

RF EXPOSURE REPORT

REPORT NO.: SA991224C08A

MODEL NO.: APL23-081

FCC ID: QWU-081

ACCORDING: FCC Guidelines for Human Exposure
IEEE C95.1

APPLICANT: SonicWALL, Inc.

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	N/A	Apr. 28, 2011

1. CERTIFICATION

PRODUCT: Access Point 802.11 a/b/g/n

MODEL: APL23-081

BRAND: SonicWALL

APPLICANT: SonicWALL, Inc.

TEST SAMPLE: ENGINEERING SAMPLE

TESTED: Dec. 29, 2010 ~ Jan. 20 ~ 2011

STANDARDS: FCC Guidelines for Human Exposure
IEEE C95.1

The above equipment (Model: APL23-081) 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.

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Andrea Hsia / Specialist

APPROVED BY : Gary Chang , DATE: Apr. 28, 2011
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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

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
5260-5320	21.3	7.01	20	0.135	1.00
5500-5700	16.5	7.01	20	0.045	1.00

NOTE: Directional gain = 4dBi + 10log(2)=7.01dBi