FCC 47 CFR MPE REPORT

INMUSIC BRANDS INC

Media Player with Bluetooth and RS232; CD Player with Bluetooth and RS-232

Model Number: PMD-526C

Additional Model: ZC05; DN-500CB; DP19

FCC ID: Y4O-DP19

Prepared for: Klipsch L.L.C.

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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) | Peak Peak output power power (dBm) (mW) | | power | Antenna gain | | | Limited | | |
|--------|--------------------|---|-----------|----------|--------------|----------|---------|---------|----------------|--|
| | | | Dools | | (dBi) | (Linear) | Power | of | Test Result | |
| | | | output | | | | Density | Power | | |
| | | | | | | | (S) | Density | | |
| | | | • | | | | (mW | (S) | | |
| | | | (111 **) | | | | /cm2) | (mW | | |
| | | | | | | | | /cm2) | | |
| BLE | 2402 | -2.030 | 0.627 | -3±2 | -0.61 | 0.869 | 0.00014 | 1 | Compiles | |
| | 2440 | -0.100 | 0.977 | -1±2 | -0.61 | 0.869 | 0.00022 | 1 | Compiles | |
| | 2480 | 1.110 | 1.291 | 1±2 | -0.61 | 0.869 | 0.00034 | 1 | Compiles | |
| GFSK | 2402 | -1.215 | 0.756 | -2±2 | -0.61 | 0.869 | 0.00017 | 1 | Compiles | |
| | 2441 | 0.548 | 1.134 | 0 ± 2 | -0.61 | 0.869 | 0.00027 | 1 | Compiles | |
| | 2480 | 1.928 | 1.559 | 1±2 | -0.61 | 0.869 | 0.00034 | 1 | Compiles | |
| 8-DPSK | 2402 | 0.563 | 1.138 | 0±2 | -0.61 | 0.869 | 0.00027 | 1 | Compiles | |
| | 2441 | 2.059 | 1.607 | 2±2 | -0.61 | 0.869 | 0.00043 | 1 | Compiles | |
| | 2480 | 2.950 | 1.972 | 2±2 | -0.61 | 0.869 | 0.00043 | 1 | Compiles | |

