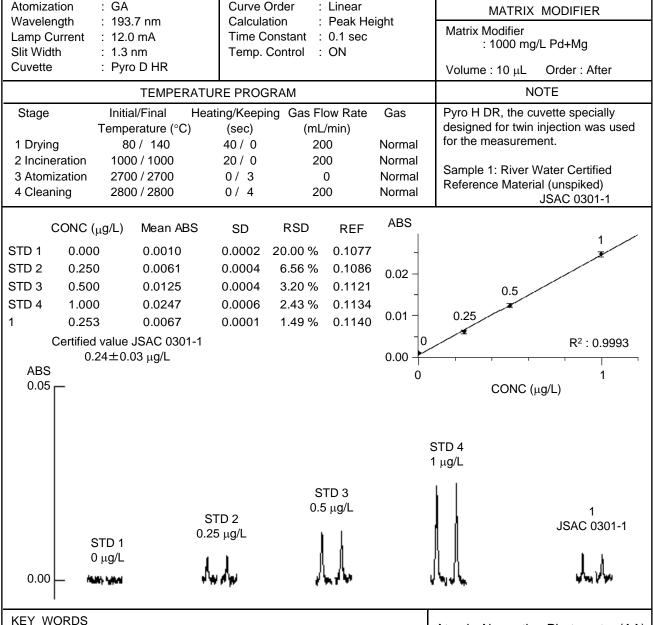


Analysis of As in River Water (Electrothermal Method)

Element

Instrument

By using the twin injection function, newly installed in the ZA3000 series, instruments, arsenic in river water was analyzed. By using the specially designed twin cuvette (Pyro D HR), a sample is injected into two different injection ports. As a result, the analysis can be performed without INTRODUCTION: extending the drying time even when a large sample volume is injected. By a conventional instrument, it has been difficult to detect arsenic at a level less than 1 µg/L. However, with the twin injection function, the detection without concentration is possible. The analysis result of JSAC 0301-1, a river water certified reference material, was within the range of the certified value, indicating that the accurate analysis is possible. INSTRUMENT CONDITIONS MEASUREMENT PARAMETERS GA AUTOSAMPLER Sample Volume : 70 uL Meas. Mode : As : Working Curve Addition : Speed: 4 : ZA3000 Signal Mode : BKG Corrected



Atomic Absorption Photometer (AA) Environmental Analysis Related, Environmental Water, Clean Water, Environmental Chemistry, River Water, River Water Certified Reference Material (unspiked) JSAC 0301-1, Arsenic, Sheet No. AA120007-00 As, Flameless, Graphite Furnace, AA, ZA3000, GA, Pyro D HR, Environment

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