

Recent Test Results for Trillium 360 Version 2 with Improved Noise Performance

Geoffrey Bainbridge, Sarvesh Upadhyaya, Bruce Townsend, and Peter Devanney
Nanometrics Inc, Ottawa, Canada

There is a need for a new generation seismometer able to measure the smallest existing ground motion, in a form factor suitable for borehole, posthole, and portable deployment as well as traditional surface vaults. This is an active area of research with recently released products such as Trillium 360 (Version 1) pushing the boundaries of borehole sensor performance. This paper presents the latest test results for an improved Trillium 360 Version 2 product with even lower self-noise. Tests were conducted at a new facility in Ottawa, Canada with multiple closely spaced boreholes drilled into hard rock to allow for side-by-side coherence testing in a down-hole environment.