

RF Exposure Evaluation declaration

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| Product Name | Afterglow 5.1 surround sound wireless transmitter |
| Model No. | PL-9214T, PL-9215T |
| FCC ID | X5B-PL9215T |

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|-----------|---|
| Applicant | Performance Designed Products, LLC |
| Address | 14144 Ventura Blvd., Suite 200 Sherman Oaks, CA 91423 USA |

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|---------------------|--------------------|
| Date of Receipt | Aug. 13, 2013 |
| Date of Declaration | Sep. 18, 2013 |
| Report No. | 138250R-RFUSP42V01 |

The declaration results relate only to the samples calculated.

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1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Average Time (Minutes) |
|---|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| (A) Limits for Occupational/ Control Exposures | | | | |
| 300-1500 | -- | -- | F/300 | 6 |
| 1500-100,000 | -- | -- | 5 | 6 |
| (B) Limits for General Population/ Uncontrolled Exposures | | | | |
| 300-1500 | -- | -- | F/1500 | 6 |
| 1500-100,000 | -- | -- | 1 | 30 |

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout * G) / (4 * \pi * r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

Product : Afterglow 5.1 surround sound wireless transmitter
Test Item : RF Exposure Evaluation
Test Site : No.3 OATS

Output Power Into Antenna & RF Exposure Evaluation Distance_20cm (4.45dBi):

| Channel | Frequency (MHz) | Output Power to Antenna (mW) | Power Density at R = 20 cm (mW/cm ²) |
|---------|-----------------|---------------------------------|---|
| 01 | 2403.35 | 1.7219 | 0.000954 |
| 19 | 2439.35 | 1.5205 | 0.000843 |
| 38 | 2477.35 | 1.3243 | 0.000734 |

The RF exposure at 20 cm is below limit.