



MPE REPORT

Report No.: SRMC2009-H024-E0025

Product Name: CDMA 1X Digital Fixed Wireless Phone

Product Model: ZTE WF832

Applicant: ZTE Corporation

Manufacture: ZTE Corporation

Specification: FCC Part2.1093

OET Bulletin 65 Supplement C[June 2001]

FCC ID: Q78-ZTEWF832

The State Radio Monitoring Center

State Radio Spectrum Monitoring and Testing Center

No.80 Beilishi Road Xicheng District Beijing, China

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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
State Radio Spectrum Monitoring and Testing Center
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1.3 Applicant's details

Company: ZTE Corporation
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City: Xi'an
Country or Region: P.R.China
Grantee Code: Q78
Contacted person: Li Dezi
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Email: li.dezi@zte.com.cn

1.4 Manufacturer's details

Company: ZTE Corporation
Address: 10# TangYan Road South, Hi-Tech Industrial Park, 710065
City: Xi'an
Country or Region: P.R.China
Grantee Code: Q78
Contacted person: Li Dezi
Tel: +86-29-88723223
Fax: +86-29-88723249
Email: li.dezi@zte.com.cn

1.5 Application details

Date of reception of test sample: 17th Aug 2009

Date of test: 24th Aug 2009 to 27th Aug 2009

1.6 Reference specification

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

1.7 Information of EUT

1.7.1 General information

Name of EUT	CDMA 1X Digital Fixed Wireless Phone
FCC ID	Q78-ZTEWF832
Frequency range	Tx:824~849MHz Rx:869~894MHz
Rated output power	24.0dBm
E.R.P.	21.6dBm
Modulation type	OQPSK
Emission Designator	1M25F9W
Duplex mode	FDD
Duplex spacing	45MHz
Antenna type	External
Power Supply	Battery or charger
Rated Power Supply Voltage	7.2V
Extreme Temperature	Lowest: -30°C Highest: +50°C
Extreme Voltage	Minimum: 7.5V Maximum: 8.5V
HW Version	f60A
SW Version	YERP_WF832FHQ2V1.0.0B02

1.7.2 EUT details

Name	Model	IMEI
CDMA 1X Digital Fixed Wireless Phone	ZTE WF832	321592040100

1.7.3 Auxiliary equipment details

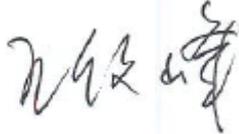
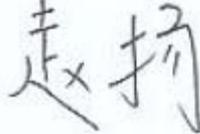
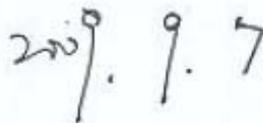
Equipment	Charger
Manufacturer	shenzhen RUIDE electronic industrial co.LTD.
Model Number	STC-A2012080C55

Equipment	Battery
Manufacturer	shenzhen highpower technology co.LTD.
Model Number	Ni7215T60P3S534431
Capacity	1500mAh
Rated Voltage	7.2V

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: Mr. Song Qizhu, Director of the test lab 	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 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:

Channel No.	Effective Radiated Power (E.R.P.) (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Verdict
1013	138.0	0.0274	0.550	Pass
384	144.5	0.0287	0.558	Pass
777	134.9	0.0268	0.566	Pass