

RF Exposure Evaluation Declaration

Product Name: GPS Locator

Model No.: GV55VC

FCC ID: YQD-GV55VC

Applicant: Queclink Wireless Solutions Co.,Ltd

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

Date of Receipt: 17-10-2014

Issued Date: 28-10-2014

Report No.: UL12620141016FCC020-5

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.

This report must not be used to claim product endorsement by TAF, CNAS or any agency of the Government.

The test report shall not be reproduced except in full without the written approval of Unilab Corporation.

Approved By:

RF Exposure Evaluation Declaration

Issued Date: 28-10-2014

Report No.: UL12620141016FCC020-5



Product Name: **GPS Locator** Queclink Wireless Solutions Co.,Ltd Applicant: Address: Room 501, Building 9, No 99, TianZhou Road, Shanghai, China Manufacturer: Queclink Wireless Solutions Co., Ltd. Room 501, Building 9, No 99, TianZhou Road, Shanghai, China Address: Model No. : GV55VC **EUT Voltage** Extreme Low:8V, Normal:12V, Extreme High:32V Brand Name: Queclink FCC OET Bulletin 65 Supplement C (Edition 01-01) Applicable Standard: 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 inguei Li Documented By: (Technical Engineer: Jingwei Li) Forest Cao (Senior Engineer: Forest Cao) Reviewed By: Eva wany

(Supervisor: Eva Wang)



1. EUT Description

Product Name:	GPS Locator
Model Name:	GPS Locator
Hardware Version:	1.01
Software Version:	GV55VCR00A01V01M128_MXIC
RF Exposure Environment:	Uncontrolled
CDMA2000	
Support Band:	CDMA2000 BC0/BC1
Tx Frequency Range:	CDMA2000 BC0: 824.70 MHz to 848.31MHz
	CDMA2000 BC1: 1851.25MHz to 1908.75MHz
Rx Frequency Range:	CDMA2000 BC0: 869.70 MHz to 893.31MHz
	CDMA2000 BC1: 1931.25MHz to 1988.75MHz
Type of modulation:	QPSK
Antenna Type:	Touch spring
Antenna Peak Gain:	CDMA2000 BC0/BC1: 1dBi

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)

EINITS FOR MAXIMON FERMIOSIBLE EXPOSORE (MFE)						
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	22.14	24.29	268.5	0.05	0.55
CDMA2000 BC1	/	23.12	205.1	0.04	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.