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The Influence of the Structure of Useful Signal on the Efficacy of Sensitive Emission of Laser Printers

Tytuł

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Abstract: The article presents issues related to the development of sensitive emission when laser printer is in operation. The article describes the possibility to control the efficacy of the source of emission, which is the printer's laser, through various selections of quality of the printout. Various laser printer modes were tested. Each of these modes was the source of electromagnetic emissions. The operating modes of laser printers were assessed from the effectiveness of the electromagnetic infiltration process point of view. The operation of a printer with a toner save option, which generates useful signal with a high degree of susceptibility to infiltration, is of a great importance. The obtained results were presented graphically in the form of images recreated from registered signals of adverse emission. The results show that the level of electromagnetic safety or susceptibility to electromagnetic infiltration of laser printers depends on the mode of operation of the device.

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