

PLC-Workshop

Brussels, 16 October 2003

Source: Wendelin Reuter, short wave broadcasting listener and private short wave radio operator

Dear Sirs,

a major worry of radio services and operators is the possible deployment of a high number of inhouse-PLC-modems throughout Europe.

Annexed I send you a file showing the radiation spectrum of an inhouse PLC-modem using and polluting the frequency range between 4 and 22 MHz.

The modem shown is a “homeplug”-type. Amateur frequency bands have been “notched” out of the transmission spectrum to give some protection to the amateur service which is regarded in the US to be an emergency radio service.

Trials made in our laboratories have shown that the reception of short wave broadcasting stations is severely interfered in the vicinity of the PLC-modem location. The radiation levels measured were about 30 dB above NB30 which is not acceptable to any radio reception taking place in the vicinity of a PLC-operation site.

The operation of such PLC-equipment is not complying with the EMC-Directive.

Wendelin Reuter
Rossbergring 62
64354 Reinheim
Germany