RF Exposure Report

Report No.:	SA121015E01C
FCC ID:	Q87-WAP300N
Test Model:	WAP300N
Received Date:	Mar. 01, 2016
Test Date:	Mar. 16, 2016
Issued Date:	May 09, 2016
Applicant:	LINKSYS LLC
Address:	121 Theory Drive, Irvine, CA 92617, USA
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
Test Location (1):	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, 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.

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Report Issue History Record

Issue No.	Reason for Change	Date Issued
SA121015E01	Original	Aug. 09, 2013
SA121015E01C	Upgrade the standard to section 15.407 under new rule for U-NII-1, U-NII-3 band.	May 09, 2016

Release Control Record

Issue No.	Description	Date Issued
SA121015E01C	Original release.	May 09, 2016

1 Certificate of Conformity

Product:	Selectable Dual-Band Wireless-N Access Point
Brand:	Linksys
Test Model:	WAP300N
Sample Status:	MASS-PRODUCTION
Applicant:	LINKSYS LLC
Test Date:	Mar. 16, 2016
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992

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 : _____ , **Date:** May 09, 2016

Claire Kuan / Specialist

Approved by : _____ , **Date:** May 09, 2016

May Chen / 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/cm^2

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 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Antenna Type	Gain (dBi) (Include cable loss)	Connector type	Frequency range (MHz to MHz)
Dipole	3.5	R-SMA	2400-2500 5150-5850

3 Calculation Result of Maximum Conducted Power

The data (Except WLAN: 5180-5240MHz & 5745-5825MHz) was copied from the original test report (Report No.: SA121015E01)

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
2412-2462	420.632	6.51	20	0.18734	1
5180-5240	97.008	6.51	20	0.08640	1
5745-5825	72.165	6.51	20	0.06428	1

NOTE:
2.4GHz: Directional gain = 3.5dBi + 10log(2) = 6.51dBi
5GHz: Directional gain = 3.5dBi + 10log(2) = 6.51dBi

2.4GHz and 5GHz technology cannot transmit at same time.

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