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Technical note

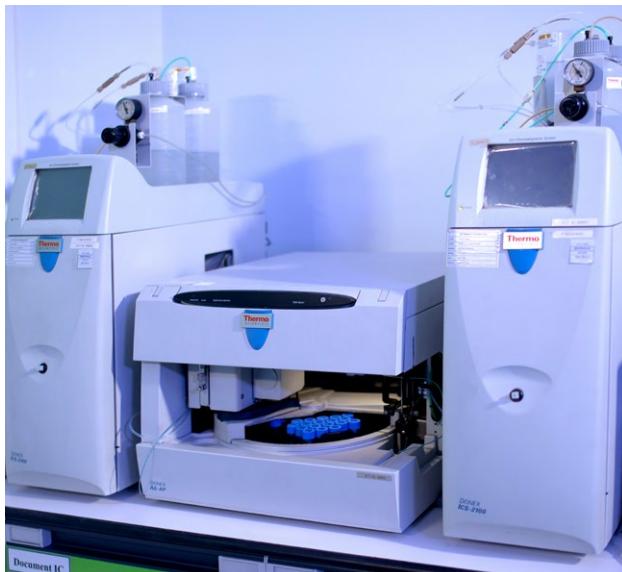
Ion Chromatography (IC)

Thermo Scientific Dionex Ion Chromatography (IC) ICS-2100 systems

Ion Chromatography (IC) instruments are used to separate, isolate and identify the components of various ionic species in water. The instruments are able to measure the concentration of major anions and cations to the sub part-per-billion (ppb) level.

Coupled with an appropriate extraction technique, we are able to analyse the ionic content on surfaces or within a material.

Our instrument is equipped with a Dionex AS-AP Autosampler. This provides the capability of simultaneous injection without the cross contamination of chemistries. It also provides superior consistency at RSDs of less than 0.3%, ensuring the reproducibility and accuracy of testing results.



Key Features

- Capable of simultaneous injection - high sample capacity (up to 81x10mL vials).
- Automatic eluent generation - able to generate low-noise hydroxide eluent, low carbonate contamination.
- Highly precision and reproducibility.
- Automated standard calibration.
- Extremely high sensitivity - sub ng/L detection limits.

Services

Cleanliness, specifically ionic cleanliness, is extremely important in assembly as well as semiconductor process water.

An example of the industry-standard procedure used in electronics manufacturing is IPC TM-650 2.3.28 "Ionic Analysis of Circuit Boards", or ongoing process monitoring of air in the clean-room to monitor airborne ionic substances.

We are providing IC testing services (cations and anions) to the environmental, chemical, petrochemical and electronics industries.



ABOUT ALS

With more than a decade of sophisticated testing experience, ALS Pathumthani has a diverse range of sampling, testing, and consulting services for the Electronics industry. We have dedicated technical staff to deliver reliable and timely analytical solutions for customer testing needs. We specialize in micro-contaminant and RoHS analysis, offering tailored analytical

packages that are specific to client requirements and needs. We are ready to deploy our world-class services to additional industries to support Thailand's industry growth. ALS provides the wide range of professional services for Electronics, Semiconductor, Automotive, Telecommunication, and Wear-Check analysis (Tribology).

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