FCC 47 CFR MPE REPORT

HUIZHOU FORYOU GENERAL ELECTRONICS CO., LTD.

CAR AUDIO PLAYER

Model Number: K17

FCC ID: 2AEIN-K17

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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

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

Mode	Frequency (MHz)	output output power		Peak output power (mW) Target power (dBm)	Antenna gain			Limited	
			Dook		(dBi)	(Linear)	Power	of	Test Result
			output				Density	Power	
							(S)	Density	
			•				(mW	(S)	
			(111 VV)				/cm2)	(mW	
								/cm2)	
GFSK	2402	-4.257	0.375	-4±1	1	1.259	0.00013	1	Compiles
	2441	-4.222	0.378	-4±1	1	1.259	0.00013	1	Compiles
	2480	-3.951	0.403	-4±1	1	1.259	0.00013	1	Compiles
8-DPSK	2402 -6.112	6 112	0.245	-6±1	1	1.259	7.92007E-	1	Compiles
		0.243	-0±1			05	1	Compiles	
	2441 -5.9	5.080	5.989 0.252	-6±1	1	1.259	7.92007E-	1	Compiles
		-3.969 0.232	-0-1			05	1	Compiles	
	2480	-5.607 0.275	-6±1	1	1.259	7.92007E-	1	Compiles	
			0.273	1.273 -0.1			05	1	Compiles