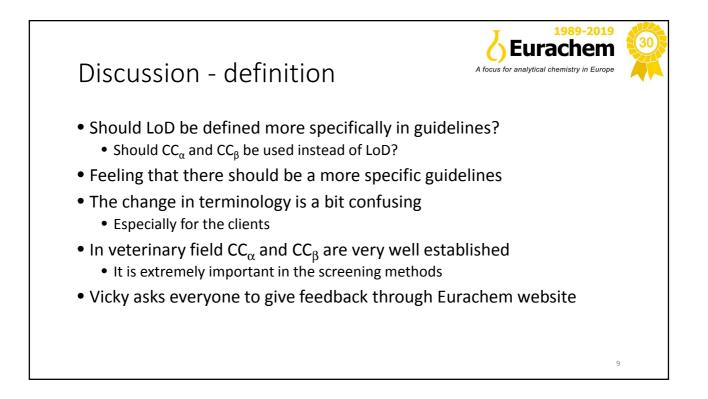
1989-2019 Eurachem A focus for analytical chemistry in Europe

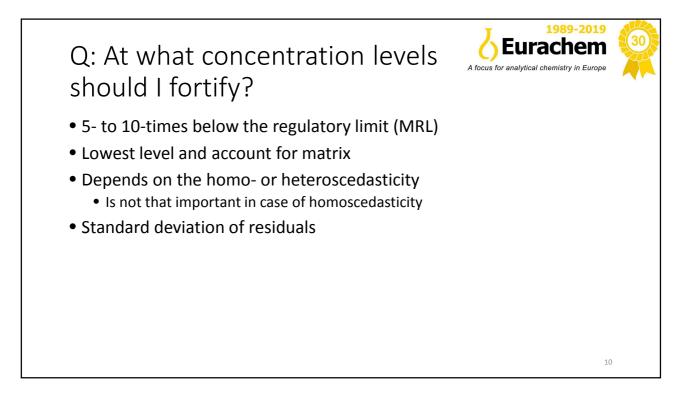
• How close are we to the regulatory limits

#### • LC/HRMS

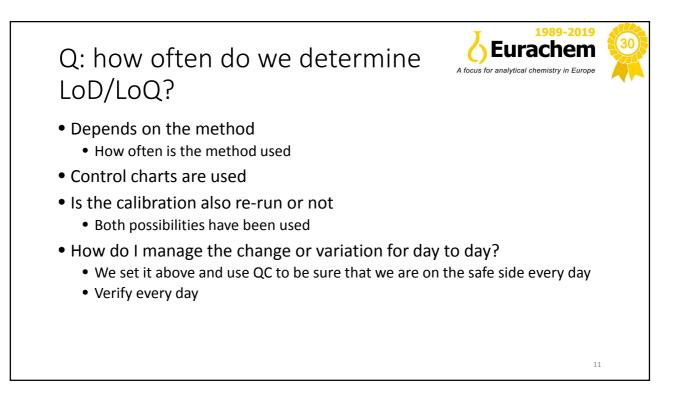
- A lot of compounds we already know
- For these we can establish LoD/LoQ
- Gives indication for other compounds (semi-quantitative)
- Sometimes sufficient starting point for the client/scope
- We need to educate the client as well
- We still need standards to establish the LoD

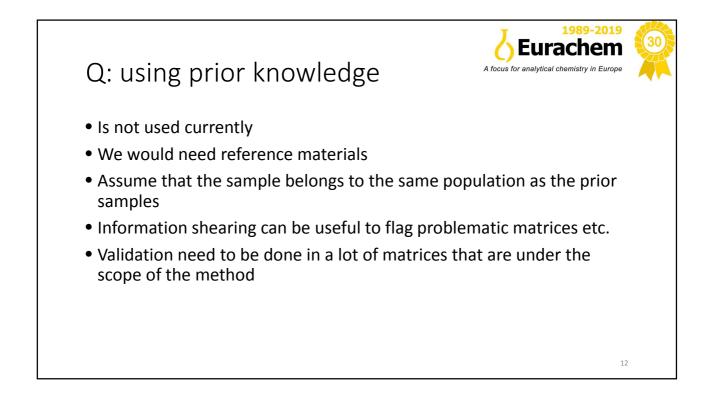
## Q: software limitations? • Sometimes relative intensity values • Orbtrap cuts the background • S/N can not be calculated that • Some instruments set the thresholds





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# Q: LoQ for methods that estimate sum of compounds



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- Problematic
- Reporting the range
- A general discussion on validation of such methods



