DEVELOPMENT OF ION EXCHANGE DETERMINATION METHODOLOGY OF URANIUM AND TRANSURANIUM ELEMENTS IN GROUND WATERS AND LIQUID RADIOACTIVE WASTER OF "UKRYTTYA" OBJECT

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The procedure of simultaneous determination of the contents of radionuclides ²³⁴⁻²³⁸U, ²³⁸Pu, ²³⁹⁺²⁴⁰Pu, ²⁴¹Am and ²⁴⁴Cm in ground water and liquid radioactive waster is submitted ion exchange. Concentration and separations of uranium and plutonium is yielded on anion AV-17 in Cl - form. The clearing of americium and curium from rare earth elements is carried out step-by-step striping from a cation-exchange column with KU - 2-8. Activity of isotopes of uranium, plutonium, americium and curium determine by alpha spectrometric measurements.