

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Mavenir Dual-band B25B66 RRU
Model Name	MR44MOA
FCC ID	2AWAS-901-00094

2. EVALUATION METHOD AND LIMIT

FCC Requirement

According to FCC 1.1307(b), fixed RF source must comply with the following applicable limit for maximum permissible exposure (MPE) specified in FCC 1.1310:

Equipment Use	Frequency Range	Power Density [mW/cm ²]	Average Time [min]
General Population / Uncontrolled Exposure	1.5 – 100GHz	1	30
Occupational / Controlled Exposure	1.5 – 100GHz	5	30

3. ASSESSMENT RESULT

Frequency (MHz)	Maximum EIRP (dBm)	Maximum EIRP [mW]	Distance [cm] Power Density = 1mW/cm ²	Proposed Minimum RF Safety Distance [cm]
2120 MHz ~ 2180 MHz (LTE Band 66) (Ant1+2+3+4)	57.55	568852.93	212.76	212

Note: 1) Maximum turn-up output power is 46dBm per each port declared by the manufacturer.

2) The distance [cm] is calculated according to the Friis formula: $D = \sqrt{EIRP / (4\pi * S)}$,

Where S = power density in mW/cm²

EIRP = Effective Isotropic ally Radiated Power in mW

EIRP = Antenna Port Conducted Power (45.96dBm) + Antenna Gain (18.4 dBi) = 64.36dBm

Calculated distance:

$$D = \sqrt{EIRP / (4\pi * S)}$$

$$D = \sqrt{45267.771 \div (4\pi * 1)} = 212.76 \text{ cm}$$

3) Only the worst case recorded.

4. CONCLUSION

The device complies with the FCC RF exposure requirements with minimum RF safety distance of 212cm for General Population / Uncontrolled Exposure