CLAIMS

1. A method of transmitting a sounding reference signal, SRS, by a user equipment, UE, the method comprising:

receiving, from a base station, BS, SRS configuration information related with configuration of SRS resources for antenna switching;

transmitting, to the BS, a first SRS on a first antenna port of a first SRS resource based on the SRS configuration information; and

transmitting, to the BS, a second SRS on a second antenna port of a second SRS resource based on the SRS configuration information,

wherein the first SRS resource and the second SRS resource are configured in a same slot,

wherein at least one empty symbol is configured between the first SRS resource and the second SRS resource based on a subcarrier spacing configured for the UE.

2. The method of claim 1,

wherein the at least one empty symbol is configured as a gap for the antenna switching.

3. The method of claim 1,

wherein the first SRS resource and the second SRS resource configured within a plurality of consecutive Orthogonal Frequency Division Multiplexing, OFDM, symbols of the same slot.

4. The method of claim 1, wherein the SRS configuration information further includes a number of antenna ports for transmission of the SRS

5. The method of claim 1, further comprising:

receiving, from the BS, information representing whether the at least one empty symbol is configured between the first SRS resource and the second SRS resource.

6. The method of claim 5,

wherein the information is received through radio resource control, RRC, a medium access control channel element, MAC CE, or downlink control information, DCI.

7. A user equipment, UE, for transmitting a sounding reference signal, SRS, the UE comprising:

a transceiver connected with at least one processor; and

the at least one processor configured to:

receive, from a base station, BS, SRS configuration information related with configuration of SRS resources for antenna switching;

transmit, to the BS, a first SRS on a first antenna port of a first SRS resource based on the SRS configuration information; and

transmit, to the BS, a second SRS on a second antenna port of a second SRS resource based on the SRS configuration information,

wherein the first SRS resource and the second SRS resource are configured in a same slot,

wherein at least one empty symbol is configured between the first SRS resource and the second SRS resource based on a subcarrier spacing configured for the UE.

8. The UE of claim 7,

wherein the at least one empty symbol is configured as a gap for the antenna switching.

9. The UE of claim 7,

wherein the first SRS resource and the second SRS resource configured within a plurality of consecutive Orthogonal Frequency Division Multiplexing, OFDM, symbols of the same slot.

10. The UE of claim 7,

wherein the SRS configuration information further includes a number of antenna ports for transmission of the SRS.

11. The UE of claim 7,

wherein the at least one processor is further configured to receive, from the BS, information representing whether the at least one empty symbol is configured between the first SRS resource and the second SRS resource.

12. The UE of claim 7,

wherein the information is received through radio resource control, RRC, a medium access

control channel element, MAC CE, or downlink control information, DCI.