FCC 47 CFR MPE REPORT

HUIZHOU FORYOU GENERAL ELECTRONICS CO.,LTD.

Car Multimedia Player

Model Number: VX7014

FCC ID: 2AEIN-VX7014

| Prepared for: | HUIZHOU FORYOU GENERAL ELECTRONICS CO.,LTD. | | | |
|--------------------------|---|--|--|--|
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| Report Number: | ESTE-R1702006 | | |
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| Date of Test: | November 30~ December 06,2017 | | |
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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

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3. Conducted Power Result

| Mode | Frequency (MHz) | Peak output power (dBm) | | Target | Antenna gain | |
|--------|-----------------|-------------------------|------------------------|-------------|--------------|----------|
| | | | Peak output power (mW) | power (dBm) | (dBi) | (Linear) |
| GFSK | 2402 | -3.516 | 0.445 | -3±1 | 0 | 1 |
| | 2441 | -4.118 | 0.387 | -4±1 | 0 | 1 |
| | 2480 | -4.848 | 0.327 | -4±1 | 0 | 1 |
| 8-DPSK | 2402 | -3.979 | 0.400 | -3±1 | 0 | 1 |
| | 2441 | -4.638 | 0.344 | -4±1 | 0 | 1 |
| | 2480 | -5.445 | 0.285 | -5±1 | 0 | 1 |



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4. Calculated Result and Limit

| | | Antenna gain | | | Limited | |
|-----------|-------------|----------------|-------|---------|----------------|----------|
| | | | | Power | of | |
| | Target | | | Density | Power | Toat |
| Mode | power (dBi) | (dBi) (Linear) | (S) | Density | Test Result | |
| | | | (mW | (S) | | |
| | | | /cm2) | (mW | | |
| | | | | | /cm2) | |
| 2.4G Band | | | | | | |
| GFSK | -2 | 0 | 1 | 0.00013 | 1 | Compiles |
| 8-DPSK | -2 | 0 | 1 | 0.00013 | 1 | Compiles |

