

APPLICANT : ZTE CORPORATION

EQUIPMENT : WCDMA, GSM(GPRS)Dual-Mode

Digital Mobile Phone

BRAND NAME : ZTE

MODEL NAME : Z791G

FCC ID : SRQ-Z791

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

This is a variant report which is only valid together with the original report. The product was received on Jan. 22, 2015 and testing was completed on Feb. 21, 2015. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in 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: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

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

SPORTON INTERNATIONAL (KUNSHAN) INC.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR4N2609-01B Rev. 01		This is a variant report for Z791G. The product change description could be referred to Appendix C. Based on the similarity between two models, only the worst case of Radiated Spurious Emission from original test report (Sporton Report Number FR4N2609B) was verified.	Mar. 20, 2015

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(d)	RSS-210 A8.5	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 9.16 dB at 35.820 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 Product Feature of Equipment Under Test

Product Feature					
Equipment	WCDMA, GSM(GPRS)Dual-Mode Digital Mobile Phone				
Brand Name	ZTE				
Model Name	Z791G				
FCC ID	SRQ-Z791				
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+(DownlinkOnly)/ WLAN 2.4GHz 802.11b/g/n HT20/ Bluetooth v2.1 + EDR/Bluetooth v4.0 LE				
HW Version	wqpA				
SW Version	Z791GV1.0.0B05				
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 subjective to this standard

Product Specification subjective to this standard					
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz				
Number of Channels	40				
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)				
Antenna Type	PIFA Antenna				
Type of Modulation	Bluetooth LE : GFSK				

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1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.				
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China				
Test Site Location	TEL: +86-0512-5790-0158				
	FAX: +86-0512-5790-0958				
Test Site No.	Sporton Site No.	FCC Registration No.			
iest site NO.	03CH01-KS	149928			

Note: The test site complies with ANSI C63.4 2009 requirement.

1.7 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02
- ANSI C63.10-2009

Remark:

- 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.

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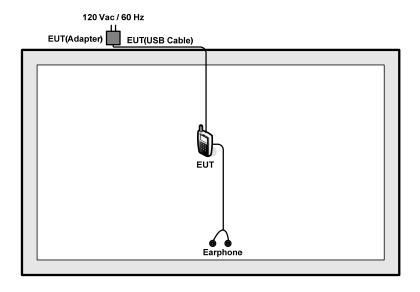
Test Configuration of Equipment Under Test 2

Test Mode

The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Summary table of Test Cases								
Took How	Data Rate / Modulation								
Test Item	Bluetooth 4.0 – LE / GFSK								
Radiated TCs Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps									
Remark: For F	Remark: For Radiated TCs, The tests were performance with Adapter, Earphone, and USB Cable.								

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Earphone	Lenovo	SH100	N/A	N/A	N/A

2.4 EUT Operation Test Setup

For Bluetooth v4.0 LE function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

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3 Test Result

3.1 Radiated Band Edges and Spurious Emission Measurement

3.1.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
0.009 - 0.490	2400/F(kHz)	300		
0.490 – 1.705	24000/F(kHz)	30		
1.705 – 30.0	30	30		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

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3.1.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
- 3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 0.8 meter for frequency above 1GHz respectively above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band Duty Cycle(%)		T(ms)	1/T(kHz)	VBW Setting
Bluetooth v4.0 LE	62.42	0.39	2.55	3kHz

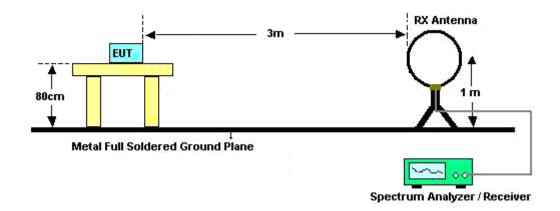
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3.1.4 Test Setup

For radiated emissions below 30MHz

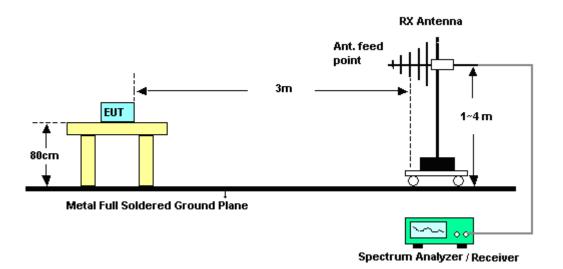


SPORTON INTERNATIONAL (KUNSHAN) INC.

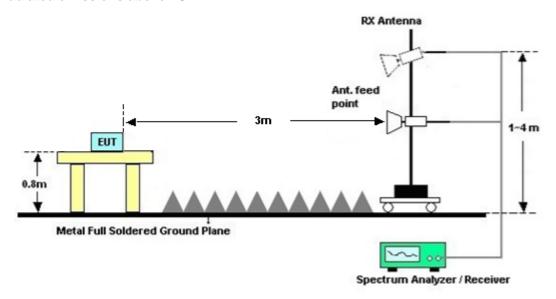
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.1.5 Test Results of Radiated Spurious 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.

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3.1.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

3.1.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix A.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Oct. 25, 2014	Feb. 21, 2015	Oct. 24, 2015	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	101399	9kHz~30GHz	May 04, 2014	Feb. 21, 2015	May 03, 2015	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 13, 2014	Feb. 21, 2015	Nov. 12, 2015	Radiation (03CH01-KS
Bilog Antenna	TeseQ	CBL6112D	23182	25Mhz-2Ghz	Jan. 17, 2015	Feb. 21, 2015	Jan. 16, 2016	Radiation (03CH01-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 17, 2015	Feb. 21, 2015	Jan. 16, 2016	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701030	1GHz~18GHz	Nov. 08, 2014	Feb. 21, 2015	Nov. 07, 2015	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA1702 49	15GHz~40GHz	Mar. 10, 2014	Feb. 21, 2015	Mar. 09, 2015	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz /32dB	May 04, 2014	Feb. 21, 2015	May 03, 2015	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A023 71	1GHz~26.5GHz	Oct. 28, 2014	Feb. 21, 2015	Oct. 27, 2015	Radiation (03CH01-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Feb. 21, 2015	NCR	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Feb. 21, 2015	NCR	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Feb. 21, 2015	NCR	Radiation (03CH01-KS)

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5 Uncertainty of Evaluation

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

	<u> </u>
Measuring Uncertainty for a Level of Confidence	2.5dB
of 95% (U = 2Uc(y))	2.5иБ

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Appendix A. Radiated Spurious Emission

15C 2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	*	2401.67	97.72	-	-	93.31	32.86	4.81	33.26	223	166	Р	Н
	*	2402.087	97.02	-	1	92.61	32.86	4.81	33.26	223	166	Α	Н
51.5		2329.44	47.84	-26.16	74	43.57	32.76	4.74	33.23	223	166	Р	Н
BLE CH 00		2347.62	35.86	-18.14	54	31.56	32.78	4.76	33.24	223	166	Α	Н
2402MHz	*	2402.004	97.95	-	1	93.54	32.86	4.81	33.26	200	104	Р	V
2402111112	*	2402.087	97.23	-	-	92.82	32.86	4.81	33.26	200	104	Α	V
		2364	48.03	-25.97	74	43.69	32.81	4.78	33.25	200	104	Р	V
		2376.69	35.94	-18.06	54	31.58	32.83	4.79	33.26	200	104	Α	V

Remark

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I. No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.



Variant FCC RF Test Report

15C 2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE		4803	47.15	-26.85	74	39.24	35.17	6.54	33.8	100	185	Р	Н
CH 00 2402MHz		4804	48.13	-25.87	74	40.22	35.17	6.54	33.8	100	332	Р	V

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.



15C Emission below 1GHz 2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	($dB\mu V/m$)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		114.39	28.91	-14.59	43.5	49.73	11.8	0.99	33.61	100	199	Р	Н
		187.14	28.65	-14.85	43.5	52.49	8.47	1.25	33.56	ı	ı	Р	Н
		300.63	18.69	-27.31	46	37.44	13.02	1.6	33.37	-	ı	Р	Н
		555.74	19.51	-26.49	46	31.88	18.51	2.13	33.01	ı	ı	Р	Н
A 4674		792.42	21.32	-24.68	46	31.56	19.86	2.54	32.64	ı	1	Р	Н
2.4GHz		888.45	22.65	-23.35	46	31.98	20.46	2.69	32.48	ı	ı	Р	Н
BLE LF		35.82	30.84	-9.16	40	49.26	14.65	0.55	33.62	133	295	Р	V
		51.34	27.03	-12.97	40	52.74	7.21	0.66	33.58	ı	ı	Р	V
		173.56	19.72	-23.78	43.5	43.13	8.95	1.21	33.57	ı	ı	Р	V
		557.68	20.76	-25.24	46	33.12	18.51	2.14	33.01	-	-	Р	V
		792.42	21.12	-24.88	46	31.36	19.86	2.54	32.64	ı	ı	Р	V
		984.48	24.48	-29.52	54	33.03	21.01	2.87	32.43	ı	ı	Р	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any
^	unwanted emissions shall not exceed the level of the fundamental frequency per
	15.209(c).
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level($dB\mu V/m$) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- Over Limit(dB)
- = Level(dBµV/m) Limit Line(dBµV/m)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Appendix C Product Change Description

SPORTON INTERNATIONAL (KUNSHAN) INC.

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ZTE CORPORATION

Product Change Description

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

[Z791G] [ZTE Corporation]

is the variant of the initial certified product,

[Z791] [ZTE Corporation]

SOFTWARE MODIFICATIONS:

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

Other changes detailed:

Changed the GPRS/EDGE class power 10.

AMR only support NB.

Software Version change from: MPCS_Z791V1.0.0B04 to

Z791GV1.0.0B05

HARDWARE MODIFICATION:

Band changes: NO

Power Amplifier changes: NO

Antenna changes: NO PCB Layout changes: Yes,

Components on PCB changes: Yes, there is only small change on PCB so that make the new camera/SIM card socket/earphone

compatible.

Hardware Version change from: wtjA to wqpA

LCD changes: NO Speaker changes: NO

Camera changes: Yes, the camera is changed from FF to AF

Vibrator changes: NO Bluetooth changes: NO

FM changes: NO Other changes: Yes



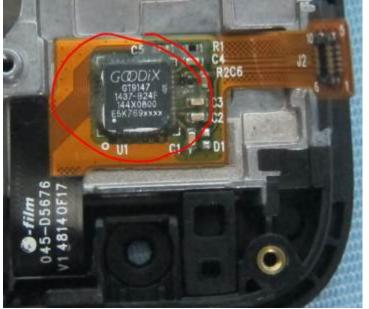
The SIM card socket is changed from push-push type to push-pull type

The earphone jack is changed from 13.1X6.6X4.55mm to 8.7*12.66*4.2mm

The vender of Z791 TP is OFILM, the IC vender is Focal tech.



The vender of Z791G TP is OFILM, the IC vender is GOODIX.



But the performance of both TP are the same.

The Diversity ANT change From Z791:



To Z791G



MECHANICAL MODIFICATIONS:

Use new metal front/back cover or keypad: NO Mechanical shell changes: there is only small change on PCB so that make the new camera/SIM card socket/earphone compatible.

Other changes detailed: NO

ACCESSORY MODIFICATIONS:

Battery changes: NO

AC Adaptor changes: Yes,

The AC Adaptor is changed from 5V/1.5A to 5V/1A

Earphone changes: NO



APPROVED BY: Zhaoyang

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