FCC RF EXPOSURE REPORT

Jiangmen Dascom Computer Peripherals Co.,Ltd.

Label & Barcode Printer

Model Number: DL-210

Additional Model: DL-310

FCC ID: Z7ODL2101

Prepared for: Jiangmen Dascom Computer Peripherals Co.,Ltd.

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EST Technology Co.,Ltd

Maximum Permissible Exposure

1. Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency	Electric Field	Magnetic	Power	Averaging	
Range (MHz)	Strength E)	Field Strength	Density (S)	Times E	
	(V/m)	(H) (A/m)	(mW/cm2)	2 , H 2 or	
				S (minutes)	
0.3-3.0	614	1.63	(100)*	6	
3.0-30	1842/f	4.89/f	(900/f)*	6	
30-300	61.4	0.163	1.0	6	
300-1500			F/300	6	
1500-10000			5	6	

(b). Limits for General Population / Uncontrolled Exposure

Frequency	Electric Field	Magnetic	Power	Averaging
Range (MHz)	Strength E)	Field Strength	Density (S)	Times E
	(V/m)	(H) (A/m)	(mW/cm2)	2, H 2 or
				S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-10000			1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

2. MPE Calculation Method

E (V/m) = (30*P*G) 0.5/d Power Density: Pd (W/m2) = E2/377

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

Pd = (30*P*G) / (377*d2)

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained



3. Calculated Result and Limit

					Ante	nna gain		Limited	
Mode	Frequency (MHz)	output output				Power	of		
			output	Target		(Linear)	Density	Power	Test Result
		power	power	power	(4D;)		(S)	Density	
		(dBm)	(mW)	(dBm)	(dBi)		(mW	(S)	
							/cm2)	(mW	
								/cm2)	
IEEE 802.11b	2412	11.98	15.78	11±1	3	1.99	0.00629	1	Compiles
	2437	11.56	14.32	11±1	3	1.99	0.00629	1	Compiles
	2462	11.27	13.40	11±1	3	1.99	0.00629	1	Compiles
IEEE	2412	2.60	1.82	2 ± 1	3	1.99	0.00079	1	Compiles
	2437	1.05	1.27	1±1	3	1.99	0.00063	1	Compiles
802.11g	2462	3.08	2.03	3±1	3	1.99	0.00079	1	Compiles

