

## Accredited shock tests for watches

ANALYSES  
CHIMIQUES  
CONTRÔLE DES  
MATÉRIAUX  
ASSISTANCE  
TECHNICO-LÉGALE  
CONTRÔLES  
HORLOGERS ET  
MICROTECHNIQUES



Since end of 2016, all our shock testing protocols for watches, both direct and indirects are accredited. ISO 1413:2016 standard now applies on complete watches and, for water resistant ones, requires verifying this feature after the shocks on the watch heads.

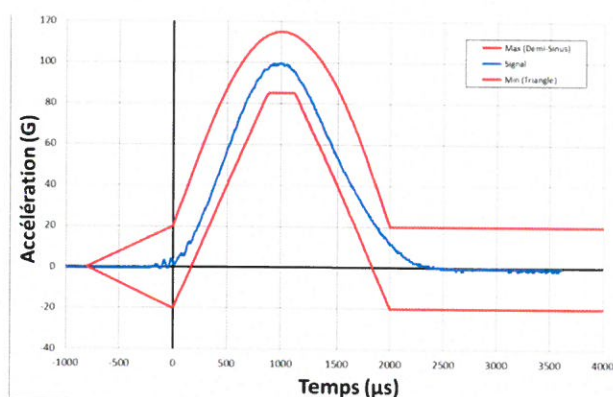
### Chronofiable® ageing cycle

Perpetuated by Laboratoire Dubois, this test simulates the effects of everyday wearing with an acceleration factor of 8, and comprises approximately 20,000 impacts between 25 and 550G, in the following sequence:

- **Initial check:** Functions, chronometric characteristics, power reserve, temperature tests
- **Shocks test at 450G**
- **Chronofiable® machine run:** Shocks at 25 and 100G, and heat cycles
- **Shocks test at 550G**
- **Final check**

### Multiple shocks protocol

As complement, we offer a so-called "multiple shocks" protocol. It reproduces the intensities of the Chronofiable® shocks cycle, but in an approach free from heat stresses. Depending on the circumstances, it can be completed within only 2 days.



Accredited shock benches.



### Customised testing

Any other shock program, between 10 and 1000G, can be applied on request.

### Direct or accidental shocks

The standard ensures now a better shock repeatability and requires a regular control of the test equipments.

Free fall test on a complete watch

