Radiation Hazard Assessment

Date	22nd November 2023
FCC ID	2AC7B-G6400OPT
Brand Name	Invenco
Model Number	G6-400
Product	Payment Terminal
Manufacturer	Invenco Group Ltd
Country of Origin	New Zealand
Serial Number	SBLB0006

Product Description:

The device tested is Payment Terminal with a number of features that would typically be used for the payment of fuel at a petrol station.

The device contains a NFC Card Reader that operates on 13.560 MHz

The product is powered at 24 Vdc using a power supply that is connected to the 120 Vac 60 Hz Public AC mains supply.

FCC part 15 testing as detailed in EMC Technologies NZ Ltd test report number 230104.2 dated 15th August 2023 shows the following:

13.560 MHz transmitter with a field strength of 58.2 dBuV/m (Quasi Peak detector) at a test distance of 10 metres

This gives a calculated transmitter power of 2.2023 uW or 0.0022 mW.

Calculations were made using the formula:

Power (watts) = ((field strength (V/m) x distance (metres)) ^{2})/30

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 transmitter in this device may 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 radiated power is below 1 mW this transmitter will be below the SAR testing threshold and therefore no further action will be required.

Result: Complies