

# RF Exposure Report

**Project Number:** 4011580

**Report Number:** 4011580EMC02      **Revision Level:** 0

**Client:** Queclink Wireless Solutions Co. Ltd

**Equipment Under Test:** GSM/GPRS/GPS Tracker

**Model Name:** GV304N

**FCC ID:** YQD-GV304N

**Applicable Standards:** 47 C.F.R. §§ 2.1091 and 2.1093

**FCC KDB 447498**

**Report issued on:** 11 August 2016

**Test Result:** Compliant

Tested by:

  
\_\_\_\_\_  
Fabian Nica, Senior Technician

Reviewed by:

  
\_\_\_\_\_  
Jeremy Pickens, Senior EMC Engineer

**Remarks:**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 1 General Information

### 1.1 Client Information

Name: QUECLINK WIRELESS SOLUTIONS CO.,LTD.  
Address: OFFICE 501 BUILDING 9 NO 99  
TIANZHOU RD  
City, State, Zip, Country: SHANGHAI, 200233, CHINA

### 1.2 Test Laboratory

Name: SGS North America, Inc.  
Address: 620 Old Peachtree Road NW, Suite 100  
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA  
Type of lab: Testing Laboratory  
Certificate Number: 3212.01

### 1.3 General Information of EUT

Type of Product: GSM/GPRS/GPS Tracker  
Model Number: GV304N  
Serial Number: Not Labeled  
FCC ID: YQD-GV304N

IMEI Number: 862170019025129 (Conducted)  
862170019025130 (Radiated)  
Rated Voltage: 8.0 - 32.0 Vdc  
Test Voltage: 12 Vdc  
Tx Frequency Range: 824.2– 848.8 MHz (GSM850)  
1850.2– 1909.8 MHz (GSM1900)  
GPRS, 2 uplink slots max  
FCC Classification: PCS Licensed Transmitter PCB  
Type: Pre Production

Sample Received Date: 29 July 2016  
Dates of testing: 03 - 09 August 2016

### 1.4 Operating Modes and Conditions

For this assessment, the EUT's maximum power including the maximum tolerance was considered.

## 2 RF Exposure

### 2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

### 2.2 Test Method

Using the maximum power, the power density was calculated. Maximum antenna gain was assumed for this exercise.

### 2.3 Single transmission RF Exposure Levels

Band of Operation		Conducted Power w/tolerance dBm	Antenna Gain	Cable Loss	Average EIRP		Distance (R) cm	Power Density EIRP <sub>avg</sub> /(4πR <sup>2</sup> ) mW/cm <sup>2</sup>	FCC mW/cm <sup>2</sup>	% of Limit	Verdict
Type	MHz				dBm	mW					
GSM 850	824-849	32.9	0.6	0.0	33.5	2254	20	0.448	0.55	82%	Pass
GSM 1900	1850-1910	27.4	1.5	0.0	28.9	774	20	0.154	1.00	15%	Pass

### 3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	11 August 2016