

## Radiation Hazard Assessment

|                                |                                                                                             |
|--------------------------------|---------------------------------------------------------------------------------------------|
| <b>Date</b>                    | 10 <sup>th</sup> September 2026                                                             |
| <b>FCC ID</b>                  | 2AC2O-CHU200TW                                                                              |
| <b>Brand Name</b>              | Windcave                                                                                    |
| <b>Brand Name</b>              | Windcave                                                                                    |
| <b>Product</b>                 | Point of Sale (POS) Device                                                                  |
| <b>Model Number</b>            | CHU200TW REL D                                                                              |
| <b>Manufacturer</b>            | Windcave Limited                                                                            |
| <b>Country of Origin</b>       | New Zealand                                                                                 |
| <b>Serial Number(s)</b>        | 3426130299                                                                                  |
| <b>Firmware version</b>        | v2.0.0.2                                                                                    |
| <b>Hardware version</b>        | CHU200T-D-W0-00                                                                             |
| <b>Antenna type and gain</b>   | The NFC antenna is a 2-turn loop antenna around the perimeter of the LCD with gain of zero. |
| <b>Rated supply voltage</b>    | 12 VDC representative power supply powered at 120 VAC                                       |
| <b>Modulation description</b>  | ASK                                                                                         |
| <b>Highest clock frequency</b> | 12 MHz crystal<br>CPU with 168 MHz internal PLL<br>500 MHz MIPI DSI                         |
| <b>NFC Frequency</b>           | 13.560 MHz                                                                                  |
| <b>Modules installed</b>       | NIL                                                                                         |
| <b>NFC Frequency</b>           | 13.560 MHz                                                                                  |

.

The device tested is an Integrated Payment Terminal with a number of features that would typically be used for the payment in a retail situation.

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

The product is powered at 12 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 260402.2 dated 12<sup>th</sup> August 2026 shows the following:

When transmitting on 13.560 MHz a field strength of 49.6 dBuV/m was measured at 10 metres which gives a calculated transmitter power of 0.000304 mW.

Calculations were made using the formula:

$$\text{Power (watts)} = ((\text{field strength (V/m)} \times \text{distance (metres)})^2) / 30$$

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