Product name: Wifi router
Manufacturer: SAGEMCOM

FCC ld: VW3FAST5260

## Prediction of MPE limit at a given distance

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

$$S = \frac{PG}{4\pi R^2}$$

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

## Transmitter n<sup>a</sup>

Maximum peak output power at the antenna terminal:28.90 (dBm)Maximum peak output power at the antenna terminal:776.2471166 (mW)Antenna gain(typical):6.4 (dBi)Maximum antenna gain:4.365158322 (numeric)Prediction distance:20 (cm)

Prediction frequency: 2400 (MHz)

Power density at prediction frequency: 0.674109 (mW/cm^2)

Maximum allowable antenna gain: 8.112698554 (dBi)

Note: Transmitter n°1 includes the 3 antennas for 2.4GHz

Equivalent maximum gain for these 3 combinated antenna has been measured and found equal to 6.4dBi 28.9 dBm is the maximum power delivered to the 3 combinated antennas

## Transmitter n<sup>2</sup>

Maximum peak output power at the antenna terminal:

Maximum peak output power at the antenna terminal:

Antenna gain(typical):

Maximum antenna gain:

Prediction distance:

Prediction frequency:

MPE limit for uncontrolled exposure at prediction frequency:

22.20 (dBm)

165.9586907 (mW)

5.011872336 (numeric)

7 (dBi)

5.011872336 (numeric)

Prediction frequency:

1 (mW/cm^2)

Power density at prediction frequency: 0.165474 (mW/cm^2)

Maximum allowable antenna gain: 14.81269855 (dBi)

Note: Transmitter nº2 includes the 3 antennas for 5GHz

Equivalent maximum gain for these 3 combinated antenna has been measured and found equal to 7dBi 22.2 dBm is the maximum power delivered to the 3 combinated antennas

## Transmitter nº1 + Transmitter nº2:

[Pd(1)/LPd(1)] + [Pd(2)/LPd(2)] = 0.83958