FCC TEST REPORT

for

GPS Navigator (Connect to PC)

Model No. : KW-GM7001

FCC ID: WNHKW-GM7001

Applicant : Kinwei Technologies (Shenzhen) Co., Ltd

22th Building, Chentian Industrial Zone, Bao'an District,

Shenzhen, 518102, China

Regulation: FCC Part 15.107 Subpart B

FCC Part 15.109 Subpart B

Prepared by : AOV Testing Technology Co., Ltd

AOV Building, Xueyuan Road East, University City, Shenzhen

(Tanglang Village, Xili Town, Nanshan District), China

Test Date : February 19-24, 2008

Date of Report: February 25, 2009

TABLE OF CONTENT

Description Test Report Declaration	Page	
roct report Declaration		
1. GENERAL INFORMATION		4
1.1 General Information		4
1.2 Test Facility		4
1.3 Test Instrument Used		5
1.4 Description of Test Syst	tem	5
2. POWERLINE CONDUCTED	DEMISSION TEST	6
2.1. Test Standard		6
2.2. Limits		6
2.3. Test Procedure		6
2.4. Test Result	(6
3. RADIATED EMISSION TES	ST	8
3.1. Rules Part No		8
3.2. Limits		8
3.3. Test Procedure		8
3.4. Test Result		8
4. PHOTOGRAPH OF TEST	10	0

TEST REPORT DECLARATION

Applicant : Kinwei Technologies (Shenzhen) Co., Ltd Manufacturer : Kinwei Technologies (Shenzhen) Co., Ltd

EUT Description : GPS Navigator

Test Procedure Used:

FCC Part 15.107, 15.109 Subpart B

The E. U. T. listed below has been completed RFI testing by Shenzhen AOV Testing Technology Co., Ltd at the test site of Bontek Compliance Testing Laboratory Ltd. And the Interference emissions can pass **FCC CLASS B** limitations.

The test configurations and the facility comply with the radiated and AC line conducted test site criteria in **ANSI C63.4-2003**.

Date of Test:	February 19-24, 2008	
Prepared by:	form.	
	Project Engineer	-
Reviewer :	to	
	Project Manager	-

1. GENERAL INFORMATION

1.1 General Information

Applicant: Kinwei Technologies (Shenzhen) Co., Ltd

22th Building, Chentian Industrial Zone, Bao'an District,

Shenzhen, 518102, China

Manufacturer: Kinwei Technologies (Shenzhen) Co., Ltd

22th Building, Chentian Industrial Zone, Bao'an District,

Shenzhen, 518102, China

1.2 Test Facility

Test Firm : Bontek Compliance Testing Laboratory Ltd.

Certificated by FCC, Registration No.: 338263

Address : FL.1, Building H-3, Hua Qiao Cheng East Industrial Area

Qiaocheng East Road, Nanshan, Shenzhen, P.R.China

Tel : 86-755-86337020 Fax : 86-755-86337028

1.3Test Instrument Used

No.	Equipment	Manufacturer	Model No.	S/N	Calculator date
1.	EMI Test Receiver	R&S	ESCI	100687	2009-2-22
2.	EMI Test Receiver	R&S	ESPI	100097	2009-2-22
3.	Amplifier	HP	8447D	1937A02492	2009-2-22
4.	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2009-2-22
5.	Horn Antenna	SCHWARZBECK	BBHA9120A	B08000991-00 01	2009-2-22
6.	High Field Biconical Antenna	ELECTRO-METRICS	EM-6913	166	2009-2-22
7.	Log Periodic Antenna	ELECTRO-METRICS	EM-6950	811	2009-2-22
8.	Remote Active Vertical Antenna	ELECTRO-METRICS	EM-6892	304	2009-2-22
9.	Teo Line Single Phase Module	SCHWARZBECK	NSLK8128	D-69250	2009-2-22
10.	Positioning Controller	C&C	CC-C-1F	MF7802113	2009-2-22
11.	Triple-Loop Antenna	EVERFINE	LLA-2	607004	2009-2-22
12.	10dB attenuator	SCHWARZBECK	MTAIMP-136	R65.90.0001#0	2009-2-22

1.4 Description of Test System

PC	DELL	Vostro 200 ST
Monitor	DELL	OG335H
Keyboard	DELL	SK-8115
Mouse	DELL	MOC5UO

2. POWERLINE CONDUCTED EMISSION TEST

2.1.Test Standard

15.107

2.2.Limits

Frequency	Limits (dBμV)		
MHz	Quasi-peak Level	Average Level	
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*	
0.50 ~ 5.00	56	46	
5.00 ~ 30.00	60	50	

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

2.3.Test Procedure

The EUT is put on the table that is 0.8m high above the ground and at least away from other Metallic surface 0.4m. The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohms coupling impedance for the testing equipment; and the peripheral equipment powers form other L.I.S.N. Please refer to the block diagram of the test setup and photographs. Both sides of AC line (Line & Neutral) are checked for maximum conducted interference. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables must be changed according to FCC part 15 B.

2.4.Test Result

PASS

Detailed information, Please refer to the following page.

Connect to PC

Line:

Frequency (MHz)	AV Read Level (dBuV)	AV Limit (dBuV)	AV Margin (dBuV)
0.1920	42.50	54	11.50
5.9395	38.80	50	11.20
15.4015	33.10	50	16.90

Frequency (MHz)	QP Read Level (dBuV)	QP Limit (dBuV)	QP Margin (dBuV)
0.1860	60.10	64	3.90
0.2625	53.10	61	7.90
15.4220	48.80	60	11.20

Neutral:

Frequency (MHz)	AV Read Level (dBuV)	AV Limit (dBuV)	AV Margin (dBuV)
0.1875	47.30	54	6.70
3.3550	31.70	46	14.30
5.8830	38.70	50	11.30

Frequency (MHz)	QP Read Level (dBuV)	QP Limit (dBuV)	QP Margin (dBuV)
0.1860	60.70	64	3.30
0.2040	60.20	63	2.80
15.4220	49.10	60	10.90

3. RADIATED EMISSION TEST

3.1. Rules Part No.

15.109

3.2.Limits

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency of (MHz)	Emission Field Strength (microvolts/meter)
30 - 88	100 (40)
88 - 216	150 (43.5)
216 - 960	200 (46.0)
Above 960	500 (54.0)

3.3.Test Procedure

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES:

The EUT is placed on a turned table that is 0.8 meter above the ground. The turned table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (log periodical antenna and horn antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz.

The spectrum was scanned from 30 MHz to 1000MHz harmonic of the fundamental.

3.4.Test Result

PASS

Connected to PC:

Horizontal:

Frequency (MHz)	PK (dBuV/m)	Read Level (dBuV/m)	Limit (dBuV/m)	Margin (dBuV/m)
54.800	32.80	28.50	40.0	11.50
121.180	36.80	33.10	43.5	10.40
185.200	34.90	32.70	43.5	10.80
191.020	35.80	33.00	43.5	10.50
194.900	35.30	32.90	43.5	10.60
743.150	36.70	35.10	46.0	10.90

Vertical:

Frequency (MHz)	PK (dBuV/m)	Read Level (dBuV/m)	Limit (dBuV/m)	Margin (dBuV/m)
33.880	35.60	31.40	40.0	8.60
68.800	38.90	33.70	40.0	6.30
88.200	35.20	33.10	43.5	10.40
121.180	37.30	34.50	43.5	9.00
221.080	34.40	30.10	46.0	15.90
943.700	36.30	34.10	46.0	11.90

4. PHOTOGRAPH OF TEST

Conducted Emission



Radiated Emission



