

## BIBLIOGRAPHY

1. Bolotov A.O., Kholyukov R.G., Varlamov O.V. EER power amplifier modulator efficiency improvement using PWM with additional sigma-delta modulation. 2018 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SYNCHROINFO), Minsk, Belarus, 2018, pp. 1-4, doi: 10.1109/SYNCHROINFO.2018.8456955.
2. Buchholz T., Mlasko T., Hofmann F., Murphy A. Report on subjective listening tests of SBR-LC, an AAC-based audio bandwidth widening tool. DRM Source Coding Group. February 2001.
3. Chireix H. High-power Outphasing Modulation. Proc. IRE. 1935. Vol. 23. No. 11. p. 1370-1392.
4. Chris van den Bos, Michiel H. L. Kouwenhoven, Wouter A. Serdijn. Effect of Smooth Nonlinear Distortion on OFDM Symbol Error Rate. IEEE Transactions on communications. 2001. Vol. 49. No. 9. p. 1510-1514.
5. Cox D.C. Linear Amplification with Nonlinear Components. IEEE Trans. on Commun. 1974. Vol. COM-23. No. 12. p. 1942-1945.
6. Cripe D. W. Improving the efficiency and reliability of AM broadcast transmitters through class-E power. National Association of Broadcasters annual convention, May 1992, 7 p.
7. De la Vega D., Fernandez C., Grande O., Angulo I., Guerra D., Wu Y., Angueira P., Ordiales J.L. Software tool for the analysis of potential impact of wind farms on radiocommunication services. 2011 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB). 2011. p. 1-5.
8. Dietmar R. Out-of-Band emission of digital transmissions using Kahn EER technique. IEEE Transactions on Microwave Theory and Techniques. 2002. Vol. 50. No. 8. p. 1979-1983.
9. Dolgopyatova A. V., Varlamov O. V. Reverse Intermodulation Distortion in Current Mode and Bridge Class D RF Power Amplifiers. 2023 Systems of Signals Generating and Processing in the Field of on Board Communications, Moscow, Russian Federation, 2023, doi: 10.1109/IEEECONF56737.2023.10092117.
10. Dolgopyatova A.V., Varlamov O.V. Analysis of Long-Range VHF Radio Waves Propagation to Specify Protection Ratios Between Coexisting DRM+, RAVIS and IBOC Systems. 2021 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SYNCHROINFO, Kaliningrad, Russia, 2021, pp. 1-4, doi: 10.1109/SYNCHROINFO51390.2021.9488392.
11. Dolgopyatova A.V., Varlamov O.V. Intermodulation distortion in current mode and bridge class D switching amplifiers with resistive load. T-Comm, vol. 17, no.3, pp. 4-13. 2023. DOI: 10.36724/2072-8735-2023-17-3-4-13
12. Dream AM/DRM Receiver download page on Sourceforge. URL: <https://sourceforge.net/projects/drm/>, date of access 05.05.2023.
13. Dymkova S. Applicability of 5G subscriber equipment and global navigation satellite systems. Synchroninfo Journal. Vol. 7. No. 5, pp. 36-48. 2021. DOI: 10.36724/2664-066X-2021-7-5-36-48
14. Dymkova S. Breakthrough 5G data call using dynamic spectrum sharing to accelerate nationwide 5G deployments. Synchroninfo Journal. Vol. 5. No. 6, pp. 17-21. 2019.
15. Dymkova S.S. Cloud IOT platforms and applications for optimizing transport management. REDS: Telecommunication devices and systems. Vol. 10. No. 4, pp. 39-50. 2020
16. Dymkova S.S., Varlamov O.V. Peer Review Procedure as the Main Criterion for Confirmation Researcher's Scientific Work Quality : According results of the international conference SYNCHROINFO. 2022 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SYNCHROINFO), Arkhangelsk, Russian Federation, 2022, doi: 10.1109/SYNCHROINFO55067.2022.9840923
17. EBU Tech Report 3330 "Technical Bases for DRM Services Coverage Planning". Geneva, June 2008.

18. ETSI EN 302 245 V2.1.1 (2018-06) Transmitting equipment for the Digital Radio Mondiale (DRM) sound broadcasting service; Harmonised Standard for access to radio spectrum
19. ETSI ES 201 980 V4.1.2 (2017-04) Digital Radio Mondiale (DRM); System Specification.
20. ETSI TS 102 349 -V4.2.1 (2016-03) Digital Radio Mondiale (DRM); Receiver Status and Control Interface (RSCI).
21. ETSI TS 102 668 V1.1.2 (2014-11) Digital Radio Mondiale (DRM); DRM-TMC (Traffic Message Channel).
22. ETSI TS 102 818 V3.3.1 (2020-08) Hybrid Digital Radio (DAB, DRM, RadioDNS); XML Specification for Service and Programme Information (SPI).
23. Fernandez I., Angueira P., De la Vega D., Peña I., Guerra D., Gil U. Carrier and noise measurements in the medium wave band for urban indoor reception of digital radio. *IEEE Transactions on Broadcasting*. 2012. Vol. 58. No. 1. p. 98-105.
24. Fernandez I., Eizmendi I., Montalban J., Guerra D., Prieto G., Landa I., Gil U., Velez M. Field trials based validation of the suitable configuration parameters for mobile urban reception, using the new generation broadcasting systems. 2014 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB). 2014. -p. 1-4.
25. Filimonov N., Varlamov O., Itkin G. Efficient modulation of RF signals. EP 1450479 B1. 20.02.2003.
26. Filimonov N., Varlamov O., Itkin G. Efficient modulation of RF signals. US 7724837 B2. 07.01.2004
27. Filimonov N., Varlamov O., Itkin G. Glitch-free controllable RF power amplifier. US 7365599 B2. 23.02.2004
28. Filinomov N., Varlamov O. Power amplifier circuit for amplifying RF-signals. EP 1229642 B1. 31.01.2001.
29. Itkin G., Filimonov N., Varlamov O., Gromorushkin V., Chugunov I. Filter arrangement, e.g. for radio transceiver, has first impedance which is connected at first connection to input and with first resonant frequency with second impedance connected at first connection to input of filter. DE 102005047135 A1. 30.09.2005.
30. Get the most with DRM! 11 September 2010, IBC, Amsterdam, Transradio Presentation on behalf of the DRM Consortium. [http://www.drm.org/wp-content/uploads/2010/09/DRM\\_Transradio\\_for\\_IBC\\_final.pdf](http://www.drm.org/wp-content/uploads/2010/09/DRM_Transradio_for_IBC_final.pdf), date of access 05.05.2023.
31. Gil U., Guerra D., del Amo L., Masdeu J. DRM field trials for urban coverage planning in Spain. *EBU TECHNICAL REVIEW*. 2008. Q2. p. 1-16.
32. Gil U., Pena I., Guerra D., De La Vega D., Angueira P., Ordiales J.L. Statistical characterization of medium wave spatial variability due to urban factors. *IEEE Transactions on Antennas and Propagation*. 2011. Vol. 59. Issue 9. p. 3498-3500.
33. Gromorushkin V.N., Varlamov O.V. Experimental Studies of the Envelope Elimination and Restoration HF Power Amplifier Characteristics with Broadband Unmatched Load. 2021 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SYNCHROINFO, Kaliningrad, Russia, 2021, pp. 1-4, doi: 10.1109/SYNCHROINFO51390.2021.9488387
34. Guerra D., Coletto M., Melgar L., Gil U., Peña I., Prieto G., Angulo I. Measurement based near vertical incidence skywave channel model in the medium wave band. 7th European Conference on Antennas and Propagation (EuCAP). IEEE. 2013. p. 3403-3407.
35. Guerra D., Prieto G., Fernandez I., Matias J. M., and Angueira P. Medium wave DRM field test results in urban and rural environments. *IEEE Trans. Broadcast*. 2005. Vol. 51. No. 4. p. 431-438.
36. Hetzel S.A., Bateman A., McGeehan J.P. A LINC transmitter. *Electronics letters*. 9th May 1991. -Vol.27. No. 10. -p. 133-137.
37. Huber J. DRM on MF and LF, coverage and technical requirements. EBU-DRM Conference. Geneva, 26 Nov 2009,

- [https://tech.ebu.ch/docs/events/drm09/presentations/ebu\\_drm09\\_huber.pdf](https://tech.ebu.ch/docs/events/drm09/presentations/ebu_drm09_huber.pdf), date of access 05.05.2023
38. ITU-R Contribution SG6/353 (2007-04). DRM test in the MF band in Italy.
  39. ITU-R Doc. 6A/228-E. Measurements of DRM coverage area in the mediumfrequency band in the day-time, night-time and in the fading zone. Russian Federation, 2013.
  40. ITU-R doc. 6D/10-E. Digital Radio Mondiale (DRM), Asia-Pacific Broadcasting Union (ABU): «Results Of DRM Trials In New Delhi: Simulcast Medium Wave, Tropical Band, Nvis And 26 Mhz Local Broadcasting». March 2008.
  41. ITU-R doc. 6E/199-E. Digital Radio Mondiale (DRM): "DRM simulcast test report to ITU-R V1.0 -20/02/02 (including simulcast test plan and available from laboratory test simulcast reference values)". March 2002.
  42. ITU-R doc. 6E/403-E. DIGITAL RADIO MONDIALE (DRM): "MW SIMULCAST TESTS IN MEXICO D.F.", August 2006.
  43. ITU-R Doc. WP6A/307. Tests of single frequency DRM radio networks in the SW range. Russian Federation, 2013.
  44. ITU-R: Doc. WP6E: Contributions: 390. DRM medium wave reception tests in Vietnam. - ABU, 2006.
  45. Ivanyushkin R. Yu., Varlamov O.V., Syagaev A.K. Nonlinear distortions of the DRM standard signal in synthetic linear amplification circuits. In the collection: Signal processing in terrestrial radio communication and warning systems. Materials of the XV interregional scientific and technical conference, pp. 301-310, Moscow, NTORES. 2007
  46. Kahn L. R. Single-Sideband Transmission by Envelope Elimination and Restoration. Proceedings of the IRE, vol. 40, no. 7, pp. 803-806, July 1952, doi: 10.1109/JRPROC.1952.273844
  47. Maier F., Tissen A., Waal A. Evaluations and measurements of a single frequency network with DRM+. European Wireless 2012. 18th European Wireless Conference. VDE Conference Publications. 2012. p. 1-5.
  48. Maier F., Tissen A., Waal A. Evaluations and measurements of a transmitter delay diversity system for DRM+. 2012 IEEE Wireless Communications and Networking Conference (WCNC), 1-4 April 2012. 2012. p. 1180-1184.
  49. Murphy A. The Plymouth Digital Radio Mondiale (Drm) Trial: Long-term Reception Results. BBC Research White Paper WHP 174. February 2009.
  50. Nguyen D.C., Varlamov O.V. Dependence of modern telecommunication signals transmitter with components separation output signal distortion level on the envelope path filter parameters. T-Comm, vol. 17, no.2, pp. 12-26. 2023. DOI: 10.36724/2072-8735-2023-17-2-12-26
  51. Nguyen D.C., Varlamov O.V. Simulation model for studying the operation of switching mode envelope elimination and restoration RF power amplifiers for a narrow-band load. H&ES Reserch. 2022. Vol. 14. No 2. P. 10-18. doi: 10.36724/2409-5419-2022-14-2-10-18
  52. Nguyen D.C., Varlamov O.V. Simulation Model for Switching Mode Envelope Elimination and Restoration RF Power Amplifiers Research. 2022 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SYNCHROINFO), Arkhangelsk, Russian Federation, 2022, doi: 10.1109/SYNCHROINFO55067.2022.9840917
  53. Pena I., Lauterbach T., Angueira P., Arrinda A., Matias J. M., De la Vega D., Velez M.M., Re C., Maier F. Planning factors for digital local broadcasting in the 26 MHz band. IEEE Transactions on Broadcasting. 2011. Vol. 57. Issue 1. p. 24-36.
  54. Poole R. Digital Radio Mondiale: An E-Field Generator for Receiver Testing. BBC Research White Paper WHP 139. June 2006.
  55. Poole R. Portable Receivers for Digital Radio Mondiale: A Look at Antennas and Sensitivities. BBC Research White Paper WHP 164. May 2008.

56. Prieto G., Guerra D., Matias J.M., et al. Digital Radio Mondiale (DRM) Measurement System Design and Measurement Methodology for Fixed and Mobile Reception. *IEEE Trans. on Instrumentation and Measurement*. Vol. 57. No. 3. P. 565-570, March 2008.
57. Prieto G., Vélez M., Arrinda A., Gil U., Guerra D., De la Vega D. External noise measurements in the medium wave band. *IEEE Transactions on Broadcasting*. 2007. Vol. 53. No. 2. p. 553-559.
58. Prieto G., Velez M.M., Angueira P., Guerra D., and De la Vega D. Minimum C/N requirements for DRM reception based on field trials. *IEEE Commun. Lett.* 2005. Vol. 9. No. 10. p. 877-879.
59. Prieto G., Velez M.M., Angueira P., Guerra D., De la Vega D., and Arrinda A. Digital Radio Mondiale (DRM). Field trials for minimum C/N requirements. *Proc. of the International Broadcasting Convention. IBC 2005. Amsterdam, The Netherlands. 2005. Vol. 1. p. 43-48.*
60. Rec. ITU-R BS.1114-12 (01/2022). Systems for terrestrial digital sound broadcasting to vehicular, portable and fixed receivers in the frequency range 30-3000 MHz. Geneva, 2022.
61. Rec. ITU-R BS.1514-2 (03/2011). System for digital sound broadcasting in the broadcasting bands below 30 MHz. Geneva, 2011.
62. Rec. ITU-R BS.1615-2 (12/2020) "Planning parameters" for digital sound broadcasting at frequencies below 30 MHz. Geneva, 2020.
63. Rec. ITU-R BS.1895 (05/2011) Protection criteria for terrestrial broadcasting systems. Geneva, 2011.
64. Rec. ITU-R BS.703 (06/1990). Characteristics of AM sound broadcasting reference receivers for planning purposes.
65. Rec. ITU-R P.1147-4 (08/2007). Prediction of sky-wave field strength at frequencies between about 150 and 1700 kHz. Geneva, 2015.
66. Rec. ITU-R P.1321-5 (07/2015). Propagation factors affecting systems using digital modulation techniques at LF and MF. Geneva, 2015.
67. Rec. ITU-R P.368-10 (08/2022). Ground-wave propagation curves for frequencies between 10 kHz and 30 MHz. Geneva, 2022.
68. Rec. ITU-R P.372-16 (08/2022). Radio noise. Geneva, 2022.
69. Rec. ITU-R P.527-6 (09/2021) Electrical characteristics of the surface of the Earth. Geneva, 2021.
70. Report ITU-R BS.2144 (05/2009). Planning parameters and coverage for Digital Radio Mondiale (DRM) broadcasting at frequencies below 30 MHz. Geneva, 2009.
71. Report ITU-R BS.2384-2 (03/2021) Implementation considerations for the introduction and transition to digital terrestrial sound and multimedia broadcasting. Geneva, 2021.
72. Report ITU-R BT.2049-8 (09/2022) Broadcasting of multimedia and data applications for mobile reception. Geneva, 2022.
73. Stroganova E.P., Varlamov O.V. Measurement accuracy analysis for on-board measuring devices. *2018 Systems of Signals Generating and Processing in the Field of on Board Communications, Moscow, Russia, 2018, pp. 1-4, doi: 10.1109/SOSG.2018.8350638.*
74. Varlamov O. Research of influence of DRM broadcast transmitter nonlinearities onto the output signal parameters. *T-Comm*. 2014. Vol. 8. No 2. p. 59-60.
75. Varlamov O. The radio noise effect on the coverage area of drm broadcast transmitter in different regions. *T-Comm*. 2015. Vol. 9. No. 2. p. 90-93.
76. Varlamov O. V. Organization of single frequency DRM digital radio broadcasting networks. Features and results of practical tests. *2018 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SYNCHROINFO), Minsk, 2018, pp. 1-8. DOI: 10.1109/SYNCHROINFO.2018.8456925*
77. Varlamov O. V. Theoretical Approach to Calculating Reverse Intermodulation Distortion in Voltage Mode Class D RF Power Amplifiers. *2022 Systems of Signals Generating and*

- Processing in the Field of on Board Communications, Moscow, Russian Federation, 2022, doi: 10.1109/IEEECONF53456.2022.9744320.
78. Varlamov O. V. Theoretical Foundations for Teaching the Causes of Non-Linear Distortions in Modern High-Efficiency Transmitters. 2022 Intelligent Technologies and Electronic Devices in Vehicle and Road Transport Complex (TIRVED), Moscow, Russian Federation, 2022. doi: 10.1109/TIRVED56496.2022.9965552.
  79. Varlamov O. V., Dymkova S. S., Gorodilina M. V. Author's profiles in scientometric databases, Moscow, 2020
  80. Varlamov O. V., Goncharov I. A. and Lavrushenkov V.G. High-power HF digital-analog converter for SSB signal power amplifiers. Telecommunications and Radio Engineering, vol. 44, no. 8, pp. 49, 1989.
  81. Varlamov O. V., Gromorushkin V. N. Class D Switching Power Amplifier with a Filter under Load Mismatch Conditions. 2020 Wave Electronics and its Application in Information and Telecommunication Systems (WECONF), Saint-Petersburg, Russia, 2020, pp. 1-6, doi: 10.1109/WECONF48837.2020.9131508.
  82. Varlamov O. V., Gromorushkin V. N. High Efficiency Power Amplifier for IoT Applications: RF Path. 2020 Systems of Signals Generating and Processing in the Field of on Board Communications, Moscow, Russia, 2020, pp. 1-5, doi: 10.1109/IEEECONF48371.2020.9078651.
  83. Varlamov O. V., Gromorushkin V. N., Kozyrev V. B. and Melan'in A. V. Addition of the power outputs from push-pull voltage-switching oscillators having a resistive load. Radioelectronics and Communications Systems, vol. 32, no. 7, pp. 30, 1989.
  84. Varlamov O. V., Gromorushkin V. N., Lavrushenkov V. G. Development of shortwave SSB switching power amplifier with envelope elimination and restoration. T-Comm, vol. 5, no. 9, pp. 42-44, 2011.
  85. Varlamov O. V., Varlamov V. O. Distribution of maximum levels of atmospheric radio noise in LF and MF ranges in the territory of the Earth. H&ES Research. 2017. Vol. 9. No. 5. Pp. 42–51.
  86. Varlamov O., Lavrushenkov V., Kozyrevskij B., Kaljuga V. Refinement of individual values of protection ratios for digital broadcasting to the DRM standard. Results of laboratory and field measurements. Broadcasting. Television and radio broadcasting. No. 5, pp. 56-59. 2006.
  87. Varlamov O., Varlamov V., Dolgopyatova A. Digital Radio Broadcasting Network in the Arctic Region. 2019 24th Conference of Open Innovations Association (FRUCT), Moscow, Russia, 2019, pp. 457-462, doi: 10.23919/FRUCT.2019.8711933.
  88. Varlamov O.V. Analog to digital signal power ratio in simulcast DRM transmission. T-Comm. Vol. 10. No.12, pp. 81-84. 2016.
  89. Varlamov O.V. Correctly planning of DRM broadcasting networks. Telecommunication, no. 6, pp. 26-34, 2014.
  90. Varlamov O.V. Development of algorithm and software tools for antenna matching circuit design of DRM digital broadcast transmitters. T-Comm, vol. 7, no.2, pp. 47-50, 2013.
  91. Varlamov O.V. Development of high-efficiency modulation path for HF power amplifier with envelope elimination and restoration. T-Comm, vol. 5, no. 9, pp. 45-46, 2011.
  92. Varlamov O.V. Development of national regulatory framework for DRM digital broadcasting. T-Comm, 2013, No. 9, Pp. 47-50.
  93. Varlamov O.V. Development of requirements for receiving equipment of digital broadcasting networks of the DRM standard. T-Comm, vol. 7, no. 9, pp. 39-42, 2013.
  94. Varlamov O.V. DRM digital broadcasting system audio path qualitative characteristics. Synchroninfo Journal. Vol. 8. No. 4. p. 2-8. 2022. DOI: 10.36724/2664-066X-2022-8-4-2-8
  95. Varlamov O.V. Experimental Study of a Synchronous DVB-T2 Network in the Yaroslavl Region. Problems with Some Manufacturers' Receivers. 2020 International Conference on

- Engineering Management of Communication and Technology (EMCTECH), Vienna, Austria, 2020, pp. 1-4, doi: 10.1109/EMCTECH49634.2020.9261562.
96. Varlamov O.V. Intermodulation distortion in voltage mode class D switching amplifiers with resistive load. T-Comm, 2022. vol. 16, no.10, pp. 4-11. DOI: 10.36724/2072-8735-2022-16-10-4-11
  97. Varlamov O.V. Maximum power of the HF antenna tuner switched by PIN diodes at load mismatch. T-Comm, vol. 14, no.10, pp. 26-32. 2020. DOI: 10.36724/2072-8735-2020-14-10-26-32
  98. Varlamov O.V. Method of organization global digital radio broadcasting network in the LW band. T-Comm, vol. 9, no. 5, pp. 63-68, 2015.
  99. Varlamov O.V. Multiphase PWM characteristics in the EER transmitter envelope path. 2021 International Conference on Engineering Management of Communication and Technology (EMCTECH), Vienna, Austria, pp. 1-5, 2021. doi: 10.1109/EMCTECH53459.2021.9619166.
  100. Varlamov O.V. Organization of single frequency DRM digital radio broadcasting networks. Features and results of practical tests. T-Comm. Vol. 12, no.11, pp. 4-20. 2018.
  101. Varlamov O.V. Peculiarity of frequency-territorial planning of DRM broadcasting networks for LW and MW bands. T-Comm, vol. 7, no. 9, pp. 43-46, 2013.
  102. Varlamov O.V. Possibility Evaluation of the DRM NVIS Broadcasting Time Extension through Extraordinary Wave. 2022 International Conference on Engineering Management of Communication and Technology (EMCTECH), Vienna, Austria, 2022, doi: 10.1109/EMCTECH55220.2022.9934064
  103. Varlamov O.V. Power Capacity of HF Automatic Antenna Tuner Switched by PIN Diodes under Load Mismatch Conditions. 2020 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SYNCHROINFO), Svetlogorsk, Russia, pp. 1-5, 2020. doi: 10.1109/SYNCHROINFO49631.2020.9166046.
  104. Varlamov O.V. Powerful broadband DC amplifiers for modulation path of transmitters with separate amplification. T-Comm, 2022. vol. 16, no.11, pp. 4-14. DOI: 10.36724/2072-8735-2022-16-11-4-14
  105. Varlamov O.V. Public digital broadcasting network organization in the range of long waves. Synchroninfo Journal. 2018. Vol. 4. No. 6. p. 2-5.
  106. Varlamov O.V. Radio equipment for digital broadcasting of the DRM standard. Moscow. 2021.
  107. Varlamov O.V. Radio transmitters of complex signals built using the split amplification method. Fundamentals of theory and laboratory workshop. Educational and methodological manual. Moscow, 2019.
  108. Gromorushkin V.N., Varlamov O.V., Dolgopyatova A.V., Voronkov A.A. Operation Problems of the EER Transmitter with Narrowband Antenna. 2019 Systems of Signals Generating and Processing in the Field of on Board Communications, Moscow, Russia, 2019, pp. 1-5, doi: 10.1109/SOSG.2019.8706736
  109. Varlamov O.V. Study of DRM digital broadcasting in the MF fading zone. T-Comm, vol. 9, no. 2, pp. 41-45, 2015.
  110. Varlamov O.V. Suppression of transformation by-products in a modulator with multiphase PWM at channel asymmetry. Proceedings of the NIIR. 2022. No. 2. p. 49-57. DOI: 10.34832/NIIR.2022.9.2.005
  111. Varlamov O.V. The Technology of Creating a Digital Broadcasting Network of the DRM Standard for the Russian Federation. D.Sc. Thesis, MTUCI, Moscow, Russia, 2017.
  112. Varlamov O.V. Using the extraordinary wave for digital DRM NVIS broadcasting. T-Comm. 2015. No.1. Pp. 32-38.
  113. Varlamov O.V., Bychkova A.A. Basis of Technical Design and Development a Single-Frequency DRM Digital Broadcasting Network for Venezuela. 2021 Systems of Signal

- Synchronization, Generating and Processing in Telecommunications (SYNCHROINFO, Kaliningrad, Russia, 2021, pp. 1-7, doi: 10.1109/SYNCHROINFO51390.2021.9488396.
114. Varlamov O.V., Chugunov I.V. Modeling of efficiency OFDM UHF digital power amplifier with delta-sigma modulator. H&ES Research. 2015. No.2, pp. 30–33.
  115. Varlamov O.V., Chugunov I.V. Modeling of efficiency UHF class-D power amplifier with bandpass sigma-delta modulation. 2017 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SINKHROINFO), Kazan, Russia, 2017, pp. 1-3, doi: 10.1109/SINKHROINFO.2017.7997508.
  116. Varlamov O.V., Goreglyad V.D. Bandwidth extension LW transmitting broadcasting antenna systems for operating in DRM mode. T-Comm, vol. 7, no.1, pp. 18-22, 2013.
  117. Varlamov O.V., Grebennikov A. Experimental Studies of Envelope Elimination and Restoration HF Power Amplifier Characteristics with Narrowband Matched Load. 2022 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SYNCHROINFO), Arkhangelsk, Russian Federation, 2022, doi: 10.1109/SYNCHROINFO55067.2022.9840873.
  118. Varlamov O.V., Gromorushkin V.N., Lavrushenkov V.G., Chugunov I.V. Generator of test signals for measuring characteristics of EER SSB switching power amplifiers. T-Comm, vol. 5, no. 9, pp. 47-49, 2011.
  119. Varlamov O.V., Lavrushenkov V.G. The quality criteria for the DRM standard transmitting device and the measuring equipment. Broadcasting. Television and radio broadcasting. No. 3. Pp. 44-48, 2004.
  120. Varlamov O.V., Nguyen D.C., Grychkin S.E. Combination of synthetic high-performance RF amplification techniques. T-Comm. 2021. vol. 15, no.9, pp. 11-16. DOI: 10.36724/2072-8735-2021-15-9-11-16
  121. Varlamov O.V., Nguyen D.C., Grychkin S.E. Simultaneous Application of Several Synthetic Methods for High Efficiency Radiofrequency Amplification. 2021 Systems of Signals Generating and Processing in the Field of on Board Communications, Moscow, Russia, 2021, pp. 1-5, doi: 10.1109/IEEECONF51389.2021.9416126
  122. Varlamov O.V., Stroganova E.P. Frequency extension circuit for EER transmitters operating with electrically short antennas. 2018 Systems of Signals Generating and Processing in the Field of on Board Communications, Moscow, Russia, 2018, pp. 1-5, doi: 10.1109/SOSG.2018.8350577.
  123. Varlamov O.V., Varlamov V.O., Dolgopyatova A.V. DRM broadcasting international network to create an information field in the Arctic region. T-Comm. Vol. 13, no.9, pp. 9-16. 2019. DOI 10.24411/2072-8735-2018-10304
  124. Varlamov Oleg, Dang Canh Nguyen, Andrei Grebennikov, Broadband and Efficient Envelope Amplifier for Envelope Elimination and Restoration/Envelope Tracking Higher-Efficiency Power Amplifiers. Sensors, vol. 22, no. 23: 9173. 2022. <https://doi.org/10.3390/s22239173>.
  125. Waal A., Pagel D. Local radio in the 11 m band using DRM, results of the field strength measurements. Internal DRM-Consortium Document, DRM\_TC-SE368. 2006.