

Analysis Report

Report No.: 20010329HKG-001

The Equipment Under Test (EUT) is a **Tokenized Payment Device** (OV Valet™) which is a low-cost contactless payment IoT (Internet of Things) device.

The applicant declared that only Bluetooth BLE is used in the EUT.

The MST operates in the frequency range between 0.8 kHz to 5 kHz (below 9kHz).

The NFC passive tag operates at 13.56MHz (single channel).

2.4GHz Bluetooth portion:

Modulation Type: GFSK

Antenna Type: Integral, Internal (PCB Trace)

Antenna gain is -2dBi

EIRP range is -4dBm to +4dBm

Frequency Range: 2402MHz - 2480MHz, 2MHz channel spacing, 40 channels

According to the KDB 447498:

Conducted Power = EIRP – antenna gain
= 4dBm + 2dBi = 6dBm = 3.98 mW

The SAR Exclusion Threshold Level:
= $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$
= $3.0 * 5 / \text{sqrt}(2.480)$ mW
= 9.53 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.