

FCC ID: 2AGBO-PECO

FCC SAR Test Exclusion

The Device is a wireless device for tracking shipping pallets. Under Section 2.1091(b) the product is a Mobile device, defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

Per OET Bulletin 65 Edition 97-01:

**Appendix A, Limits for Maximum Permissible Exposure (MPE)**

**Table 1(b): Limits for General Population/Uncontrolled Exposure**

Frequency Range (MHz)	Power Density (mW/cm <sup>2</sup> )
0.3 – 1.34	100
1.34 – 30	180/f <sup>2</sup>
30 – 300	0.2
300 – 1500	f/1500
1500 – 100,000	1.0

**f = 907.7**

**S = 0.603 mW/cm<sup>2</sup>**

**Section 2: Prediction Methods, Equations for predicting RF fields**

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

Where: S = Power Density, in mW/square centimeter

EIRP = Effective Isotropically Radiated Power, in mW

R = Distance to the center of radiation of the antenna, in centimeters

$$S = \frac{395.4}{5026.5} = 0.079 \text{ mW/cm}^2$$

Since calculated value is less than the limit derived from Table 1(b) the, product complies with FCC's RF radiation exposure limits for general population as a mobile device without the need for SAR evaluation.