America

Zigbee Certification Exhibit

FCC ID: SDBIDTB006

FCC Rule Part: 47 CFR Part 2.1091

TÜV SÜD Project Number: 72141545.200

Manufacturer: Sensus Metering Systems, Inc.
Model: IDTB006

RF Exposure

General Information:

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

Technical Information:

Antenna Type: PCB Inverted F
Antenna Gain: 2.2 dBi
Maximum Transmitter Conducted Power: 23.07 dBm, 202.77 mW
Maximum System EIRP: 25.27 dBm, 336.51 mW
Exposure Conditions: 20 centimeters or greater

MPE Calculation

The Power Density (mW/cm^2) 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)
2405	23.07	1.00	202.77	2.2	1.660	20	0.067