Polarography and Voltammetry *electrochemistry*	Model: Unit and Room: Responsible: Further information:	*Metrohm VA 797 Computrace* *Chemie II, Room 035* *Prof. C. Janiak, S. Zuelsdorf* *instrument handbook*

Short Description:

Qualitative and quantitative analysis of redox active compounds by current-voltage measurements in an electrochemical cell

Picture of the Equipment

Available Experiments/Techniques:

Polarography on a renewed dropping mercury electrode (DME) or static mercury drop electrode (SMDE);
Voltammetry on a hanging mercury drop electrode (HMDE) or a glassy carbon electrode (CGE);
manual sample injection;
quantification by standard addition

Special Equipment:

Metrohm (mercury) multi-mode electrode, glassy carbon electrode

Measurements on the equipment are currently done by:	☐ Students ☒ Students after Introduction ☐ Students after extensive training ☐ Trained scientific service personal
Recent Publications, where this instrument was important (optional): Give citation	
Typical problems that may be solved with this instrument:	*vitamin C in food samples; trace metal cations (e.g. Ni, Cu, Zn, Pb, Cd, U) in beverages; Fe(II)/(III) species analysis*