RF Exposure Report

Report No.:	SA170206E06
FCC ID:	2AHKM-CGNV22
Test Model:	CGNV22
Received Date:	Feb. 06, 2017
Test Date:	Mar. 02, 2017
Issued Date:	May 19, 2017
Applicant:	HitronTechnologies
Address:	NO. 1-8, LISING 1ST RD., HSINCHU SCIENCE PARK, HSINCHU,300, TAIWAN.
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
SA170206E06	Original release.	May 19, 2017

1 Certificate of Conformity

Product:	DOCSIS 3.0 eMTA
Brand:	Movistar
Test Model:	CGNV22
Sample Status:	ENGINEERING SAMPLE
Applicant:	HitronTechnologies
Test Date:	Mar. 02, 2017
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 : _____ , **Date:** May 19, 2017

Wendy Wu / Specialist

Approved by : _____ , **Date:** May 19, 2017

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^2)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	…	…	f/1500	30
1500-100,000	…	…	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

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 Antenna Gain

Antenna No.	Antenna Net Gain (dBi)	Frequency range (GHz)	Antenna Type	Connecter Type	Cable Length (mm)
1	4.4	2.4~2.4835	PIFA	-	-
2	3.7	2.4~2.4835	Dipole	i-pex(MHF)	170

2.5 Calculation Result of Maximum Conducted Power

Frequency (MHz)	Max. Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
2412-2462	723.501	7.07	20	0.73311	1

NOTE:
Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$)^2 / 2] = 7.07dBi

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