FCC 47 CFR MPE REPORT

HUIZHOU FORYOU GENERAL ELECTRONICS CO., LTD.

Car Multimedia Player

Model Number: VX7022

Additional Model: VX4012; DMX5022

FCC ID: VIP-VX7022

Prepared for : HUIZHOU FORYOU GENERAL ELECTRONICS CO.,LTD. North Shangxia Road, Dongjiang Hi-tech Industry Park, Huizhou, Guangdong Province, 516005, P R China

Prepared By : EST Technology Co., Ltd. Santun(guantai Road), Houjie Town, DongGuan City, GuangDong, China.

Tel: 86-769-83081888-808

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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.

0.3-3.0 614 1.63 (100)* 6	()			•		
(V/m) (H) (A/m) (mW/cm2) 2 , H 2 d 0.3-3.0 614 1.63 (100)* 6	Frequency	Electric Field	Magnetic	Power	Averaging	
0.3-3.0 614 1.63 (100)* 6	Range (MHz)	Strength E)	Field Strength	Density (S)	Times E	
0.3-3.0 614 1.63 (100)* 6		(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 1842/1 4.89/1 (900/1)* 6	3.0-30	1842/f	4.89/f	(900/f)*	6	
30-300 61.4 0.163 1.0 6	30-300	61.4	0.163	1.0	6	
300-1500 F/300 6	300-1500			F/300	6	
1500-10000 5 6	1500-10000			5	6	

(a)、Limits for Occupational / Controlled Exposure

(b)、 Limits for General Population / Uncontrolled Exposure

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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.o	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

					Anter	nna gain		Limited	
Mode	Frequency (MHz)	Peak output power (dBm)	Peak output power (mW)	Target power (dBm)	(dBi)	(Linear)	Power Density (S) (mW /cm2)	of Power Density (S) (mW /cm2)	Test Result
	2402	-2.010	0.630	-3±2	0	1	0.00016	1	Compiles
GFSK	2441	1.674	1.470	0±2	0	1	0.00032	1	Compiles
	2480	-0.573	0.876	-2±2	0	1	0.00020	1	Compiles
8-DPSK	2402	-2.576	0.553	-3±2	0	1	0.00016	1	Compiles
	2441	1.220	1.324	0±2	0	1	0.00032	1	Compiles
	2480	-1.052	0.785	-2±2	0	1	0.00020	1	Compiles

