

用密闭式ICP-AES法测定高放废液中的金属元素

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摘要 建立了一套可用于分析高放废液成分的密闭式ICP-AES装置,制备了样品和标准样品,选择了各元素谱线,分析了实际高放废液中21个金属元素。一些元素的分析结果与其它方法比较,有很好的 consistency。

关键词 [电感耦合等离子体原子发射光谱\(ICP-AES\)](#) [高放废液](#) [金属元素](#)

分类号

DETERMINATION OF METAL ELEMENTS IN THE HIGH-LEVEL LIQUID WASTE (HLLW) BY SEALED ICP-AES SYSTEM

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Abstract A sealed ICP-AES system used to determine the metal elements in HLLW in glove box is set up. The 21 metal elements in HLLW are determined in the system. Many experiments concerning the preparation of reference samples, the selection of wavelenths of determined elements and the measurement of samples have been done, the Radiation dose is measured in the analytical procedure. The analytical results of some elements obtained by the method are in good agreement with other methods. The developments and improvements of the system applied in nuclear industrial field are discussed in the paper.

Key words [ICP-AES](#)[High-level liquid waste](#)[Metal elements](#).

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