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(54) **MOBILE STATION, BASE STATION, AND COMMUNICATION CONTROL METHOD FOR  
INTER-FREQUENCY MEASUREMENTS WITH MINIMUM INTERRUPTION**

(57) A mobile station which configures a plurality of  
component carriers to communicate with a base station  
includes a transmission unit configured to transmit to the  
base station a terminal capability associated with  
non-gap measurement indicating whether the mobile sta-  
tion is capable of performing inter-frequency measure-  
ment using a radio frequency (RF) chain which is not  
used for a component carrier; a reception unit configured

to receive whether to allow the non-gap measurement  
from the base station; and a communication control unit  
configured to control communication according to a gap  
pattern of using a portion of an inter-frequency measure-  
ment duration for data communication, when the non-gap  
measurement is allowed.

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FIG.3

