

6.11 Safety exposure levels

6.11.1 Standard Applicable: FCC 15.319(i)

UPCS devices are subject to the radio frequency radiation exposure requirements specified in FCC parts 1.1307 (b), 2.1091 and 2.1093, as appropriate. All equipment shall be considered to operate in a "general population / uncontrolled environment. For portable devices tests according to IEEE 1528 are requested, if applicable.

6.11.2 Measurement procedure

Consideration of radio frequency radiation exposure for EUT is done as

SAR test according IEEE1528 (for PP)	<input type="checkbox"/>
MPE calculation as below (for FP, Repeater)	<input checked="" type="checkbox"/>

SAR test results: not applicable

MPE calculation:

The EUT is considered as a mobile device according to OET Bulletin 65, Edition -97-01. Therefore distance to human body of min. 20 cm is determined.

The limit of Power density for General Population / Uncontrolled Exposure is 1.0 mW/cm².

Formula:

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

$$\text{EIRP} = \text{Output power} + \text{Ant. gain}$$

Calculation:

EIRP	Radiated Power (dBm)	21.89
EIRP	Radiated Power (mW)	154.5
R	Distance (cm)	20
S	Power Density (mW/cm ²)	0.031

6.11.3 Results : Complies