

# RF EXPOSURE REPORT

**REPORT NO.:** SA120912C15

**MODEL NO.:** TR-606B, TR-606A

**FCC ID:** RID-TR606

**RECEIVED:** Sep. 12, 2012

**TESTED:** Oct. 22 ~ Nov. 02, 2012

**ISSUED:** Nov. 09, 2012

**APPLICANT:** GlobalSat WorldCom Corporation

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

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120912C15	Original release	Nov. 09, 2012

## 1. CERTIFICATION

**PRODUCT:** Tracker

**MODEL:** TR-606B, TR-606A

**BRAND:** GlobalSat

**APPLICANT:** GlobalSat WorldCom Corporation

**TESTED:** Oct. 22 ~ Nov. 02, 2012

**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: TR-606B) 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 :** Polly Chien , **DATE:** Nov. 09, 2012

Polly Chien / Specialist

**APPROVED BY :** Ken Liu , **DATE:** Nov. 09, 2012

Ken Liu / 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 <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

### 2.2 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

### 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

### FCC Part 22

MODE	FREQUENCY BAND (MHz)		ERP (dBm)	EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
	START	STOP					
GSM	824.2	848.8	29.26	31.41	20	0.275	0.549
EDGE	824.2	848.8	23.30	25.45	20	0.070	0.550
WCDMA	826.4	846.6	18.73	20.88	20	0.024	0.551

### FCC Part 24

MODE	FREQUENCY BAND (MHz)		EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
	START	STOP				
GSM	1850.2	1909.8	24.84	20	0.061	1
EDGE	1850.2	1909.8	20.13	20	0.020	1
WCDMA	1852.4	1907.6	12.59	20	0.004	1