



## **Certification Exhibit**

**FCC ID: ODB-PS015SA001**

**FCC Rule Part: 47 CFR Part 2.1091**

**TÜV SÜD Project Number: 72135446**

Manufacturer: ValidFill, LLC  
Model: PS015SA001

## **RF Exposure**

**General Information:**

Applicant: ValidFill, LLC  
 Device Category: Mobile  
 Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Type: Segmented Magnetic Antenna  
 Antenna Gain: 1 dBi  
 Maximum Transmitter Conducted Power: 26.07 dBm, 404.5800 mW  
 Maximum System EIRP: 27.07 dBm, 509.3300 mW  
 Exposure Conditions: 20 centimeters or greater

**MPE Calculation**

The Power Density (mW/cm<sup>2</sup>) is calculated as follows:

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

Where:

- S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)
- 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 <sup>2</sup> ) | Radio Power (mW) | Antenna Gain (dBi) | Antenna Gain (mW eq.) | Distance (cm) | Power Density (mW/cm <sup>2</sup> ) |
|--------------------------|-------------------|---|------------------|--------------------|-----------------------|---------------|-------------------------------------|
| 902.75                   | 26.07             | 0.60                                      | 404.58           | 1                  | 1.259                 | 20            | 0.101                               |