

# The mobile experimental complex for studying of electromagnetic fields generated in a wide frequency range in an industrial environment

Belashov V., Asadullin A.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

## Abstract

© 2014 IEEE. The mobile experimental complex was created by the authors for research of the electromagnetic (EM) fields generated by the electrical equipment and the elements of electric power systems in a wide frequency range. The description of the architecture and composition of the equipment is given, and its functionalities are considered. The complex is used to monitor the EM environment of objects for the purpose of solving of problems of electromagnetic compatibility (EMC). The results of monitor studies of the EM environment at two energy and industry sites are given.

<http://dx.doi.org/10.1109/EMCEurope.2014.6931088>

---

## Keywords

electric power systems, electrics, electromagnetic compatibility, electromagnetic field measurement, mobile experimental complex, sources of electromagnetic radiation, sources of noise