



Certification Exhibit

FCC ID: SDBVGBM4700

FCC Rule Part: 47 CFR Part 2.1091

TÜV SÜD Project Number: 72154722

Manufacturer: Sensus USA, Inc.
Model: VGBM4700

RF Exposure

General Information:

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

Technical Information:

Antenna Type: External
 Antenna Gain: 5.15 dBi; Overall Antenna Assembly Gain 3.2dBi*
 Maximum Transmitter Conducted Power: 37.4 dBm, 5495.41 mW
 Maximum System EIRP: 40.6 dBm, 11481.54 mW
 Exposure Conditions: 39 centimeters or greater

* Overall antenna assembly gain based on specified cable loss provided by manufacturer.

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/Cm ²)	Radio Power (mW)	Overall Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
930.5	37.4	0.62	5495.41	3.2	2.089	39	0.601