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Characteristics of concentration correlations for the pairs of
 $^{238}\text{U}/\text{HCO}_3^-$,
 $^{234}\text{U}/\text{HCO}_3^-$,
 $^{226}\text{Ra}/^{238}\text{U}$,
 $^{228}\text{Ra}/^{226}\text{Ra}$,
 $^{226}\text{Ra}/\text{HCO}_3^-$,
 $^{228}\text{Ra}/\text{HCO}_3^-$,
 $^{210}\text{Po}/^{238}\text{U}$,
 $^{210}\text{Po}/^{226}\text{Ra}$,
 $^{228}\text{Th}/^{232}\text{Th}$,
 $^{228}\text{Th}/^{228}\text{Ra}$,
 $^{228}\text{Th}/\text{HCO}_3^-$
 and $^{210}\text{Po}/^{210}\text{Pb}$ in drinking water

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Some important naturally occurring α and β radionuclides in seventeen brands of drinking water samples collected in Italy were determined. The mean activity concentrations (mBq L⁻¹) of the radionuclides in the water samples were almost in the order: 26 ± 36 (^{234}U) > 21 ± 30 (^{238}U) > 8.9 ± 15 (^{226}Ra) > 4.8 ± 6.3 (^{228}Ra) > 4.0 ± 4.1 (^{210}Pb) > 3.2 ± 3.7 (^{210}Po) > 2.7 ± 1.2 (^{212}Pb) > 1.4 ± 1.8 (^{224}Ra) > 1.1 ± 1.3 (^{235}U) > 0.26 ± 0.39 (^{228}Th) > 0.0023 ± 0.0009 (^{230}Th) > 0.0013 ± 0.0006 (^{232}Th). Based on the HCO_3^- concentrations and the radionuclide concentrations in the analysed waters, correlation analyses were made, and statistical positive correlations were found among the pairs of $^{228}\text{Ra}/^{226}\text{Ra}$, $^{226}\text{Ra}/\text{HCO}_3^-$, $^{228}\text{Ra}/\text{HCO}_3^-$, $^{210}\text{Po}/^{238}\text{U}$, $^{210}\text{Po}/^{226}\text{Ra}$, $^{228}\text{Th}/^{232}\text{Th}$, $^{228}\text{Th}/^{228}\text{Ra}$, $^{228}\text{Th}/\text{HCO}_3^-$ and $^{210}\text{Po}/^{210}\text{Pb}$ in drinking water.

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