

## MPE REPORT

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Report No.: SRMC2008-H024-E0013

Product Name: GSM Digital Fixed Wireless Phone

Product Model: GD852P

Manufacture: Inventec Appliances (Jiangning)  
Corporation

Specification: FCC Part2.1093,  
OET Bulletin 65 Supplement [June 2001]

FCC ID: UPMFW390001

The State Radio Monitoring Center, Equipment Testing Division

The State Radio Spectrum Monitoring and Testing Center

No.80 Beilishi Road Xicheng District Beijing, China

Tel: 86-10-68009202 Fax: 86-10-68009205

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## 1. General information

### 1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio Monitoring Center.

The test results relate only to individual items of the samples which have been tested.

### 1.2 Information about the testing laboratory

Company: The State Radio Monitoring Center, Equipment Testing Division  
The State Radio Spectrum Monitoring and Testing Center  
Address: No.80 Beilishi Road, Xicheng District, Beijing China  
City: Beijing  
Country or Region: China  
Contacted person: Wang Junfeng  
Tel: +86 10 68009181 +86 10 68009202  
Fax: +86 10 68009195 +86 10 68009205  
Email: Wangjf@srrc.org.cn

### 1.3 Applicant's details

Company: Inventec Appliances (Jiangning) Corporation  
Address: Jiangning Economic and Technological Development Zone  
City: Nanjing, 211153 Jiangsu  
Country or Region: P.R.China  
Grantee Code: UPM  
Contacted person: William Zhang  
Tel: +86 25 52262313  
Fax: +86 25 52218366  
Email: zhang.hui-liang@inventec-inc.com

### 1.4 Manufacturer's details

Company: Inventec Appliances (Jiangning) Corporation  
Address: Jiangning Economic and Technological Development Zone  
City: Nanjing, 211153 Jiangsu  
Country or Region: P.R.China  
Grantee Code: UPM  
Contacted person: William Zhang  
Tel: +86 25 52262313  
Fax: +86 25 52218366  
Email: zhang.hui-liang@inventec-inc.com

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## 1.5 Application details

Date of receipt of application: 15<sup>th</sup> Mar. 2008

Date of receipt of test sample: 15<sup>th</sup> Mar. 2008

Date of test: 8<sup>th</sup> Apr. 2008

## 1.6 Reference specification

FCC Part2.1093, OET Bulletin 65 Supplement [June 2001]

## 1.7 Information of EUT

### 1.7.1 General information

Name of EUT	GSM Digital Fixed Wireless Phone
FCC ID	UPMFW390001
Frequency range	GSM850: Tx:824~849MHz Rx:869~894MHz PCS1900: Tx:1850~1910MHz Rx:1930~1990MHz
Rated output power	GSM850:33.0dBm PCS1900:30.0dBm
Modulation type	GMSK
Duplex mode	FDD
Duplex spacing:	GSM850:45MHz PCS1900:80MHz
Antenna type	External
Power Supply	Battery or charger
Rated Power Supply Voltage	3.7V
Extreme Temperature	-30°C~+50°C

### 1.7.2 EUT details

Name	Model	Serial number
GSM Digital Fixed Wireless Phone	GD852P	007912351

### 1.7.3 Auxiliary equipment details


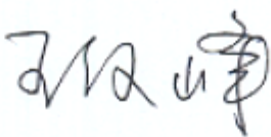
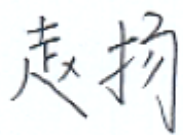
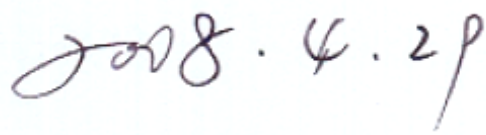
Equipment	Charger
Manufacturer	DEE VAN ENTERPRISE CO.,LTD
Model Number	DSA-5W-05FUS 050040

Equipment	Battery
Manufacturer	BYD COMPANY LIMITED
Model Number	LP043450A (FW39)
Capacity	650mAh
Rated Voltage	3.7V

## 2. Test information:

### 2.1 Summary of the calculation results:

No.	Test case	FCC reference	Verdict
1	MPE Calculation	FCC Part2.1093, OET Bulletin 65 Supplement [June 2001]	Pass

This Test Report Is Issued by: 	Checked By: 
Tested By: 	Issued date: 

## 2.2 Calculation result

### 2.2.1 Maximum Permissible Exposure (MPE)

Limit:

#### FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	100*	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> ) *	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	100*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz \*Plane-wave equivalent power density

Calculation procedure:

In accordance with 47CFR FCC Part 2.1091, the product has been defined as a mobile device where a distance of 0.2m normally can be maintained between the user and product.

Calculation formula:

$$\text{Power Density: } P_d (\text{W/m}^2) = E^2/377$$

$$E (\text{V/m}) = (30 \cdot P \cdot G)^{0.5}/d$$

E: Electric Field Strength (V/m)

P: Peak RF Output Power (W)

G: Antenna Numeric Gain (Numeric)

d: Separation Distance Between the Radiator and Human Body (m)

So the calculation formula can be changed as:

$$P_d = (30 * P * G) / (377 * d^2)$$

Calculation result:

GSM850:

Channel No.	Effective Radiated Power (E.R.P.) (mW)	Power Density (S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Verdict
128	682.3	0.1357	0.549	Pass
189	935.4	0.1861	0.558	Pass
251	924.7	0.1840	0.566	Pass

PCS1900:

Channel No.	Effective Isotropic Radiated Power (E.I.R.P.) (mW)	Power Density (S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Verdict
512	404.6	0.0805	1.0	Pass
661	631.0	0.1255	1.0	Pass
810	833.7	0.1658	1.0	Pass