

Variant FCC Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : GSM DUAL band digital mobile phone
BRAND NAME : ZTE
MODEL NAME : Coral 200FM / Coral 200 Solar
FCC ID : Q78-CORAL200
STANDARD : 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
Tx/Rx FREQUENCY RANGE : GSM850 : 824.2 ~ 848.8 MHz /
869.2 ~ 893.8 MHz
GSM1900 : 1850.2 ~ 1909.8 MHz /
1930.2 ~ 1989.8 MHz
MAX. ERP/EIRP POWER : Sample A (Coral 200FM):
GSM850 (GPRS 8) : 0.90 W
GSM1900 (GSM) : 1.57 W
Sample B (Coral 200 Solar):
GSM850 (GPRS 8) : 0.89 W
GSM1900 (GSM) : 1.71 W

This is a variant report which is only valid combined with the original report. The product sample received on Jun. 16, 2009 and completely tested on Jun. 20, 2009. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 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 INC., the test report shall not be reproduced except in full.

Reviewed by:



Roy Wu / Manager



SPORTON INTERNATIONAL INC.

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result
3.1	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts for FCC (<6.3 Watts for IC)	PASS
3.2	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS
3.2	§2.1053 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS

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 & Specification	
Equipment	GSM DUAL band digital mobile phone
Brand Name	ZTE
Model Name	Coral 200FM / Coral 200 Solar
FCC ID	Q78-CORAL200
DUT Configuration	Sample A : Coral 200FM + Back Cover 1 + Battery 1 Sample B : Coral 200 Solar + Back Cover 2 + Battery 2
Tx Frequency	GSM850 : 824 MHz ~ 849 MHz GSM1900 : 1850 MHz ~ 1910 MHz
Rx Frequency	GSM850 : 869 MHz ~ 894 MHz GSM1900 : 1930 MHz ~ 1990 MHz
Maximum ERP/EIRP	Sample A : GSM850 (GPRS 8) : 0.90 W (29.55 dBm) GSM1900 (GSM) : 1.57 W (31.96 dBm)
	Sample B : GSM850 (GPRS 8) : 0.89 W (29.47 dBm) GSM1900 (GSM) : 1.71 W (32.34 dBm)
Antenna Type	Fixed Internal Antenna
HW Version	g3dB
SW Version	VDF-P108A2FM
Type of Modulation	GSM / GPRS : GMSK
EUT Stage	Identical Prototype

Remark:

1. This test report recorded only product characteristics and test results of PCS Licensed Transmitter Held to Ear (PCE).
2. Sample A and Sample B are almost the same; the differences between them are back cover and battery pack.

List of Accessory:

Specification of Accessory		
AC Adapter	Brand Name	ZTE
	Model Name	STC-A22O50U8-C
	Power Rating	I/P:100-240Vac, 50-60Hz, 200mA; O/P: 5Vdc, 700mA
	AC Power Cord Type	1.2 meter non-shielded cable without ferrite core
Back Cover 1	Type	Simple Battery Cover
Back Cover 2	Type	Battery Cover + Battery Charger with Solar Panel
Battery 1	Brand Name	ZTE
	Model Name	Li3706T42P3h383857
	Power Rating	3.7Vdc, 670mAh
	Type	Li-ion
Battery 2	Brand Name	ZTE
	Model Name	Li3705T42P3h383863
	Power Rating	3.7Vdc, 580mAh
	Type	Li-ion
Earphone	Brand Name	ZTE
	Model Name	HMZ1-U8
	Signal Line Type	1.5 meter non-shielded cable without ferrite core

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. For accessories equipped with this EUT, please refer to the appendix of the external photo.

1.4 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.
	03CH01-KS



1.5 Applied Standards

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

- 47 CFR Part 2, 22(H), 24(E)
- ANSI C63.4-2003
- ANSI / TIA / EIA-603-C-2004
- IC RSS-132 Issue 2
- 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 (DoC), recorded in a separate test report.

1.6 Ancillary Equipment List

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 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 as follows:

1. 30 MHz to 9000 MHz for GSM850.
2. 30MHz to 19000 MHz for GSM1900.

Test Modes	
Band	Radiated TCs
GSM 850	<ul style="list-style-type: none"> ■ GPRS 8 Link for Sample A ■ GPRS 8 Link for Sample B
GSM 1900	<ul style="list-style-type: none"> ■ GSM Link for Sample A ■ GSM Link for Sample B
<p>Remark: Only the radiated emission was performed in this report, and the conducted test cases can be referred to Sporton Report Number FG890310, which was shown in appendix D.</p>	

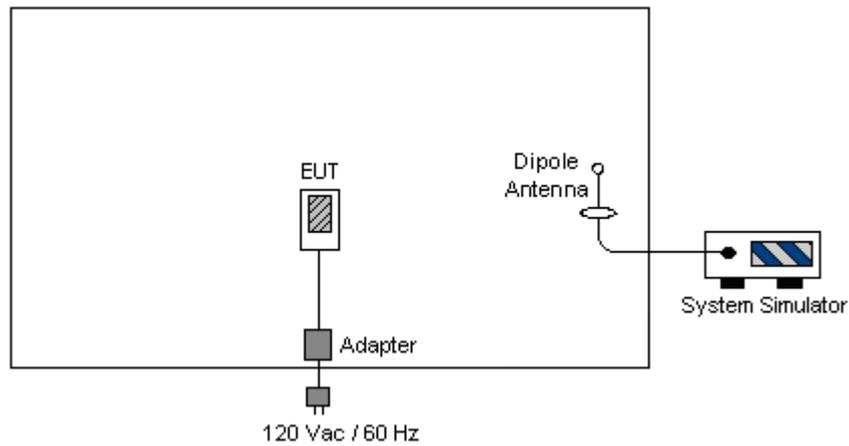
Note: The maximum power levels are GPRS multi-slot class 8 mode for GSM850 and GSM mode for GSM1900, only these modes were used for all tests.

The conducted power tables are as follows:

Conducted Power						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	31.24	31.31	31.25	28.89	28.69	28.53
GPRS 8	31.24	31.44	31.39	28.86	28.66	28.50
GPRS 10	31.11	31.29	31.36	28.84	28.65	28.49

(*Unit: dBm)

2.2 Connection Diagram of Test System



3 Test Result

3.1 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.1.1 Description of the ERP/EIRP Measurement

ERP/EIRP is measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

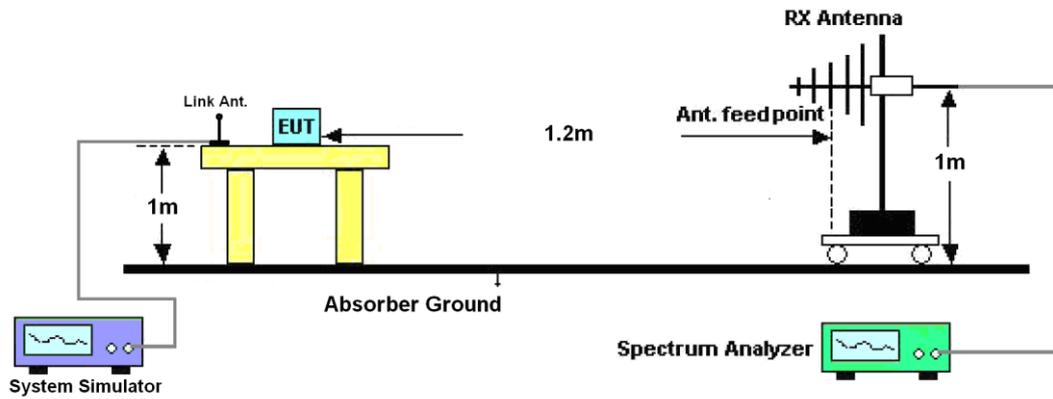
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 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/EIRP.
5. Taking the record of maximum ERP/EIRP.
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/EIRP of the substitution antenna.
9. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$
Ps (dBm) : Input power to substitution antenna.
Gs (dBi or dBd) : Substitution antenna Gain.
 $E_t = R_t + AF$
 $E_s = R_s + AF$
AF (dB/m) : Receive antenna factor
Rt : The highest received signal in spectrum analyzer for EUT.
Rs : The highest received signal in spectrum analyzer for substitution antenna.

3.1.4 Test Setup



3.1.5 Test Result of ERP

<Sample A>

GSM850 (GPRS 8) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-18.03	-48.12	0.00	-1.08	29.01	0.80
836.40	-17.96	-48.28	0.00	-0.93	29.39	0.87
848.80	-18.04	-48.35	0.00	-0.76	29.55	0.90
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-36.29	-47.97	0.00	-1.08	10.60	0.01
836.40	-36.79	-48.01	0.00	-0.93	10.29	0.01
848.80	-36.88	-48.05	0.00	-0.76	10.41	0.01

<Sample B>

GSM850 (GPRS 8) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-17.98	-48.12	0.00	-1.08	29.06	0.81
836.40	-17.88	-48.28	0.00	-0.93	29.47	0.89
848.80	-18.46	-48.35	0.00	-0.76	29.13	0.82
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-36.89	-47.97	0.00	-1.08	10.00	0.01
836.40	-37.13	-48.01	0.00	-0.93	9.95	0.01
848.80	-37.50	-48.05	0.00	-0.76	9.79	0.01

3.1.6 Test Result of EIRP

<Sample A>

GSM1900 (GSM) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-24.61	-51.88	0.00	1.96	29.23	0.84
1880.00	-24.24	-52.99	0.00	2.00	30.75	1.19
1909.80	-24.30	-54.28	0.00	1.98	31.96	1.57
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-26.70	-52.13	0.00	1.96	27.39	0.55
1880.00	-26.47	-53.17	0.00	2.00	28.70	0.74
1909.80	-26.71	-54.13	0.00	1.98	29.40	0.87

<Sample B>

GSM1900 (GSM) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-24.70	-51.88	0.00	1.96	29.14	0.82
1880.00	-24.23	-52.99	0.00	2.00	30.76	1.19
1909.80	-23.92	-54.28	0.00	1.98	32.34	1.71
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-26.26	-52.13	0.00	1.96	27.83	0.61
1880.00	-25.91	-53.17	0.00	2.00	29.26	0.84
1909.80	-25.81	-54.13	0.00	1.98	30.30	1.07

3.2 Field Strength of Spurious Radiation Measurement

3.2.1 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 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.

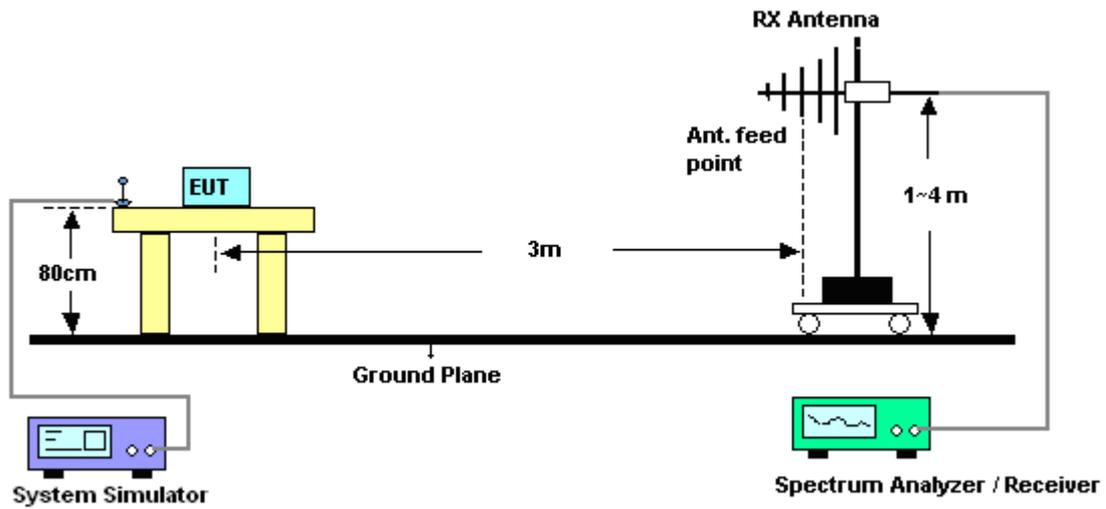
3.2.2 Measuring Instruments

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 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. 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.

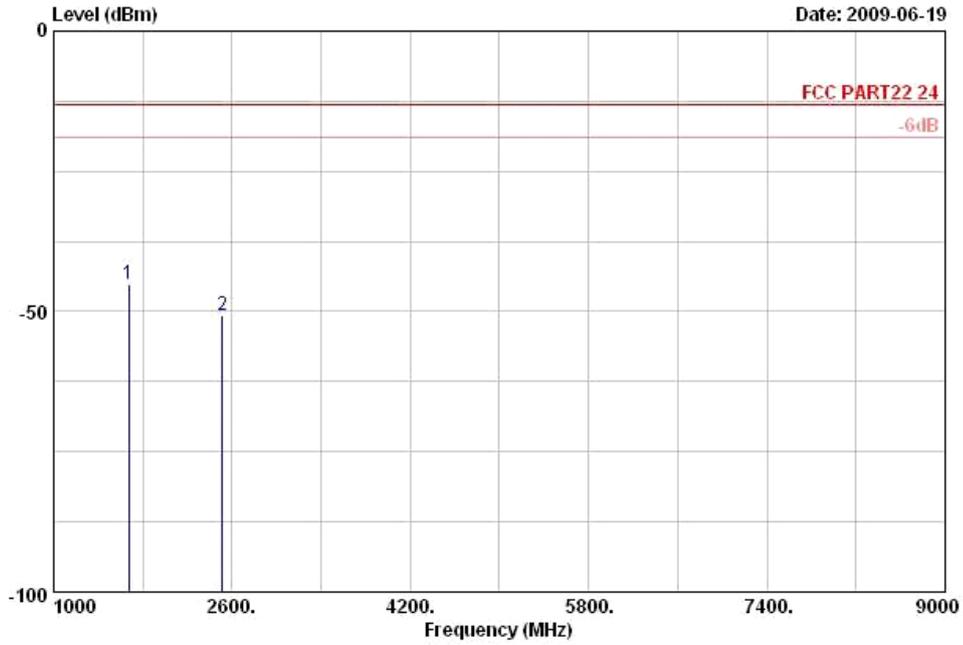
3.2.4 Test Setup





3.2.5 Test Result of Field Strength of Spurious Radiated

Band :	GSM850	Temperature :	25~26°C
Test Mode :	GPRS 8 Link for Sample A	Relative Humidity :	43~45%
Test Engineer :	Andy Yeh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000 MHz were found more than 20dB below limit line.		

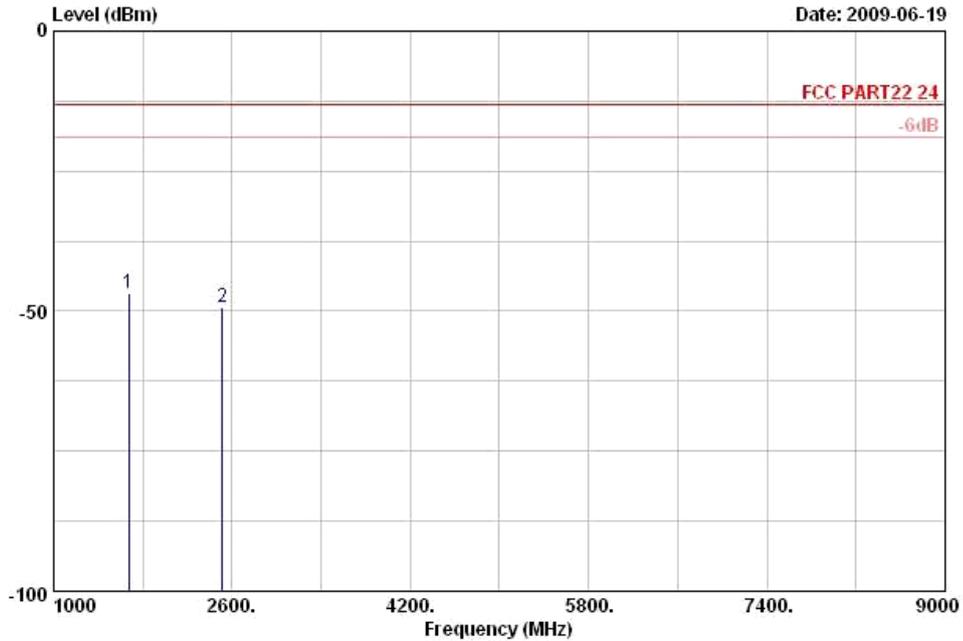


Site : 03CH01-K3
 Condition: FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL

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
1672	-45.23	-13	-32.23	-46.58	-48.44	0.69	6.05	H	Pass
2512	-50.81	-13	-37.81	-56.10	-55.47	0.99	7.80	H	Pass



Band :	GSM850	Temperature :	25~26°C
Test Mode :	GPRS 8 Link for Sample A	Relative Humidity :	43~45%
Test Engineer :	Andy Yeh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000 MHz were found more than 20dB below limit line.		

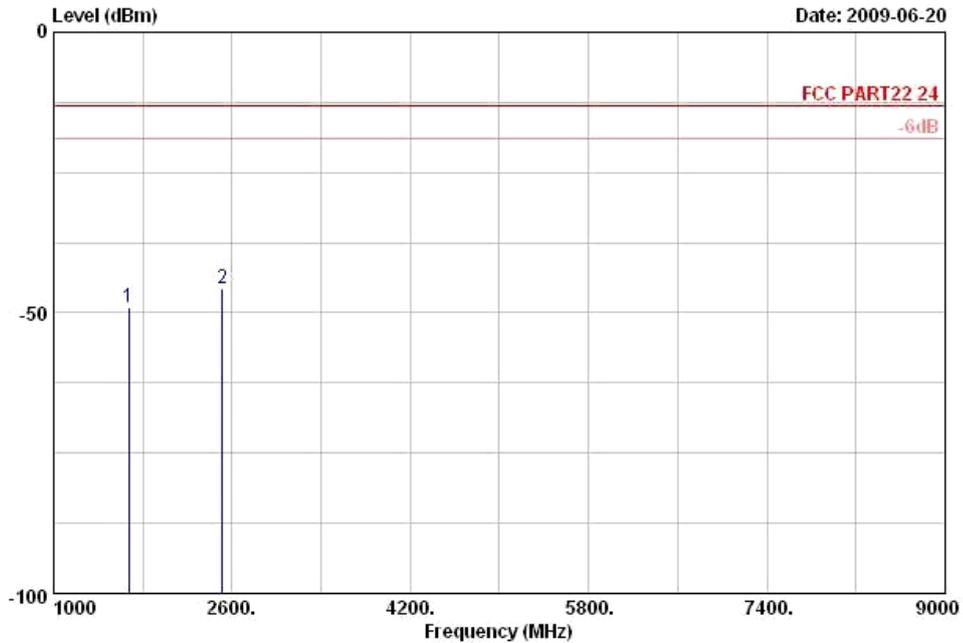


Site : 03CH01-KS
 Condition: FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL

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
1674	-46.88	-13	-33.88	-49.95	-50.09	0.69	6.05	V	Pass
2512	-49.23	-13	-28.04	-55.48	-45.70	0.99	7.80	V	Pass



Band :	GSM850	Temperature :	25~26°C
Test Mode :	GPRS 8 Link for Sample B	Relative Humidity :	43~45%
Test Engineer :	Andy Yeh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000 MHz were found more than 20dB below limit line.		

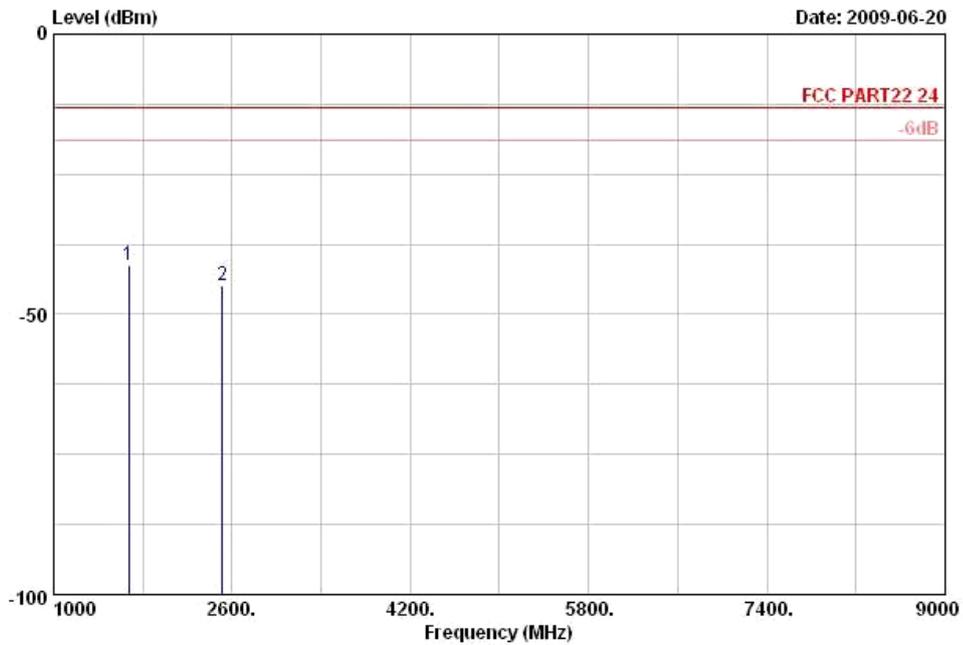


Site : 03CH01-KS
 Condition: FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL

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
1672	-49.02	-13	-36.02	-50.09	-52.23	0.69	6.05	H	Pass
2512	-45.61	-13	-32.61	-51.63	-48.41	0.82	5.77	H	Pass



Band :	GSM850	Temperature :	25~26°C
Test Mode :	GPRS 8 Link for Sample B	Relative Humidity :	43~45%
Test Engineer :	Andy Yeh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000 MHz were found more than 20dB below limit line.		

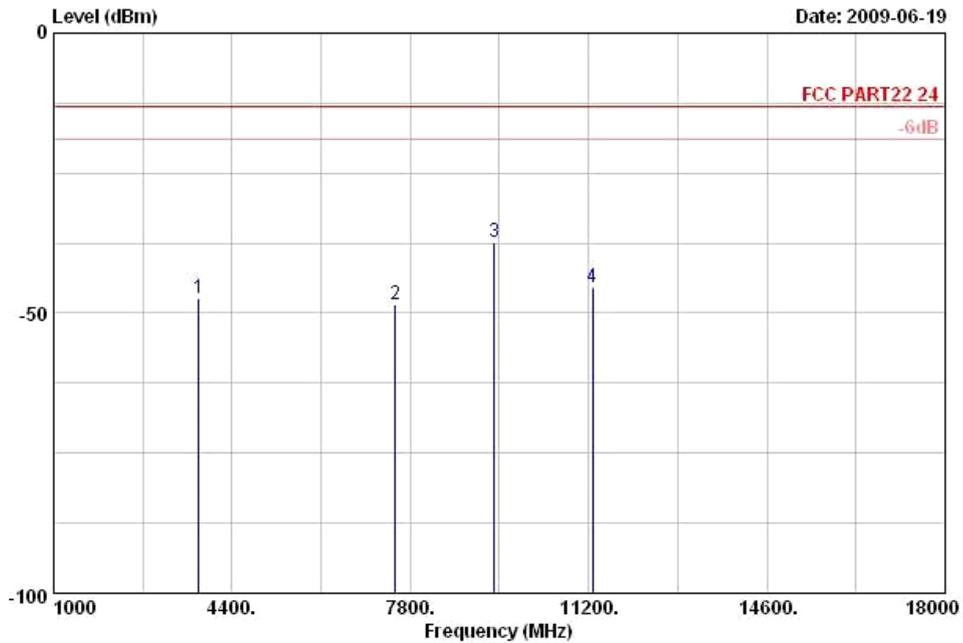


Site : 03CH01-KS
 Condition: FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL

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
1674	-41.17	-13	-28.17	-45.17	-44.38	0.69	6.05	V	Pass
2512	-44.89	-13	-31.89	-52.19	-47.69	0.82	5.77	V	Pass



Band :	GSM1900	Temperature :	25~26°C
Test Mode :	GSM Link for Sample A	Relative Humidity :	43~45%
Test Engineer :	Andy Yeh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000 MHz were found more than 20dB below limit line.		

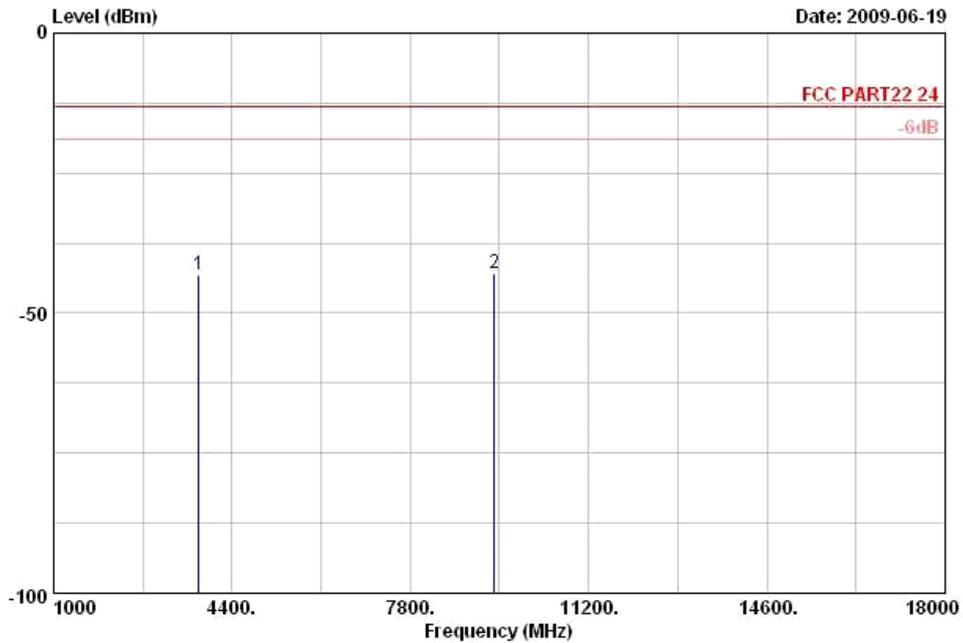


Site : 03CH01-KS
 Condition: FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL

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	-47.29	-13	-34.29	-53.87	-55.22	0.11	8.04	H	Pass
7520	-48.51	-13	-35.51	-60.46	-59.31	1.31	12.11	H	Pass
9400	-37.22	-13	-24.22	-53.12	-48.63	1.55	12.96	H	Pass
11280	-45.52	-13	-32.52	-62.75	-56.37	2.09	12.94	H	Pass



Band :	GSM1900	Temperature :	25~26°C
Test Mode :	GSM Link for Sample A	Relative Humidity :	43~45%
Test Engineer :	Andy Yeh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000 MHz were found more than 20dB below limit line.		

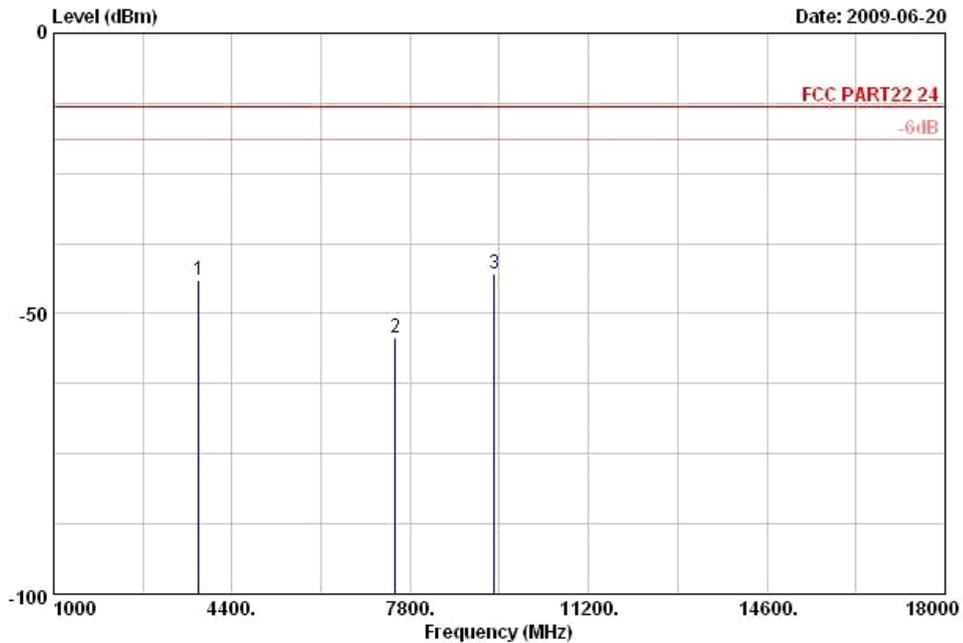


Site : 03CH01-KS
 Condition: FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL

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	-43.26	-13	-30.26	-53.43	-51.19	0.11	8.04	V	Pass
9400	-42.88	-13	-29.88	-58.70	-54.29	1.55	12.96	V	Pass



Band :	GSM1900	Temperature :	25~26°C
Test Mode :	GSM Link for Sample B	Relative Humidity :	43~45%
Test Engineer :	Andy Yeh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000 MHz were found more than 20dB below limit line.		

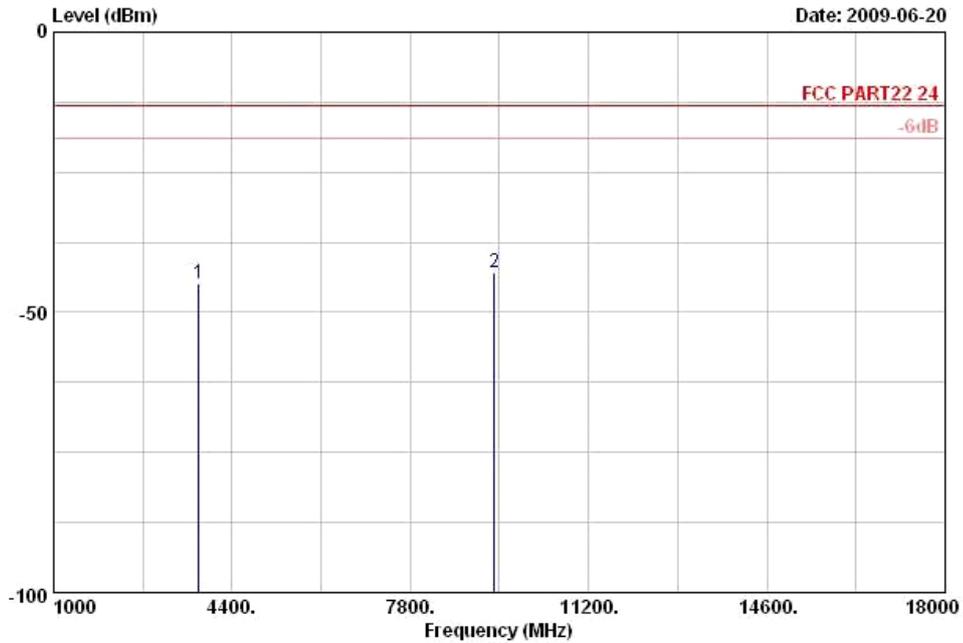


Site : 03CH01-KS
 Condition: FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL

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	-44.05	-13	-31.05	-57.76	-51.98	0.11	8.04	H	Pass
7520	-54.37	-13	-41.37	-63.28	-65.17	1.31	12.11	H	Pass
9400	-42.89	-13	-29.89	-56.53	-54.30	1.55	12.96	H	Pass



Band :	GSM1900	Temperature :	25~26°C
Test Mode :	GSM Link for Sample B	Relative Humidity :	43~45%
Test Engineer :	Andy Yeh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000 MHz were found more than 20dB below limit line.		



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

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	-44.96	-13	-31.96	-54.71	-52.89	0.11	8.04	V	Pass
9400	-42.87	-13	-29.87	-58.58	-54.28	1.55	12.96	V	Pass



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	ESCI	100534	9kHz – 2.75GHz	Dec. 08, 2008	Dec. 07, 2009	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 08, 2008	Dec. 07, 2009	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 17, 2008	Dec. 16, 2009	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	75959	1GHz~18GHz	Dec. 17, 2008	Dec. 16, 2009	Radiation (03CH01-KS)
Amplifier	Wireless	FPA6592G	600006	30MHz~2GHz	Dec. 17, 2008	Dec. 16, 2009	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 17, 2008	Dec. 16, 2009	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz~40GHz	Aug. 29, 2007	Aug. 28, 2009	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	837587/066	Full-Band/BT	Jan. 08, 2009	Jan. 07, 2011	Radiation (03CH01-KS)

5 Uncertainty of Evaluation

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

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 (1 GHz ~ 40 GHz)

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 = $20 \log(1 - \Gamma_1 * \Gamma_2)$	+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				

6 Certification of TAF Accreditation



Certificate No. : L1190-090417

財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.
EMC & Wireless Communications Laboratory
No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien,
Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria	: ISO/IEC 17025:2005
Accreditation Number	: 1190
Originally Accredited	: December 15, 2003
Effective Period	: January 10, 2007 to January 09, 2010
Accredited Scope	: Testing Field, see described in the Appendix
Specific Accreditation Program	: Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory Accreditation Program for BSMI Mutual Recognition Arrangement with Foreign Authorities

Jay-san Chen

Jay-San Chen
President, Taiwan Accreditation Foundation
Date : April 17, 2009

P1, total 20 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix



Appendix A. Photographs of EUT

Please refer to Sporton report number EP890310-01 as below.

Appendix C. Product Equality Declaration

ZTE CORPORATION

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

Date: June 29, 2009

Declaration

We, ZTE CORPORATION, hereby declare that the product, GSM DUAL band digital mobile phone, FCC ID: Q78-CORAL200 is almost identical with FCC ID: Q78-VDF225FM

The differences are as below:

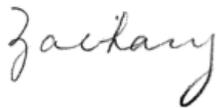
FCC ID: Q78-CORAL200

- 1: With new antenna (same antenna type as VDF225FM)
- 2 It supports GPRS function by using new version software.
- 3 New package technology is used on Flash chip, which makes it smaller.

Since main antenna is changed, we re-test conducted Emission, Radiated Spurious Emission, ERP/EIRP, SAR and all relative tests.

Should you have any questions please have my best attention.

Sincerely yours,



Contact Person: ZhangMin

Company Name: ZTE CORPORATION

Tel: +86-21-68897541

Mail: Zhang.min13@zte.com.cn



Appendix D. Original Report

Please refer to Sporton Report Number FG890310 as below.