This work is a description of the experiment conducted to understand the reception of LoRa in closed environments, such as a building.

The experiment was carried out on 04/05/2023, in the NW1 building of University of Bremen. The data's primary goal is to provide researchers with the understanding of factors such as distance, obstacles, interference with other wireless devices that dictates LoRa's performance.

The experiment setup phase was fairly simple, 4 gateways/receivers were deployed in different locations in the NW1 building.

The NW1 building consists of different blocks and multiple floors. From each location we sent exactly 4 packets.

Timestamps were noted for the sent packets.

We transmitted data through the various blocks and floors in order to compare the different RSSI (Received Signal Strength Indicator) and see how they vary accordingly.

The time stamps and respectives RSSI are stored in an excel file.

The data files are named in the format HHMM_Date_Month and saved as an Excel Worksheet, (.xlsx).

The Excel file consists of the following fields/ columns:

- Packet_id: tells the packet number that was sent through the LoRa device.
 This column represents a unique identifier for each packet of data. It helps to distinguish one packet from another.
- Date: This column indicates the date on which the experiment was conducted in the format [Year, Month, Date].
- Time: This column shows the time when a certain packet was sent. It uses the format [Hour, Minute, Second].
- GW1 GW4: The columns D to G comprises of different gateways/receivers.
 Their values indicate the signal strength from different gateways. For some instances, a data packet has been received by several gateways. For others the packet was not received by any gateway, hence indicated by a dash or (-).
- Loc: The column H indicates the location/block in the NW1 building from where the packet was sent.
- Floors: This column indicates the floor associated with the recorded data.

To filter our data of redundant information (extra packets sent), we have highlighted rows that were identified as accidental transmissions and having the lowest RSSI. The following rows were highlighted and thus can be deleted.

In the file 1230_4_5 the rows 62, 69, 75, 96, 114, 167, 180.