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Natural Radioactivity by Alpha Particles in Human Teeth at NajafCity/ Iraq

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Abstract:The rate of alpha emission from teeth in Najafcity was measured using a nuclear track detector CR-39 to determine the level of environmental contamination by radionuclides that alpha-emitting. The results were showed that the highest emission of alpha was (0.2364) mBq cm⁻²in Najaf / Hey Al-Meladwhile the lowest emission was (0.0017)mBq cm⁻²in Najaf / Hey Al-Wafaa.The mean of alpha emission was (0.0461±0.0046) mBq cm⁻², Which indicate no environmental contamination by radionuclide's which emitting alpha particles compared with the previous studies.

Key Words: Alpha, Teeth, CR-39, Natural Radioactivity, Najaf.

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