## 5. Environmental evaluation and exposure limit according to FCC part 1, §1.1307, §1.1310

Limit for power density for general population/uncontrolled exposure is 0.6 mW/cm$^2$.
The power density calculation is $S = [(Pt/0.6)/4\pi r^2]$.
Where:
Pt - The transmitted power (EIRP) (mW)
r - The distance from the unit. (cm)
The limit 0.6 mW/cm$^2$ can be calculated from the above based on the following data:
Pt- the transmitted power whish is equal to the maximum peak output power 12.93 dBm plus internal antenna gain 5 dBi . The maximum peak EIRP = 17.93 dBm = 62.1 mW
Maximum allowed distance "r", where RF exposure limits may not be exceeded,
r = SQRT(103.5/4π) and is more than 3 cm from the antenna main lobe.

## 6. EUT block diagram and test configuration.

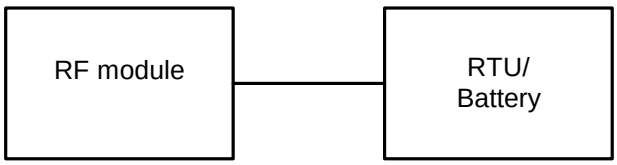


**Fig. 1. EUT block diagram.**

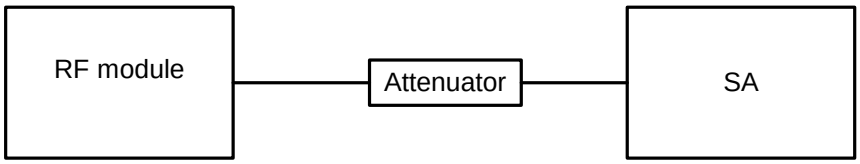


**Fig. 2. Conducted measurements block diagram.**