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Titolo	American national standard performance criteria for handheld instruments for the detection and identification of radionuclides
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Sommario/riassunto	Performance specifications and testing methods for the evaluation of handheld instruments (also known as radionuclide identification devices or RIDs) used for the detection and identification of radionuclides, which emit gamma rays and, in some cases, neutrons, are contained in this standard. The specifications for general, radiological, environmental, electromagnetic and mechanical performances are given and the corresponding testing methods are described. The documentation to be provided by the manufacturer is listed as part of the requirements. Normative and informative annexes that provide guidance for the implementation of this standard are also included. (The PDF of this standard is available at no cost compliments of the Department of Homeland Security Domestic Nuclear Detection Office. http://standards.ieee.org/getN42/download/N42.34-2015.pdf). Scope: This standard specifies general, radiological, environmental, electromagnetic, and mechanical requirements,and associated test methods for handheld radionuclide identification devices (RIDs). Successful completion of the tests described in this standard should not be construed as an ability to identify all radionuclides in all environments. Purpose: This standard addresses instruments that are used to detect and identify radionuclides, display gamma-ray exposure rates, and when provided, indicate the presence

of neutron radiation. The identification requirements established by this standard are based on the sources and source configurations defined in this standard. When an RID is used operationally, the configuration of a source or object being analyzed is typically unknown, which may cause other radionuclides or isotopes to be identified.