

RF Exposure Report

Report No.: SA151017C01B

FCC ID: H8N-WLU5330

Test Model: WLU5330-D81

Received Date: Oct. 30, 2015

Test Date: Nov. 06 ~ Dec. 15, 2015

Issued Date: Dec. 22, 2015

Applicant: ASKEY COMPUTER CORP.

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Release Control Record

Issue No.	Description	Date Issued
SA151017C01B	Original release.	Dec. 22, 2015

1 Certificate of Conformity

Product: Wireless Module

Brand: Panasonic

Test Model: WLU5330-D81

Sample Status: Engineering sample

Applicant: ASKEY COMPUTER CORP.

Test Date: Nov. 06 ~ Dec. 15, 2015

Standards: FCC Part 2 (Section 2.1091)
KDB 447498 D01 (October 23, 2015)
IEEE C95.1

The above equipment 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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Date:

Dec. 22, 2015

Approved by :



Ken Liu / Senior Manager

Date:

Dec. 22, 2015

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

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

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**.

3 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)
2412-2462	27.62	4.41	20	0.317	1
5180-5240	23.03	5.98	20	0.158	1
5260-5320	22.89	5.98	20	0.153	1
5500-5700	22.63	5.98	20	0.144	1
5745-5825	21.73	5.98	20	0.117	1

Note:

2412-2462MHz Band: Directional gain = 1.4dBi + 10log(2) = 4.41dBi

5GHz Band: Directional gain = 2.97dBi + 10log(2) = 5.98dBi

*2.4GHz and 5GHz cannot transmit simultaneously

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