

12 October 2011

RF exposure calculation for FCC ID:T62-IPREM15, IC ID:4397A-IPREM15

RF Exposure Calculations:

This device meets the output power threshold in KDB 447498 of 60/f(GHz) in which case no SAR or RF exposure evaluation is required.

RF Power Measurement

The field strength level was taken from NCEE test report R0330411-01-01D.

Frequency (MHz)	Maximum Field Strength Level at 3 meters dB μ V/m	Maximum EIRP mW
2451	95.13	0.98

Power Limit = 60/f (mW)	24.48
Frequency (f) (GHz)	2.451
EIRP [mW]	17.10

$$\text{EIRP [W]} = \{(\text{Field Strength [E}_{V/m}] * \text{measurement distance [m]})^2\} / 30$$

Notes:

1. Output power was measured in peak output power. Because it can be assumed that the time-averaged output power as specified in KDB 447498 will be less than a peak output power, compliance with the limit can be presumed.

References:

1. FCC OET Bulletin 65, Edition 97-01
2. FCC Supplement C to OET Bulletin 65, edition 01-01
3. IEEE C95.1, 1999
4. KDB 447498