



RF Exposure evaluation for mobile use

FCC ID: XPYVERAP174

RF Exposure Evaluation

Standards
OET Bulletin 65 Edition 97-01 August 1997
FCC 47 CFR §1.1307
FCC 47 CFR §1.1310

Test limits

As specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure.

Frequency range (MHz)	Power density (mW/cm ²)
300 – 1,500	f/1500
1,500 – 100,000	1.0

Equation OET bulletin 65, page 18, edition 97-01:
$$S = \frac{PG}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$$

Where:

S = power density

P = power input to the antenna

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

R = distance to the center of radiation of the antenna

Max. measured conducted power is 19.8 dBm

Antenna gain is 5.9 dBi

The tune-up tolerance is +/- 2 dB

Band	Mode	Duty Cycle	Frequency (MHZ)	Max. Cond. output power + Tune-up (dBm)	Equivalent conducted output power (mW)	FCC MPE Limit (mW/cm ²)	MPE Value using Max gain of 5.9 dBi	Separation distance (cm)	Verdict
WLAN 5	OFDM	100%	5860	21.80	151.36	1.000	0.1171	20	Pass

Yours sincerely,

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