

RF EXPOSURE REPORT

REPORT NO.: SA981215L24

MODEL NO.: VA121V-Q

FCC ID: X7PVA12X

ACCORDING: FCC Guidelines for Human Exposure

IEEE C95.1

APPLICANT: Vololink Pty Ltd

ADDRESS: Level 2, 541 Blackburn Road, Mount

Waverley, Victoria, 3149, Australia

ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

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

Hsiang, Taipei Hsien 244, 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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1. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	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. MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

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

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**.



4. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
824 ~ 849	32.88	-1.04	20	0.304	0.558
1850 ~ 1910	29.85	1.8	20	0.291	1.00
2412 ~ 2462	27.8	1.5	20	0.169	1.00

CONCULSION:

WLAN and Mobile function 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

- 1. WLAN $2.4G + GSM 850 (824 \sim 849MHz) = 0.169/1 + 0.304/0.558 = 0.714$
- 2. WLAN 2.4G + PCS 1900 (1850 ~ 1910MHz) = 0.169/1 + 0.291/1 = 0.460

Therefore, the maximum calculation of this situation is 0.714, which is less than the "1" limit.