



RF EXPOSURE REPORT

REPORT NO.: SA120614C11
MODEL NO.: RSVLC-1103
FCC ID: B94RSVLC1103
RECEIVED: Jun. 14, 2012
TESTED: Jun. 25 ~ Jul. 20, 2012
ISSUED: Jul. 27, 2012

APPLICANT: Hewlett-Packard Company

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

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

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120614C11	Original release	Jul. 27, 2012



1. CERTIFICATION

PRODUCT: HP M220 802.11n AM Access Point,
HP M220 802.11n WW Access Point

MODEL NO.: RSVLC-1103

BRAND: HP

APPLICANT: Hewlett-Packard Company

TESTED: Jun. 25 ~ Jul. 20, 2012

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: RSVLC-1103) 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 : Jul. 27, 2012
Gary Chang / Technical 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

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

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)	MODULATION MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2412-2462	802.11b	20.83	4	20	0.060	1
	802.11g	27.10	7	20	0.511	1
	802.11n (20MHz)	27.06	7	20	0.507	1
	802.11n (40MHz)	24.67	7	20	0.292	1
5180-5240	802.11a	11.93	8	20	0.020	1
	802.11n (20MHz)	12.45	8	20	0.022	1
	802.11n (40MHz)	14.71	8	20	0.037	1
5745-5825	802.11a	24.97	8	20	0.394	1
	802.11n (20MHz)	24.54	8	20	0.357	1
	802.11n (40MHz)	24.93	8	20	0.391	1

NOTE:

FOR 2.4GHz 802.11g, 802.11n (20MHz) & 802.11n (40MHz): Directional gain = 4dBi + 10log(2) = 7dBi

FOR 5.0GHz: Directional gain = 5dBi + 10log(2) = 8dBi