INTEGRATING FREQUENCY DOMAIN SPECTRAL SHAPING WITH SPECTRUM EXTENSION AND TONE RESERVATION

ABSTRACT

The present disclosure provides communication apparatuses and communication methods for integrating frequency domain spectral shaping (FDSS) with spectrum extension and tone reservation. The communication apparatuses include a communication apparatus comprising: circuitry, which in operation: determines one or more frequency components for a spectrum-extension (SE) part and one or more other frequency components for a non-SE part of a signal based on control information relating to the SE part and the non-SE part; generates a compensating signal based on the one or more frequency components of the SE part; and generates a reduced peak signal based on the compensating signal; and a transmitter, which in operation, transmits the reduced peak signal.

Fig. 15