Aquatic Chemistry Laboratory

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- **Staff:**

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- **Research activities**
  - development of innovative methods for the analysis of micro-pollutants in environmental samples
  - environmental monitoring and fate of organic micro-pollutants in the environment.

- **Lab infrastructure**

  **Sample preparation**
  - Liquid-Phase Microextraction (LPME)
  - Liquid-Phase Microextraction assisted by Vortex (VALLME)
  - Solid Phase Microextraction (SPME)
  - Vaccum Solid Phase Microextraction in headspace (Vac-HSSPME)
  - Solid Phase extraction (SPE)

  **Separation and Analysis (instruments)**
  - Gas Chromatograph with Mass Ion Trap Detector (GC-MS-IT) (Varian 450-GC, Varian 240-MS)
  - Gas Chromatograph with Mass Detector (GC-MS) (Shimadzu, GC-17A, GCMS-QP5050A)
  - Gas Chromatograph with Electron capture detector and flame ionization detector (GC-ECD-FID) (Shimadzu, GC-17A)
  - Liquid Chromatograph with Photodiode array detector and mass detector (LC- DAD-MS) (Agilent 1200 Series)
  - High Performance Liquid Chromatograph with photodiode array detector and Fluorescence Detector (HPLC- DAD-FD) (Shimadzu Corporation)
  - Solar Radiation Simulator (Suntest CPS+) (ATLAS MTT GmbH)

- **Research projects**
  - Heraklitos II
  - Water sample analysis for determining total phenols and certain polyphenols in network stations of rivers in Messinia
  - MINOTAURUS - Microorganism and enzyme Immobilization: Novel Techniques and Approaches for Upgraded Remediation of Underground-wastewater and Soil