RF EXPOSURE REPORT

REPORT NO.:	SA110816C04
MODEL NO.:	TD5136
BRAND NAME:	Technicolor
FCC ID:	RSE-TD5136
RECEIVED:	Aug. 16, 2011
TESTED:	Sep. 6 ~ 9, 2011
ISSUED:	Feb. 15, 2012

APPLICANT:	Thomson Telecom Belgium
ADDRESS:	Prins Boudewijnlaan 47 B-2650 Edegem - Belgium

ISSUED BY:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
LAB LOCATION:	No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City 244, Taiwan

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA110816C04	Original release	Feb. 15, 2012

1. CERTIFICATION

PRODUCT:	ADSL MODEM
BRAND NAME:	Technicolor
MODEL NO.:	TD5136
APPLICANT:	Thomson Telecom Belgium
TEST ITEM:	PEM2
TESTED:	Sep. 6 ~ 9, 2011
STANDARDS:	FCC Part 2 (Section 2.1091) FCC OET Bulletin 65, Supplement C (01-01) IEEE C95.1

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 : Annie Chang , **DATE:** Feb. 15. 2012
(Annie Chang / Senior Specialist)

APPROVED BY : Ken Liu , **DATE:** Feb. 15. 2012
(Ken Liu / Manager)

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^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

3. MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

where

Pd = power density in mW/cm2

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

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**.

5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
2412-2462	24.5	4	20	0.141	1.00

FREQUENCY BAND (MHz)	MAX POWER (W)	MAX POWER (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
2412-2462	0.282	24.5	45	0.028	1.00

DEVICE	MAX POWER (W)	MAX POWER (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
3G USB Dongle	11.48	40.6	45	0.451	0.549

This product can operate with a plug-in 3G USB device which has maximum of 7W ERP(11.48W EIRP) output power.

Co-located mode is as below

1. WI-FI + 3G dongle = 0.028/1+0.451/0.549 = 0.849

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