

RF Exposure Report

Report No.: SA140220D03D

FCC ID: Q87-LAPAC1200

Test Model: LAPAC1200

Received Date: May 4, 2016

Test Date: May 4 ~ 11, 2016

Issued Date: May 19, 2016

Applicant: Linksys LLC

Address: 121 Theory Drive Irvine California 92617 United States

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.)





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Report Issue History Record

Issue No.	Description	Date Issued
SA140220D03	Original	Apr. 15, 2014
SA140220D03C	Upgraded the standard to section 15.407 under new rule for U-NII-1 and U-NII-3 band.	May 4, 2016
SA140220D03D	Upgraded the standard to section 15.407 under new rule (16-24) for U-NII-1 and U-NII-3 band.	May 19, 2016

Release Control Record

Issue No.	Description	Date Issued
SA140220D03D	Original release.	May 19, 2016

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1 Certificate of Conformity

Product: AC1200 Dual Band Access Point

Brand: Linksys

Test Model: LAPAC1200

Sample Status: Engineering sample

Applicant: Linksys LLC

Test Date: May 4 ~ 11, 2016

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D03 KDB 447498 D01

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: Anne Chang, Date: May 19, 2016

Annie Chang / Senior Specialist

Approved by: , **Date:** May 19, 2016

Rex Lai / Assistant Manager



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 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

2.2 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

2.3 Classification

The antenna of this product, under normal use condition, is at least 25cm away from the body of the user. So, this device is classified as **Mobile Device**.

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3 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 (Original Approved)	28.90	5.01	25	0.3133	1
5180 ~ 5240	25.75	5.01	25	0.1517	1
5745 ~ 5825	27.36	5.01	25	0.2197	1

NOTE: 1. Directional gain =2dBi + 10log(2) = 5.01dBi

2. Driver Version: v1.1.00.005

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

WLAN (2.4G) + WLAN (5.0G) = 0.3133/1 + 0.2197/1 = 0.5330

Therefore, the maximum calculation of this situation is 0.5330, which is less than the "1" limit.

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