

## RF Exposure Report

**Report No.:** SA160408E01

**FCC ID:** H8N-TC7300B0M

**Test Model:** TC7300.Bxxxxxx

**Series Model:** TC7300.Bxxxxxx (x=0-9, A-Z, a-z, “-”, “.” or blank for marketing)

**Received Date:** Apr. 08, 2016

**Test Date:** Apr. 28, 2016

**Issued Date:** May 17, 2016

**Applicant:** ASKEY COMPUTER CORP

**Address:** 10F, NO.119, JIANKANG RD., ZHONGHE DIST., NEW TAIPEI CITY 23585, TAIWAN, R.O.C.

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

**Lab Address:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.

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### Release Control Record

Issue No.	Description	Date Issued
SA160408E01	Original release.	May 17, 2016

## 1 Certificate of Conformity

**Product:** Cable Modem

**Brand:** Technicolor

**Test Model:** TC7300.Bxxxxxx

**Series Model:** TC7300.Bxxxxxx (x=0-9, A-Z, a-z, “-“, “.” or blank for marketing)

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** ASKEY COMPUTER CORP

**Test Date:** Apr. 28, 2016

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

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 :** Wendy Wu, **Date:** May 17, 2016  
Wendy Wu / Specialist

**Approved by :** May Chen, **Date:** May 17, 2016  
May Chen / 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 <sup>2</sup> )	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<sup>2</sup>

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**.

### 2.4 Antenna Gain

Transmitter Circuit	Brand	Model	Antenna Gain (dBi)	Frequency range (GHz to GHz)	Antenna Type	Connector Type	Cable Length (mm)
Chain (0)	HONGLIN	NA	3.61	2.4-2.4835	PCB	i-pex(MHF)	30
Chain (1)	HONGLIN	AN	3.24	2.4-2.4835	PCB	i-pex(MHF)	200

### 3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	951.566	6.44	20	0.83400	1

NOTE:

$$\text{Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 6.44$$

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