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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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Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 RF Exposure	5
2.1 Limits for Maximum Permissible Exposure (MPE)	5
2.2 MPE Calculation Formula	5
2.3 Classification	5
2.4 Antenna Gain	5
3 Calculation Result Of Maximum Conducted Power	6



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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

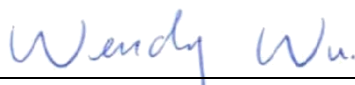
Standards: FCC Part 2 (Section 2.1091)

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 / Specialist

Date:

May 17, 2016

Approved by :


May Chen / Manager

Date:

May 17, 2016

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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

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

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**.

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 ²)	Limit (mW/cm ²)
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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