RF EXPOSURE REPORT

REPORT NO.: SA141124D08

MODEL NO.: EA2750

FCC ID: Q87-EA2750

RECEIVED: Nov. 24, 2014

TESTED: Jan. 9 ~ 20, 2015

ISSUED: Feb. 12, 2015

APPLICANT: Linksys LLC

ADDRESS: 121 Theory Drive, Irvine, California 92617, United State

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)

TABLE OF CONTENTS

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA141124D08	Original release	Feb. 12, 2015

1. CERTIFICATION

PRODUCT:	Wireless Network
BRAND NAME:	Linksys
MODEL NO.:	EA2750
APPLICANT:	Linksys LLC
TESTED:	Jan. 9 ~ 20, 2015
TEST SAMPLE:	ENGINEERING SAMPLE
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 : Annie Chang , **DATE:** Feb. 12, 2015

(Annie Chang / Supervisor)

APPROVED BY : Rex. Lai , **DATE:** Feb. 12, 2015

(Rex Lai / Assistant Manager)

2. RF EXPOSURE LIMIT

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)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

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

4. 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**.

5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

Drive Version: 1.1.5.165608

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
2412 ~ 2462	27.88	4.77	20	0.3662	1.00
5180 ~ 5240	23.67	5.95	20	0.1823	1.00
5745 ~ 5825	21.33	5.95	20	0.1063	1.00

NOTE: Directional gain =1.76dBi + 10log(2)= 4.77dBi

Directional gain =2.94dBi + 10log(2)= 5.95dBi

CONCULSION:

Both of the modules can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1

CPD = Calculation power density

LPD = Limit of power density

1. WLAN (2.4GHz)+ WLAN (5.0GHz) = 0.3662/1+ 0.1823/1= 0.5485

Therefore, the maximum calculation of this situation is 0.5485, which is less than the "1" limit.

--- END ---