



RF Exposure evaluation for mobile use

FCC ID: 2AK48-BST-0001

RF Exposure Evaluation

Standards
OET Bulletin 65 Edition 97-01 August 1997
FCC 47 CFR §1.1307
FCC 47 CFR §1.1310
RSS-102, issue 5

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

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

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

Band	Mode	Duty Cycle	Frequency (MHz)	Maximum Conducted output power (dBm)	Equivalent conducted output power (mW)	FCC MPE Limit (mW/cm ²)	MPE Value using Max gain of 1.6 dBi	Separation distance (cm)	Verdict
BLE	GFSK 1-DH1	100%	2402.0	-2.9	0.513	1.000	0.0001	20	Pass

Yours sincerely,

Dirk Bratsch