

Explanation of Model Difference

Applicant: Shanghai MXCHIP Information Technology Co., Ltd.

FCC ID: P53-EMC3183

They use the same Wi-Fi/BLE module EMC3183-E.

The difference is the external antenna used on them. The two antennas are shown in the figure.

EMC3183-E



Copper Antenna



PCB Antenna



The antenna used in the previous certification was a copper tube antenna, but this certification test uses a PCB antenna, as shown in the picture

Among them:

The similarity between the two antennas is that the operating frequency is 2400~2483.5MHz and the antenna gain is 2dBi.

The difference lies in the shape and material.

Copper tube antennas have strong directionality and high gain, making them suitable for high demand communication scenarios. The layout of copper wire antennas is diverse and can be installed at any position, making it easy to hide. However, copper tube antennas are relatively limited in deployment due to their difficulty in bending, and usually need to be placed at specific positions and angles.

Signature:

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