



RF EXPOSURE REPORT

REPORT NO.: SA141119C42

MODEL NO.: 9961 Home Cell V1

FCC ID: H8N9961V1

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TESTED: Dec. 09 ~ Dec. 12, 2014

ISSUED: Dec. 15, 2014

APPLICANT: ASKEY COMPUTER CORP.

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ISSUED BY: Bureau Veritas Consumer Products Services
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA141119C42	Original release	Dec. 15, 2014



1. CERTIFICATION

PRODUCT: Femtocell
MODEL NO.: 9961 Home Cell V1
BRAND: Askey
APPLICANT: ASKEY COMPUTER CORP.
TESTED: Dec. 09 ~ Dec. 12, 2014
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS: **FCC Part 2 (Section 2.1091)**
KDB 447498 D03
IEEE C95.1

The above equipment (Model: 9961 Home Cell V1) 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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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)	EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
WCDMA Band 2 (Channel Bandwidth: 5MHz) 1932.4MHz ~ 1987.6MHz	25.18	20	0.066	1

FREQUENCY BAND (MHz)	EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
LTE Band 4 (Channel Bandwidth: 5MHz) 2112.5MHz ~ 2152.5MHz	27.56	20	0.113	1
LTE Band 4 (Channel Bandwidth: 10MHz) 2115MHz ~ 2150MHz	27.76	20	0.119	1
LTE Band 4 (Channel Bandwidth: 15MHz) 2117.5MHz ~ 2147.5MHz	25.53	20	0.071	1
LTE Band 4 (Channel Bandwidth: 20MHz) 2120MHz ~ 2145MHz	27.81	20	0.120	1

CONCLUSION:

Both of the WCDMA and LTE can transmit simultaneously, the formula of calculated the MPE is:

$$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$$1. \text{ WCDMA} + \text{LTE} = 0.066 + 0.120 = 0.186$$

Therefore, the maximum calculation of this situation is 0.186, which is less than the "1" limit.

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