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RF EXPOSURE REPORT

REPORT NO.: SA130502C19

MODEL NO.: 802RUN2

FCC ID: LNQ802RUN2

RECEIVED: May 02, 2013

TESTED: May 07 ~ May 11, 2013

ISSUED: May 27, 2013

APPLICANT: Actiontec Electronics, Inc.

ADDRESS: 760 North Mary Ave. Sunyvale, CA 94085

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.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130502C19	Original release	May 27, 2013




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1. CERTIFICATION

PRODUCT: Wireless Dual-Band USB Module
MODEL NO.: 802RUN2
BRAND: Actiontec
APPLICANT: Actiontec Electronics, Inc.
TESTED: May 07 ~ May 11, 2013
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: 802RUN2) 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 27, 2013
Pettie Chen / Senior Specialist

APPROVED BY :  , **DATE :** May 27, 2013
Ken Liu / Senior Manager



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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

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

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 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

Frequency band (MHz)	Conducted power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412~2462	27.74	6.61	20	0.542	1
5180~5240	16.54	6.21	20	0.037	1
5745~5825	25.02	6.21	20	0.264	1

Note:

2.4GHz: Directional gain = 3.6dBi + 10log(2) = 6.61dBi

5.0GHz: Directional gain = 3.2dBi + 10log(2) = 6.21dBi