## **NFC Exposure Requirements**

Product Description: NuStar 65 Portable Data Collector

Model No.: Nustar65

FCC ID: 2ATAN-NUSTAR65

According to the KDB 447498 D04 V01, clause 1.4.2, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

Tx frequency: 13.56 MHz Type of Modulation: ASK

Antenna Type: FPCB Antenna

Nominal rated field strength:  $48.02 \text{ dB}\mu\text{V/m}$  at 3 meter

Based on the Maximum allowed field strength was  $48.02~dB\mu V/m$  at 3m in frequency 13.56MHz, thus;

The EIRP =  $[(FS*D) ^2*1000 / 30] = 0.000019mW$ 

The SAR Exclusion Threshold Level for 13.56MHz when the minimum test separation distance is < 50mm:

 $= [474 * (1 + \log 100/f(MHz))]/2$ 

= 442.65 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.