Radiation Hazard Assessment

Date	5th July 2023
FCC ID	UAUWIRELESSCML
Brand Name	ICT
Model Number	CME DFBT
Product	Wireless Lock Product
Manufacturer	Integrated Control Technology Ltd. (ICT)
Country of Origin	New Zealand
Serial Number	Sample not serialised

Product Description:

The device that was tested is a Wireless Door Lock device which is triggered using an access card that operates on 13.560 MHz

The device also contains a Bluetooth device.

The product is powered using a 4.5 Vdc internal battery (3 x 1.5 Vdc dry cell batteries) this is replaced every two or three years.

FCC part 15 testing as detailed in EMC Technologies NZ Ltd test report number 230307.1 dated 9th June 2023 shows the following:

13.560 MHz transmitter with a field strength of 35.7 dBuV/m (Quasi Peak detector) at a test distance of 10 metres

This equates to a radiated power of -47.3 dBm which is the same as 0.00002 mW

2.4 GHz Bluetooth transmitter with a field strength of 86.6 dBuV/m (Peak) at a test distance of 3 metres.

This equates to a radiated power of -8.6 dBm which is the same as 0.13710 mW

These two transmitters comply with the field strength limits contained with FCC Part 15 sections 15.225 and 15.249.

As per FCC KDB 447498 D04 and Section 2.1091 radio frequency transmitters are required to be operated in a manner that ensures the public is not exposed to high levels of RF energy.

In normal use the transmitters in this device are likely to come in close contact with the human body, the hand, when cards are placed in or near the device when a transaction is carried out.

As the 13.560 MHz and 2.4 GHz transmitters individually have radiated powers below 1 mW they will be exempt.

When the transmitters are summed (0.00002 mW + 0.1371 mW) the total will also be less 1 mW (0.13712 mW)

This device will therefore be exempt as the power level will be less than 1 mW.

Result: Complies