

# FCC RF Exposure

EUT Description: **Tattoo machine**

Model No.: **T100**

FCC ID: **2A37I-T100**

## 1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,

Where:

Result =  $P/D \cdot \sqrt{F}$

F = the RF channel transmit frequency in GHz

P = Maximum turn-up power in mw

D = Min. test separation distance in mm

## 2. Test Result of RF Exposure Evaluation

|     | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power mW | Min test separation distance mm | Result | Limit | SAR Test Exclusion |
|-----|--------------------|---------------------|----------------------|---------------------------------|--------|-------|--------------------|
| BLE | 1.15               | 0.5±1(1.5)          | 1.413                | 5                               | 0.438  | 3.0   | Pass               |

Note:

PK Output power = conducted power.

Conducted power see the test report **HK2201100120-E**

antenna gain = 2dBi

Per KDB 447498 D01, when the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.438 which is  $\leq 3$ , SAR testing is not required.

Note: Exclusion Thresholds Results =  $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})}$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Distance = 5mm