

### RF EXPOSURE REPORT

**REPORT NO.:** SA140526C24

**MODEL NO.:** NWA1100-NH

FCC ID: I88NWA1100NH

**RECEIVED:** May 26, 2014

**TESTED:** May 29 ~ May 31, 2014

**ISSUED:** Jun. 18, 2014

**APPLICANT:** ZyXEL Communications Corporation

ADDRESS: No. 2, Gongye E. 9th Road, Hsinchu Science

Park, Hsinchu, Taiwan, R.O.C.

**ISSUED BY:** Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,

New Taipei City, Taiwan, R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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## **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA140526C24	Original release.	Jun. 18, 2014

Report No.: SA140526C24 3 of 5 Report Format Version 5.0.0



#### 1. CERTIFICATION

**PRODUCT:** 802.11 b/g/n PoE Access Point

MODEL: NWA1100-NH

**BRAND:** ZyXEL

**APPLICANT:** ZyXEL Communications Corporation

**TESTED:** May 29 ~ May 31, 2014

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

**IEEE C95.1** 

The above equipment (model: NWA1100-NH) 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: Suntee Liu / Specialist , DATE: Jun. 18, 2014



#### 2. RF EXPOSURE

### 2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)		MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm²)	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<sup>2</sup>

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 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
28.35	8.01	20	0.860	1

Note: Directional gain = 5dBi + 10log(2) = 8.01dBi

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