



RF EXPOSURE EVALUATION

According to FCC 1.1310 : The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)
LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time
(A) Limits for Occupational / Control Exposures				
300-1,500	--	--	F/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Population / Uncontrol Exposures				
300-1,500	--	--	F/1500	6
1,500-100,000	--	--	1	30

FRIIS FORMULA

Friis transmission formula : $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

EUT OPERATING CONDITION

A software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

**Ecom Sertech Corp.**

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing
Rd., Chu Tung Chen, Hsinchu, Taiwan 310, R.O.C
TEL: 886-3-5918012 FAX : 886-3-5825720

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Page 2 of 2**TEST RESULT OF RF EXPOSURE EVALUATION**

Test Item : RF Exposure Evaluation Data

Test Mode : Normal Operation

ANTENNA GAIN

Antenna Gain : The maximum Gain measured in fully anechoic chamber is 2dBi
linear scale.

**OUTPUT POWER INTO ANTENNA & RF EXPOSURE
EVALUATION DISTANCE**

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power density in mW/cm ² at Friis formula when r=20cm(mW/cm ²)	LIMITS
CH1	2412.00	17.42	0.017407	1
CH6	2437.00	17.39	0.017287	1
CH11	2462.00	17.36	0.017168	1

The power density Pd (4th column) at a distance of 20cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm². So, RF exposure limit warning or SAR test are not required.