FCC 47 CFR MPE REPORT

AAMP of Florida, Inc. dba AAMP Global

1-DIN Audio CD

Model Number: RM1902

FCC ID: XBD-RM1902

Prepared for:	AAMP of Florida, Inc. dba AAMP Global				
	15500 Lightwave Dr. Suite 202, Clearwater, Florida, United States				
Prepared By:	EST Technology Co., Ltd.				
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China				
Tel: 86-769-83081888-808					

Report Number:	ESTE-R1808124		
Date of Test:	Jun. 09~Aug. 27, 2018		
Date of Report:	Aug. 27, 2018		



EST Technology Co. ,Ltd Report No. ESTE-R1808124

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



EST Technology Co. ,Ltd Report No. ESTE-R1808124 Page 2 of 3

3. Conducted Power Result

Mode	Frequency (MHz)	Peak output power (dBm)		Target	Antenna gain	
			Peak output power (mW)	power (dBm)	(dBi)	(Linear)
GFSK	2402	1.341	1.362	1±2	0	1
	2441	1.191	1.316	1±2	0	1
	2480	0.924	1.237	1±2	0	1
8-DPSK	2402	0.981	1.253	1 ± 2	0	1
	2441	0.774	1.195	1 ± 2	0	1
	2480	0.509	1.124	1±2	0	1

4. Calculated Result and Limit

		Antenna gain			Limited	
				Power	of	
	Target			Density	Power	Test
Mode	power	1 (dRi)	dBi) (Linear)	(S)	Density	Result
	(dBm)			(mW	(S)	Result
				/cm2)	(mW	
					/cm2)	
2.4G Band						
GFSK	3	0	1	0.00040	1	Compiles
8-DPSK	3	0	1	0.00040	1	Compiles



EST Technology Co. ,Ltd Repo