

## RF Exposure Report

**Report No.:** SA150907C06 R2

**FCC ID:** VUI10242HD

**Test Model:** 10242HD

**Series Model:** 10XXXHDX (X=0~9 and A~Z or blank)

**Received Date:** Sep. 06, 2015

**Test Date:** Sep. 11, 2015

**Issued Date:** Sep. 22, 2015

**Applicant:** PEGATRON CORPORATION

**Address:** 5F, No. 76 Ligong St., Beitou, Taipei 112, Taiwan

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

**Lab Address:** No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan R.O.C.

**Test Location (1):** No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan R.O.C.

**Test Location (2):** No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan R.O.C.

**Test Location (3):** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.

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### Release Control Record

Issue No.	Description	Date Issued
SA150907C06	Original release.	Sep. 17, 2015
SA150907C06 R1	Modified the FCC ID.	Sep. 21, 2015
SA150907C06 R2	Modified the model name.	Sep. 22, 2015



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## 1 Certificate of Conformity

**Product:** Set Top Box

**Brand:** CISCO

**Test Model:** 10242HD

**Series Model:** 10XXXHDX (X=0~9 and A~Z or blank)

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** PEGATRON CORPORATION

**Test Date:** Sep. 11, 2015

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D03

IEEE C95.1

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**

Phoenix Huang  
Phoenix Huang / Specialist

**Date:**

Sep. 22, 2015

**Approved by :**

May Chen  
May Chen / Manager

**Date:**

Sep. 22, 2015

## 2 RF Exposure

### 2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

### 3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2425-2475	2.972	0.91	20	0.00073	1

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