

MPE REPORT

Report No.: SRMC2007-H024-E0018

Product Name: GSM Fixed Wireless Phone

Product Model: GD854P

Manufacture: Inventec Appliances
(Jiangning) Corporation

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

FCC ID: UPMFW320001

The State Radio Monitoring Center, Equipment Testing Division

The State Radio Spectrum Monitoring and Testing Center

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1. General information

1.1 Notes of the test report

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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
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1.3 Applicant's details

Company: Inventec Appliances (Jiangning) Corporation
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Grantee Code: UPM
Contacted person: William Zhang
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1.4 Manufacturer's details

Company: Inventec Appliances (Jiangning) Corporation
Address: No.100 Xian He Street
City: Nanjing City, 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

1.5 Application details

Date of receipt of application: 1st Nov. 2007

Date of receipt of test sample: 1st Nov. 2007

Date of test: 5th Nov. 2007

1.6 Reference specification

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

1.7 Information of EUT

1.7.1 General information

Name of EUT	GSM Fixed Wireless Phone
FCC ID	UPMFW320001
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 Fixed Wireless Phone	GD854P	320971367244

1.7.3 Auxiliary equipment details



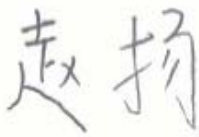
Equipment	Charger
Manufacturer	Inventec Appliances (Jiangning) Corporation
Model Number	6032A0043301

Equipment	Battery
Manufacturer	Inventec Appliances (Jiangning) Corporation
Model Number	---
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: 2007.11.26

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 ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	100*	6
3.0-30	1842/f	4.89/f	(900/f ²) *	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 ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	100*	30
1.34-30	824/f	2.19/f	(180/f ²)*	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	575.4	0.1145	0.549	Pass
189	363.1	0.0722	0.558	Pass
251	309.0	0.0615	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	363.1	0.0722	1.0	Pass
661	338.8	0.0674	1.0	Pass
810	257.0	0.0511	1.0	Pass