



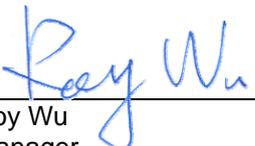
Variant FCC Test Report

According to

47 CFR Part 22H, 24E

Equipment : CDMA 1X-EVDO Digital Mobile Phone
Trade Name : ZTE
Model Name : ZTE txtster
FCC ID : Q78-ZTETXTSTER
Uplink Frequency Range : CDMA2000 Cellular : 824.2 ~ 848.8 MHz
CDMA2000 PCS : 1850.2 ~ 1910.8 MHz
Downlink Frequency Range : CDMA2000 Cellular : 869.2 ~ 893.8 MHz
CDMA2000 PCS : 1930.2 ~ 1989.8 MHz
Max. ERP/EIRP Power : CDMA2000 Cellular : 0.17 W for 1xRTT
CDMA2000 Cellular : 0.16 W for 1xEVDO
CDMA2000 PCS : 0.30 W for 1x1xRTT
CDMA2000 PCS : 0.29 W for 1xEVDO
Emission Designator : 1M25F9W
Applicant : ZTE CORPORATION
ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan
District, Shenzhen, Guangdong, 518057, P.R.China

- This is a variant report which is only valid together with the original test report.
- The test result refers exclusively to the test presented test model / sample.
- Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.
- The data shown in this test report were carried out on Jun. 30, 2008 at **Sporton International Inc. LAB.**
- Report No.: FG862301, Report Version: Rev. 01.


Roy Wu
Manager

SPORTON International (Kunshan) Inc.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.



Table of Contents

History of This Test Report ii

1. General Information 1

1.1. Applicant 1

1.2. Manufacturer 1

1.3. Basic Description of Accessory 1

1.4. Feature of Equipment under Test 2

1.5. Report Date 2

2. Test Configuration of Equipment under Test 3

2.1 Test Manner 3

2.2 Test Mode 3

2.3 Connection Diagram of Test System 3

2.4 Ancillary Equipmnt List 4

3. General Information of Test Site 5

3.1 Test Voltage 5

3.2 Test Compliance 5

3.3 Frequency Range 5

3.4 Test Distance 5

4. Test Data and Test Result 6

4.1 List of Measurements and Examinations 6

4.2 RF Output Power 7

4.3 ERP / EIRP Measurement 9

4.4 Field Strength of Spurious Radiation 13

5 List of Measurement Equipments 21

6 Uncertainty Evaluation 22

Appendix A. Photographs of EUT

Appendix B. Setup Photographs

Appendix C. CDMA2000 1xRTT and 1xEVDO Test Modes

Appendix D. Product Equality Declaration

Appendix E. Original Report



1. General Information

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. Basic Description of Accessory

AC Adapter	Brand Name	ZTE
	Model Name	STC-A22050U8
	Power Rating	I/P: 100-240Vac, 50-60Hz, 200mA; O/P: 5Vdc, 650mA
Battery	Brand Name	ZTE
	Model Name	Li3708T42p3h553756
	Rating	3.7Vdc, 830mAh
	Type	Li-ion

Remark: Above EUT's information was declared by manufacturer. Please refer to the specifications of manufacturer or User's Manual for more detailed features description.



1.4. Feature of Equipment under Test

Product Feature & Specification	
DUT Type :	CDMA 1X-EVDO Digital Mobile Phone
Trade Name :	ZTE
Model Name :	ZTE txtster
FCC ID :	Q78-ZTETXTSTER
Tx Frequency :	CDMA2000 Cellular : 824 MHz ~ 849 MHz CDMA2000 PCS : 1850 MHz ~1910 MHz
Rx Frequency :	CDMA2000 Cellular : 869 MHz ~ 894 MHz CDMA2000 PCS : 1930 MHz ~ 1990 MHz
Maximum Output Power :	CDMA2000 Cellular (1xRTT): 24.47 dBm CDMA2000 Cellular (1xEVDO): 24.90 dBm CDMA2000 PCS (1xRTT): 24.45 dBm CDMA2000 PCS (1xEVDO): 25.00 dBm
Maximum ERP/EIRP :	CDMA2000 Cellular : 0.17 W (22.28 dBm) for 1xRTT 0.16 W (22.01 dBm) for 1xEVDO CDMA2000 PCS : 0.30 W (24.78 dBm) for 1xRTT 0.29 W (24.60 dBm) for 1xEVDO
Antenna Type :	Fixed Internal
HW Version :	C50D
SW Version :	CAZTED92V1.0.0B01
Type of Modulation :	QPSK
Type of Emission :	1M25F9W
DUT Stage :	Production Unit

1.5. Report Date

EUT Received : Jun. 23, 2008

Report Date : Jul. 16, 2008

2. Test Configuration of Equipment under Test

2.1 Test Manner

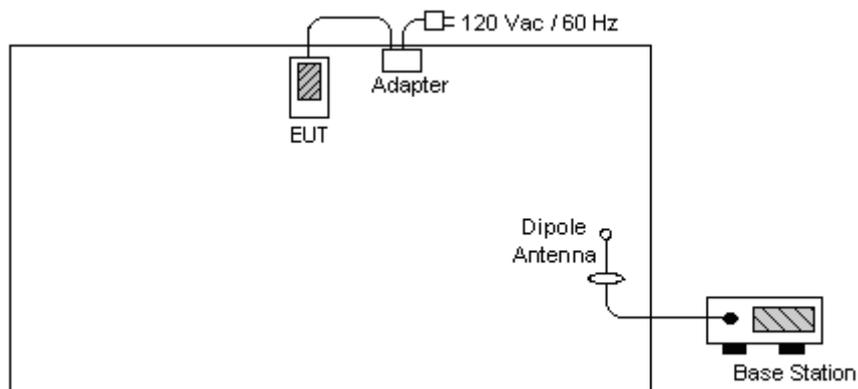
- a. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- b. During all testings, EUT is in link mode with base station emulator at maximum power level.
- c. Frequency range investigated: radiated emission 30 MHz to 9000 MHz for CDMA2000 Cellular; 30MHz to 19000 MHz for CDMA2000 PCS.

2.2 Test Mode

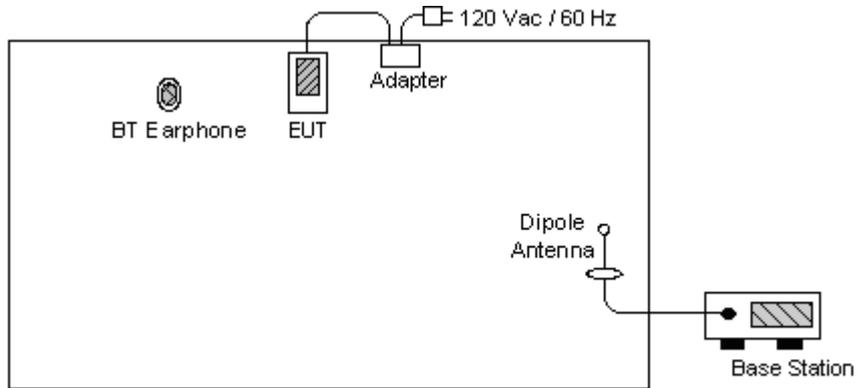
Application	CDMA2000 Cellular	CDMA2000 PCS
Radiated Emission	<input checked="" type="checkbox"/> Mode 1: 1xEV-DO Link Mode_CH1013 <input checked="" type="checkbox"/> Mode 2: 1xEV-DO Link Mode_CH384 <input checked="" type="checkbox"/> Mode 3: 1xEV-DO Link Mode_CH777 <input checked="" type="checkbox"/> Mode 7: 1xEV-DO Link Mode_CH384 + BT Tx	<input checked="" type="checkbox"/> Mode 4: 1xEV-DO Link Mode_CH25 <input checked="" type="checkbox"/> Mode 5: 1xEV-DO Link Mode_CH600 <input checked="" type="checkbox"/> Mode 6: 1xEV-DO Link Mode_CH1175
Conducted Measurement	<input checked="" type="checkbox"/> Mode 1: 1xRTT Link Mode <input checked="" type="checkbox"/> Mode 2: 1xEV-DO Link Mode	<input checked="" type="checkbox"/> Mode 3: 1xRTT Link Mode <input checked="" type="checkbox"/> Mode 4: 1xEV-DO Link Mode

2.3 Connection Diagram of Test System

<CDMA Link Mode>



<Both CDMA and Bluetooth Link Mode>



2.4 Ancillary Equipmnt List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Code
1.	Base Station	R&S	CMU200	N/A	N/A	Unshielded, 1.8m
2.	BT Earphone	Nokia	HS.12W	PYAHS.12W	N/A	N/A



3. General Information of Test Site

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. : TH01-KS, 03CH01-KS

3.1 Test Voltage

AC 120V / 60Hz

3.2 Test Compliance

47 CFR Part 22H, 24E, Part 2

3.3 Frequency Range

- a. Radiation: from 30MHz to 9000MHz for CDMA2000 Cellular.
- b. Radiation: from 30 MHz to 19000 MHz for CDMA2000 PCS.

3.4 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.



4. Test Data and Test Result

4.1 List of Measurements and Examinations

FCC Rule	Description Of Test	Result	Section
§2.1046	RF Output Power	Passed	4.2
§ 22.913 §24.232	ERP / EIRP	Passed	4.3
§2.1053	Field Strength of Spurious Radiation	Passed	4.4

4.2 RF Output Power

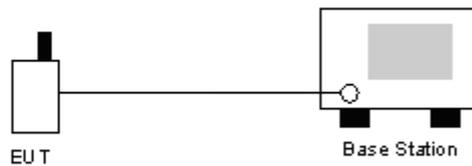
4.2.1 Measurement Instruments

As described in chapter 5 of this test report.

4.2.2 Test Procedure

- a. The transmitter output was connected to power meter and base station.
- b. Set EUT at all up bit for maximum power through base station.
- c. Select lowest, middle, and highest channels for each band.

4.2.3 Test Setup Layout





4.2.4 Test Result

Bands	Test Mode	Test Status	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
CDMA2000 Cellular	1xRTT	FCH_RC1	1013	824.70 (Low)	24.47	0.28
			384	836.52 (Mid)	24.12	0.26
			777	848.31 (High)	24.11	0.26
		FCH_RC3	1013	824.70 (Low)	24.21	0.26
			384	836.52 (Mid)	24.14	0.26
			777	848.31 (High)	24.15	0.26
		FCH+SCH_RC3	1013	824.70 (Low)	24.30	0.27
			384	836.52 (Mid)	24.15	0.26
			777	848.31 (High)	24.14	0.26
	1xEV-DO	EVDO-UL: 9.6Kbps	1013	824.70 (Low)	24.90	0.31
			384	836.52 (Mid)	24.70	0.30
			777	848.31 (High)	24.70	0.30
		EVDO-UL: 38.4Kbps	1013	824.70 (Low)	24.60	0.29
			384	836.52 (Mid)	24.80	0.30
			777	848.31 (High)	24.70	0.30
		EVDO-UL: 153.6Kbps	1013	824.70 (Low)	24.70	0.30
			384	836.52 (Mid)	24.70	0.30
			777	848.31 (High)	24.70	0.30
CDMA2000 PCS	1xRTT	FCH_RC1	25	1851.25 (Low)	24.02	0.25
			600	1880.00 (Mid)	24.32	0.27
			1177	1908.75 (High)	24.28	0.27
		FCH_RC3	25	1851.25 (Low)	24.02	0.25
			600	1880.00 (Mid)	24.45	0.28
			1177	1908.75 (High)	24.41	0.28
		FCH+SCH_RC1	25	1851.25 (Low)	24.03	0.25
			600	1880.00 (Mid)	24.18	0.26
			1177	1908.75 (High)	24.25	0.27
	1xEV-DO	EVDO-UL: 9.6Kbps	25	1851.25 (Low)	24.90	0.31
			600	1880.00 (Mid)	24.36	0.27
			1177	1908.75 (High)	25.00	0.32
		EVDO-UL: 38.4Kbps	25	1851.25 (Low)	24.60	0.29
			600	1880.00 (Mid)	24.45	0.28
			1177	1908.75 (High)	24.77	0.30
		EVDO-UL: 153.6Kbps	25	1851.25 (Low)	24.63	0.29
			600	1880.00 (Mid)	24.44	0.28
			1177	1908.75 (High)	24.75	0.30

Note:

1. For CDMA2000 Cellular band, the worst case adopted as maximum output power 24.90dBm, was at CDMA 2000 1xEV-DO, 9.6Kbps.
2. For CDMA2000 PCS band, the worst case adopted as maximum output power 25.00dBm, was at CDMA 2000 1xEV-DO, 9.6Kbps.



4.3 ERP / EIRP Measurement

Equivalent isotropic radiated power measurements by substitution method according to ANSI/TIA/EIA-603-C.

4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

4.3.2 Test Procedure

- a. The EUT was placed on a tutable with 1.0 meter height in an fully anechoic chamber.
- b. The EUT was set 1.2 meters from the receiving antenna which was mounted on the antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiated power.
- d. The height of the receiving antenna is also kept at 1.0M height.
- e. Taking the record of maximum ERP/EIRP.
- f. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- g. The conducted power at the terminal of the dipole antenna is measured.
- h. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- i. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm) : Input power to substitution antenna.

G_s (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

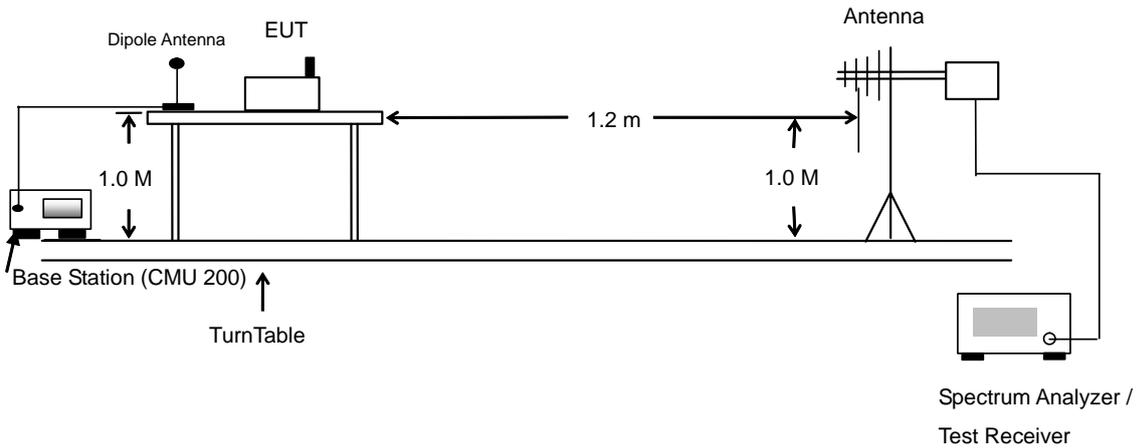
$E_s = R_s + AF$

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.

4.3.3 Test Setup Layout of ERP/EIRP





4.3.4 Test Result

CDMA2000 Cellular 850 1xRTT FCH_RC1 Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-26.57	-48.12	0.00	-1.08	20.47	0.11
836.52	-25.07	-48.28	0.00	-0.93	22.28	0.17
848.31	-25.82	-48.35	0.00	-0.76	21.77	0.15
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-29.28	-47.97	0.00	-1.08	17.61	0.06
836.52	-27.32	-48.01	0.00	-0.93	19.76	0.09
848.31	-27.50	-48.05	0.00	-0.76	19.79	0.10

CDMA2000 Cellular 850 1xEV-DO 9.6Kbps Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-25.03	-48.12	0.00	-1.08	22.01	0.16
836.52	-25.84	-48.28	0.00	-0.93	21.51	0.14
848.31	-26.15	-48.35	0.00	-0.76	21.44	0.14
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-35.01	-47.97	0.00	-1.08	11.88	0.02
836.52	-34.94	-48.01	0.00	-0.93	12.14	0.02
848.31	-34.45	-48.05	0.00	-0.76	12.84	0.02



CDMA2000 PCS1900 1xRTT FCH_RC3 Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-30.93	-51.88	0.00	1.96	22.91	0.20
1880.00	-30.21	-52.99	0.00	2.00	24.78	0.30
1908.75	-32.16	-54.28	0.00	1.98	24.10	0.26
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-33.95	-52.13	0.00	1.96	20.14	0.10
1880.00	-33.04	-53.17	0.00	2.00	22.13	0.16
1908.75	-33.97	-54.13	0.00	1.98	22.14	0.16

CDMA2000 PCS1900 1xEV-DO 9.6Kbps Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-29.24	-51.88	0.00	1.96	24.60	0.29
1880.00	-31.12	-52.99	0.00	2.00	23.87	0.24
1908.75	-32.23	-54.28	0.00	1.98	24.03	0.25
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-38.89	-52.13	0.00	1.96	15.20	0.03
1880.00	-40.27	-53.17	0.00	2.00	14.90	0.03
1908.75	-40.61	-54.13	0.00	1.98	15.50	0.04



4.4 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603-C.

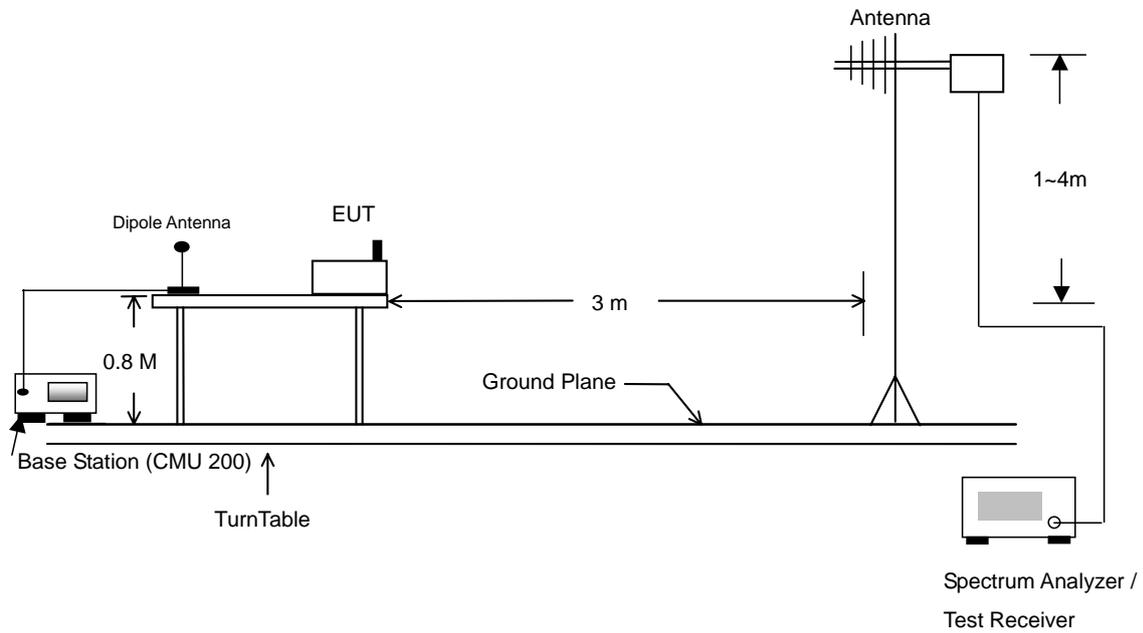
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure

- a. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
- b. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- d. The height of the receiving antenna is varied between one meter and four meters to reach the maximum spurious emission for both horizontal and vertical polarizations.
- e. Taking the record of maximum spurious emission.
- f. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
- g. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- h. Taking the record of output power at antenna port.
- i. Repeat step 7 to step 8 for another polarization.
- j. Emission level (dBm) = output power + substitution Gain.

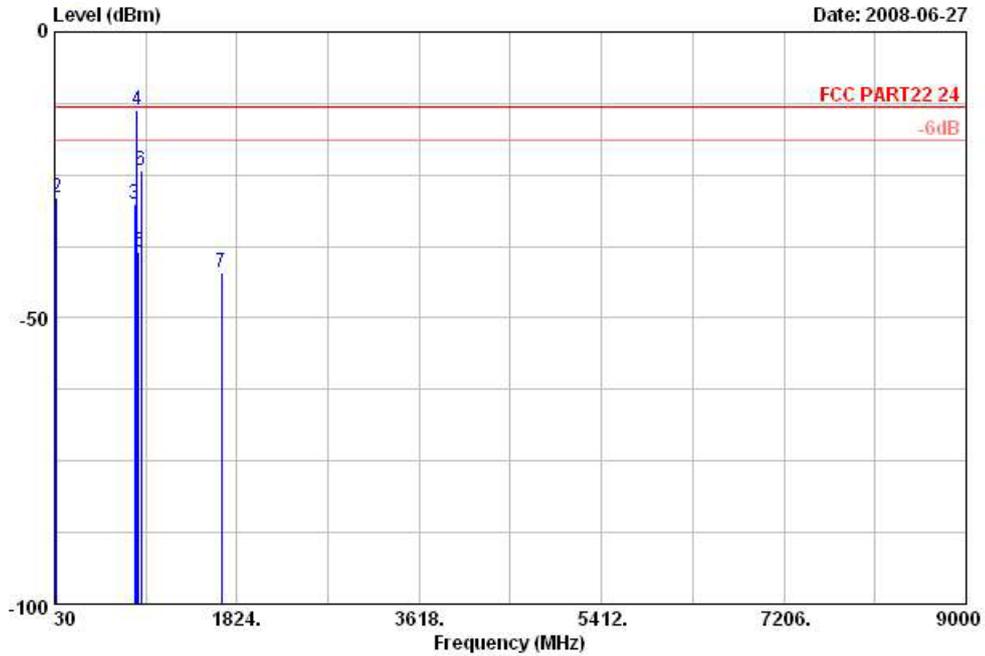
4.4.3 Test Setup Layout





4.4.4 Test Data

- Mode 1
- Horizontal Polarization



Site : 03CH01-KS
 Condition: FCC PART22 24 LF EIRP ANT-070911 LINE
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : ZTE D92
 Memo : CDMA 1xEVDO Link Ch.384

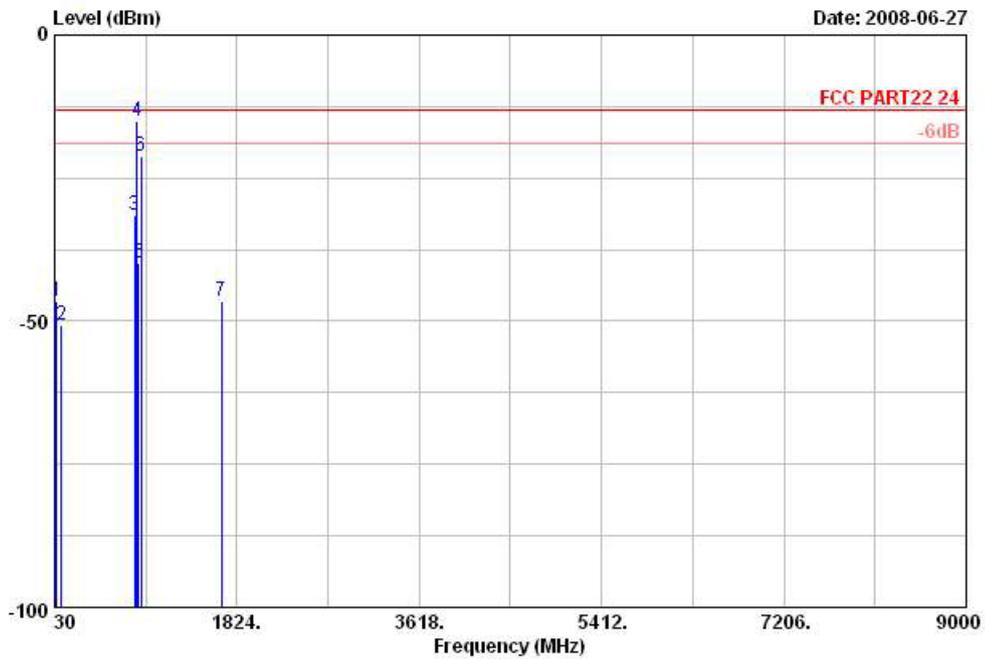
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
46.74	-48.68	-13	-35.68	-53.12	-41.25	-0.32	-5.60	H	Pass
101.01	-52.78	-13	-39.78	-49.15	-50.69	-0.53	-0.47	H	Pass
817.30	-33.53	-13	-20.53	-42.56	-41.13	-1.26	8.49	H	Pass
836.90	-17.16	-	-	-27.72	-24.85	-1.24	8.60	H	-
855.80	-42.01	-13	-29.01	-52.90	-49.76	-1.24	8.66	H	Pass
881.70	-23.38	-	-	-32.21	-31.26	-1.25	8.78	H	-
1672.00	-48.55	-13	-35.55	-50.87	-57.13	-1.79	8.94	H	Pass

Remark :

- 836.90MHz is Mobile Station Signal.
- 881.70MHz is Base Station Signal.



Vertical Polarization



Site : 03CH01-KS
 Condition: FCC PART22 24 LF EIRP ANT-070911 NEUTRAL
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : ZTE D92
 Memo : CDMA 1xEVDO Link Ch.384

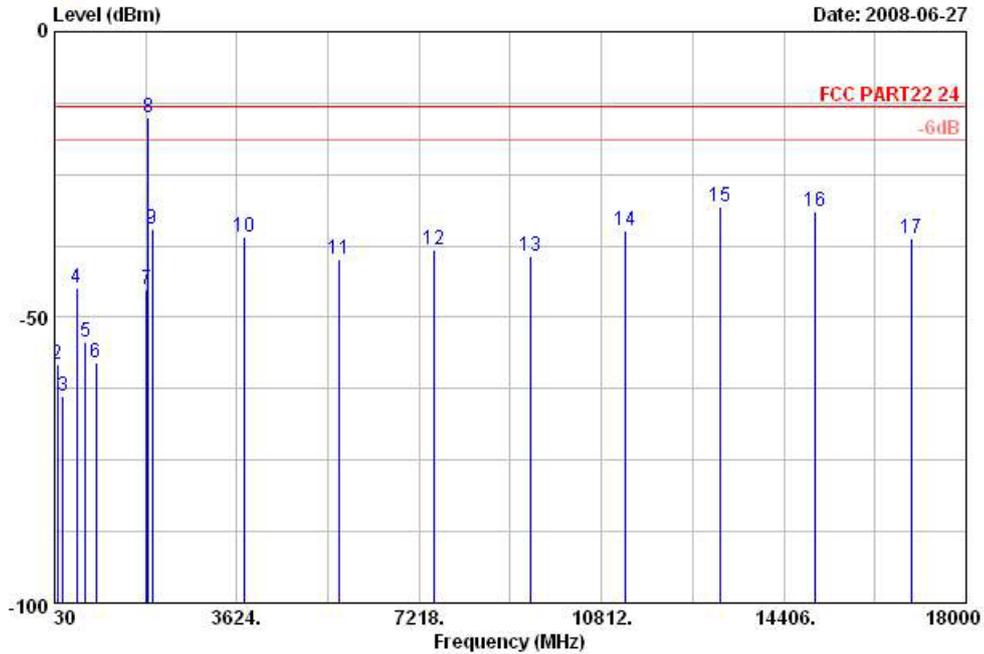
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
32.70	-35.18	-13	-22.18	-47.17	-17.26	-0.29	-16.06	V	Pass
45.93	-31.15	-13	-18.15	-36.21	-23.24	-0.32	-6.08	V	Pass
817.30	-32.27	-13	-19.27	-41.30	-39.87	-1.26	8.49	V	Pass
836.90	-15.90	-	-	-26.46	-23.59	-1.24	8.60	V	-
855.80	-40.52	-13	-27.52	-51.41	-48.27	-1.24	8.66	V	Pass
881.70	-26.40	-	-	-35.23	-34.28	-1.25	8.78	V	-
1674.00	-44.33	-13	-31.33	-46.65	-52.91	-1.79	8.94	V	Pass

Remark :

- 836.90MHz is Mobile Station Signal.
- 881.70MHz is Base Station Signal.



- Mode 2
- Horizontal Polarization



Site : 03CH01-KS
 Condition: FCC PART22 24 LF EIRP ANT-070911 LINE
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : ZTE D92
 Memo : CDMA 1xEVDO Link Ch.600

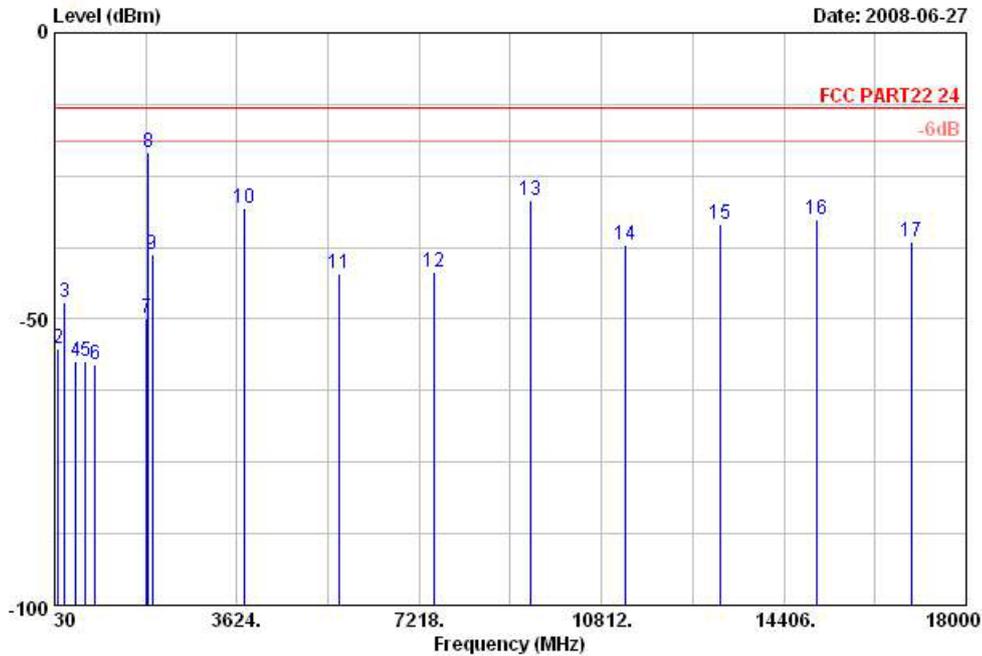
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
45.66	-46.41	-13	-33.41	-53.62	-58.73	-0.32	14.15	H	Pass
104.52	-55.22	-13	-42.22	-53.97	-68.76	-0.54	15.15	H	Pass
233.85	-47.21	-13	-34.21	-51.43	-61.95	-0.74	16.15	H	Pass
449.10	-57.45	-13	-44.45	-70.44	-73.43	-0.98	17.15	H	Pass
643.00	-57.39	-13	-44.39	-70.30	-74.44	-1.05	18.15	H	Pass
837.60	-58.03	-13	-45.03	-70.74	-76.27	-1.24	19.15	H	Pass
1840.00	-49.93	-13	-36.93	-55.78	-69.82	-1.89	20.15	H	Pass
1880.00	-20.80	-	-	-27.03	-41.72	-1.92	21.15	H	-
1960.00	-38.65	-	-	-45.34	-60.60	-1.95	22.15	H	-
3760.00	-30.52	-13	-17.52	-42.11	-54.24	-2.72	23.15	H	Pass
5639.00	-41.98	-13	-28.98	-58.22	-67.33	-3.35	24.15	H	Pass
7520.00	-41.87	-13	-28.87	-59.29	-68.78	-3.91	25.15	H	Pass
9401.00	-29.29	-13	-16.29	-49.3	-57.66	-4.37	26.15	H	Pass
11276.00	-36.91	-13	-23.91	-59.75	-67.31	-5.40	27.15	H	Pass
13160.00	-33.54	-13	-20.54	-56.90	-65.57	-6.03	28.15	H	Pass
15044.00	-32.69	-12	-20.69	-53.99	-64.96	-5.27	29.15	H	Pass
16920.00	-36.47	-11	-25.47	-61.4	-69.86	-5.39	30.15	H	Pass

Remark :

1. 1880.00MHz is Mobile Station Signal.
2. 1960.00MHz is Base Station Signal.



Vertical Polarization



Site : 03CH01-KS
 Condition: FCC PART22 24 LF EIRP ANT-070911 NEUTRAL
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : ZTE D92
 Memo : CDMA 1xEVDO Link Ch.600

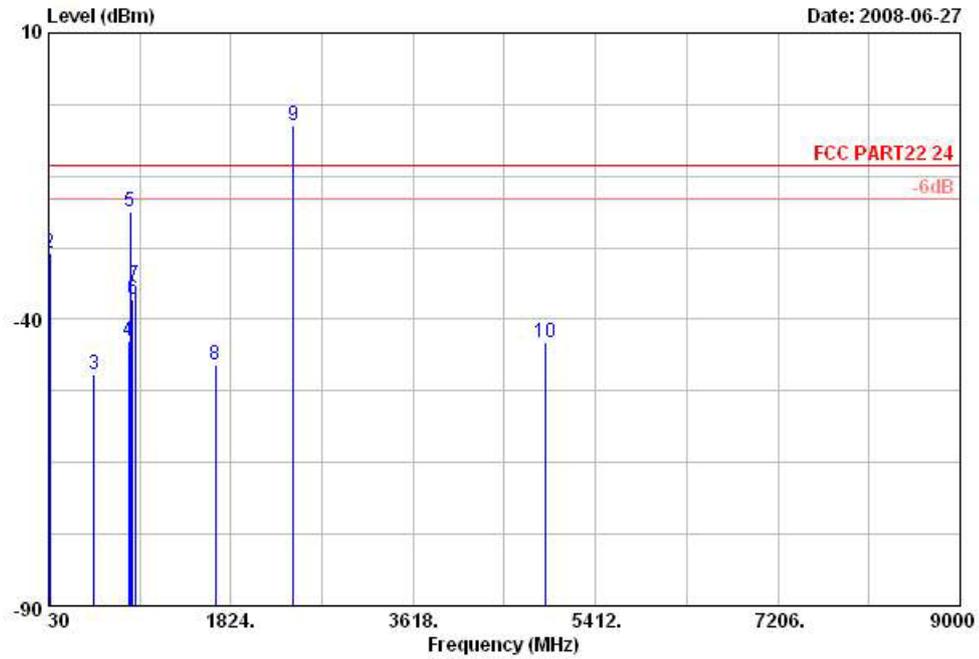
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
45.66	-42.35	-13	-29.35	-49.56	-34.44	-0.32	-6.08	V	Pass
93.18	-58.29	-13	-45.29	-56.37	-56.87	-0.52	0.21	V	Pass
192.81	-63.87	-13	-50.87	-63.06	-69.57	-0.65	7.20	V	Pass
458.90	-44.88	-13	-31.88	-56.89	-50.59	-0.98	6.88	V	Pass
644.40	-54.22	-13	-41.22	-67.22	-60.61	-1.05	7.49	V	Pass
843.90	-57.88	-13	-44.88	-70.94	-65.59	-1.24	8.62	V	Pass
1840.00	-45.12	-13	-32.12	-50.97	-54.05	-1.89	9.19	V	Pass
1880.00	-14.97	-	-	-21.20	-24.00	-1.92	9.26	V	-
1960.00	-34.56	-	-	-41.25	-43.70	-1.95	9.34	V	-
3760.00	-35.82	-13	-22.82	-47.41	-46.86	-2.72	10.47	V	Pass
5639.00	-39.89	-13	-26.89	-56.13	-52.56	-3.35	11.47	V	Pass
7520.00	-38.07	-13	-25.07	-55.49	-51.67	-3.91	11.84	V	Pass
9401.00	-39.28	-13	-26.28	-59.29	-54.48	-4.37	12.98	V	Pass
11279.00	-34.69	-13	-21.69	-57.49	-51.66	-5.42	13.70	V	Pass
13157.00	-30.54	-13	-17.54	-53.9	-47.80	-6.03	13.38	V	Pass
15036.00	-31.53	-13	-18.53	-52.83	-46.80	-5.27	12.15	V	Pass
16920.00	-36.27	-13	-23.27	-61.2	-52.66	-5.39	13.15	V	Pass

Remark :

- 1880.00MHz is Mobile Station Signal.
- 1960.00MHz is Base Station Signal.



- Mode 3
- Horizontal Polarization



Site : 03CH01-KS
 Condition: FCC PART22 24 LF EIRP ANT-070911 LINE
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : ZTE D92
 Memo : CDMA850 Link Ch.384+BT Link

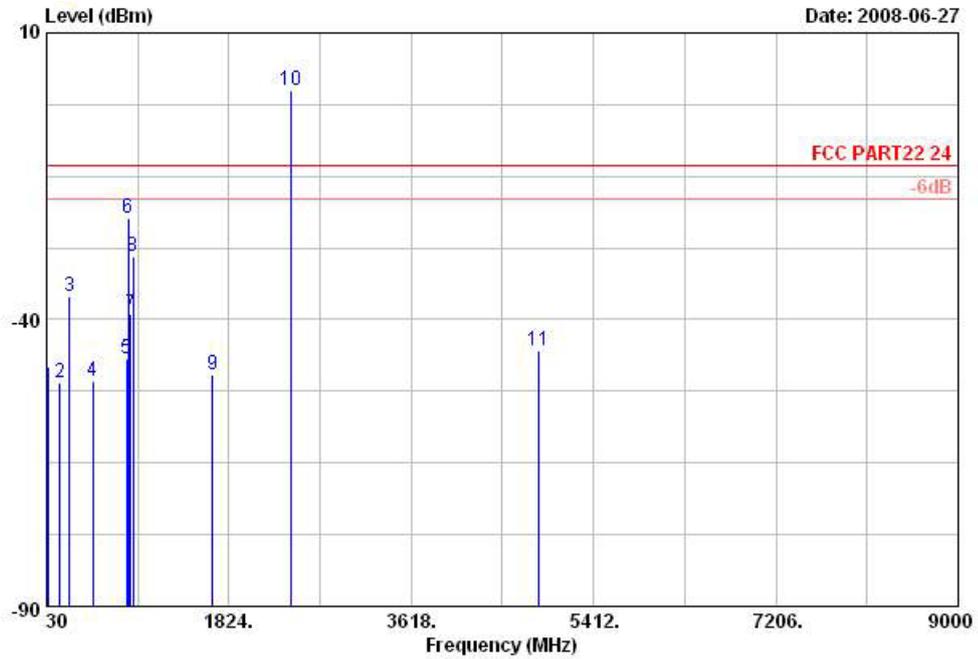
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
45.66	-50.29	-13	-37.29	-55.35	-42.38	-0.32	-6.08	H	Pass
160.14	-53.03	-13	-40.03	-48.73	-56.35	-0.60	4.87	H	Pass
253.29	-38.00	-13	-25.00	-42.22	-42.81	-0.75	6.21	H	Pass
481.30	-52.93	-13	-39.93	-59.90	-58.53	-0.99	6.76	H	Pass
818.00	-48.98	-13	-35.98	-58.01	-56.58	-1.26	8.49	H	Pass
834.10	-24.59	-	-	-34.95	-35.84	-1.25	12.15	H	-
854.40	-41.29	-13	-28.29	-52.22	-53.53	-1.24	13.15	H	Pass
878.20	-31.21	-	-	-40.37	-44.46	-1.25	14.15	H	-
1666.00	-51.76	-13	-38.76	-53.94	-66.54	-1.78	15.15	H	Pass
2428.00	-2.06	-	-	-9.95	-18.22	-2.16	16.15	H	-
4869.00	-47.53	-13	-34.53	-59.49	-65.74	-3.21	17.15	H	Pass

Remark :

1. 834.10MHz is Mobile Station Signal.
2. 878.20MHz is Base Station Signal.
3. 2428.00MHz is Bluetooth Signal.



Vertical Polarization



Site : 03CH01-KS
 Condition: FCC PART22 24 LF EIRP ANT-070911 NEUTRAL
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : ZTE D92
 Memo : CDMA850 Link Ch.384+BT Link

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
34.32	-35.00	-13	-22.00	-46.43	-19.20	-0.31	-13.96	V	Pass
45.39	-30.49	-13	-17.49	-35.55	-22.58	-0.32	-6.08	V	Pass
479.20	-51.89	-13	-38.89	-59.04	-57.46	-0.99	6.73	V	Pass
818.00	-46.05	-13	-33.05	-55.08	-53.65	-1.26	8.49	V	Pass
834.10	-23.39	-	-	-33.75	-31.07	-1.25	8.58	V	-
853.70	-38.64	-13	-25.64	-49.62	-46.38	-1.24	8.65	V	Pass
878.90	-36.06	-	-	-45.13	-43.92	-1.25	8.76	V	-
1668.00	-50.04	-13	-37.04	-52.22	-58.58	-1.78	8.91	V	Pass
2442.00	-8.43	-	-	-16.43	-18.67	-2.17	10.22	V	-
4926.00	-46.26	-13	-33.26	-58.29	-58.40	-3.24	11.05	V	Pass

Remark :

- 834.10MHz is Mobile Station Signal.
- 878.90MHz is Base Station Signal.
- 2442.00MHz is Bluetooth Signal.



5 List of Measurement Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9K~40GHz	Mar. 13, 2008	Mar. 12, 2009	Radiation (03CH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9KHz~2.75GHz	Mar. 15, 2008	Mar. 14, 2009	Radiation (03CH01-KS)
Bilog Antenna	Schaffner	CBL6112D	23182	25MHz~2000MHz	May 22, 2007	May 21, 2009	Radiation (03CH01-KS)
Preamplifier	Agilent	8449B	3008A02370	1G~26.5GHz	Jun. 04, 2007	Jun. 03, 2009	Radiation (03CH01-KS)
Preamplifier	Wireless	FPA6592G	60006	30M~2000MHz	Jul. 24, 2007	Jul. 23, 2009	Radiation (03CH01-KS)
DRG Horn(Medium)	EMCO	3117	75959	1GHz ~ 18GHz	Aug. 17, 2007	Aug. 16, 2008	Radiation (03CH01-KS)
Power Meter	Agilent	E4416A	MY45101555	N/A	Jun. 18, 2007	Jun. 17, 2009	Conducted (TH01-KS)
Power Sensor	Agilent	E9327A	MY44421198	50MHz~18GHz	Jun. 12, 2007	Jun. 11, 2009	Conducted (TH01-KS)
Thermal	Rten Billion	TTC-B3S	TBN-960502	-40~150C	Jun. 27, 2007	Jun. 26, 2009	Conducted (TH01-KS)
Power Divider	ARRA	A3200-2	N/A	DC~18GHz	Sep. 01, 2007	Aug. 31, 2008	Conducted (TH01-KS)
DC Power	Topward	3306D	N/A	30V6A	N/A	N/A	Conducted (TH01-KS)



6 Uncertainty Evaluation

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

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
Combined standard uncertainty Uc(y)	1.27		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54		

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

Contribution	Uncertainty of x_i		$u(x_i)$	C_i	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1= 0.197$ Antenna VSWR $\Gamma_2= 0.194$ Uncertainty= $20\log(1-\Gamma_1*\Gamma_2*\Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty Uc(y)	2.36				
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	4.72				

END OF TEST REPORT



Appendix A. Photographs of EUT

Please refer to Sporton report number EP862301 as below.



Appendix D. Product Equality Declaration



内部公开▲

ZTE CORPORATION

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

Declaration of Product Modifications

The product, ZTE D90, has been granted by FCC dated January 29, 2007. Now we, ZTE CORPORATION, would like to apply Class II permissive change of the authorized equipment.

The differences are listed as below:

1 ID is different

ZTE txtster is a clam-shaped handset as ZTE D90, but all the mechanical structures and plastics structures are total changed to new design.

2 The LCD FPC is different

ZTE txtster re-design the LCD FPC due to new ID design and mechanical & plastics structures re-design.

3 The LCD thickness is different

ZTE txtster choose thinner LCD due to new ID design and mechanical & plastics structures re-design.

4 The Camera thickness is different

ZTE txtster choose thinner camera due to new ID design and mechanical & plastics structures re-design.

5 The software of ZTE txtster have some minor changes based on D90 relate to the UI, Token, wallpaper, and ringtone. Others all are same with D90.

The conformities are belowing:



ZTE中兴

内部公开▲

- 1 The PCB of ZTE txtster is same as D90
ZTE txtster use all the same core parts of D90 like K/B, Main board.
- 3 The layer of PCB is consistent between ZTE txtster and D90
The layer of PCB board of ZTE txtster is 8 layers, same as ZTE D90.
- 4 LCD display performance is same between ZTE txtster and D90
Main LCD all are: 176X220,TFT,260K;
Secondary LCD all are : 96X64,CSTN,65K
- 5 The vibration motor is same between ZTE txtster and D90
ZTE txtster and ZTE D90 has one same vibration motor. No any changes to this part.
- 6 The acoustic component is same between ZTE txtster and D90
ZTE txtster has two acoustic components which are speaker and receiver , same as ZTE D90 on this half.
- 7 The capacity of battery is same between ZTE txtster and ZTE D90
The capacitance of ZTE txtster is 830 mAh, same with ZTE D90.
- 8 The internal antenna is same between ZTE txtster and ZTE D90
The shape of antenna is same because of ZTE txtster just use the same core part of D90. so no any changes to the antenna shapes.

With the exception of differences points like ID and mechanical parts. The ZTE txtster and ZTE D90 are selfsameness include the conformities as above mentioned.

Contact Person: Zhangmin

COMPANY: ZTE CORPORATION

ADD: B105, #889, Bibo Rd, Zhangjiang Hi-Tech Park, Shanghai,China

Tel: 86-021-68896835

Fax: 86-021-50801070

E-mail: zhang.min13@zte.com.cn



Appendix E. Original Report

Please refer to SET Report Number FCC06-8094 as below.