

and monitoring of the MB3, MB2000 and MB2005 calibration process at Seismowave

SEISMO WAVE has designed and developed a new facility and the environmental conditions suitable for a laboratory dedicated to the infrasound metrology activity. Since September 2017, an infrasound sensor calibration bench designed by CEA and some reference sensors are installed in this laboratory.

A qualification of the calibration process has been carried out in collaboration with CEA in three steps: qualification of the bench to define the correction model to be applied to the measurements, short-term assessment of the stability of the measurement environment and the bench and finally the calibration of SEISMO WAVE reference microphone.

Since this initial qualification, SEISMO WAVE has set up an internal process to monitor its bench using reference microbarometers, an external process to monitor the bench, including intercomparison with CEA, and a calibration process for its measuring instruments and measurement standards to maintain metrological traceability of its measurement results.

This poster presents the different steps of the bench qualification, the results related to the stability of the measurement environment, the calibration bench since 2017, and finally, some information about the monitoring processes implemented.

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