# FCC RF EXPOSURE REPORT

#### HUIZHOU FORYOU GENERAL ELECTRONICS CO.,LTD.

Car Multimedia Player

Model Number: VX3024

FCC ID: 2AEIN-VX3024

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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.

#### (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

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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			1.0	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)	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
GFSK	2402	-1.535	0.702	-1±1	1	1.26	0.00025	1	Complies
	2441	0.778	1.196	1±1	1	1.26	0.00040	1	Complies
	2480	1.374	1.372	1±1	1	1.26	0.00040	1	Complies
8-DPSK	2402	-1.368	0.730	-1±1	1	1.26	0.00025	1	Complies
	2441	1.072	1.280	1±1	1	1.26	0.00040	1	Complies
	2480	1.685	1.474	1±1	1	1.26	0.00040	1	Complies