

## RF Exposure

Test Report #:	3152098	Test Area:	PW 1 (3M)	Temperature:	24.2	°C
Test Method:	FCC 47 CFR part 15 subpart C	Test Date:	05-May-2008	Relative Humidity:	21.3	%
EUT Model #:	Spider III+	EUT Power:	110 VAC 60Hz	Air Pressure:	98.4	kPa
EUT Serial #:	001					
Manufacturer:	Goliath Solutions					
EUT Description:	Spider-III+ System					
Notes:						

The following limit was calculated from table 1 (B) Limits for General Population/Uncontrolled Exposure in FCC part 1.1310:

$$L=f/1500$$

Using the lowest transmit frequency from the EUT of 905MHz

$$L=0.603\text{mW/cm}^2$$

The following calculation was used to determine compliance to the above limit. The calculation is from FCC OET bulletin 65.

The following assumes the gain of the antenna to be  $\leq 1$ .

$$S=EIRP/4\pi R^2$$

Where:

S=power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

R=distance to the center of radiation of the antenna (appropriate unit, e.g., cm)

In this case 20cm will be used.

EIRP=equivalent (or effective) isotropically radiated power

In this case 331mW will be used. This is calculated from the maximum field strength measured at 3m from Tx port 4 on the Low Channel.

$$S=.065 \text{ mW/cm}^2$$