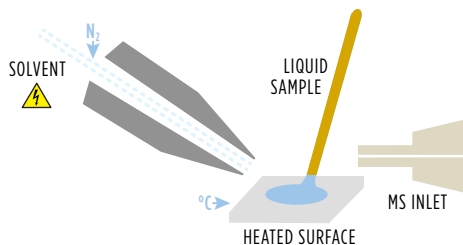


FIELDS OF APPLICATION

- Environmental pollutant monitoring
- Environmental remediation
- Forensics
- Health care and diagnostics (liquid-phase biological samples)
- Homeland security
- Large-scale chemical process and batch monitoring
- Online or flow chemical synthesis monitoring
- Water quality monitoring and water treatment



DELTA for ambient MS

DIRECT EXAMINATION OF LIQUIDS WITH THERMAL ASSISTANCE

This new device remedies the inefficiency of direct, liquid-phase, or solvent-borne chemical analysis via ambient mass spectrometric (MS) ionization methods.

FEATURES

- Allows for rapid, direct, and sensitive analysis of liquids without the need for sample preparation or chromatographic separations.
- Reduces detection limits (an order of magnitude or more) and enhances throughput rate, while allowing direct, dynamic detection of the infused analytes without carryover.
- Obtains mid- to low-parts-per-trillion detection limits for common environmental contaminants, even in the presence of matrices of interest such as tap water.
- Detects target chemicals in two minutes or less, compared with 45 minutes or more for traditional chromatographic methods requiring sample preparation.
- Allows for continuous, long-term monitoring of bulk liquids by matching the incoming flow of the sample with the outgoing generation of analyte ions.
- Can also operate in a "spot and dry" fashion, preconcentrating ultratrace liquid samples to allow detection via ambient mass spectrometry.

FOR MORE INFORMATION

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PUBLICATIONS

Analytical Methods, 2013: "Screening of Cosmetic Ingredients From Authentic Formulations and Environmental Samples With Desorption Electrospray Ionization Mass Spectrometry" DOI:10.1039/c2ay25846c

Journal of American Society for Mass Spectrometry, 2011: "Direct Detection of Pharmaceuticals and Personal Care Products From Aqueous Samples With Thermally-Assisted Desorption Electrospray Ionization Mass Spectrometry" DOI: 10.1007/s13361-011-0144-6