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THE SURVEY OF ELECTROMAGNETIC ENVIRONMENT DUE TO COMMUNICATION SYSTEMS

BY

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Abstract. In this paper we present the results of electromagnetic fields measurements in some residential areas situated near a FM radio and television broadcasting tower, respectively in city. For the frequency range $110 \text{ MHz} \div 2200 \text{ MHz}$ we determined the maximum values of electric field vectors and theirs temporal variability. By performing a great number of measurements and by statistical processing we tried to obtain the realistic exposure estimation. On the basis of mean values of the electric fields, we determined the relative exposure indices -RE in specific frequency span (each type on communication systems) for some dwellings situated near or far from a broadcasting tower.

Keywords: electric field measurement, mobile communications, relative exposure indices.