



04/27/2022

Telecommunication Certification Body  
UL International (UK) Ltd.  
Units 1-3, Horizon  
Wade Road  
Kingsland Business Park  
Basingstoke  
Hampshire  
RG24 8AH  
United Kingdom

Subject: Class 2 Permissive Change (C2PC) Request

FCC ID: 2A2CI-INF001-CL

To whom it may concern

In accordance with KDB 178919 D01 and FCC rule part §2.1043: Changes in Certified Equipment, InFarm Indoor Urban Farming GmbH hereby requests a class 2 permissive change to FCC ID: 2A2CI-INF001-CL as detailed below:

The WiFi module is used only with Infarm host products and will not be sold on the open market.

The cellular module (FCC ID: 2A2CI-INF001-CL) will be integrated together with WiFi module (FCC ID: 2A2CI-INF001-WF) into host product 'Infarm Gateway'. These two modules can transmit simultaneously.

The Bluetooth BR operation and 2G cellular operation have been disabled by software.

The addition of ferrites to the DC supply cable when installing the module into the Infarm Gateway. Details are included in the confidential Operational Description document folder.

The Infarm Gateway uses two antenna types: Delock 12676, or MobileMark SMW-414. These antennas are of a similar design and operate over the WiFi and cellular bands.

The highest gain antenna SMW-414 has been used with the Infarm Gateway for the following testing:

- FCC Part 22 (3G 850MHz / LTE 850MHz)  
FCC Part 24 (3G 1900 MHz / LTE 1900 MHz) FCC Part 27 and RSS 139  
(1700 AWS) applies to 700MHz band also 47CFR15.207 and 47CFR15.407  
and RSS-247 Issue 2, February 2017 (Ref ANSI C63.10:2013)  
Intermodulation tests on Gateway box + metal planes:
  - (1) 5GHz wi-fi + 3G (850MHz)
  - (2) 5GHz wi-fi + 3G (1900MHz)
  - (3) BLE + LTE B2 1900
  - (4) 2.4GHz wi-fi + LTE B4 1700MHz
  - (5) 5GHz wi-fi + LTE B5 850MHz
  - (6) BLE + LTE B5 850MHz
  - (7) 2.4GHz wi-fi + LTE B7 2600MHz
  - (8) 2.4GHz wi-fi + LTE B12 700MHz
  - (9) 5GHz wi-fi + LTE B12 700MHz
  - (10) BLE + LTE B12 700MHz
  
- RF exposure compliance has been evaluated in accordance with FCC Part 2.1091.

Yours faithfully,

Ibrahim Oguz Yildirim  
R&D Compliance Engineer

