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# RF EXPOSURE REPORT

**REPORT NO.:** SA130614D02

**MODEL NO.:** WSDB-675GN

**FCC ID:** ARS-WSDB675GN

**RECEIVED:** Jun. 14, 2013

**TESTED:** Jun. 19 ~ Jul. 12, 2013

**ISSUED:** Aug. 2, 2013

**APPLICANT:** TOP VICTORY ELECTRONICS (TAIWAN) CO., LTD.

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**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.

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130614D02	Original release	Aug. 2, 2013



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## 1. CERTIFICATION

**PRODUCT:** 802.11a/b/g/n +Bluetooth 4.0(HS) 1T1R SDIO Module  
**MODEL NO.:** WSDB-675GN  
**APPLICANT:** TOP VICTORY ELECTRONICS (TAIWAN) CO., LTD.  
**TESTED:** Jun. 19 ~ Jul. 12, 2013  
**TEST SAMPLE:** R&D SAMPLE  
**STANDARDS:** FCC Part 2 (Section 2.1091)  
FCC OET Bulletin 65, Supplement C (01-01)  
IEEE C95.1

The above equipment has(model no.: DDP-A020002 A) 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 :** Annie Chang , **DATE:** Aug. 2, 2013  
( Annie Chang / Supervisor )

**APPROVED BY :** Ken Liu , **DATE:** Aug. 2, 2013  
( Ken Liu / Senior Manager )



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## 2. RF EXPOSURE LIMIT

### 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

## 3. MPE CALCULATION FORMULA

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

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

## 4. 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**.



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## 5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2412 ~ 2462	23.04	1.52	20	0.0568	1.00
5180 ~ 5240	13.51	2.94	20	0.0088	1.00
5745 ~ 5825	19.96	5.19	20	0.0651	1.00
2408 ~ 2480 (Bluetooth LE4.0)	9.63	1.52	20	0.0026	1.00
2408 ~ 2480 (Bluetooth EDR)	14.58	1.52	20	0.0081	1.00

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