



Certification Exhibit

FCC ID: SDBIDTB005

FCC Rule Part: 47 CFR Part 2.1091

TÜV SÜD Project Number: 72141544.200

Manufacturer: Sensus Metering Systems, Inc.
Model: IDTB005

RF Exposure

General Information:

Applicant: Sensus Metering Systems, Inc.
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Monopole
 Antenna Gain: 2 dBi
 Maximum Transmitter Conducted Power: 30.09 dBm, 1021 mW
 Maximum System EIRP: 32.09 dBm, 1618 mW
 Exposure Conditions: 20 centimeters or greater

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Table 1: MPE Calculation

Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
901	30.09	0.60	1020.94	2	1.585	20	0.322