



Variant FCC RF Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : CDMA/LTE Digital Mobile Handset
BRAND NAME : ZTE
MODEL NAME : ZTE FLASH 4G LTE
FCC ID : Q78-ZTEN9500
STANDARD : FCC 47 CFR Part 2, and 90(S)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Nov. 01, 2012 and completely tested on Nov. 09, 2012. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	N/A , Reporting only	PASS	-
3.2	§90.635(b)	Effective Radiated Power	< 100 Watts (50dBm)	PASS	-
3.3	§2.1051 §90.691	Emission masks – Out of band emissions	< 43+10log ₁₀ (P[Watts])	PASS	-
3.4	§2.1053 §90.691	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 47.13 dB at 2462.000 MHz

Note: (*) The test case of bandwidth limitations is waiver, and please refer to the appendix A.



1 General Description

1.1 Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.2 Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	CDMA/LTE Digital Mobile Handset
Brand Name	ZTE
Model Name	ZTE FLASH 4G LTE
FCC ID	Q78-ZTEN9500
EUT supports Radios application	CDMA/EV-DO/LTE/WLAN 11bgn/Bluetooth/Bluetooth4.0 – LE/NFC
HW Version	c7zB
SW Version	N9500V1.0.0B13
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	CDMA2000 BC10 : 817.9 MHz ~ 823.1 MHz
Rx Frequency	CDMA2000 BC10 : 903.8 MHz ~ 914.2 MHz
Maximum Output Power to Antenna	CDMA2000 BC10 : 24.35 dBm
Antenna Type	PIFA Antenna
Type of Modulation	CDMA2000 : QPSK CDMA2000 1xEV-DO : 8PSK



1.5 Maximum ERP Power

FCC Rule	System	Type of Modulation	Maximum ERP (W)
Part 90S	CDMA2000 BC10 1xRTT	QPSK	0.0721

1.6 Testing Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.		
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958		
Test Site No.	Sporton Site No.		FCC/IC Registration No.
	TH01-KS	03CH01-KS	149928/4086E-1

1.7 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- Preliminary Guidance for Receiving Applications for Certification of 3G Device. May 9, 2006.
- FCC 47 CFR Part 2, 90
- ANSI / TIA / EIA-603-C-2004
- FCC Document is used to wavier Part 90.209 bandwidth limitations, please refer to Appendix A.

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

Test Modes		
Band	Radiated TCs	Conducted TCs
CDMA2000 BC10	■ 1xRTT Link Mode	■ 1xRTT Link Mode

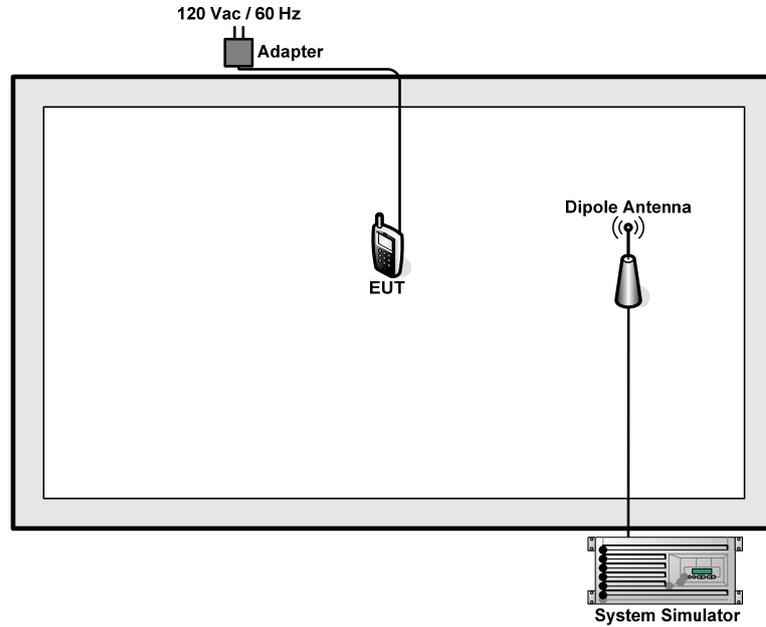
Note:

1. The maximum RF output power levels are 1xRTT RC1+SO55 mode for CDMA2000 BC10 on QPSK Link; only these modes were used for all tests.
2. Because there are individual antennas for each WWAN, WLAN, and Bluetooth, the co-location test modes are not required.

The conducted power table is as follows:

Band	Conducted Power (*Unit: dBm)		
	CDMA2000 BC10		
Channel	476	580	684
Frequency	817.9	820.5	823.1
1xRTT RC1+SO55	24.35	24.29	24.23
1xRTT RC3+SO55	24.31	24.26	24.20
1xRTT RC3+SO32(+F-SCH)	24.33	24.31	24.23
1xRTT RC3+SO32(+SCH)	24.30	24.28	24.22
1xEV-DO RTAP 153.6K	24.23	24.20	24.12
1xEV-DO RETAP 4096K	24.25	24.20	24.01

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m



2.4 Measurement Results Explanation Example

For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and 10dB attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and 10dB attenuator factor.

Offset = RF cable loss + attenuator factor.

Following table shows an offset computation example with cable loss 4.2 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

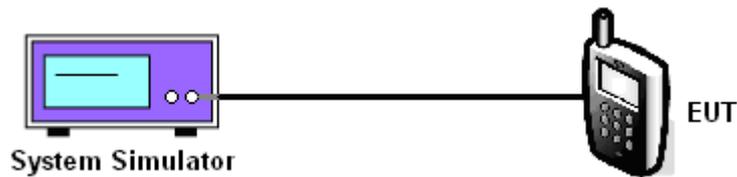
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

CDMA2000 BC10			
Test Mode	CDMA 2000 1xRTT		
Test Status	RC1+SO55		
Channel	476 (Low)	580 (Mid)	684 (High)
Frequency (MHz)	817.90	820.50	823.10
Conducted Power (dBm)	24.35	24.29	24.23
Conducted Power (Watts)	0.27	0.27	0.26

Note: maximum average power for CDMA2000.



3.2 Effective Radiated Power Measurement

3.2.1 Description of the ERP Measurement

The ERP is measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The ERP of mobile transmitters must not exceed 100 Watts according to FCC Part 90.635.

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The EUT was placed on a turntable with 1.0 meter height in a fully anechoic chamber.
2. The EUT was set at 1.2 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiated power.
4. The height of the receiving antenna is adjusted to look for the maximum ERP.
5. Taking the record of maximum ERP.
6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
7. The conducted power at the terminal of the dipole antenna is measured.
8. Repeat step 3 to step 5 to get the maximum ERP of the substitution antenna.
9. $ERP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm) : Input power to substitution antenna.

G_s (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

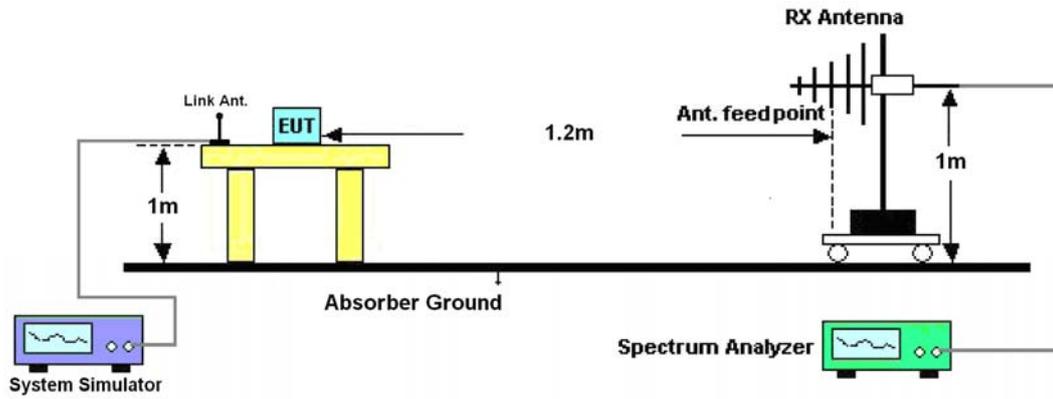
$E_s = R_s + AF$

AF (dB/m) : Receive antenna factor

R_t : The highest received signal in spectrum analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

3.2.4 Test Setup





3.2.5 Test Result of ERP

CDMA2000 BC10 1xRTT_RC1+SO55 Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
817.90	-28.46	-48.12	0.00	-1.08	18.58	0.0721
820.50	-29.85	-48.28	0.00	-0.93	17.50	0.0562
823.10	-30.84	-48.35	0.00	-0.76	16.75	0.0473
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
817.90	-43.33	-47.97	0.00	-1.08	3.56	0.0023
820.50	-44.26	-48.01	0.00	-0.93	2.82	0.0019
823.10	-43.66	-48.05	0.00	-0.76	3.63	0.0023

3.3 Emissions Mask – Out Of Band Emissions Measurement

3.3.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least $43 + 10 \log (P)$ dB. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

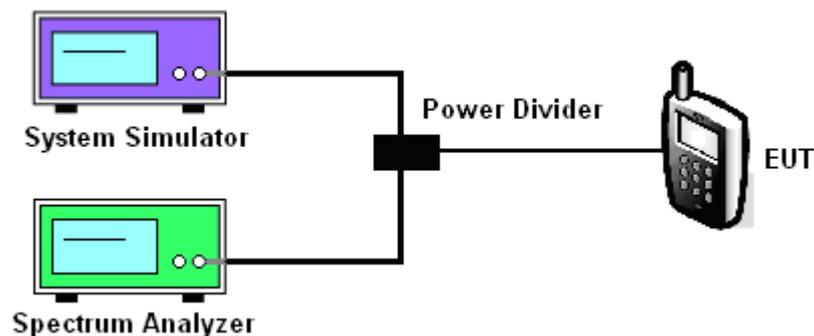
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.
4. The final test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

3.3.4 Test Setup

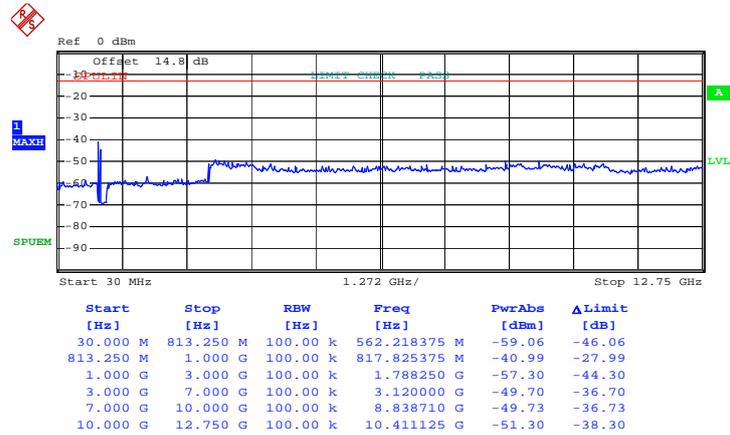




3.3.5 Test Result (Plots) of Conducted Emission

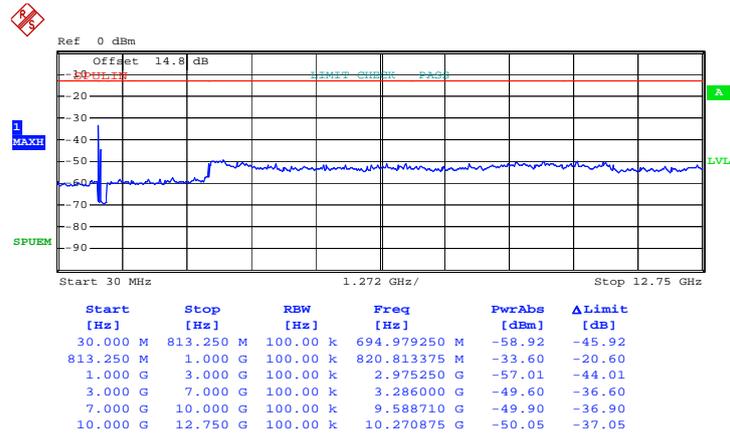
Band :	CDMA2000 BC10	Test Mode :	1xRTT_RC1+SO55
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Conducted Emission Plot between on Channel 476



Date: 9.NOV.2012 14:41:44

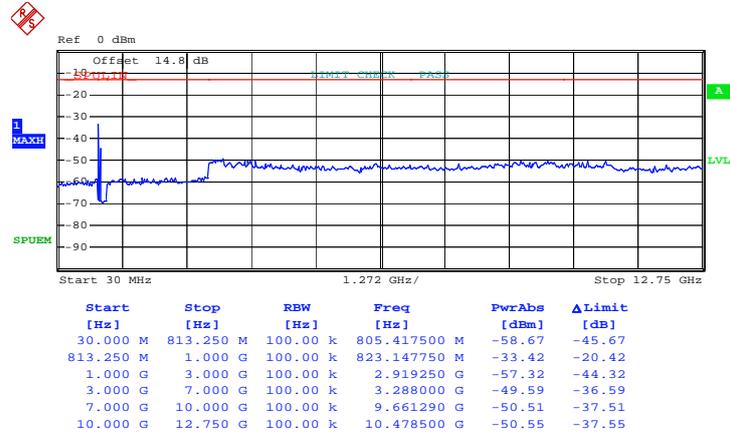
Conducted Emission Plot between on Channel 580



Date: 9.NOV.2012 14:43:00



Conducted Emission Plot between on Channel 684



Date : 9.NOV.2012 14:43:52

3.4 Field Strength of Spurious Radiation Measurement

3.4.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.4.2 Measuring Instruments

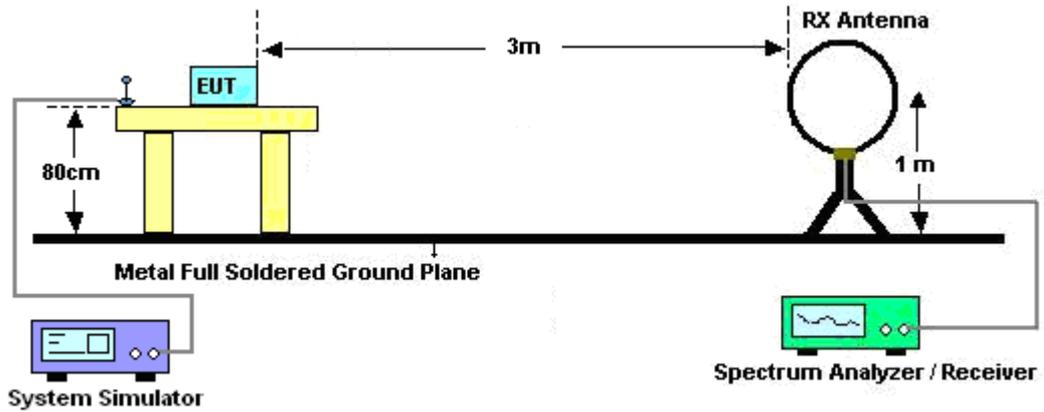
See list of measuring instruments of this test report.

3.4.3 Test Procedures

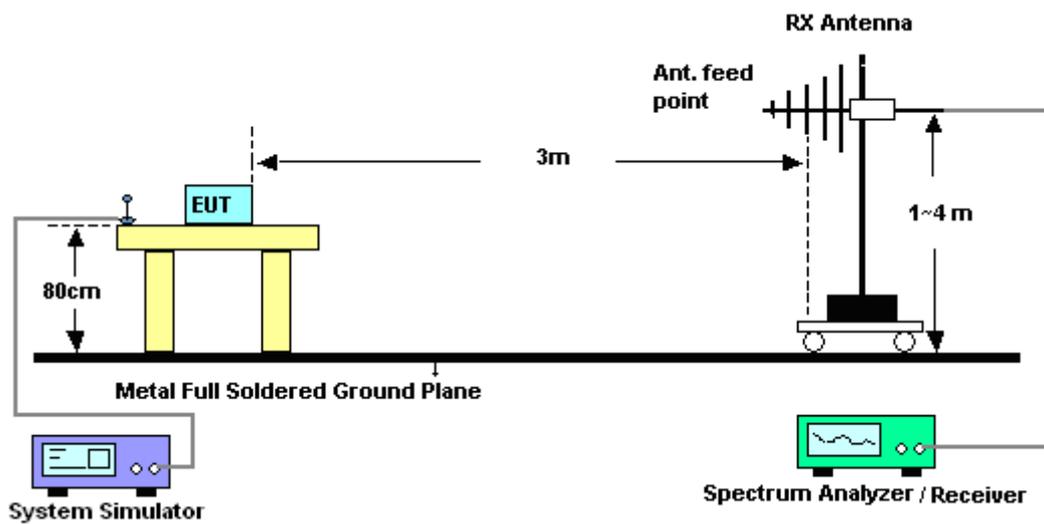
1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11. $ERP (dBm) = EIRP - 2.15$

3.4.4 Test Setup

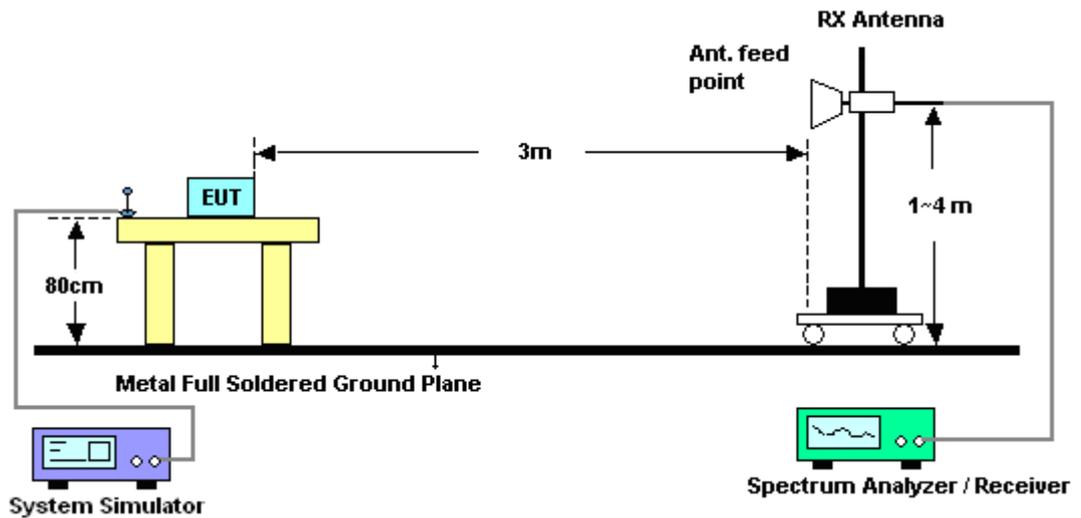
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



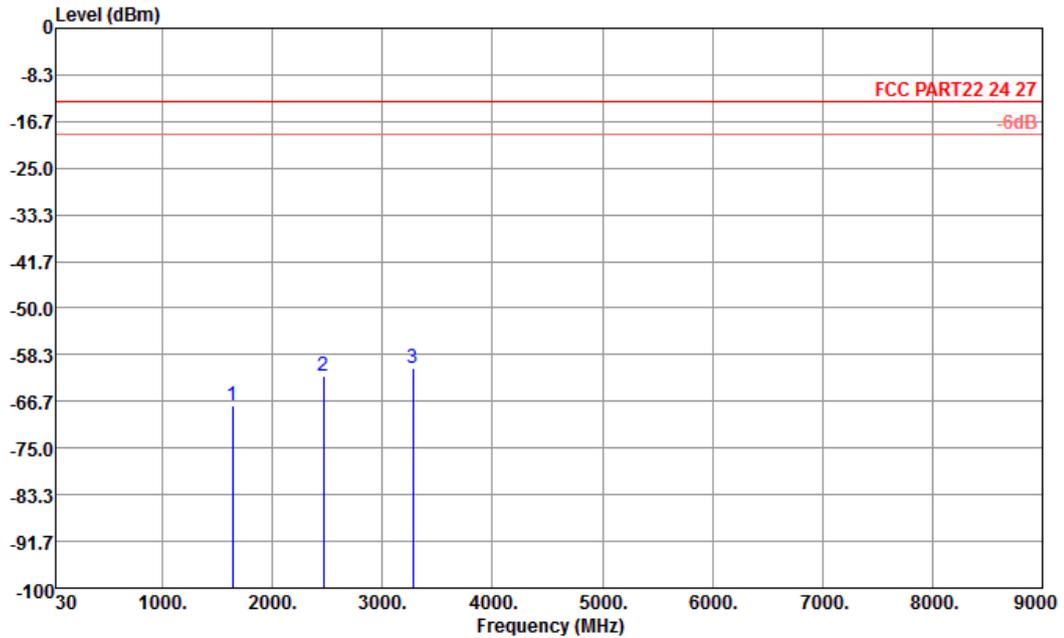
3.4.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



3.4.6 Test Result of Field Strength of Spurious Radiated

Band :	CDMA2000 BC10	Temperature :	21~22°C
Test Mode :	1xRTT_RC1+SO55	Relative Humidity :	42~43%
Test Engineer :	Stone Gu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



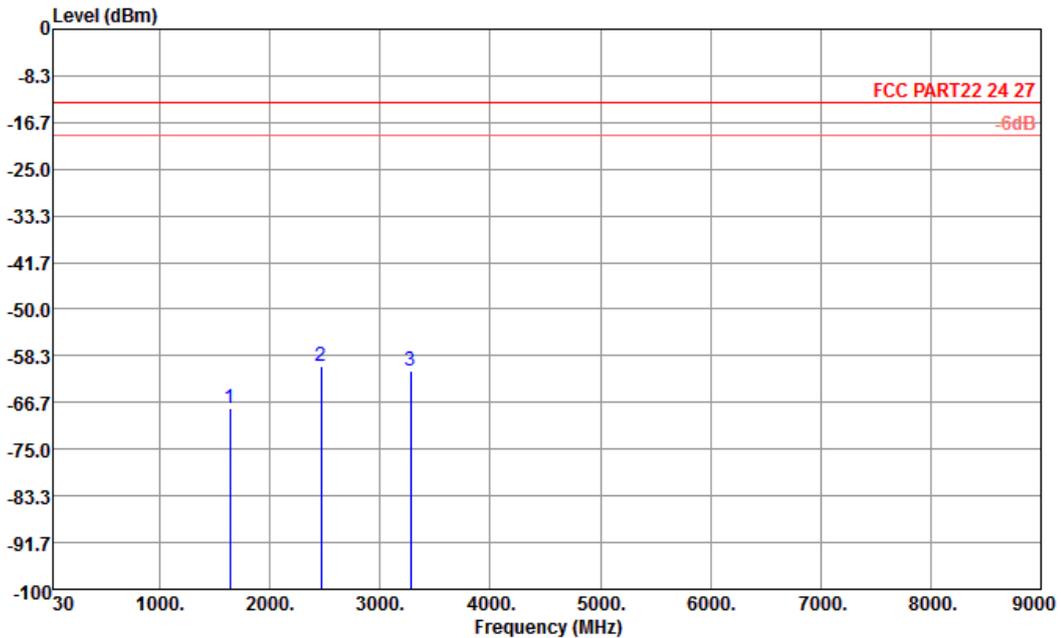
Site : 03CH01-KS
 Condition : FCC PART22 24 27 HF EIRP FACTOR-09020 HORIZONTAL

Plan : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1640	-67.42	-13	-54.42	-63.20	-68.07	0.57	3.37	H	Pass
2462	-62.13	-13	-49.13	-64.38	-64.36	0.78	5.16	H	Pass
3280	-60.78	-13	-47.78	-62.72	-64.42	0.87	6.66	H	Pass



Band :	CDMA2000 BC10	Temperature :	21~22°C
Test Mode :	1xRTT_RC1+S055	Relative Humidity :	42~43%
Test Engineer :	Stone Gu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
 Condition : FCC PART22 24 27 HF EIRP FACTOR-09020 VERTICAL

Plan : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1640	-67.77	-13	-54.77	-63.42	-68.42	0.57	3.37	V	Pass
2462	-60.13	-13	-47.13	-63.24	-62.36	0.78	5.16	V	Pass
3280	-60.96	-13	-47.96	-62.94	-64.60	0.87	6.66	V	Pass



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Nov. 05, 2012~ Nov. 09, 2012	Dec. 29, 2012	Conducted (TH01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 30, 2011	Nov. 05, 2012~ Nov. 09, 2012	Dec. 29, 2012	Conducted (TH01-KS)
DC Power Supply	GWINSTEK	GPS-3030D	E1884515	N/A	Aug. 22, 2012	Nov. 05, 2012~ Nov. 09, 2012	Aug. 21, 2013	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 30, 2011	Nov. 05, 2012~ Nov. 09, 2012	Dec. 29, 2012	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	Nov. 08, 2012	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Nov. 08, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 08, 2011	Nov. 08, 2012	Dec. 07, 2012	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2012	Nov. 08, 2012	Jan. 05, 2013	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060007	30MHz~2GHz	Dec. 30, 2011	Nov. 08, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 30, 2011	Nov. 08, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	9170249	15GHz~40GHz	Nov. 24, 2011	Nov. 08, 2012	Nov. 23, 2012	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/001	9KHz ~ 30MHz	Jul. 03, 2012	Nov. 08, 2012	Jul. 02, 2014	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz-40GHz	Dec. 30, 2011	Nov. 08, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	116456	Full-Band	Sep.19, 2012	Nov. 08, 2012	Sep. 18, 2013	Radiation (03CH01-KS)



5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.54
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.72
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Appendix A. FCC Document

Please see the document as below.



Federal Communications Commission
Washington, D.C. 20554

March 14, 2011

James B. Goldstein
12502 Sunrise Valley Drive
Reston, VA 20196

Re: Sprint Nextel's Request for Waiver of Section 90.209 of the Commission's Rules to Permit the Operation of Broadband CDMA Technology in the 817-824/862-869 MHz Band

Dear Mr. Goldstein:

This letter addresses Nextel License Holdings 1, Inc.'s ("Sprint Nextel") request for a waiver of Section 90.209 of the Commission's Rules.¹ As explained below, we grant the waiver request to the extent described below.

Sprint Nextel seeks to deploy a 1.27 MHz wide CDMA channel with respect to license WPLM661² in the Enhanced Specialized Mobile Radio Band portion of the 800 MHz band, which would exceed Section 90.209's 25 kHz bandwidth limitation.³ Sprint argues the bandwidth limitation is a remnant of a past licensing paradigm and that the Commission did not intend to leave this restriction in place. In support of the waiver request, Sprint Nextel maintains that the Commission has indicated on several occasions that 800 MHz SMR licensees on contiguous channel blocks have the flexibility to deploy larger bandwidth technologies. First, Sprint Nextel argues that, in a 1988 amendment to Part 90 of the Commission's Rules, the Commission expressed that its rules provided sufficient flexibility for SMR licensees authorized on contiguous spectrum to use non-standard bandwidths.⁴ Next, Sprint Nextel contends that in 1995, the Commission modified its rules to license 20, 60 and 120 contiguous channel 800 MHz SMR spectrum blocks on a wide-area basis to allow utilization of broadband technologies, including CDMA, unavailable on non-contiguous channels.⁵ Finally, Sprint Nextel draws attention to how the Commission, in 2004, modified rule section 90.645 to continue allowing non-standard channel bandwidths for the non-cellular portion of the 800 MHz band, while, according to Sprint Nextel, inexplicably failing to also modify the rules for larger spectrum blocks above 816-824/861-869 MHz.⁶

¹ See ULS file number 0004643006.

² The WPLM661 license, issued to Nextel License Holdings 1, authorizes operation in Basic Economic Area (BEA) 040 (Atlanta, GA-AL-NC) on frequencies 818-824/863-869 MHz.

³ 47 C.F.R. § 90.209.

⁴ See Amendment of Part 90, Subparts M and S, of the Commission's Rules, *Report and Order*, PR Docket No. 86-404, 3 FCC Rcd 1838 at ¶ 89 (1988).

⁵ See Implementation of Sections 3(n) and 332 of the Communications Act; Implementation of Section 309 (j) of the Communications Act – Competitive Bidding; *First Report and Order, Eighth Report, and Second Further Notice of Proposed Rule Making*, PR Docket No. 93-144, GN Docket No. 93-252, PP Docket No. 253, 11 FCC Rcd 1463 at ¶ 14, 37 (1995).

⁶ See Improving Public Safety Communications in the 800 MHz Band, *Report and Order, Fifth Report and Order, Fourth Memorandum Opinion and Order, and Order*, 19 FCC Rcd 14969 (2004); see also Section 90.645 revisions in Appendix C.

We also note that Sprint Nextel has undertaken to impose “extremely tight out-of-band emissions (OOBE) filtering requirements on [its] base station vendors for frequencies below 861 MHz and aggressive OOBE roll-off requirements between 861-862 MHz” and has acknowledged its strict responsibility for compliance with Section 90.673 of the Commission’s rules.⁷

A waiver may be granted, pursuant to section 1.925 of the Commission’s Rules, if the petitioner establishes that: 1) the underlying purpose of the rule would not be served or would be frustrated by application to the instant case, and that grant of the waiver would be in the public interest; or 2) where the petitioner establishes unique or unusual factual circumstances, that application of the rule would be inequitable, unduly burdensome or contrary to the public interest, or the applicant has no reasonable alternative.⁸

Based on the unusual factual circumstances described by Sprint Nextel, we find that a waiver is warranted in this case because application of the rule would prevent CDMA operation, limit consumer choice, and thus be contrary to the public interest. Therefore, we waive the bandwidth restriction of Section 90.209 to permit Sprint Nextel to use transmitters with an authorized bandwidth of 1.27 MHz or less with respect to license WPLM661. With this waiver, equipment manufacturers are permitted to manufacture transmitters for 1.27 MHz CDMA operation in the 800 MHz band. Equipment manufacturers should include a copy of this letter in any application for equipment authorization for 800 MHz CDMA equipment. Further, this waiver is specifically conditioned on the following:

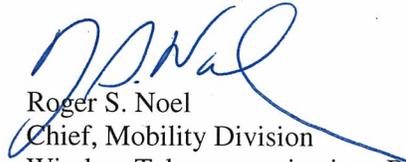
- § Before activating 800 MHz CDMA sites pursuant to this waiver, Sprint Nextel shall provide 60-day advance notice to 800 MHz public safety licensees having base stations in the applicable NPSPAC Region – and to 800 MHz public safety licensees having base stations within 70 miles of the NPSPAC region border. The notice shall include the planned activation date of the 800 MHz CDMA network. A copy of the notice shall be provided to (a) the regional coordinator of the 800 MHz NPSPAC region in which CDMA operation is to be initiated; and (b) to the regional coordinators of adjoining 800 MHz NPSPAC regions.
- § The 800 MHz CDMA operations authorized by this waiver are subject to the interference protection and mitigation requirements established in the Commission’s 800 MHz rebanding proceeding (WT Docket 02-55). Accordingly, Sprint Nextel shall strictly observe the requirements of Sections 90.672 *et seq.* of the Commission’s rules prohibiting unacceptable interference to non-cellular 800 MHz licensees from 800 MHz cellular systems.

⁷ See 47 C.F.R. § 90.673.

⁸ 47 C.F.R. § 1.925.

Accordingly, IT IS ORDERED that, pursuant to section 4(i) and 303(r) of the Communications Act of 1934, as amended, 47 U.S.C. § 154(i), 303(r), and sections 0.331 and 1.925 of the Commission's rules, 47 C.F.R. §§ 0.331, 1.925, Sprint Nextel's waiver request IS GRANTED to the extent described above.⁹

Sincerely,



Roger S. Noel
Chief, Mobility Division
Wireless Telecommunications Bureau

⁹ 47 U.S.C. §§ 154(i); 303(r); 47 C.F.R. §§ 0.331, 1.925.



Appendix B. Photographs of EUT

Please refer to Sporton report number EP270201-03 as below.



Appendix D. Product Equality Declaration

ZTE CORPORATION**Product Change Description**

As the applicant of the below model, [ZTE Corporation] declares that the product,

[ZTE N9500]
[ZTE Corporation]

is the variant of the initial certified product,

[ZTE N9500]
[ZTE Corporation]
[Project Number: 12ZTE132]
FCC ID: Q78-ZTEN9500

SOFTWARE MODIFICATIONS:

Protocol Stack changes: NO
MMS/STK changes: NO
JAVA changes: NO
Other changes detailed: NO

HARDWARE MODIFICATION:

Band changes: NO
Power Amplifier changes: NO
Antenna changes: YES, new WIFI/Bluetooth antenna with higher gain (1dB up).
PCB Layout changes: NO
Components on PCB changes: Yes

A: Optimize PDN and change below filter capacitances from top layer to bottom.

VREG_S6_1P05: C271
VREG_L27_1P05: C238
VREG_L26_1P05: C279
VREG_L28_1P05: C242

B: Delete redundant components:

S4200, C4221, C4220, L4215, L4210, L4216, L4208, L5121, L5120, L5119, C5121, C5122, S5100, C5118.

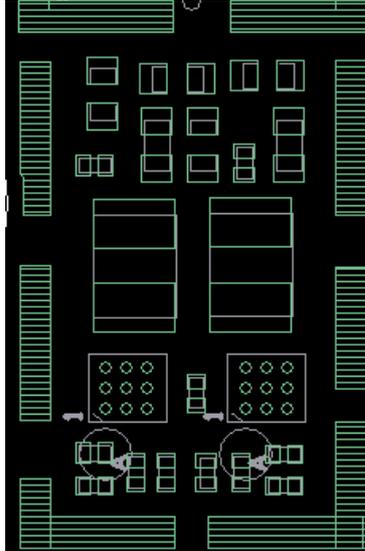
C: Component packaging updated:

L5101 now be packaged with 0402 instead of 0201.

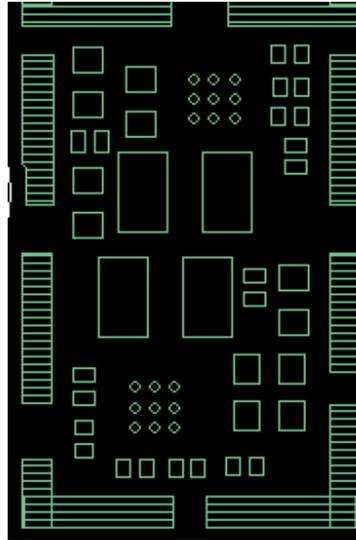
D: Optimize ADP components layout.

Please notice that only change components layout but PCB layout is same.

Original:



Now:



,
LCD changes: NO
Speaker changes: NO
Camera changes: NO
Vibrator changes: NO
Bluetooth changes: NO
FM changes: NO
Other changes: NO

MECHANICAL MODIFICATIONS:

Use new metal front/back cover or keypad: NO
Mechanical shell changes: NO
Other changes detailed: NO

ACCESSORY MODIFICATIONS:

Battery changes: NO
AC Adaptor changes: NO
Earphone changes: NO

Min Zhang

APPROVED BY: Min Zhang

Project Manager: Yongliang Zhang

Date: 2013-1-10

Company: ZTE Corporation

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