## RF exposure information

FCC ID: 2AG36MANGO-C500

## 1. Introduction:

The EUT is designed to be used in mobile exposure conditions. This product is a transmitter operated in 13.56MHz frequency.

## 2. Output power considerations:

Worst case output power transmitter ( $E_{max}$ ): 85.4dB $\mu$ V/m@3m Pt=( $E^*d$ )/ (30 x gt) = 0.002W = 2mw Pt=transmitter output power in watts; gt=numeric gain of the transmitting antenna (unites/dBi) = 1/0dBi; E=electric field strength in V/m = (10^(83.19/20))/1000000 = 0.019 V/m d=measurement distance in meters (m) = 3 m

## 3. Compliance criteria:

According to 447498 D01 General RF Exposure Guidance v05 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

f(GHz) is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and mm before calculation

Calculate:

$$(2/5)$$
 \*  $(0.01356)$   $^{0.5}$  =  $0.047$  < 3 for 1g SAR

Then SAR evaluation is not required.