

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

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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)

DATE: Feb. 12, 2015

APPROVED BY

(Rex Lai / Assistant Manager)



2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)		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

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

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

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

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm²)
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.