## **INTERTEK TESTING SERVICE**

## MPE Analysis Report

The Equipment Under Test (EUT) is a Toast Chipper 2X BT which is a POS device (point of sale device).

The applicant declared that Bluetooth function is not provided by this product.

NFC Portion (13.56MHz single channel)

Antenna Type: Internal, Integral

Antenna Gain: 0dBi

Nominal RF power: 0dBm

Maximum allowed production tolerance: +0dB / -10dB

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For Maximum Permissible Exposure (MPE) evaluation of the unit, the maximum power density at 20 cm from this transmitter shall be less than the General Population / Uncontrolled MPE limit in OET Bulletin 65 and meet the requirement listed in KDB447498.

<u>For the NFC portion</u> of the EUT, the measured powers among all the measured channels were within its production tolerance. The antenna gain is 0 dBi = 1 (num gain) and its maximum source-based time-averaging duty factor is 100%. From these data and its operating configuration, the exposed power density at a distance (R) of 20cm from the center of radiation of the antenna can be calculated according to OET Bulletin 65 as follow:

The EIRP radiated power

- = conducted power (with maximum tolerance) + antenna gain
- = 0 dBm + 0 dBi
- = 0 dBm (1 mW)

The radiated (EIRP) source-based time-averaging output power

- = (1 \* 1) mW
- = 1 mW

The power density at 20 cm from the antenna

- $= EIRP / 4\pi R^2$
- = 0.0002 mW cm-2

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