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   : **47 CFR Part 2, 24(E)**

CLASSIFICATION : **PCS Licensed Transmitter Held to Ear (PCE)**

This is a variant report which is only valid together with the original test report. The product was received on Nov. 01, 2012 and completely tested on Dec. 12, 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

Jones Tsai / Manager

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

SPORTON INTERNATIONAL (KUNSHAN) INC.
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FCC ID : Q78-ZTEN9500

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Report Version   : Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG270201-03B	Rev. 01	This is a variant report for ZTE FLASH 4G LTE. The product equality declaration could be referred to Appendix C. All the test cases were performed on original report which can be referred to Sporton Report Number FG270201B. Based on the original test report, only the Conducted Power, and the worst cases of EIRP and Radiated Spurious Emission were verified for the differences.	Jan. 14, 2013

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	NA	Conducted Output Power	NA	PASS	-
3.1	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	EIRP < 2 Watt	PASS	-
3.2	§2.1053 §24.238(a)	RSS-133 (6.5.1)	Undesirable Out of Band Emissions	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 33.05 dB at 3760.000 MHz

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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	1850.7 MHz ~ 1914.3 MHz
Rx Frequency	1930.7 MHz ~ 1994.3 MHz
Bandwidth	1.4MHz / 3MHz / 5MHz/ 10MHz
Maximum Output Power to Antenna	23.32 dBm
Antenna Type	PIFA Antenna
Type of Modulation	QPSK / 16QAM

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

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1.5 Maximum EIRP Power

FCC Rule	System	Type of Modulation	BW	Maximum EIRP (W)
Part 24E	LTE Band 25	QPSK	5MHz	0.1109 W
Part 24E	LTE Band 25	16QAM	5MHz	0.0957 W

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:

- 47 CFR Part 2, 24(E)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v01
- IC RSS-133 Issue 5

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.

1.8 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

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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 19000 MHz.

Test Modes			
Band		**Radiated TCs**	**Conducted TCs**
LTE Band 25	**BW 1.4MHz**	-	■ LTE (RB Size 1, RB Offset 0)Link ■ LTE (RB Size 1, RB Offset 5)Link ■ LTE (RB Size 3, RB Offset 2)Link ■ LTE (RB Size 6, RB Offset 0)Link
	BW 3MHz	-	■ LTE (RB Size 1, RB Offset 0)Link ■ LTE (RB Size 1, RB Offset 14)Link ■ LTE (RB Size 8, RB Offset 4)Link ■ LTE (RB Size 15, RB Offset 0)Link
	BW 5MHz	■ LTE (RB Size 1, RB Offset 0) QPSK Link	■ LTE (RB Size 1, RB Offset 0)Link ■ LTE (RB Size 1, RB Offset 24)Link ■ LTE (RB Size 12, RB Offset 6)Link ■ LTE (RB Size 25, RB Offset 0)Link
	BW 10MHz	-	■ LTE (RB Size 1, RB Offset 0)Link ■ LTE (RB Size 1, RB Offset 49)Link ■ LTE (RB Size 25, RB Offset 13)Link ■ LTE (RB Size 50, RB Offset 0)Link

Note: For conducted power test, both two Modulations (QPSK and 16QAM) are tested. For RSE and ERP/EIRP test, only the worst case are chosen.

2.2   Connection Diagram of Test System

120 Vac / 60 Hz

Adapter

Dipole Antenna

EUT

LTE Base Station

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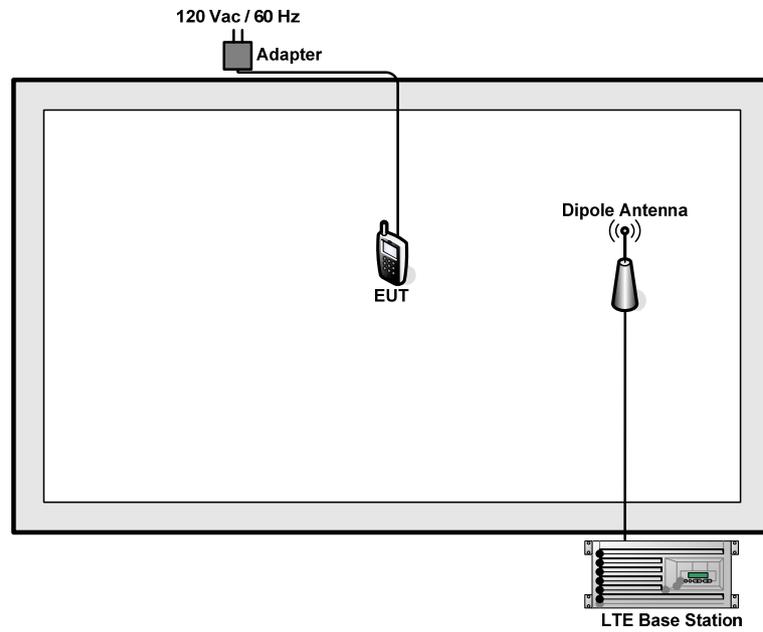
3 Test Result

3.1 Maximum Output Power and Effective Isotropic Radiated Power Measurement

3.1.1 Limit

Equivalent isotropic radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004. Mobile and portable (hand-held) stations operating in each channel are limited to average EIRP of 2 watts.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

For Conducted Power Measurement:

1. The RF output of the transmitter was connected to base station simulator.
2. Set EUT at maximum average power by base station simulator.
3. Measure lowest, middle, and highest channels for each bandwidth and different modulation.

For Effective Isotropic Radiated Power Measurement:

1. The EUT was placed on an non-conductive rotating platform with 0.8 meter height in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m.
2. During the measurement, the EUT was enforced in maximum power. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
3. Effective Radiated Power (ERP) and Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP= LVL + Correction factor.

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3.1.4 Test Setup

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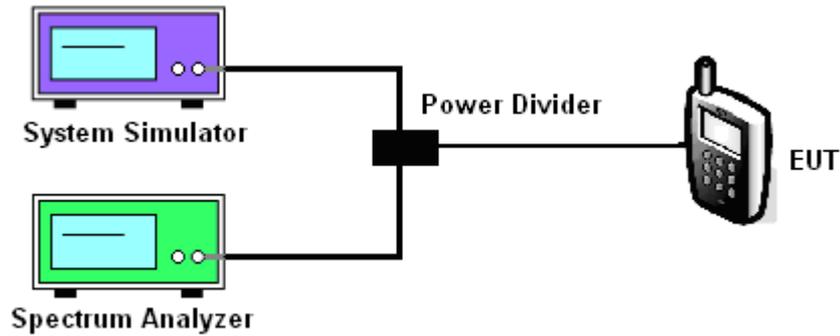
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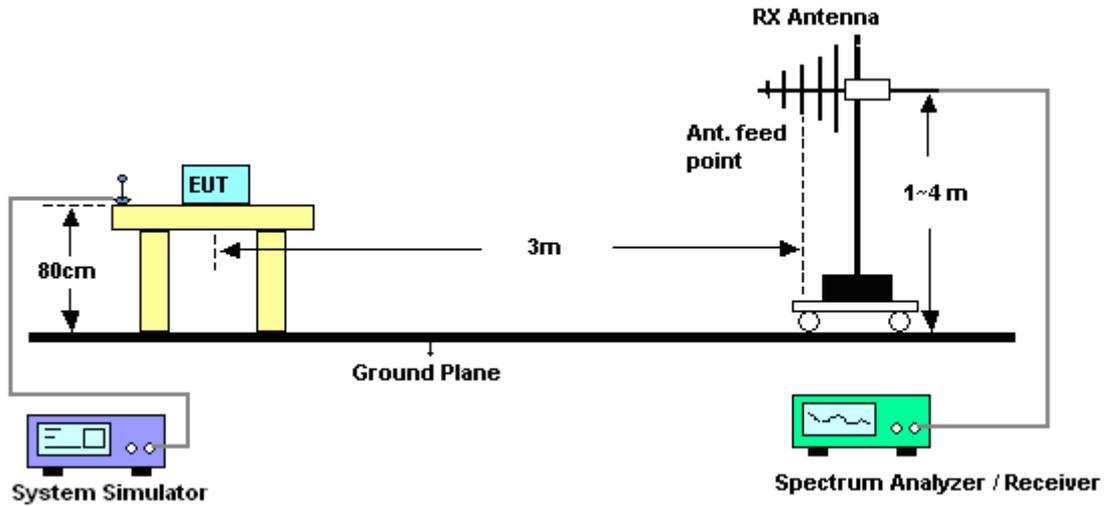
3.1.5 Test Result of Conducted Output Power

Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 25	1.4MHz	26047	1850.7	QPSK	1	0	23.24	0.2109
					1	5	23.20	0.2089
					3	2	23.18	0.2080
					6	0	22.37	0.1726
				16-QAM	1	0	22.28	0.1690
					1	5	22.06	0.1607
					3	2	22.19	0.1656
					6	0	21.24	0.1330
		26365	1882.5	QPSK	1	0	23.26	0.2118
					1	5	23.23	0.2104
					3	2	23.22	0.2099
					6	0	22.22	0.1667
				16-QAM	1	0	22.39	0.1734
					1	5	22.15	0.1641
					3	2	22.28	0.1690
					6	0	21.28	0.1343
		26683	1914.3	QPSK	1	0	23.23	0.2104
					1	5	23.25	0.2113
					3	2	23.22	0.2099
					6	0	22.35	0.1718
				16-QAM	1	0	22.38	0.1730
					1	5	22.34	0.1714
					3	2	22.35	0.1718
					6	0	21.20	0.1318

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Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 25	3MHz	26055	1851.5	QPSK	1	0	23.08	0.2032
					1	14	23.06	0.2023
					8	4	22.36	0.1722
					15	0	22.26	0.1683
				16-QAM	1	0	22.11	0.1626
					1	14	22.10	0.1622
					8	4	21.28	0.1343
					15	0	21.32	0.1355
		26365	1882.5	QPSK	1	0	23.12	0.2051
					1	14	23.07	0.2028
					8	4	22.27	0.1687
					15	0	22.24	0.1675
				16-QAM	1	0	22.13	0.1633
					1	14	22.12	0.1629
					8	4	21.28	0.1343
					15	0	21.16	0.1306
		26675	1913.5	QPSK	1	0	23.08	0.2032
					1	14	23.06	0.2023
					8	4	22.49	0.1774
					15	0	22.22	0.1667
				16-QAM	1	0	22.12	0.1629
					1	14	22.10	0.1622
					8	4	21.29	0.1346
					15	0	21.38	0.1374

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Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 25	5MHz	26065	1852.5	QPSK	1	0	23.32	0.2148
					1	24	23.29	0.2133
					12	6	22.27	0.1687
					25	0	22.06	0.1607
				16-QAM	1	0	22.40	0.1738
					1	24	22.18	0.1652
					12	6	21.39	0.1377
					25	0	21.27	0.1340
		26365	1882.5	QPSK	1	0	23.32	0.2148
					1	24	23.25	0.2113
					12	6	22.17	0.1648
					25	0	22.09	0.1618
				16-QAM	1	0	22.42	0.1746
					1	24	22.40	0.1738
					12	6	21.25	0.1334
					25	0	21.14	0.1300
		26665	1912.5	QPSK	1	0	23.30	0.2138
					1	24	23.18	0.2080
					12	6	22.37	0.1726
					25	0	22.14	0.1637
				16-QAM	1	0	22.40	0.1738
					1	24	22.26	0.1683
					12	6	21.35	0.1365
					25	0	21.03	0.1268

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Mode	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		Average Power (dBm)	Average Power (Watts)
					RB Size	RB Offset		
LTE Band 25	10MHz	26090	1855	QPSK	1	0	23.27	0.2123
					1	49	23.22	0.2099
					25	13	22.05	0.1603
					50	0	21.94	0.1563
				16-QAM	1	0	22.30	0.1698
					1	49	22.26	0.1683
					25	13	21.19	0.1315
					50	0	20.90	0.1230
		26365	1882.5	QPSK	1	0	23.30	0.2138
					1	49	23.29	0.2133
					25	13	22.12	0.1629
					50	0	22.05	0.1603
				16-QAM	1	0	22.42	0.1746
					1	49	22.29	0.1694
					25	13	21.06	0.1276
					50	0	21.02	0.1265
		26640	1910	QPSK	1	0	23.26	0.2118
					1	49	23.21	0.2094
					25	13	22.13	0.1633
					50	0	21.95	0.1567
				16-QAM	1	0	22.34	0.1714
					1	49	22.29	0.1694
					25	13	20.98	0.1253
					50	0	20.95	0.1245

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3.1.6 Test Result of EIRP

LTE Band 25 Radiated Power EIRP										
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)	H/V
			RB Size	RB Offset						
25	5	QPSK	1	0	1852.5	-16.71	37.16	20.45	0.1109	H
25	5	QPSK	1	0	1882.5	-16.57	35.61	19.04	0.0802	H
25	5	QPSK	1	0	1912.5	-17.75	36.04	18.29	0.0675	H
25	5	QPSK	1	0	1852.5	-21.12	36.1	14.98	0.0315	V
25	5	QPSK	1	0	1882.5	-22.30	37.44	15.14	0.0327	V
25	5	QPSK	1	0	1912.5	-21.74	39.12	17.38	0.0547	V
25	5	16QAM	1	0	1852.5	-17.35	37.16	19.81	0.0957	H
25	5	16QAM	1	0	1882.5	-17.38	35.61	18.23	0.0665	H
25	5	16QAM	1	0	1912.5	-18.53	36.04	17.51	0.0564	H
25	5	16QAM	1	0	1852.5	-21.67	36.1	14.43	0.0277	V
25	5	16QAM	1	0	1882.5	-21.70	37.44	15.74	0.0375	V
25	5	16QAM	1	0	1912.5	-21.35	39.12	17.77	0.0598	V

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3.2 Radiated Emissions Measurement

3.2.1 Description of Radiated Emissions Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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 rotatable wooden table with 0.8 meter above 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, 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. Emission level (dBm) = output power + substitution Gain.

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3.2.4 Test Setup

For radiated emissions below 30MHz
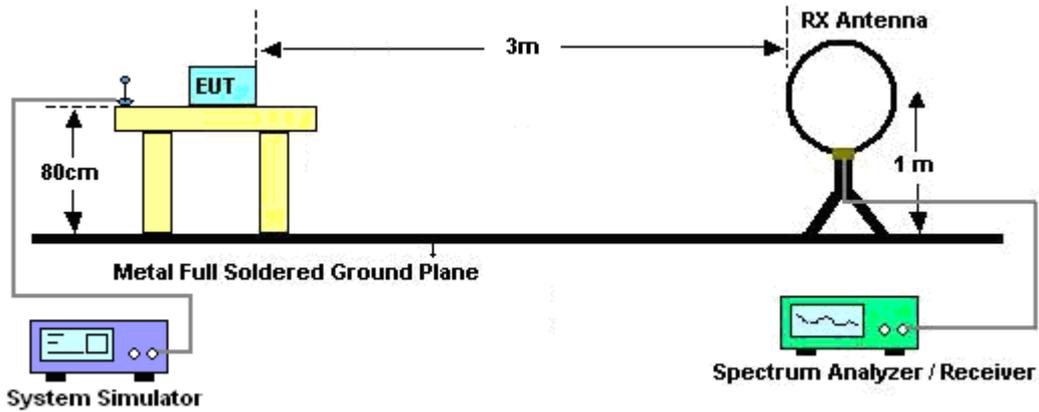
For radiated emissions from 30MHz to 1GHz

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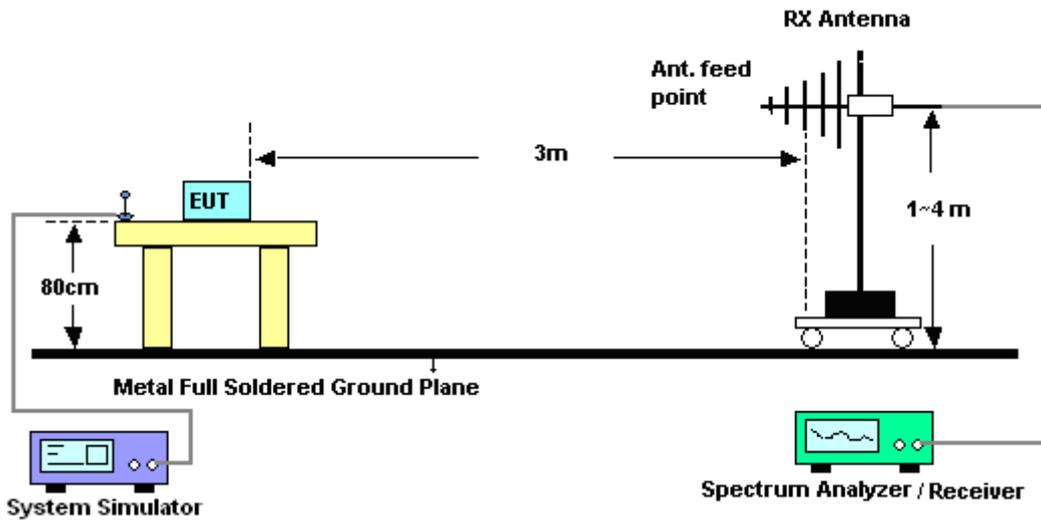
For radiated emissions above 1GHz
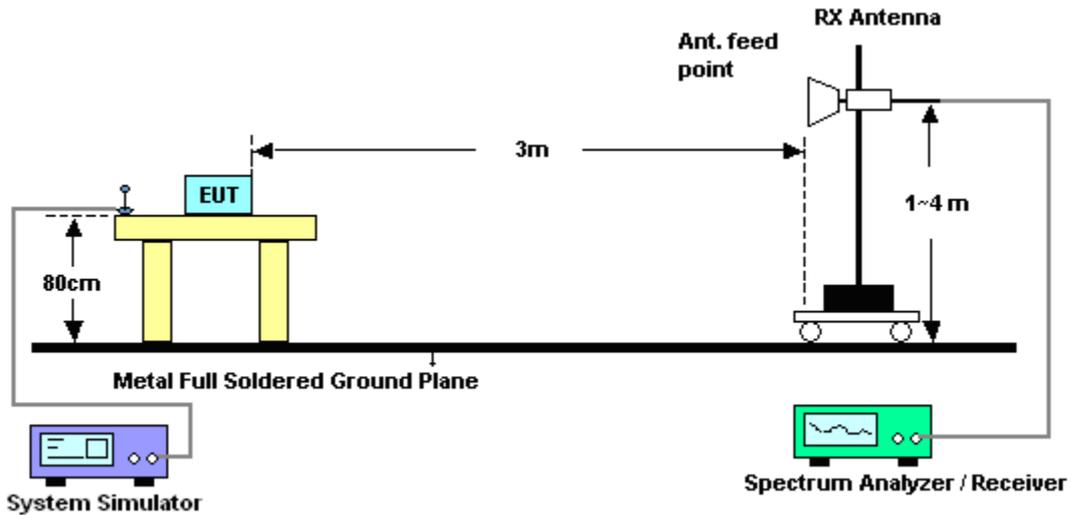
3.2.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

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.

3.2.6 Test Result of Radiated Emissions

Band :	LTE Band 25	Temperature :	21~22°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	45~46%
Test Engineer :	Allen Cheng	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		
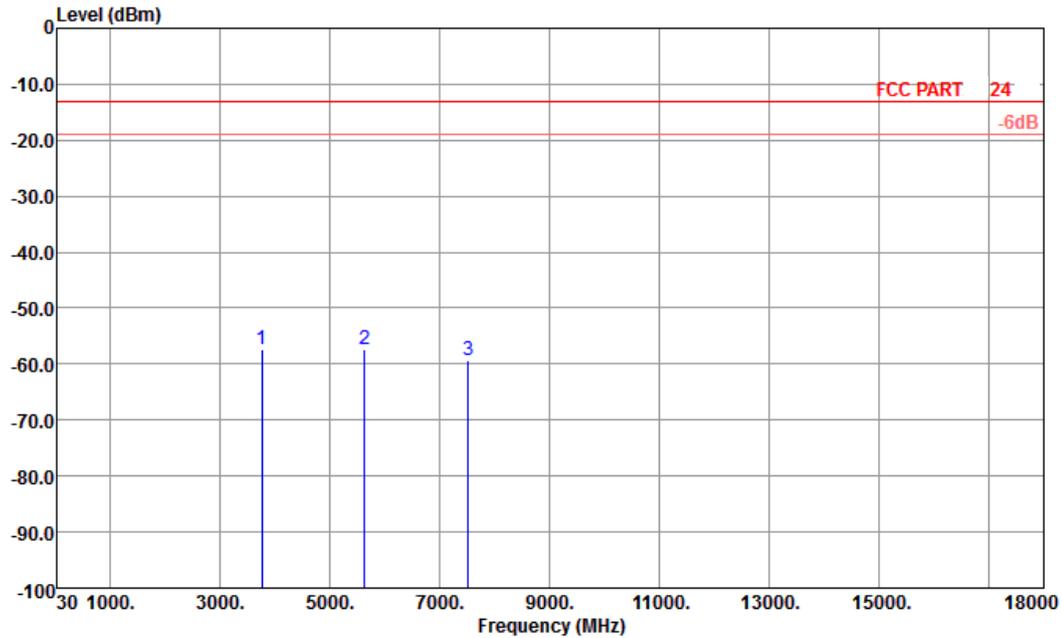
Site   : 03CH01-KS
Condition : FCC PART   24   HF EIRP FACTOR-09020 HORIZONTAL

Plan   : E2

Frequency (MHz)	EIRP (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
3760	-57.45	-13	-44.45	-58.42	-63.83	0.78	7.16	H	Pass
5642	-57.47	-13	-44.47	-61.65	-66.01	1.04	9.58	H	Pass
7520	-59.47	-13	-46.47	-64.60	-69.58	1.35	11.46	H	Pass

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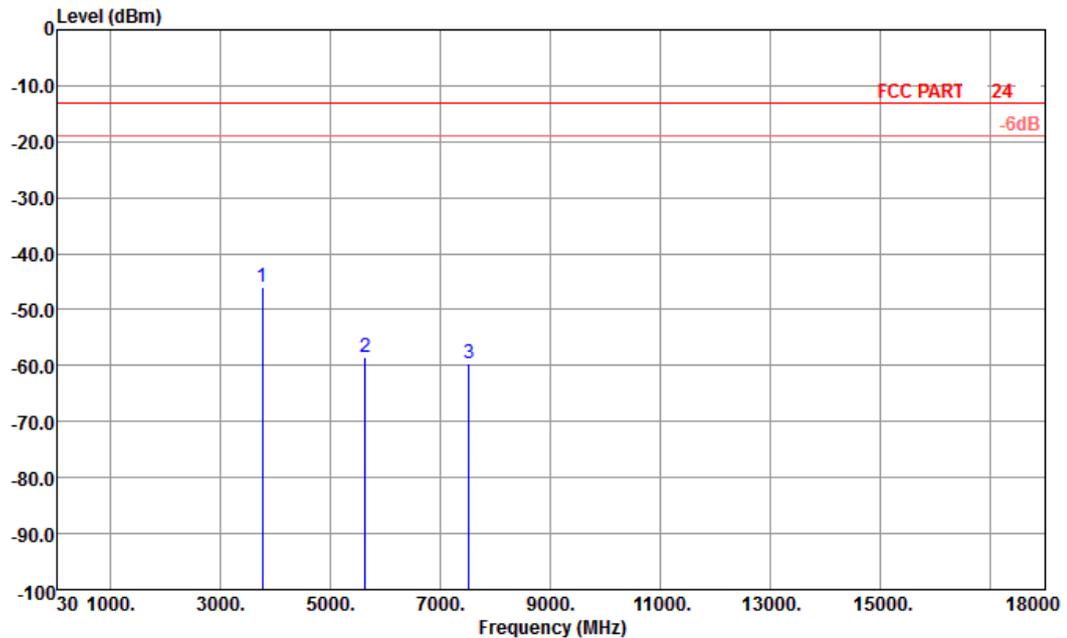| Band :	LTE Band 25	Temperature :	21~22°C
Test Mode :	5MHz, QPSK, RB Size 1, RB Offset 0	Relative Humidity :	45~46%
Test Engineer :	Allen Cheng	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

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

Plan   : E2

Frequency (MHz)	EIRP (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
3760	-46.05	-13	-33.05	-52.41	-52.43	0.78	7.16	V	Pass
5642	-58.62	-13	-45.62	-61.84	-67.16	1.04	9.58	V	Pass
7520	-59.70	-13	-46.70	-64.19	-69.81	1.35	11.46	V	Pass

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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	Dec. 12, 2012	Dec. 29, 2012	Conducted (TH01-KS)
DC Power Supply	GWINSTEK	GPS-3030D	E1884515	N/A	Aug. 22, 2012	Dec. 12, 2012	Aug. 21, 2013	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 30, 2011	Dec. 12, 2012	Dec. 29, 2012	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	Dec. 11, 2012	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Dec. 11, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2012	Dec. 11, 2012	Dec. 06, 2013	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2012	Dec. 11, 2012	Jan. 05, 2013	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060007	30MHz~2GHz	Dec. 30, 2011	Dec. 11, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 30, 2011	Dec. 11, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
SHE-EHF Horn	Schwarzbeck	BBHA9170	BBHA170249	15GHz-40GHz	Oct. 10, 2012	Dec. 11, 2012	Oct. 09, 2013	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/00	9kHz~30 MHz	Jul. 28, 2012	Dec. 11, 2012	Jul. 27, 2014	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz-40GHz	Dec. 30, 2011	Dec. 11, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
LTE Base Station	Anritsu	MT8820C	6201074235	LTE_FDD full band	Dec. 30, 2011	Dec. 11, 2012~ Dec. 12, 2012	Dec. 29, 2012	-

SPORTON INTERNATIONAL (KUNSHAN) INC.
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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

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95%(U = 2Uc(y))	4.72

Appendix A. Photographs of EUT

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

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Appendix C. Product Equality Declaration

ZTE中兴

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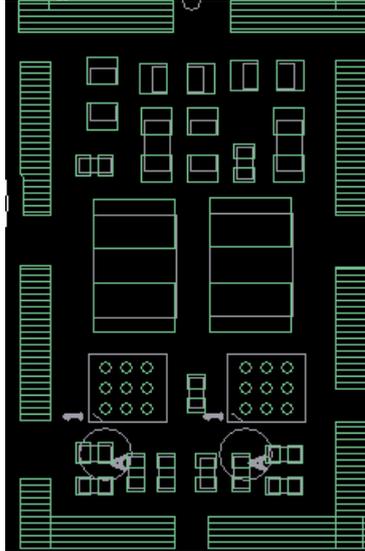S4200, C4221, C4220, L4215, L4210, L4216, L4208, L5121, L5120, L5119, C5121, C5122, S5100, C5118.

C: Component packaging updated:

L5101 now be packaged with 0402 instead of 0201.
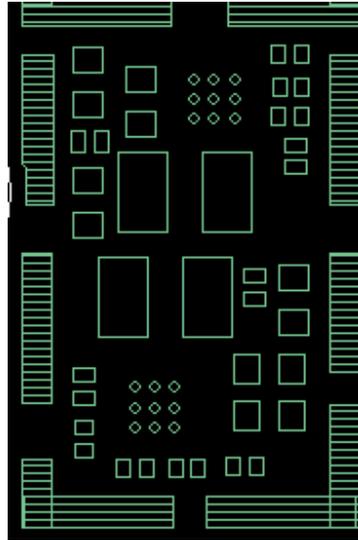
D: Optimize ADP components layout.

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

ZTE中兴

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