



RF exposure requirements – FCC ID: QIPTC65I

Dear Examiner,

Siemens Cellular Engine TC65i is marketed without defined antenna. According to the limit in 47 CFR 1.1310, we get the value of the maximum antenna gain as follow:

The maximum measured power output in the 850 MHz band is 1866.38 mW (32.71 dBm, see 7layers test report MDE_Siem_0714_FCCb).

The maximum permissible exposure is defined in 47 CFR 1.1310 with 0.55773 mW/cm².

The transmitter is using indoor antennas that operate at 20 cm or more from nearby persons.

The maximum antenna gain G is calculated using the general equation:

$$S = P \cdot G / 4\pi R^2$$

$$S = 0.55773 \text{ mW/cm}^2$$

$$P = 1866.38 \text{ mW}$$

$$R = 20 \text{ cm}$$

$$\pi = 3.1416$$

Solving for G; the maximum antenna gain is 1.7669 dBi.

Best Regards
7 layers AG

A handwritten signature in blue ink that reads 'Holger Leutfeld'.

Holger Leutfeld