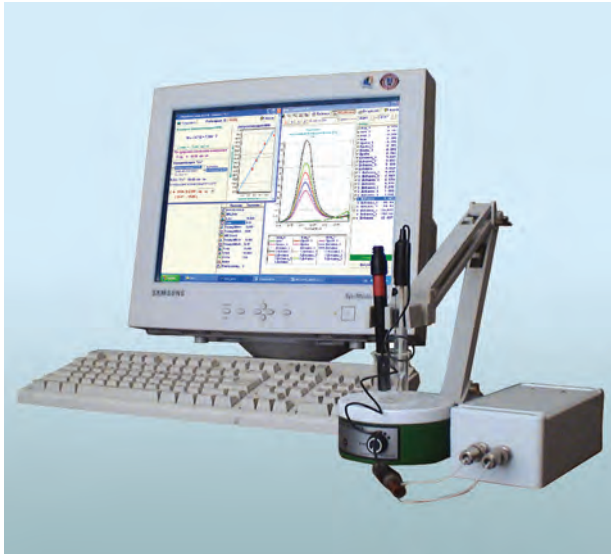
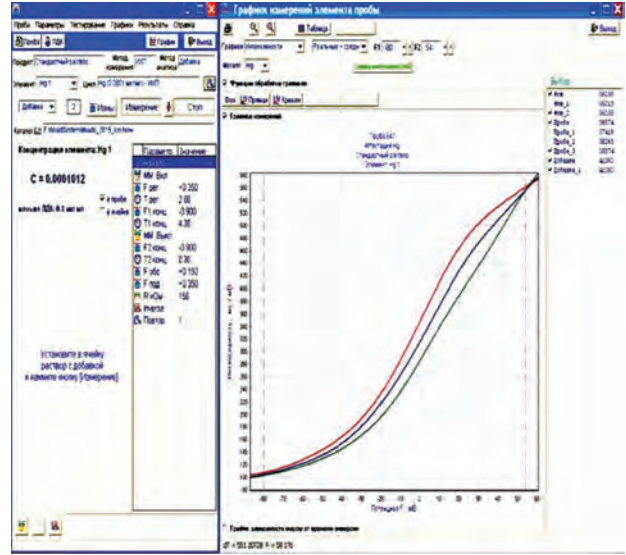


# ICP ANALYZER FOR MEASURING CONCENTRATION OF TOXIC ELEMENTS IN ENVIRONMENT OBJECTS



ICP Analyzer device



Measurement of mercury concentration in water

## Areas of Application

The device is to be used for quality control and certification of food, drinking water, soil, and feed at laboratories of corporations, educational establishments, and R&D institutions

## Advantages

The device enables to measure concentration of toxic elements below the maximum permissible values. The methods for quantifying the content of these elements in drinking water, water reservoirs, and soils have been approved. The content of toxic elements in food products is quantified using the device in accordance with government standards

## IPR Protection

IPR1, IPR2

## Specification

The lower limit for measuring concentration of toxic elements in the sample solution: Hg (mercury) – 0.1  $\mu\text{g}/\text{dm}^3$ ; Pb (lead), Cd (cadmium), Zn (zinc), Cu (copper), As (arsenic), Ni (nickel), and Co (cobalt) – 1.0  $\mu\text{g}/\text{dm}^3$ ; Sn (tin), Se (selenium), Mn (manganese), Cr (chromium), I (iodine), and Fe (iron) – 10  $\mu\text{g}/\text{dm}^3$ . Concentration of K (potassium), Na (sodium), Ca (calcium), F (fluorine),  $\text{NH}_4$  (ammonium), and  $\text{NO}_3$  (nitrate) are measured using ion-selective electrodes

## Stage of Development.

### Suggestions for Commercialization

IRL6, TRL5

Manufacture, certification, warranty service, installation, staff training, periodic verification, and replacement of electrodes are provided, upon request

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