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Comparative evaluation of received signal parameters in SFN DVB-T2 service area

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Abstract

In this article are presented theoretical principles with coding of frequency multiplexing of orthogonal carrier frequencies. Was performed a comparative evaluation of the qualitative parameters of the DVB-T2 signal in the synchronous network service area. The analysis is based on the results of field measurements performed in the central zone of the Republic of Moldova, where digital terrestrial television functioning on 31 television channel.

Keywords: *digital terrestrial television, DVB-T2, SFN, MFN, COFDM. coverage area, mutual interference zone, field strength, minimum median field strength, MER, BER, CBER, LBER, C/N, S/N*

References:

1. Technical Specification Digital Video Broadcasting; Implementation guidelines for a second generation digital terrestrial television broadcasting system (DVB-T2). Google Scholar

2. Final acts of the regional radio communication conference for planning of the digital terrestrial broadcasting service in parts of regions 1 and 3 in the frequency bands 174-230 and 470-862 MHz (RRC-06).

Google Scholar

3. Digital Video Broadcasting; Measurement guidelines for DVB systems. Google Scholar

4. Digital Video Broadcasting; Frame structure channel coding and modulation for a second generation digital terrestrial television broadcasting system (DVB-T2). Google Scholar

5. Ф.В. Кушнир, В.Г. Савенко and С.М. Верник, "Измерения в технике связи", Издательство „Связь” Москва, 1976. Google Scholar

6. Electronic Warfare and Radar Systems Engineering Handbook. Google Scholar