

Journal of Analytical Chemistry 2010 vol.65 N5, pages 438-444

Detection of biomarkers in the organic matter of rocks from the romashkinskoe oil field using gas chromatography-mass spectrometry

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Abstract

Polycyclic hydrocarbons (biomarkers) were detected in the organic matter of Paleozoic and pre-Paleozoic rocks from the Romashkinskoe oil field in the Volga-Ural region using gas chromatography-mass spectrometry. Coefficients were calculated from the ratio between tetra- and pentacyclic hydrocarbons, and the facial genetic types, possible generation sources, and evolution transformation conditions of the initial organic matter were determined from the array of these coefficients. © Pleiades Publishing, Ltd., 2010.

<http://dx.doi.org/10.1134/S1061934810050023>
