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Elemental determinations in biological and environmental sample using PGNAA facility at Dalat Nuclear Research Institute

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In this paper we present the results of determination of element concentrations in biological, environmental samples by using PGNAA facility which was installed at channel No. 4 of Dalat research reactor. The biological standard samples, Bovine Liver NBS 1577a and Rye Grass BCR 281 and environmental standard samples, Coal Fly Ash NBS 1633a were analyzed to verify the analytical ability of the facility. After that, the concentrations of C, N, S, K, Cl in biological samples and concentration of Al, K, Ti, Mn, Fe, Ca, Gd, Sm, Cd and Si in environmental samples were determined. The detection limits of the above elements were also investigated.

Primary author: Mr NGUYEN, Canh Hai (Nuclear research institute)

Co-authors: Prof. VUONG, Huu Tan (Viet Nam Agency for Radiation and Nuclear Safety); Prof. NGUYEN, Nhi Dien (Nuclear Research Institute); Mr TRAN, Tuan Anh (Nuclear Research Institute)

Presenters: Mr NGUYEN, Canh Hai (Nuclear research institute); Prof. VUONG, Huu Tan (Viet Nam Agency for Radiation and Nuclear Safety); Prof. NGUYEN, Nhi Dien (Nuclear Research Institute)

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