

RF Exposure Statement

1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3 - 1.34.....	614	1.63	*(100)	30
1.34 - 30.....	824/f	2.19/f	*(180/ f ²)	30
30 - 300.....	27.5	0.073	0.2	30
300 - 1500.....			f/1500	30
1500 - 100.000.....			1.0	30

F = frequency in MHz

* = Plane-wave equivalent power density

2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

S = Power density

P = power input to 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

2-1. CDMA BC10 BAND

Max Peak output Power at antenna input terminal (dBm)	25.000
Max Peak output Power at antenna input terminal (mW)	316.228
Prediction distance (cm)	20.000
Prediction frequency (MHz)	820.500
Antenna Gain(typical) (dBi)	5.120
Antenna Gain(numeric)	3.251
Power density at prediction frequency (mW/cm ²)	0.20452
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	0.547

2-2. CDMA BC1 BAND

Max Peak output Power at antenna input terminal (dBm)	25.0000
Max Peak output Power at antenna input terminal (mW)	316.228
Prediction distance (cm)	20.00000
Prediction frequency (MHz)	1851.25000
Antenna Gain(typical) (dBi)	6.12000
Antenna Gain(numeric)	4.09261
Power density at prediction frequency (mW/cm ²)	0.257472
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	1.00000

2-2. CDMA BC0 BAND

Max Peak output Power at antenna input terminal (dBm)	25.000
Max Peak output Power at antenna input terminal (mW)	316.228
Prediction distance (cm)	20.000
Prediction frequency (MHz)	836.600
Antenna Gain(typical) (dBi)	5.120
Antenna Gain(numeric)	3.251
Power density at prediction frequency (mW/cm ²)	0.20452
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	0.558

3. RESULTS

The power density level at 20 cm is 0.20452 mW/cm², which is below the controlled exposure limit of 0.547 mW/cm² at 820.5 MHz for CDMA BC10 band.

The power density level at 20 cm is 0.257472 mW/cm², which is below the uncontrolled exposure limit of 1.0 mW/cm² at 1851.25 MHz for CDMA BC1 band.

The power density level at 20 cm is 0.20452 mW/cm², which is below the controlled exposure limit of 0.558 mW/cm² at 836.6 MHz for CDMA BC0 band.