US Tech Test Report: FCC Part 15.247/ RSS 210
Report Number: 14-0123
Customer: Paksense
FCC ID: WPEPSASII-01
IC: 8031A-PSASII01
Issue Date: September 8, 2014
Model: PSASII-01

Maximum Public Exposure to RF (MPE)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm^2 at a distance, d, of 20 cm from the EUT.

Therefore, for:

Measured maximum output power: + 3.5 dBm
Highest Gain Antenna (Dipole antenna) = 2.0 dBi

Peak Power (Watts) = 0.002 (Manufacture's claimed highest output power)
Gain of Transmit Antenna = 2.0 dB$_i$ = 1.585, numeric (from Table 4 of Test Report)
d = Distance = 20 cm = 0.2 m

$$\mathbf{S} = (PG/ 4\pi d^2) = EIRP/4A = (0.002*1.585)/4*\pi*0.2*0.2$$
$$= 0.00317/0.5027 = 6.3065 \text{ W/m}^2$$
$$= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2)$$
$$= 0.63065 \text{ mW/cm}^2$$

which is < less than 1.0 mW/cm^2