

RF Exposure Report

Report No.: SA111011C17T

FCC ID: H8N-WLU5150

Test Model: WLU5150-D81

Received Date: Oct. 11, 2011

Test Date: Nov. 08, 2011 ~ Feb. 16, 2016

Issued Date: Feb. 24, 2016

Applicant: ASKEY COMPUTER CORP.

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- Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
- Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
- Test Location (1): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)
- **Test Location (2):** No. 81-1, Lu Liao Keng, 9th Ling,Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan
- **Test Location (3):** No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan



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Release Control Record				
Issue No.	Description			Date Issued
Issue No. SA111011C17T	Description Original release			Date Issued Feb. 24, 2016
		Darra Na 2/5		



1 **Certificate of Conformity**

Product:	Wireless LAN Adaptor	
Brand:	Panasonic	
Test Model:	WLU5150-D81	
Sample Status:	Engineering sample	
Applicant:	ASKEY COMPUTER CORP.	
Test Date:	Nov. 08, 2011 ~ Feb. 16, 2016	
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.

Prepared by :

- 24

Ivv Lin / Specialist

Date:

Date:

Feb. 24, 2016

Feb. 24, 2016

Approved by :

Ken Liu / Senior Manager



2 **RF Exposure**

Limits for Maximum Permissible Exposure (MPE) 2.1

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**

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

where

 $Pd = power density in mW/cm^2$

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

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**.

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	25.80	3.30	20	0.162	1
5180-5240	23.19	4.76	20	0.124	1
5260-5320	18.40	5.73	20	0.051	1
5500-5700	18.90	6.62	20	0.071	1
5745-5825	22.72	6.69	20	0.174	1

Calculation Result of Maximum Conducted Power 3

*2.4GHz and 5GHz cannot transmit simultaneously

Note:

Note: 2.4GHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2] = 3.30dBi$ 5180-5240: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2] = 4.76dBi$ 5260-5320: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2] = 5.73dBi$ 5500-5700: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2] = 6.62dBi$ 5745-5825: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2] = 6.69dBi$

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