Date of Issue: July 14, 2014

RADIO FREQUENCY EXPOSURE

LIMIT

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 levels in excess of the Commission's guidelines. See §15.247(b)(4) and §1.1307(b)(1) of this chapter.

EUT Specification

| EUT | Wireless HD Media Streaming Box |
|--|---|
| Frequency band (Operating) | ☐ WLAN: 2.412GHz ~ 2.462GHz |
| | |
| | |
| | ☐ Bluetooth: 2.402GHz~ 2.480GHz |
| | Others _ |
| Device category | Portable (<20cm separation) |
| | Mobile (>20cm separation) |
| | Others |
| Exposure classification | Occupational/Controlled exposure $(S = 5mW/cm^2)$ |
| | General Population/Uncontrolled exposure |
| | $(S=1mW/cm^2)$ |
| Antenna diversity | Single antenna |
| | Multiple antennas |
| | Tx diversity |
| | Rx diversity |
| | ☐ Tx/Rx diversity |
| Max. output power | 24.63dBm (290.45mW) |
| Antenna gain (Max) | 2.8dBi (Numeric gain: 1.91) |
| Evaluation applied | MPE Evaluation |
| Evaluation applied | SAR Evaluation |
| Note: | |
| 1. The maximum output power is 24.63dBm (290.45mW) at 5240MHz (with 2.8dBi numeric | |
| antenna gain.) | |
| 2. For mobile or fixed location transmitters, no SAR consideration applied. The minimum | |
| separation generally be used is at least 20 cm, even if the calculations indicate that the | |
| MPE distance would be lesser. | |

TEST RESULT

No non-compliance noted.

Compliance Certification Services Inc.

Report No: C140606Z01-RP1_MPE

FCC ID: 188WAP5805

Date of Issue: July 14, 2014

Calculation

Given
$$S = \frac{P \times G}{4\Pi d^2}$$

Equation 1

Where d = distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power Density in mW/cm^2$

Maximum Permissible Exposure

EUT Output Power=290.45mW

Numeric antenna gain=1.91

Substituting the MPE safe distance using d=20 cm into *Equation 1*:

Fields

The power density $S = 290.45 \times 1.91 / (4 \Pi \times 400) \text{ cm}^2 = 11.04 * e^{-2} \text{mW/cm}^2$

(For mobile or fixed location transmitters, the maximum power density is $1.0 \, mW/cm^2$ even if the calculation indicates that the power density would be larger.)