RF EXPOSURE REPORT

REPORT NO.: SA140224C05

MODEL NO.: TEW-731BR

FCC ID: XU8TEW731BRV2

RECEIVED: Feb. 24, 2014

TESTED: Feb. 26 ~ Apr. 02, 2014

ISSUED: Apr. 14, 2014

APPLICANT: TRENDnet, Inc.

ADDRESS: 20675 Manhattan Place, Torrance, CA 90501

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

This report should not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA140224C05	Original release	Apr. 14, 2014

1. CERTIFICATION

PRODUCT:	N300 Wireless Home Router
MODEL NO.:	TEW-731BR
BRAND:	TRENDnet
APPLICANT:	TRENDnet, Inc.
TESTED:	Feb. 26 ~ Apr. 02, 2014
TEST SAMPLE:	ENGINEERING SAMPLE
STANDARDS:	**FCC Part 2 (Section 2.1091)**
	FCC OET Bulletin 65, Supplement C (01-01)
	IEEE C95.1

The above equipment (model: TEW-731BR) 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 : _____ **, DATE :** Apr. 14, 2014

Ivy Lin / Specialist

APPROVED BY : _____ **, DATE :** Apr. 14, 2014

Ken Liu / Senior 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^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**.

2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

1TX

MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
802.11b	20.58	2	20	0.036	1
802.11g	19.41	2	20	0.028	1
802.11n (20MHz)	19.28	2	20	0.027	1
802.11n (40MHz)	17.72	2	20	0.019	1

2TX

MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
802.11b	23.06	5.01	20	0.128	1
802.11g	19.42	5.01	20	0.055	1
802.11n (20MHz)	17.05	2	20	0.016	1
802.11n (40MHz)	17.84	2	20	0.019	1

NOTE:
For 2TX:
802.11b/g: Directional gain = 2dBi + 10log(2) = 5.01dBi
802.11n: IEEE 802.11n, MCS = 8-15, NSS = 2,
Directional gain = 2dBi + 10log(2/2) = 2dBi

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