

TEST REPORT

REPORT NUMBER: I10CA7003-FCC-Part22

ON

Type of Equipment: CDMA 1X Digital Mobile Phone
Type of Designation: ZTE-C S550
Manufacturer: ZTE Corporation

ACCORDING TO
FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO
TREATY MATTERS; GENERAL RULES AND REGULATIONS;
e-CFR, April 24, 2009
PART 22, PUBLIC MOBILE SERVICES (April 24, 2009)

China Telecommunication Technology Labs.

Month date, year
Aug, 23, 2010

Signature

A handwritten signature in blue ink, appearing to be 'He Guili'.

He Guili
Director

FCC ID: Q78-ZTECS550

Report Date: 2010-08-23

Test Firm Name: China Telecommunication Technology Labs

Registration Number: 840587

Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, and 22. The sample tested was found to comply with the requirements defined in the applied rules.

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1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2 and 22.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

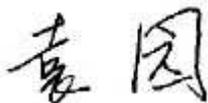
The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex A.

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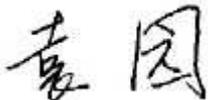
1.2 Testers

Name: Yuan Yuan
Position: Engineer
Department: Department of EMC test
Signature:



Editor of this test report:

Name: Yuan Yuan
Position: Engineer
Department: Department of EMC test
Date: 2010-08-23
Signature:



Technical responsibility for area of testing:

Name: Zhang Xia
Position: Manager
Department: Department of EMC test
Date: 2010-08-23
Signature:



1.3 Testing Laboratory information

1.3.1 Location

Name: China Telecommunication Technology Labs.
Address: No. 11, Yue Tan Nan Jie, Xi Cheng District
BEIJING
P. R. CHINA, 100083
Tel: +86 10 68094053
Fax: +86 10 68011404
Email: emc@chinattl.com

1.3.2 Details of accreditation status

Accredited by: China National Accreditation Service for Conformity
Assessment (CNAS)
Registration number: CNAS Registration No. CNAS L0570
Standard: ISO/IEC 17025:2005

1.3.3 Test location, where different from section 1.3.1

Name: -----
Street: -----
City: -----
Country: -----
Telephone: -----
Fax: -----
Postcode: -----

1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name: ZTE Corporation
Address: ZTE Plaza, Keji Road South, Hi-Tech Industrial Park,
Nanshan District, Shenzhen, Guangdong, 518057,
P.R.China
Country: P.R.China
Telephone: 86-21-68895196
Fax: 86-21-68895196
Contact: chen yanli
Telephone: 86-21-68895196
Email: chen.yanli1@zte.com.cn

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --
Address: --
City: --
Country: --

1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: --
Address: --
City: --
Country: --

2 Test Item

2.1 General Information

Manufacturer: ZTE Corporation
 Name: CDMA 1X Digital Mobile Phone
 Model Number: ZTE-C S550
 Serial Number: 12805317904
 Production Status: Production
 Receipt date of test item: 2010-08-06

2.2 Outline of EUT

EUT is a CDMA 1X Digital Mobile Phone, and its operating band range is 824~849MHz.

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	CDMA 1X Digital Mobile Phone	ZTE Corporation	ZTE-C S550	--	None
B	Adaptor	Ruide Electrical Industrial Co Ltd	STC-A2205017 00USBA-Z	--	None
C	Battery	ZTE Corporation	LP053450A5U	--	None
D	Earphone	ZTE Corporation	--	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	DC cable	Unknown	1.2 m	No	1	None

2.5 Other Information

3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

Specification Clause	Name of Test	Result
2.1051,22.917	Radiated Spurious Emission	Pass
22.913(a)	Radiated RF Power Output	Pass
2.1049,22.917(b)	Occupied Bandwidth	*Note 1
2.1055,22.355	Frequency Stability over Temperature Variation	Pass
2.1055,22.355	Frequency Stability over Voltage Variation	Pass
2.1046,22.913(a)	Conducted RF Power Output	Pass
2.1051,22.917	Conducted spurious emissions	Pass
22.917	Emission bandwidth and Band-edge conducted	Pass
Note 1: No applicable performance criteria.		

4 Test Results

4.1 Radiated Spurious Emission

Specifications:	2.1051, 22.917					
Date of Tests	2010-08-12					
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 384					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2011-01-11	Normal
7330	Ultra Broadband Antenna	SCHWARZBECK	VULB 9160	--	2010-10-26	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2010-11-17	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-16	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	2011-06-08	Normal

Limit Level Construction:

According to Part 22.917 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, so the limit level is:
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$

Limits for Radiated spurious emissions(UE)

Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

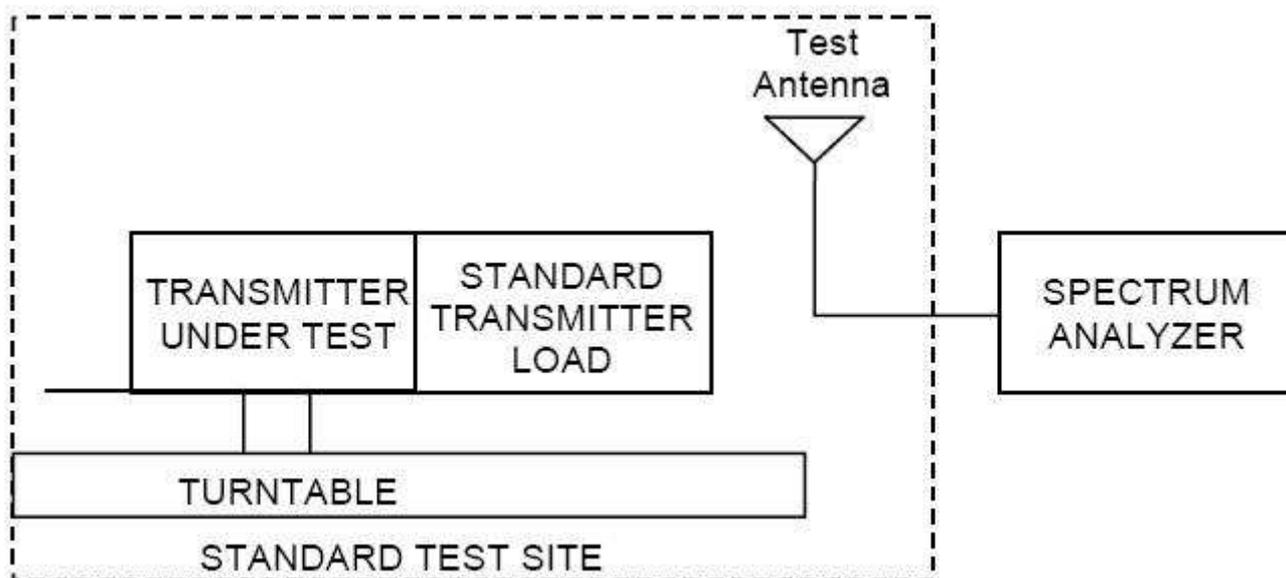
Test Setup:

The EUT was placed in an anechoic chamber, see figure SP. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

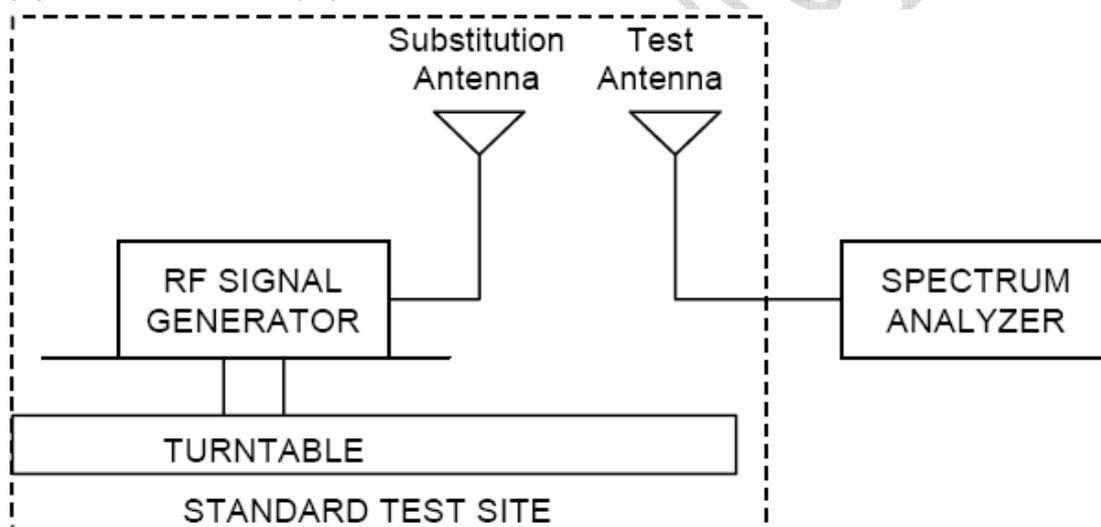
Test Method:

The measurement method is substitution method accordance with section 2.2.12 of ANSI/TIA-603-B: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above.



(b) Reconnect the equipment as illustrated.



(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna should be approximately at the same location as the center of the transmitter.

(d) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

(e) Repeat step d) with both antennas vertically polarized for each spurious

frequency.

(f) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps d) and e) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

where:

P_d is the dipole equivalent power and

P_g is the generator output power into the substitution antenna.

Test Data (channel 384)

Frequency [GHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1.67336673	-44.16	0.5	8.77	-35.89	V
2.50905900	-55.81	0.6	10.20	-46.21	V
3.3408000	-49.95	0.6	10.00	-40.55	V
4.18209900	-50.94	0.6	10.37	-41.17	V
5.0192100	-50.94	0.7	10.91	-40.73	V
5.855139	-50.94	0.7	10.18	-41.46	V
1.67336673	-44.65	0.5	8.77	-36.38	H
2.50907576	-54.88	0.6	10.20	-45.28	H
3.34089219	-52.64	0.6	10.00	-43.24	H
4.1811576	-51.29	0.6	10.37	-41.52	H
5.0191200	-44.58	0.7	10.91	-34.37	H
5.855139	-43.72	0.7	10.18	-34.24	H

4.2 Radiated RF Power Output

Specifications:	22.913(a)					
Date of Tests	2010-08-12					
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 991, 384 and 799					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2011-01-11	Normal
7330	Ultra Broadband Antenna	SCHWARZBECK	VULB 9160	--	2010-10-26	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-16	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	2011-06-08	Normal

Limit Level Construction:

ERP: According to Part 22.913(a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

Limits for ERP

Frequency range	Limit Level (ERP)
TX channel	7W or 38.5dBm

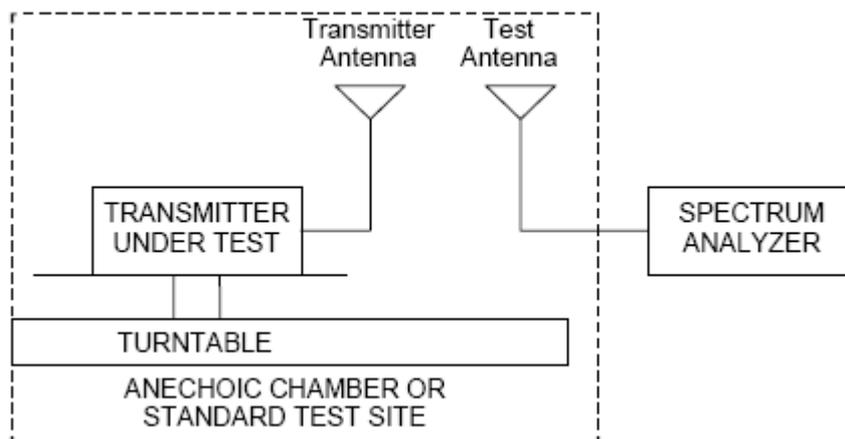
Test Setup:

The EUT was set in an anechoic chamber, which is connected to the Wireless Communications Test Set located outside the chamber. The test was done using an automated test system, where all test equipments were controlled by a computer. The test distance separation from the receive antenna is 3 meters.

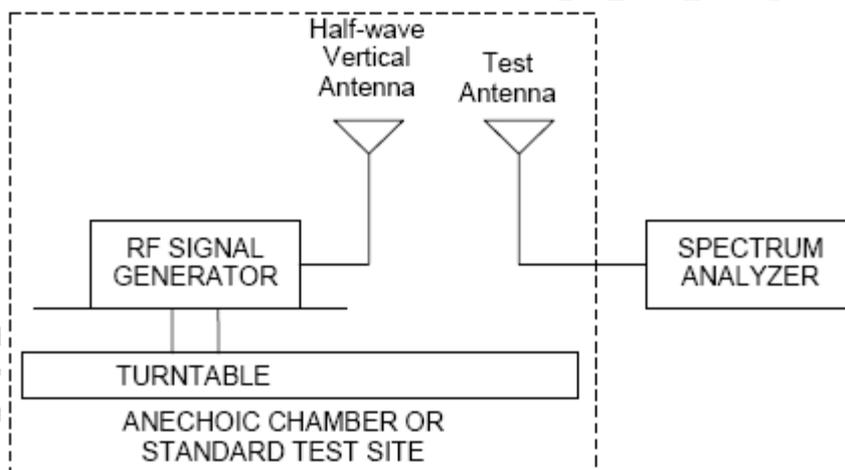
Test Method

The measurement was performed accordance with section 2.2.17 of ANSI/TIA-603-B: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

- a) Connect the equipment as illustrated. Mount the equipment in a vertical orientation on a multi-axis plastic holder in a RF anechoic chamber.



- b) Key the transmitter on, then rotate the EUT 360 degree azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks.
- c) Replace the transmitter under test with a vertically polarized half-wave dipole, or an antenna whose gain is known relative to an ideal half-wave dipole, illustrated as following. The center of the antenna should be at the same location as the center of the antenna under test.



- d) Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS.

$$\text{LOSS} = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$$

- e) Determine the effective radiated output power at each angular position from the readings in steps b) and d) using the following equation:

$$\text{ERP (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$$

- f) The maximum ERP is the maximum value determined in the preceding step.

Method of Calculation

ERP can then be calculated as follows:

$$P_d \text{ (dBm)} = P_g \text{ (dBm)} - \text{Losses (dB)} + \text{Antenna Gain (dBd)}$$

where:

dBd refers to gain relative to an ideal dipole.

Test Data:

Channel	Output power (Pg) [dBm]	Loss [dB]	Antenna Gain [dBd]	ERP (P _d) [dBm]
1013	21.43	0.3	2.73	23.86
384	20.02	0.5	2.80	22.32
777	16.50	0.5	2.87	18.87

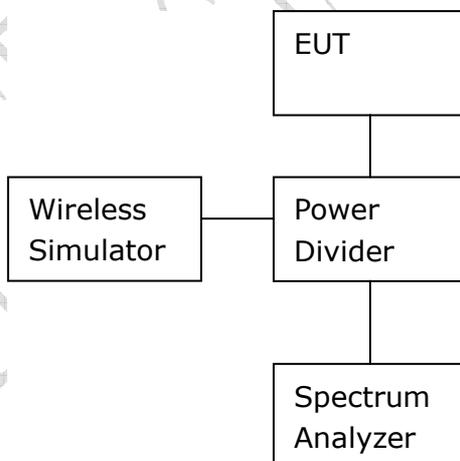
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4.3 Occupied bandwidth (Conducted)

Specifications:	2.1049					
Date of Test	2010-08-11					
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 1013, 384, 777					
Test Results:	--					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7357	Spectrum Analyzer	Agilent	E4440A	MY42510354	2011-01-28	Normal
7347	Wireless Communications Test Set	Agilent	8960(E5515C)	GB43046042	2011-07-26	Normal

Test Setup

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method

The 99% occupied bandwidth was calculated from the spectrum analyzer. Markers in the spectrum analyzer were then placed between the calculated frequencies to show the calculated 99% power band.

Note:

None

Test Data:

FCC Parts 2, 22
Equipment: ZTE-C S550

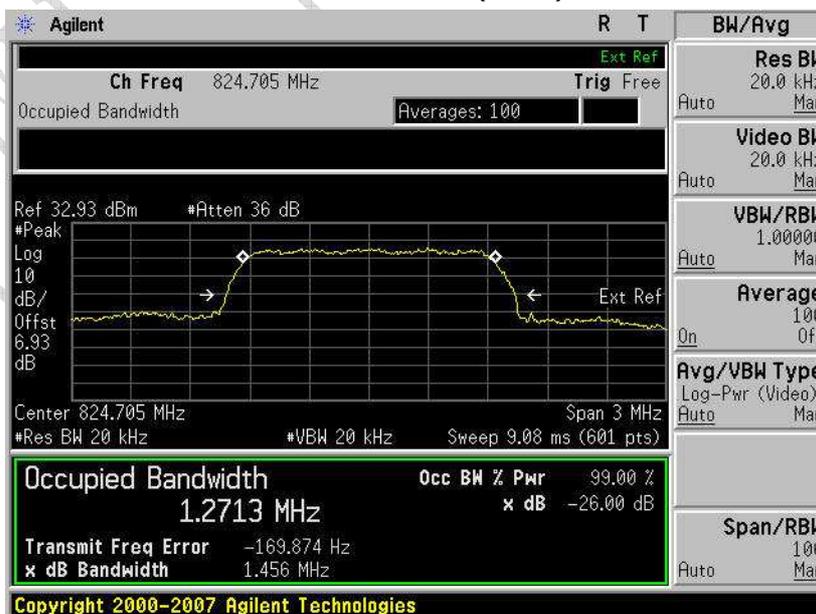
REPORT NO.: I10CA7003-FCC-Part22

EUT channel no.	99% occupied bandwidth [MHz]
1013	1.2740 (RC 1) 1.2713 (RC 3)
384	1.2734 (RC 1) 1.2711 (RC 3)
777	1.2647 (RC 1) 1.2661 (RC 3)

Graphical results:



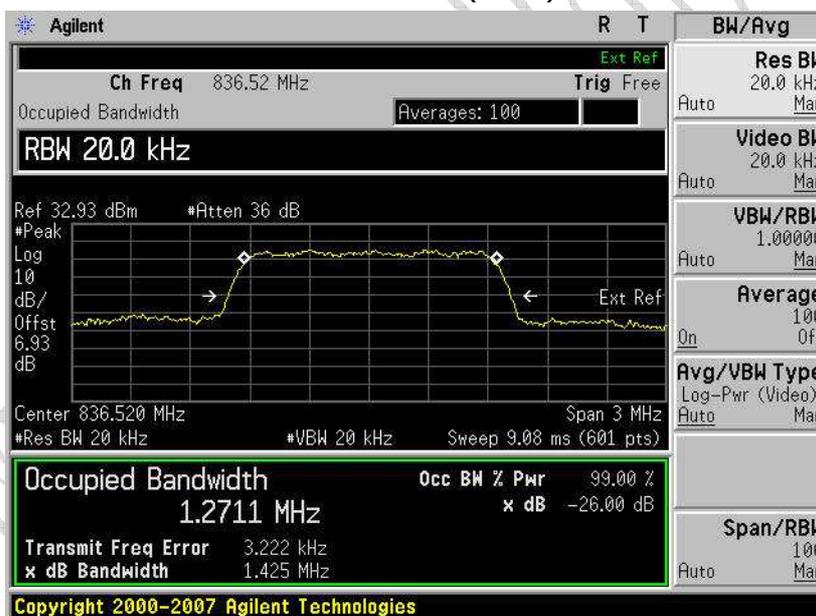
Channel 1013 (RC 1)



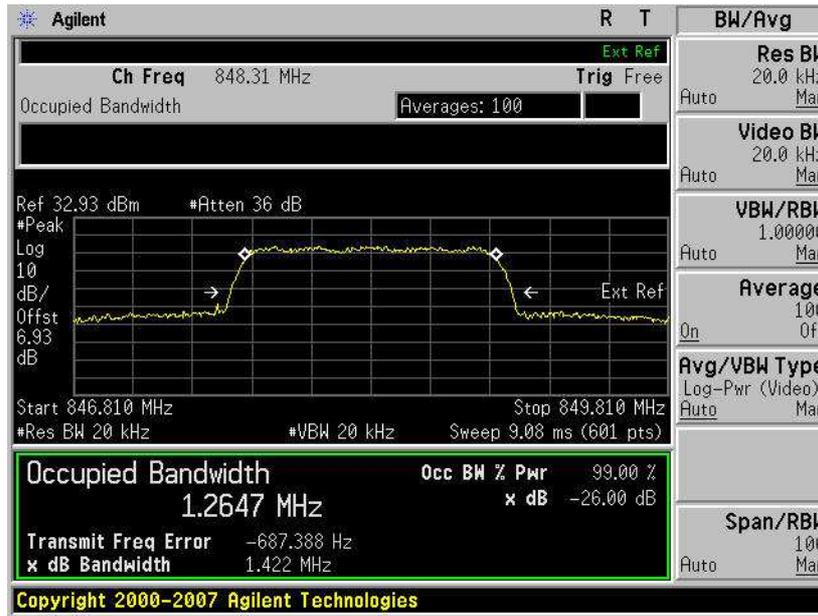
Channel 1013 (RC 3)



Channel 384 (RC 1)



Channel 384 (RC 3)



Channel 777 (RC 1)



Channel 777 (RC 3)

4.4 Frequency Stability over Temperature Variation

Specifications:	2.1055,22.355					
Date of Test	2010-08-12 ~ 2010-08-13					
Test conditions:	Ambient Temperature:-30°C-50°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 384					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7347	Wireless Communications Test Set	Agilent	8960(E5515C)	GB43046042	2011-07-26	Normal
7316	Temperature Chamber	Espec Environmental Technology LTD.	SH-241	92000221	2012-05-19	Normal
Limit						
Frequency deviation [ppm]	±2.5					

Test Setup

The EUT was placed in a temperature chamber, demonstrated as figure T. The Wireless Telecommunications Test Set was used to set the Tx channel and power level, modulate the TX signal with different bit patterns and measure the frequency of Tx.

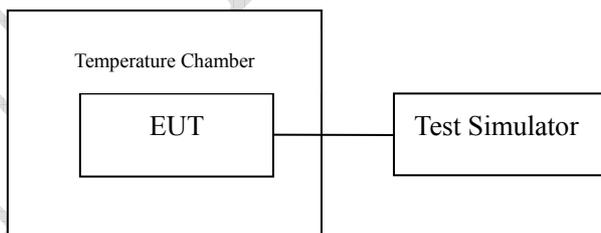


Figure T: setup for measurement of frequency stability over temperature variation

Test Method

1. The EUT was turned off and placed in the temperature chamber.
2. The temperature of the chamber was set to -30°C and allowed to stabilize.
3. The EUT temperature was allowed to stabilize for 45 minutes.
4. The EUT was turned on and set to transmit with Wireless Telecommunications Test Set.
5. The maximum transmit frequency deviation during one minute period was

measured by Wireless Communications Test Set.

6. The steps 3-5 were repeated for -20°C, -10°C, 0°C, 10°C, 20°C, 30°C, 40°C and 50°C.

Test data:

Table T1: frequency deviation over temperature variation

Temperature[°C]	Deviation[Hz]	Deviation[ppm]	Remarks
-30	17.5 (RC 1)	0.021 (RC 1)	Pass
	19.4 (RC 3)	0.023 (RC 3)	
-20	26.7 (RC 1)	0.032 (RC 1)	Pass
	23.5 (RC 3)	0.028 (RC 3)	
-10	13.2 (RC 1)	0.016 (RC 1)	Pass
	12.7 (RC 3)	0.015 (RC 3)	
0	22.6 (RC 1)	0.027 (RC 1)	Pass
	14.7 (RC 3)	0.017 (RC 3)	
10	15.7 (RC 1)	0.019 (RC 1)	Pass
	12.6 (RC 3)	0.015 (RC 3)	
20	17.3 (RC 1)	0.021 (RC 1)	Pass
	11.5 (RC 3)	0.014 (RC 3)	
30	15.3 (RC 1)	0.017 (RC 1)	Pass
	14.5 (RC 3)	0.017 (RC 3)	
40	19.3 (RC 1)	0.023 (RC 1)	Pass
	28.3 (RC 3)	0.039 (RC 3)	
50	26.8 (RC 1)	0.032 (RC 1)	Pass
	19.7 (RC 3)	0.024 (RC 3)	

4.5 Frequency Stability over Voltage Variation

Specifications:	2.1055,22.355					
Date of Test	2010-08-11					
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 384					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7347	Wireless Communications Test Set	Agilent	8960(E5515C)	GB43046042	2011-07-26	Normal
Limit						
Frequency deviation [ppm]	±2.5					

Test Setup

The EUT was placed in a shielding chamber and powered by an adjustable power supply, demonstrated as figure V. A Wireless Telecommunications Test Set was used to set the TX channel and power level, modulate the TX signal with different bit patterns and measure the frequency of TX.

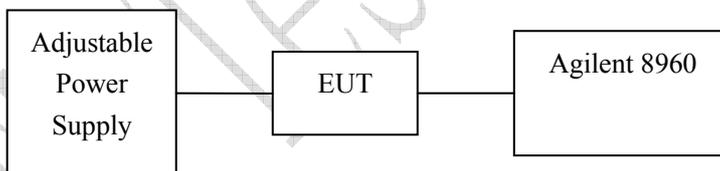


Figure V: test setup for measurement of frequency stability over voltage variation

Test Method

The EUT was powered by the adjustable power supply. The frequency stability is measured by the Wireless Telecommunications Test Set.

Test data:

Table V: frequency deviation over voltage variation

Level	Voltage[V]	Deviation[Hz]	Deviation[ppm]	Remarks
Nominal	3.7	21.1(RC1) 17.1(RC3)	0.025(RC1) 0.020(RC3)	Pass
Low end point	3.5	21.3(RC1) 25.7(RC3)	0.025(RC1) 0.031(RC3)	Pass
High end point	4.2	23.2(RC1) 16.1(RC3)	0.028(RC1) 0.019(RC3)	Pass

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4.6 Conducted RF Power Output

Specifications:	2.1046,22.913(a)
Date of Tests	2010-08-11
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	TX on, channel 1013, 384, 777
Test Results:	Pass

Test equipment Used:

Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7357	Spectrum Analyzer	Agilent	E4440A	MY42510354	2011-01-28	Normal
7347	Wireless Communications Test Set	Agilent	8960(E5515C)	GB43046042	2011-07-26	Normal

Limit Level Construction:

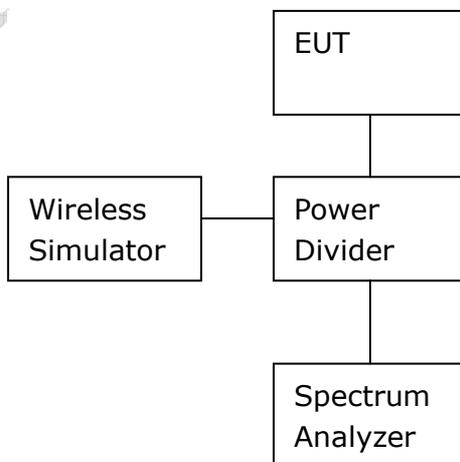
ERP: According to Part 22.913(a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

Limits for ERP

Frequency range	Limit Level (ERP)
TX channel	7W or 38.5dBm

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method

- 1) The EUT was coupled to the spectrum analyzer and the base station simulator through a power divider. The lost of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.
- 3) The resolution bandwidth of the spectrum analyzer was comparable to the emission bandwidth.

Note:

None

Test Results:

Channel No.	Peak output power [dBm]
1013	26.699 (RC 1)
	26.243 (RC 3)
384	26.453 (RC 1)
	26.217 (RC 3)
777	26.668 (RC 1)
	26.589 (RC 3)

4.7 Conducted Spurious Emission

Specifications:	2.1051,22.917					
Date of Tests	2010-08-12					
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 384					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7357	Spectrum Analyzer	Agilent	E4440A	MY42510354	2011-01-28	Normal
7347	Wireless Communications Test Set	Agilent	8960(E5515C)	GB43046042	2011-07-26	Normal

Limit Level Construction:

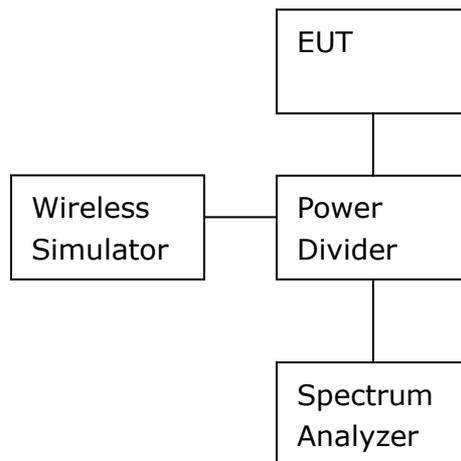
According to Part 24.238 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB, so the limit level is:
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$

Limits for Radiated spurious emissions(UE)

Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method

The measurement was performed accordance with section 2.2.13 of ANSI/TIA-603-B-2002: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency.

Note:

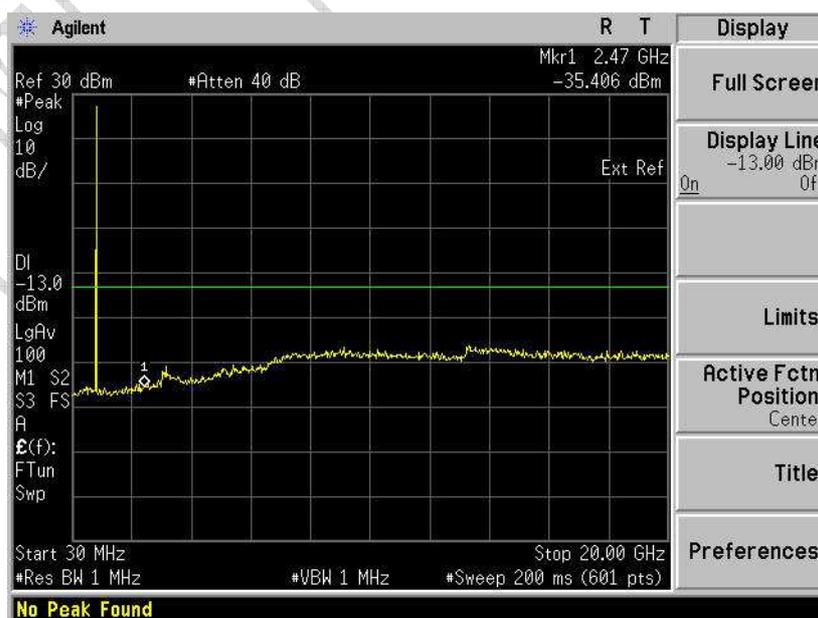
None

Test Results:

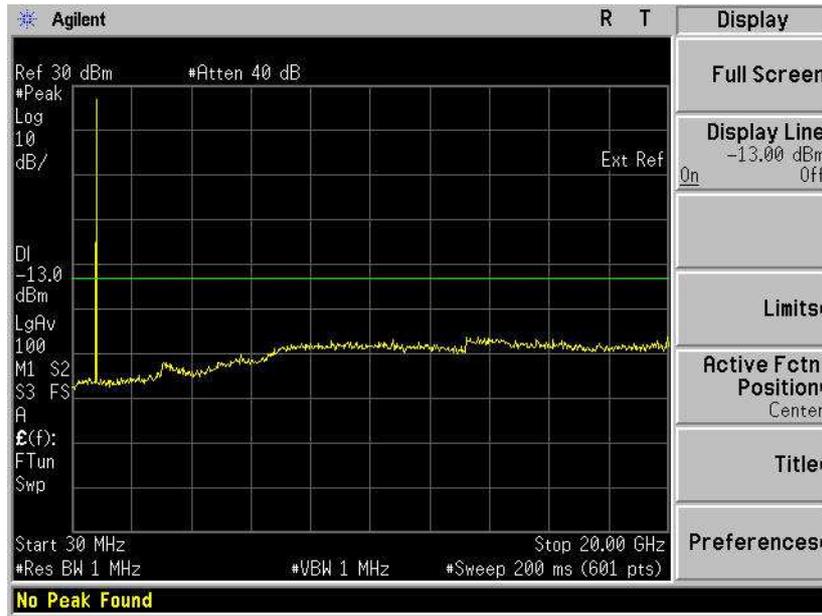
Channel 1013 :

Out of band emission	
Frequency [GHz]	Level (dBm)
1.6494	-36.31 (RC 1)
	-36.39 (RC 3)
2.4741	-35.74 (RC 1)
	-35.41 (RC 3)
3.2988	-32.15 (RC 1)
	-32.87 (RC 3)
4.1235	-34.72 (RC 1)
	-34.54 (RC 3)
4.9482	-31.91 (RC 1)
	-32.89 (RC 3)
5.7729	-31.26 (RC 1)
	-31.64 (RC 3)
6.5976	-30.04 (RC 1)
	-30.22 (RC 3)
7.4223	-28.96 (RC 1)
	-28.35 (RC 3)
8.2470	-27.75 (RC 1)
	-28.72 (RC 3)

Note:--



Channel 1013 (RC 1)



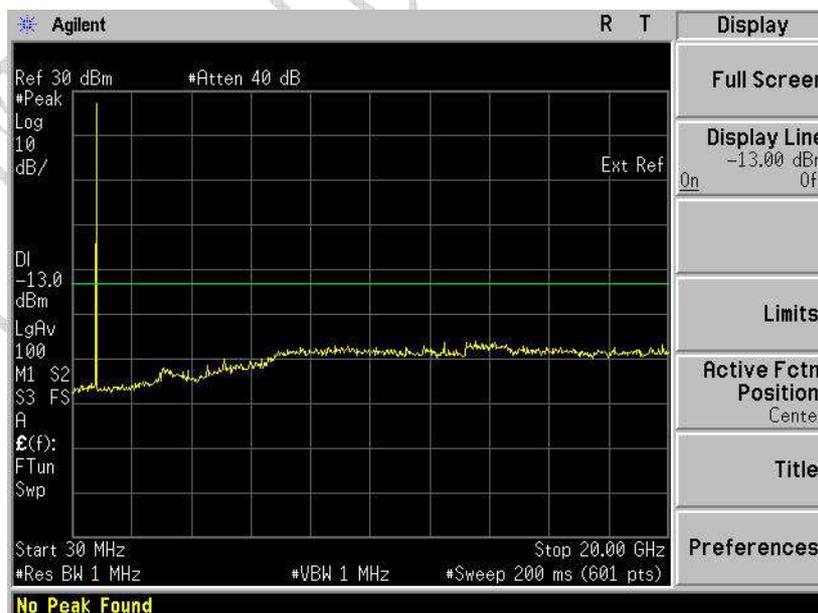
Channel 1013 (RC 3)

China Test Report

Channel 384:

Out of band emission	
Frequency [GHz]	Level (dBm)
1.67304	-36.35 (RC 1) -36.07 (RC 3)
2.50956	-35.23 (RC 1) -35.65 (RC 3)
3.34608	-32.98 (RC 1) -33.19 (RC 3)
4.1826	-34.92 (RC 1) -33.96 (RC 3)
5.01912	-32.36 (RC 1) -32.19 (RC 3)
5.85564	-32.31 (RC 1) -31.29 (RC 3)
6.69216	-29.81 (RC 1) -29.58 (RC 3)
7.52868	-28.66 (RC 1) -28.73 (RC 3)
8.3652	-27.92 (RC 1) -28.34 (RC 3)

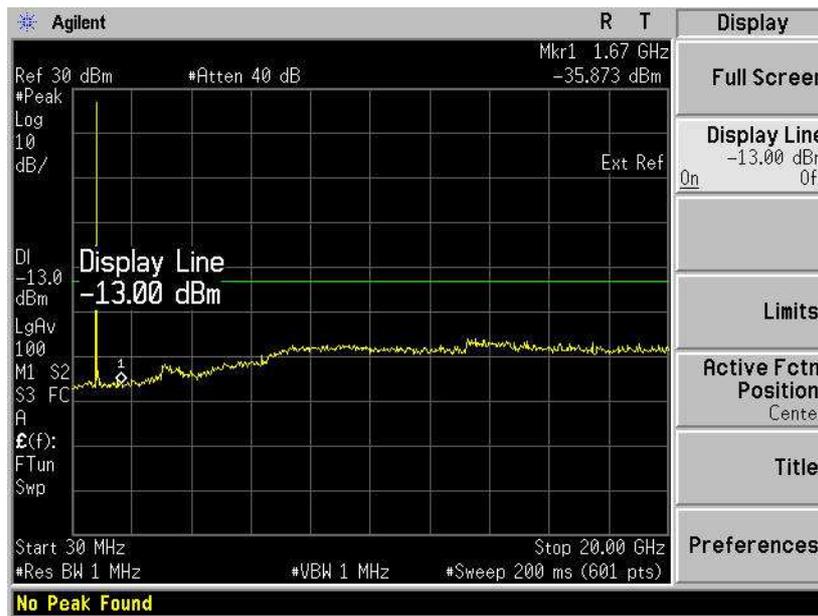
Note:--



Channel 384 (RC 1)

FCC Parts 2, 22
Equipment: ZTE-C S550

REPORT NO.: I10CA7003-FCC-Part22



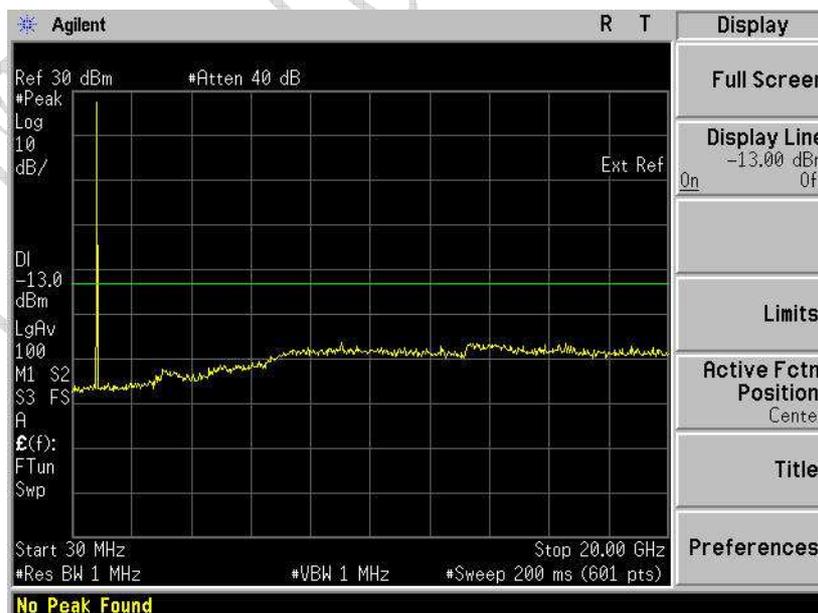
Channel 384 (RC 3)

Agilent Test Report

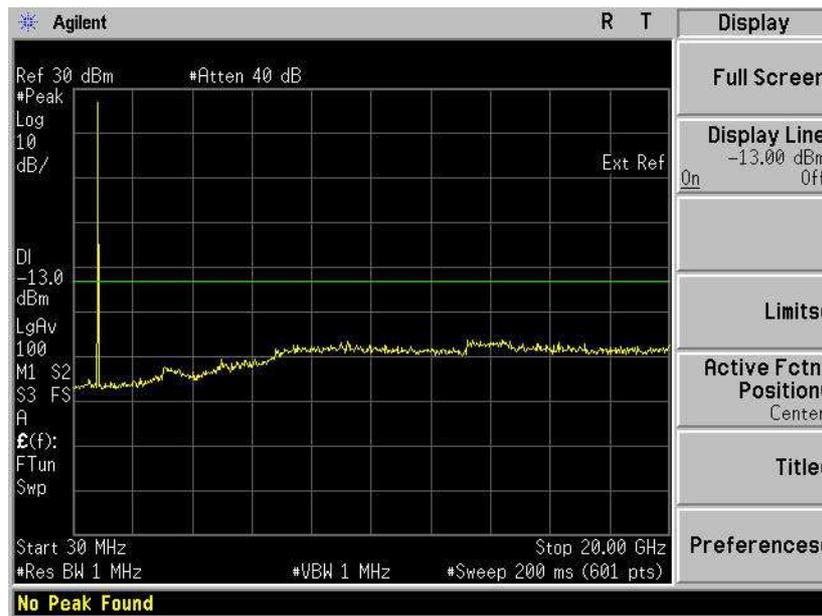
Channel 777:

Out of band emission	
Frequency [GHz]	Level (dBm)
1.69662	-36.61 (RC 1)
	-35.87 (RC 3)
2.54493	-35.41 (RC 1)
	-35.63 (RC 3)
3.39324	-33.51 (RC 1)
	-33.38 (RC 3)
4.24155	-34.58 (RC 1)
	-34.08 (RC 3)
5.08986	-32.32 (RC 1)
	-31.94 (RC 3)
5.93817	-32.16 (RC 1)
	-31.26 (RC 3)
6.78648	-30.48 (RC 1)
	-29.18 (RC 3)
7.63479	-28.88 (RC 1)
	-28.59 (RC 3)
8.4831	-28.95 (RC 1)
	-28.21 (RC 3)

Note:--



Channel 777 (RC 1)



Channel 777 (RC 3)

Channel Test Report

4.8 Emission bandwidth and Band-edge (conducted)

Specifications:	22.917					
Date of Tests	2010-08-11					
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7357	Spectrum Analyzer	Agilent	E4440A	MY42510354	2011-01-28	Normal
7347	Wireless Communications Test Set	Agilent	8960(E5515C)	GB43046042	2011-07-26	Normal

Limit Level Construction:

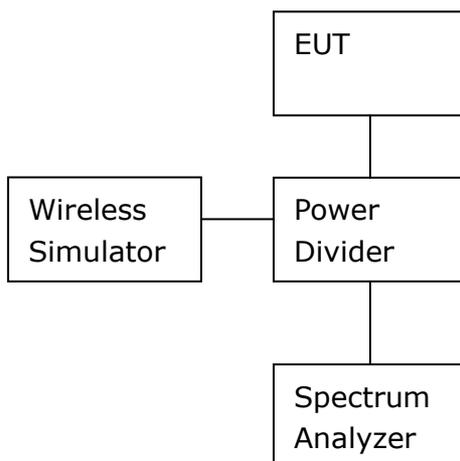
According to Part 24.238 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, so the limit level is:
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$

Limits for Radiated spurious emissions

Frequency range	Limit Level
Band edge	-13dBm

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.
- 3) The resolution bandwidth of the spectrum analyzer was a little greater than 1% of the 26dB emission bandwidth.

Note: --

Test Results:

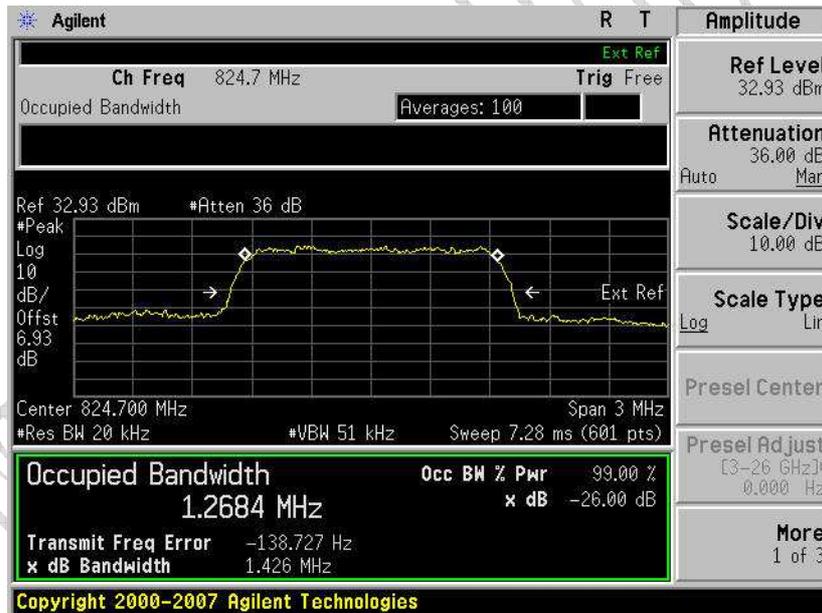
(1) Emission bandwidth (26 dB):

RBW=20 kHz, VBW=50 kHz

26 dB emission bandwidth	
Channel	26dB Bandwidth [MHz]
1013	1.425 (RC 1)
	1.426 (RC 3)
384	1.427 (RC 1)
	1.431 (RC 3)
777	1.431 (RC 1)
	1.428 (RC 3)



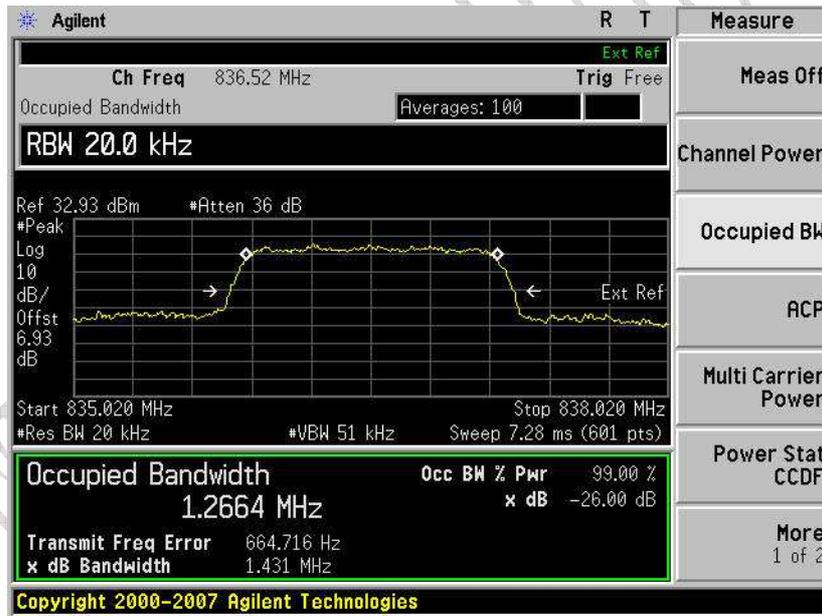
Channel 1013 26 dB bandwidth (RC 1)



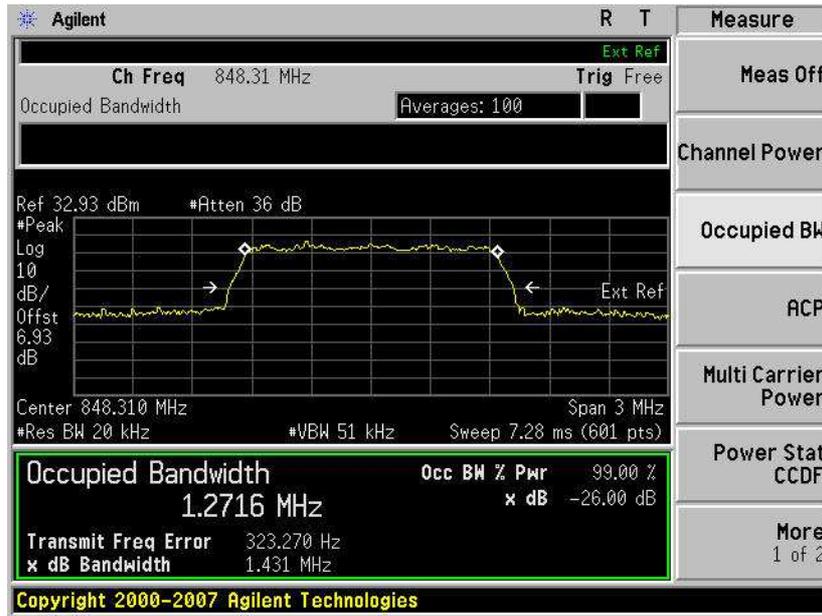
Channel 1013 26 dB bandwidth (RC 3)



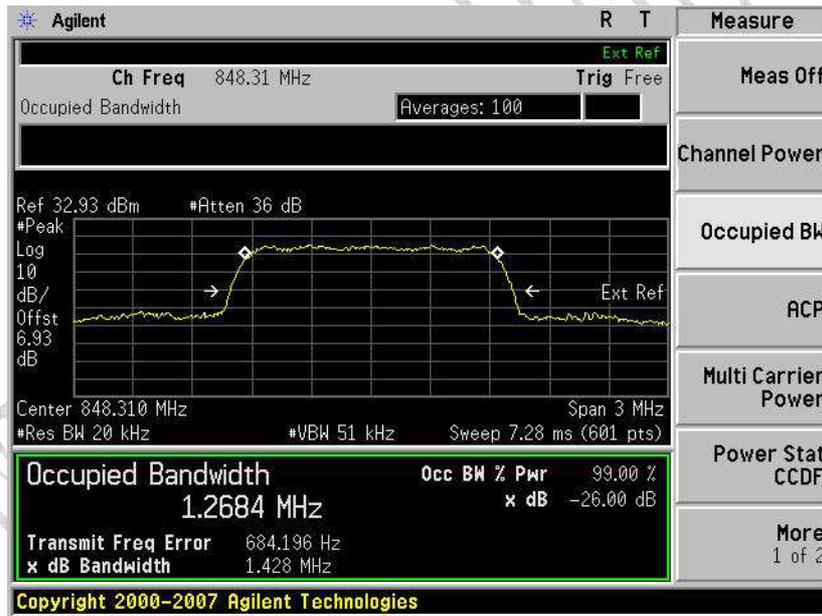
Channel 384 26 dB bandwidth (RC 1)



Channel 384 26 dB bandwidth (RC 3)



Channel 777 26 dB bandwidth (RC 1)



Channel 777 26 dB bandwidth (RC 3)

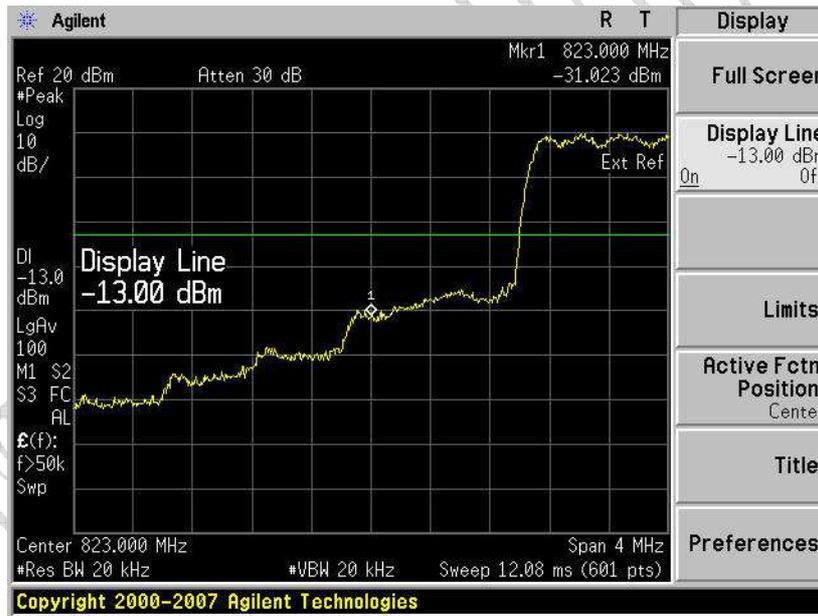
(2) band-edge emission:

RBW=VBW=20 kHz

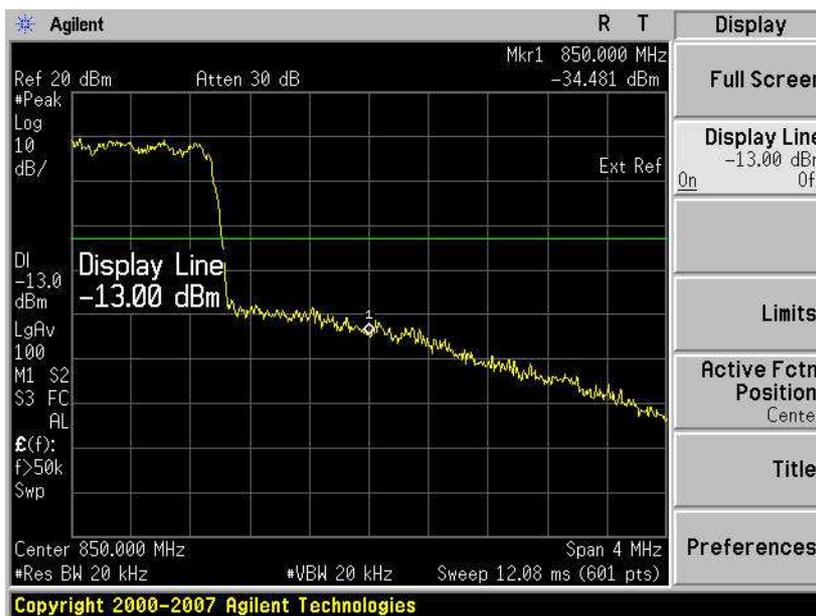
Band-edge emission		
EUT Channel	Frequency [MHz]	Level [dBm]
1013 left band edge	823.00000000	-32.476 (RC 1)
		-31.023 (RC 3)
777 right band edge	850.00000000	-34.481 (RC 1)
		-36.336 (RC 3)



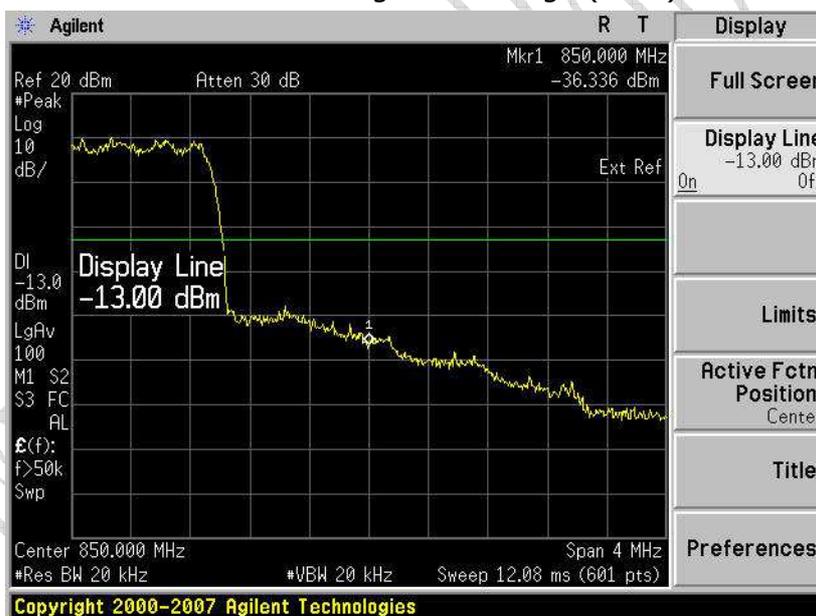
Channel 1013 Left band edge (RC 1)



Channel 1013 Left band edge (RC 3)



Channel 777 Right band edge (RC 1)



Channel 777 Right band edge (RC 3)

Annex A External Photos



Front view



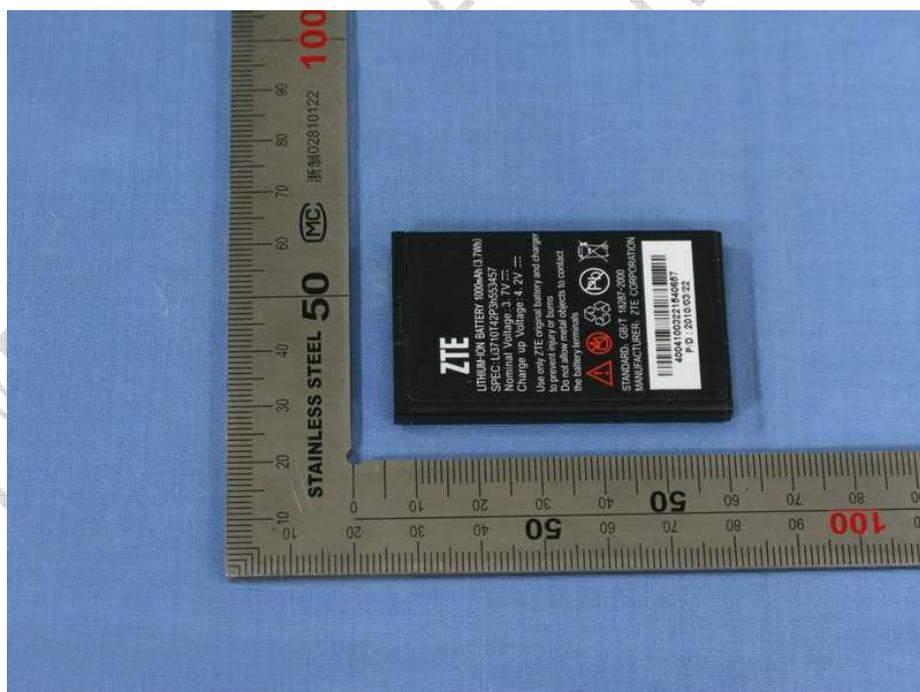
Back view

FCC Parts 2, 22
Equipment: ZTE-C S550

REPORT NO.: I10CA7003-FCC-Part22



Adaptor and Cable



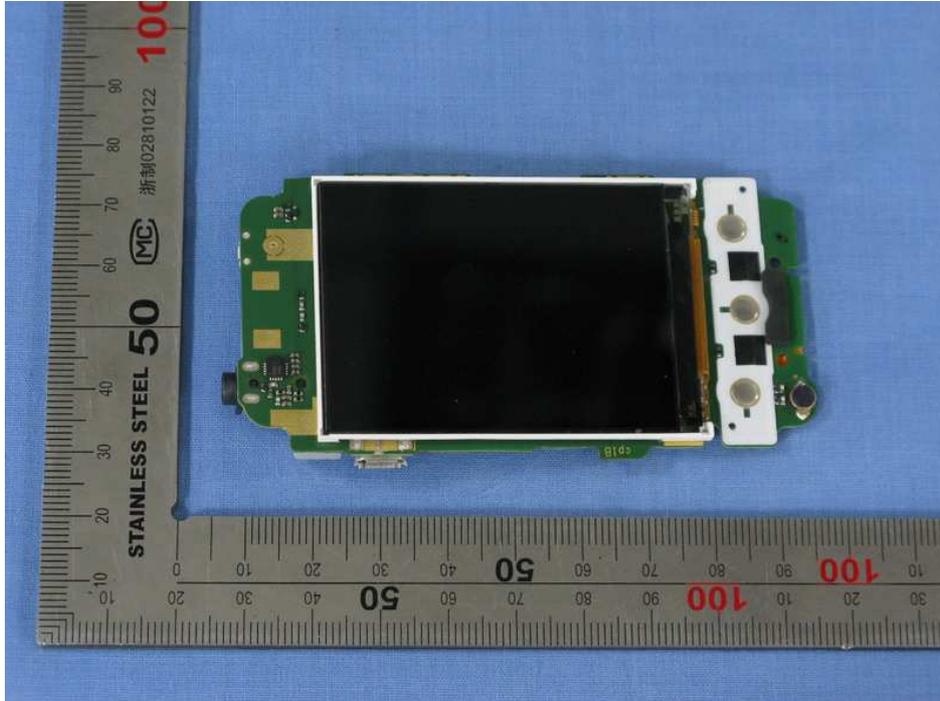
Battery



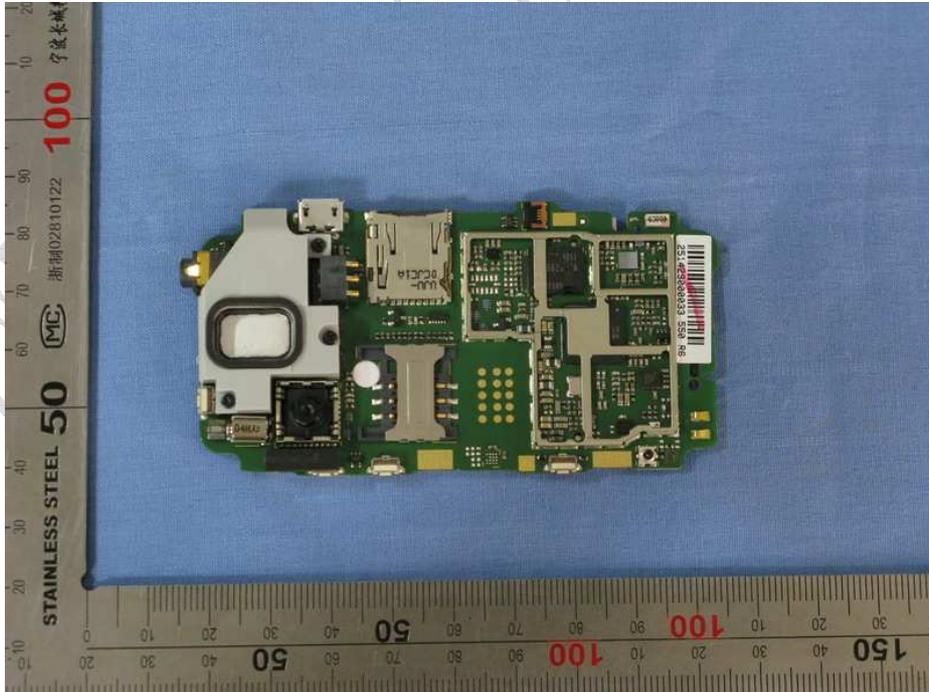
Earphone

China Test Report

Annex B Internal Photos



Main board (face)



Main board (back)

ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

———— The End of this Report ————

ATTN Test Report