**Prediction of MPE limit at a given distance**

Equation from IEEE C95.1

$$S = \frac{EIRP}{4\pi R^2} \text{ re - arranged } R = \sqrt{\frac{EIRP}{S4\pi}}$$

Where:

S = power density
R = distance to the centre of radiation of the antenna
EIRP = EUT Maximum power

Note:

The EIRP was calculated by addition of the maximum conducted carrier power (9.1dBm) and the maximum antenna gain (0dBi).

Result

| Prediction Frequency (MHz) | Maximum EIRP (mW) | Power density limit (S) (mW/cm$^2$) | Distance (R) cm Required to be less than 0.61 mW/cm$^2$ |
|---|---|---|---|
| 915.8 | 8.13 | 0.61 | 1.03 |