

Publication of ANFR's annual study of more than 3,000 measurements of public exposure to radio waves

Maisons-Alfort, April 18th, 2019 - The National Frequency Agency (ANFR) publishes its annual study on the analysis of more than 3,000 measurements of public exposure to waves carried out in 2018. It shows that the measured levels overall, with a median exposure level of 0.40 V/m and 90% of measured levels below 1.8 V/m. As a reminder, the regulatory limit values are between 28 V/m and 87 V/m depending on the frequencies.

This study addresses all the measurements carried out in 2018 as part of the of the French national surveillance process of public exposure to electromagnetic waves in the 100 kHz - 6 GHz band, set up in 2014. Open to private individuals and local authorities, the process allows the free assessment of exposure to electromagnetic waves at home and in areas accessible to the public. The study, however, excludes specific measurements taken on the exposure of smart meters, for which the national system was expanded in June 2018. The results of these measurements will be addressed in a separate report coming soon.

This study shows that the levels measured in 2018 remain generally low: the median field level is 0.40 V/m, i.e. half of the results obtained are lower than this value.

The analysis also indicates that **90% of the measured levels are below 1.8 V/m**. These levels are slightly **higher in urban areas** (2.1 V/m) than in rural areas (0.83 V/m), and higher outdoors (2 V/m) than indoors (1.7 V/m).

In more than 60% of cases, mobile telephony is the main source of exposure. In rural areas, this trend appears less pronounced with only 39% of cases where mobile telephony dominates and in almost 30% of cases, no significant source is measured. Mobile telephony dominates in almost 80% of outdoor cases.

- ⇒ [2018 report](#)
- ⇒ [Brochure on the French national surveillance process of public exposure to electromagnetic waves \(in French\)](#)

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