D-PL-12111-01-01

CNAS L0447

Registration No.910917

TEST REPORT

Report No.: SRTC2012-H024-E0049

Product Name: CDMA 1X Wireless Phone

Product Model: ZTE WP850

Applicant: ZTE Corporation

Manufacturer: ZTE Corporation

Specification: FCC Part15B (Certification)

(October 1, 2009 edition)

FCC ID: Q78-ZTEWP850

The State Radio_monitoring_center Testing Center (SRTC)

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

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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 Testing Center (SRTC)
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1.3 Applicant's details

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1.4 Manufacturer's details

Company: ZTE Corporation
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Country or Region: P.R.China
Contacted person: Li Dezi
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Fax: +86-021-50801070
Email: li.dezi@zte.com.cn

1.5 Application details

Date of reception of test sample: 7th Aug 2012
Date of test: 7th Aug 2012 to 14th Aug 2012

1.6 Reference specification

FCC Part 15B October 1, 2009 (Certification)

1.7 Information of EUT

1.7.1 General information

Name of EUT	CDMA 1X Wireless Phone
FCC ID	Q78-ZTEWP850
Frequency range	Tx:824~849MHz Rx:869~894MHz
Rated output power	24.0dBm
E.R.P.	22.4dBm
Modulation type	OQPSK
Emission Designator	1M25F9W
Duplex mode	FDD
Equipment Class	Class B
Duplex spacing	45MHz
Antenna type	Fixed Integral
USB Data Transfer Rate	12Mbps
Power Supply	Battery or charger
Rated Power Supply Voltage	3.7V
Extreme Temperature	Lowest: -30°C Highest: +50°C
Extreme Voltage	Minimum: 3.4V Maximum: 4.2V
HW Version	fe1A
SW Version	TTSL_WP850V1.0.0B01

1.7.2 EUT details

Name	Model	MEID
CDMA 1X Wireless Phone	ZTE WP850	A1000023342A50

1.7.3 Auxiliary equipment details

AE (Auxiliary Equipment) 1#: Charger

Equipment	Charger
Manufacturer	ZTE CORPORATION
Model Number	STC-A22O50U5-A
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

AE (Auxiliary Equipment) 2#: Battery

Equipment	Battery
Manufacturer	ZTE CORPORATION
Model Number	Ni3607T30P3S473211
Capacity	700mAh
Rated Voltage	3.6V d.c.

AE (Auxiliary Equipment) 3#: Headset

Equipment	Headset
Manufacturer	fujikon
Model Number	HMZ1-OMTP-3.5

2. Test information

2.1 Summary of the test results

No.	Test case	FCC reference	Verdict
1	Conducted emissions	15.107	Pass
2	Radiated emissions	15.109	Pass

This Test Report Is Issued by: Mr. Song Qizhu Director of the test lab	Checked by: Mr. Wang Junfeng Deputy director of the test lab
Tested by: Mr. Wu Chengwang Test engineer	Issued date: **2012.09.10**

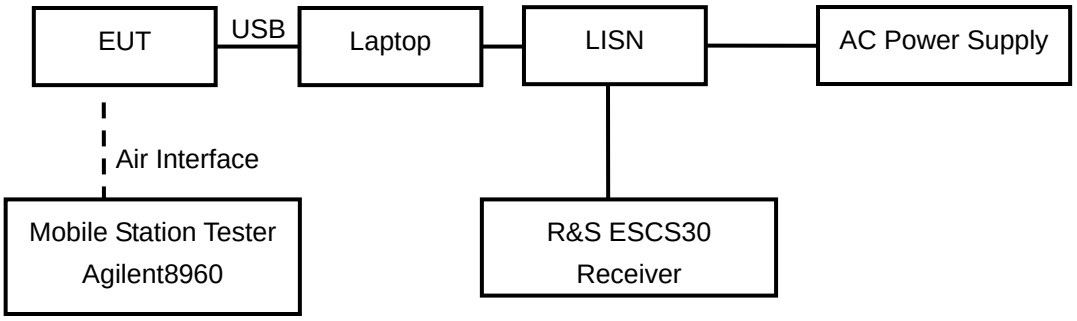
2.2 Test result

2.2.1 Conducted Emissions-FCC Part15.107

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	38.4%	99.8kPa

Test Setup:



Test Procedure:

The EUT is placed on a non-metallic table 0.4m above the horizontal metal reference ground plane. The EUT connect with a laptop via the USB cable. The accessories of the EUT are connected with the EUT such as headset etc. During the test the data transferring via USB cable between EUT and laptop is maintained. The AC main power supply of the laptop is connected to LISN and LISN is connected to the reference ground. The test set-up and the test methods are performed according to ANSI C63.4:2009. All tests are performed with the maximum RF transmit power setting and the maximum USB data transfer rate setting. Then start the test software ES-K1. Sweep the whole frequency band through the range from 150 KHz to 30 MHz. The measurement should be done for both L line and N line. During pre-test, the receiver uses both peak detector and average detector. And the final test, the receiver uses both average detector and Quasi-peak detector.

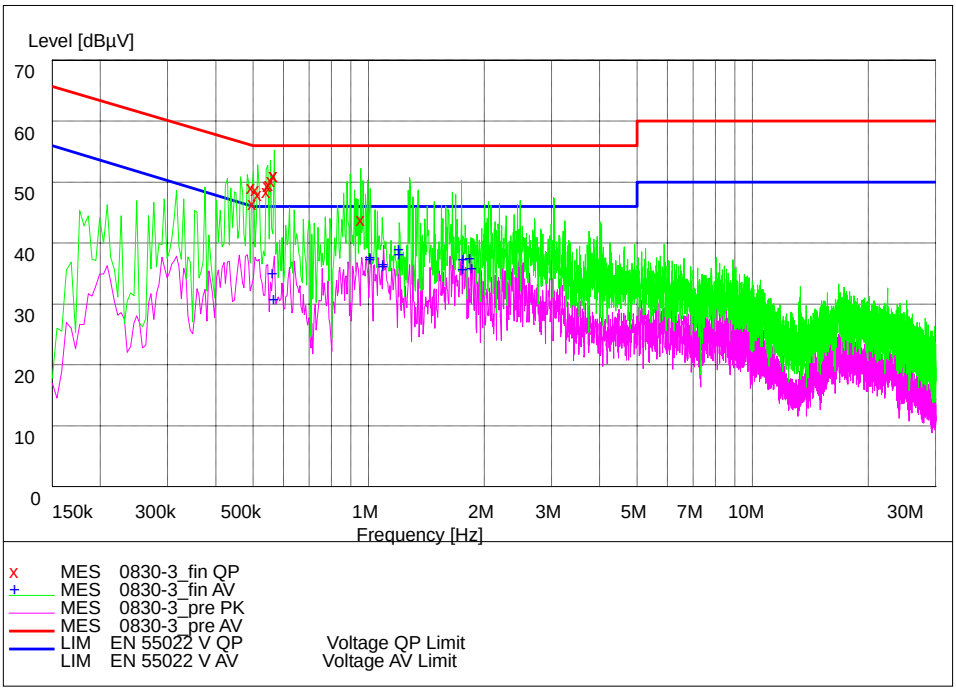
The data of cable loss has been calibrated in full testing frequency range before the testing.

Limit:

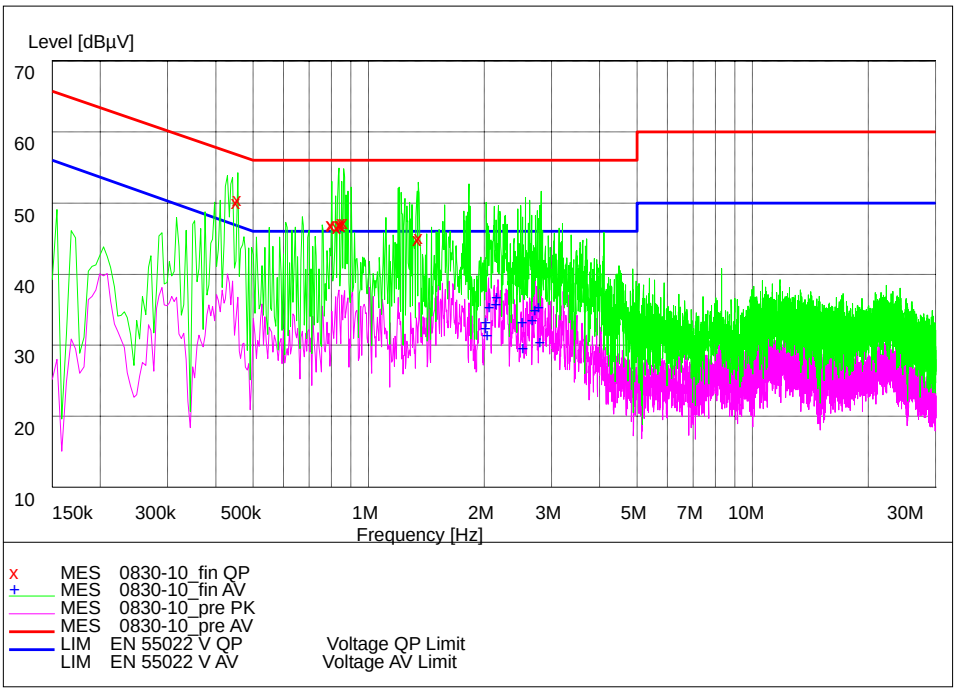
Frequency of Emission(MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15～0.5	66 to 56*	56 to 46*
0.5～5	56	46
5～30	60	50

Note: * Decreases with the logarithm of the frequency

Test result:



Pic.1 L Line



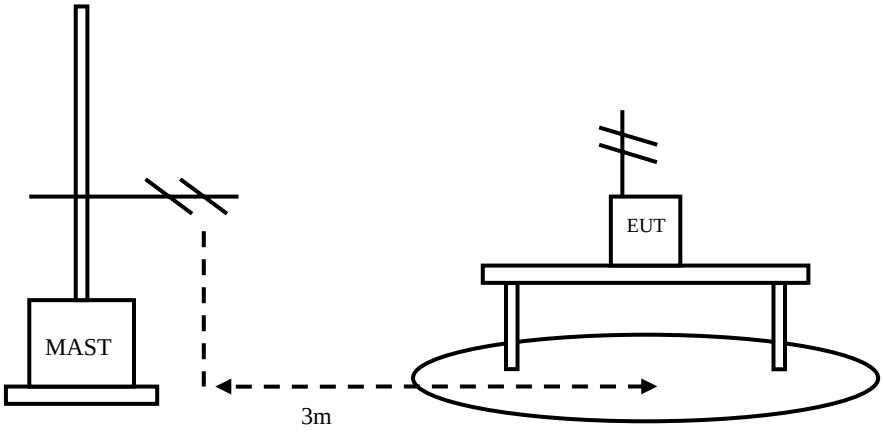
Pic.2 N Line

2.2.2 Radiated Emissions-FCC Part15.109

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	38.7%	99.8kPa

Test Setup:



Test Procedure:

The EUT should be placed on a non-metallic table 80cm above the ground plane. The receive antennas shall be moved from 1 to 4 meters. The distance between EUT and receive antenna should be 3 meters.

The accessories of the EUT are connected with the EUT such as headset etc. During the test the data transferring via USB cable between EUT and laptop is maintained. The test set-up and the test methods are performed according to ANSI C63.4:2009. All tests are performed with the maximum RF transmit power setting and the maximum USB data transfer rate setting.

Then start the test software ES-K1. Sweep the whole frequency band through the range from 30MHz to 1GHz, using receive log period antenna HL562.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna.

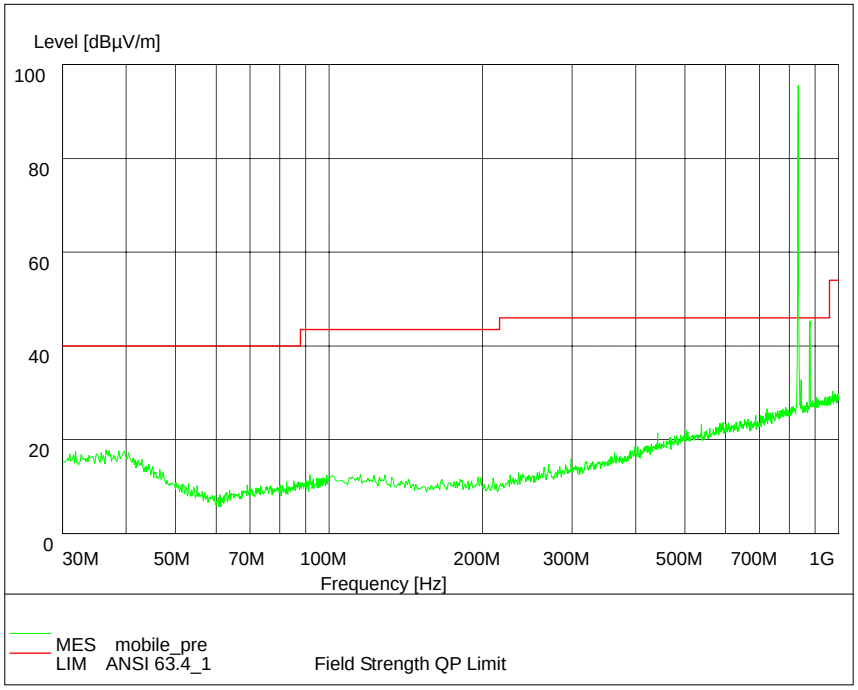
The data of cable loss and antenna factor have been calibrated in full testing frequency range before the testing.

The measurement is carried out using a spectrum analyzer with the quasi-peak and average detector. The RBW is set to 100kHz for 30MHz to 1GHz, 1MHz for above 1GHz on spectrum analyzer. And VBW is set to a value equal to three times of the RBW on spectrum analyzer.

Limit:

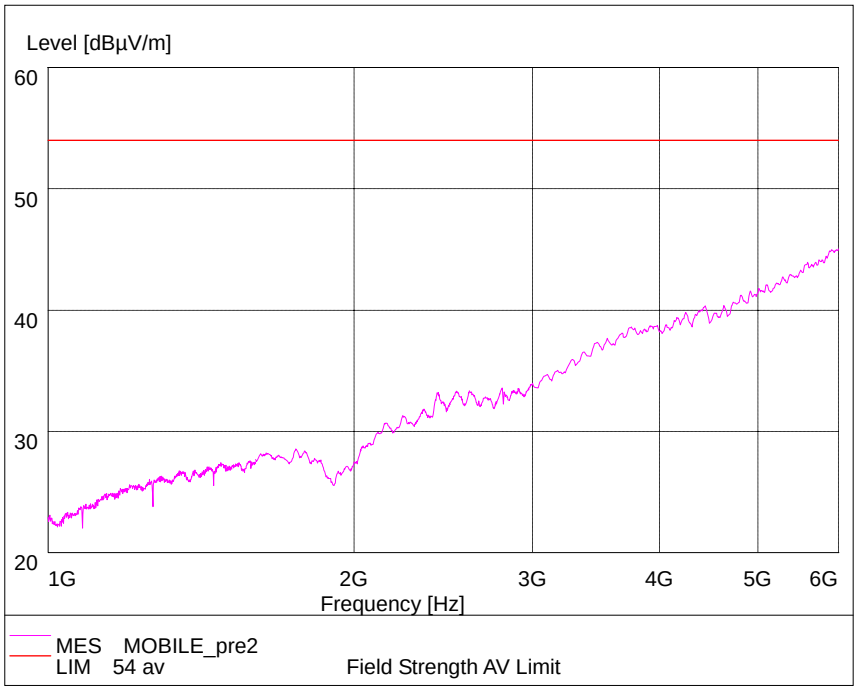
Frequency of Emission (MHz)	Limits	
	Detector	Unit (dBμV/m)
30～88	Quasi-peak	40
88～216	Quasi-peak	43.5
216～960	Quasi-peak	46
960～1000	Quasi-peak	54
1000～5th harmonic of the highest frequency or 40GHz, whichever is lower	Average	54

Test result:



Pic.3 CDMA 1X (30MHz – 1GHz)

Note: The signals beyond the limit are the base station and simulator carrier.



Pic.4 CDMA 1X (1GHz – 6GHz)

2.3. List of test equipments

No.	Name/Model	Manufacturer	S/N	Calibration Due Date
1	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA	-----	19th Aug. 2012
2	ESI 40 EMI test receiver	R&S	100015	19th Aug. 2012
3	E5515C(8960) Mobile Station Tester	Agilent	GB44050904	19th Aug. 2012
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	19th Aug. 2012
5	ESCS30 EMI test receiver	R&S	100029	19th Aug. 2012
6	HL562 Ultra log test antenna	R&S	100016	19th Aug. 2012
7	ESH3-Z2 Pulse limiter	R&S	10002	19th Aug. 2012
8	ESH3-Z5 Attenuator	R&S	100020	19th Aug. 2012
9	ESH2Z11 LISN	R&S	50FH-020-10	19th Aug. 2012
10	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	19th Aug. 2012
11	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100029	19th Aug. 2012
12	PS2000 Turn Table	FRANKONIA	-----	19th Aug. 2012
13	MA260 Antenna Master	FRANKONIA	-----	19th Aug. 2012
14	ES-K1EMI test software	R&S	-----	19th Aug. 2012
15	HL562 Receive antenna	R&S	100167	19th Aug. 2012

Appendix