## 6 RF Exposure

- Table 6-1 gives a summary of the expected radiation exposure levels versus
- distance from the transmitter antenna using equation (6-1). The maximum
- EIRP power in Table 5-2 is used in evaluation of the RF exposure level.

$$S = \frac{EIRP}{4\pi D^2} \tag{6-1}$$

where S is power density at distance D from the antenna. For near field,

equation (6-1) could be used for "worst case" or conservative prediction1.

Table 6-1. RF exposure level versus distance

Distance (cm)	10	50	100
Power density (mW/cm <sup>2</sup> )	0.259	0.010	0.003

- The transmission antenna shall be mounted on the roof of vehicle and it will be
- at least 1 meter apart from a driver who controls the transmitter through a
  - display in the vehicle. Therefore, the RF exposure level will complies with the
- uncontrolled exposure environment defined by IEEE STD C95.1 requirement.

QUALCOMM Proprietary Page 6-1

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5

11

<sup>&</sup>lt;sup>1</sup> FCC OET Bulletin, No. 65, Edition 97-01, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", August 1997