

	 MARKING ELECTROMAGNETIC COMPATIBILITY ELECTRICAL SAFETY LASER SPECTROSCOPY ENVIRONMENTAL PHYSICS	G.S.D. S.r.l. Certified in accordance with UNI EN ISO 9001:2008 by TÜV Rheinland Italia S.r.l. Certificate N. 39 00 1850509
G.S.D. S.r.l. PISA - Italy	Technical file n. 15850-TCF	Rev. 00
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1. MAXIMUM PERMISSIBLE EXPOSURE

Prediction of Maximum Permissible Exposure (MPE) limit at a given distance has been performed according to Prediction Methods described in Section 2 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g. mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna (appropriate units, e.g. cm)

MPE limit has been calculated according to General Population/Uncontrolled rules.

1mW/cm² max at 20 cm of distance

Result

Frequency	MPE Limit	Maximum Conducted Power	Antenna Gain	Maximum EIRP	Distance	Maximum Power Density at 20 cm
(MHz)	($\frac{mW}{cm^2}$)	(dBm)	(dBi)	(dBm)	(cm)	($\frac{mW}{cm^2}$)
2400	1	17.7	-1.9	16.8	20	0.0077

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