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Maximum Permissive Exposure

FCC ID: H3RTLVRFID02
Product Name: RFID module
M/N: TLVRFID02

1. According to FCC KDB Publication KDB447498 D04V01, Section 2.1.2, 1-mW Test Exemption Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

2. MPE Calculation
We, declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

G.2 Field strength approach (linear terms)

$$\mathrm{EIRP} = p_t \times g_t = (E \times d)^2 / 30$$

where

p_t	is the transmitter output power in watts
g_t	is the numeric gain of the transmitting antenna (dimensionless)
E	is the electric field strength in V/m
d	is the measurement distance in meters (m)

$$\mathrm{ERP} = \mathrm{EIRP} / 1.64 = (E \times d)^2 / (30 \times 1.64) = (E \times d)^2 / 49.2$$

where all terms are as previously defined.

According to the actual measurement,
the125kHz highest power output (P) is **0.000009016mW**;
the 125kHz. power density (S) is **0.000000001795 mW/cm²**.

The test result is **0.000000001795 mW/cm²**. ＜1mW, hence the EUT is excluded from SAR evaluation