

Ecom Sertech Corp.

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FCC ID : Q87-WCG200 Report No. : ER03-07-009FRF

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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	Electric Field	Magnetic Field	Power Density	A waya ga Tima		
(MHz)	Strength (V/m)	Strength (A/m)	(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 : $Pd = (Pout*G)/(4*pi*r^2)$

Where

 $Pd = power density in mW/cm^2$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

Pd id 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.

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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

For Wireless 802.11b mode

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power density in mW/cm2 at Friis formula when r=20cm(mW/cm2)	LIMITS
CH1	2412.00	14.25	0.008389	1
CH6	2437.00	13.60	0.007223	1
CH11	2462.00	11.83	0.004805	1

For Wireless 802.11g mode

Tor Wholess coz. TS mode					
Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power density in mW/cm2 at Friis formula when r=20cm(mW/cm2)	LIMITS	
CH1	2412.00	21.16	0.041184	1	
CH6	2437.00	20.79	0.037821	1	
CH11	2462.00	20.33	0.034020	1	

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