

RF Exposure Evaluation Declaration

Product Name: GPS Locator

Model No.: GV300VC

FCC ID: YQD-GV300VC

Applicant: Queclink Wireless Solutions Co.,Ltd

Address: Room 501, Building 9, No 99, TianZhou Road, Shanghai, China

Date of Receipt : 20/08/2014

Issued Date: 13/09/2014

Report No.: UL12620140820FCC018-5

Report Version: V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Approved By:

RF Exposure Evaluation Declaration

Issued Date: 11/09/2014 Report No.: UL12620140820FCC018



Product Name:	GPS Locator
Applicant :	Queclink Wireless Solutions Co.,Ltd
Address :	Room 501, Building 9, No 99, TianZhou Road, Shanghai, China
Manufacturer :	Queclink Wireless Solutions Co.,Ltd.
Address :	Room 501, Building 9, No 99, TianZhou Road, Shanghai, China
Model No. :	GV300VC
EUT Voltage	Extreme Low:8,Nominal:12,Extreme High:32
Brand Name:	Queclink
Applicable Standard:	FCC OET Bulletin 65 Supplement C (Edition 01-01)
Test Result:	Complied
Performed Location:	Unilab (Shanghai) Co.,Ltd.
	FCC 2.948 register number is 714465
	No.1350, Lianxi Road, Pudong New District, Shangha, China
	TEL:+86-21-5027-5125/FAX:+86-21-5027-5126-876
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	Eva wang

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(Supervisor: Eva Wang)



1. EUT Description

Product Name:	GPS Locator		
Model Name:	GPS Locator		
Hardware Version:	1.02		
Software Version:	GV300VCR00A01V04M16_EON		
RF Exposure Environment:	Uncontrolled		
CDMA2000			
Support Band:	CDMA2000 BC0/BC1		
Tx Frequency Range:	CDMA2000 BC0: 824.70 MHz to 848.31MHz		
TX Frequency Range.	CDMA2000 BC1: 1851.25MHz to 1908.75MHz		
Rx Frequency Range:	CDMA2000 BC0: 869.70 MHz to 893.31MHz		
TX Frequency Range.	CDMA2000 BC1: 1931.25MHz to 1988.75MHz		
Type of modulation:	QPSK		
Antenna Type:	Connector		
Antenna Peak Gain:	CDMA2000 BC0/BC1: 1dBi		
Alitellia Feak Galli.	GPS: 0.5dBi		

2. RF Exposure Evaluation

2.1 Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency	Electric Filed	Magnetic Filed	Power Density	Average Time	
Range(MHz)	Strength	Strength	(mW/cm2)	(Minutes)	
	(V/m)	(A/m)			
(A)Limits for Occupation/Control Exposures					
300-1500			F/300	6	
1500-100,000			5	6	
(B)Limits for General Occupation/UnControlled Exposures					
300-1500			F/1500	6	
1500-100,000			1	30	

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout*G)/(4*Pi*R^2)$

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

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.2.Test Result of RF Exposure Evaluation

This device is evaluated by mobile device with general population/uncontrolled exposure condition For this device, the calculation is using the most conservative values, and the results are as follows:

Test Mode	ERP (dBm)	EIRP (dBm)	Peak EIRP (mW)	Calculated RF Exposure at d = 20cm (mW/cm2)	MPE Limit (mW/cm2)
CDMA2000 BC0	22.21	24.36	272.9	0.05	0.55
CDMA2000 BC1	1	23.96	248.9	0.05	1.00

Test Mode	Antenna Gain (dBi)	Maximum Output Power (dBm)	Maximum Output Power From Antenna (mW)	Calculated RF Exposure at d = 20cm (mW/cm2)	MPE Limit (mW/cm2)
CDMA2000 BC0	1	25	398.11	0.08	0.55
CDMA2000 BC1	1	25	398.11	0.08	1.00

This device can pass RF exposure limit.