

TEST REPORT

REPORT NUMBER: 107CA6946-FCC-PART22-a

ON

Type of Equipment: CDMA Coin Payphone

Type of Designation: FW-C2080

Manufacturer: Function ATI (Huizhou) Telecommunications Co., Ltd.

ACCORDING TO

FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS; e-CFR, March 23, 2006

PART 22, PUBLIC MOBILE SERVICES (Oct 1, 02 Edition)

China Telecommunication Technology Labs.

Month date, year

Oct, 7, 2008

Signature

He Guili
Director

FCC ID: VXOFW-C2080
Report Date: 2008-10-07

Test Firm Name: China Telecommunication Technology Labs
Registration Number: 840587

Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, and 22. The sample tested was found to comply with the requirements defined in the applied rules.

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1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2 and 22.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex A.

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1.2 Testers

Name: Yuan Yuan
Position: Engineer
Department: Department of EMC test
Duration of the test: 2008-10-06
Signature:

Name: Li Guoqing
Position: Engineer
Department: Department of EMC test
Duration of the test: 2008-10-07
Signature:

Editor of this test report:

Name: Li Guoqing
Position: Engineer
Department: Department of EMC test
Date: 2008-10-07
Signature:

Technical responsibility for area of testing:

Name: Zou Dongyi
Position: Manager
Department: Department of EMC test
Date: 2008-10-07
Signature:

1.3 Testing Laboratory information

1.3.1 Location

Name: China Telecommunication Technology Labs.

Address: No. 11, Yue Tan Nan Jie, Xi Cheng District
BEIJING
P. R. CHINA, 100083

Tel: +86 10 68094053

Fax: +86 10 68011404

Email: emc@chinattl.com

1.3.2 Details of accreditation status

Accredited by: China National Accreditation Service for Conformity
Assessment (CNAS)

Registration number: CNAS Registration No. CNAS L0570

Standard: ISO/IEC 17025:2005

1.3.3 Test location, where different from section 1.3.1

Name: -----

Street: -----

City: -----

Country: -----

Telephone: -----

Fax: -----

Postcode: -----

1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name: Function ATI (Huizhou) Telecommunications Co., Ltd.
Address: No.8, Huitai Road, Huitai Industrial Zone, Huizhou
City, Guangdong Province, P. R. C.
Country: P. R. C
Telephone: 86-752-5839133-609
Fax: 86-752-2601958
Contact: Teddy Li
Telephone: 86-752-5839133-609
Email: teddy@functiongroup.com.cn

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --
Address: --
City: --
Country: --

1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: --
Address: --
City: --
Country: --

2 Test Item

2.1 General Information

Manufacturer: Function ATI (Huizhou) Telecommunications Co., Ltd.

Name: CDMA Coin Payphone

Model Number: FW-C2080

Serial Number: --

Production Status: Production

Receipt date of test item: 2007-11-9

2.2 Outline of EUT

EUT is a CDMA Coin Payphone, and its operating band range is 824~849MHz.

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	CDMA Coin Payphone	Function ATI (Huizhou) Telecommunications Co., Ltd.	FW-C2080	--	None
B	Adaptor	Dongguan yingju Technology co.,ltd.	BI13-120100-E	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	AC line	Unknown	1.8 m	No	1	None

2.5 Other Information

Emission Designator: 1M23F9W

3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

Specification Clause	Name of Test	Result
2.1051,22.917	Radiated Spurious Emission	Pass
22.913(a)	Radiated Conducted RF Power Output	Pass
2.1049,22.917(b)	Occupied Bandwidth	*Note 1
2.1055,22.355	Frequency Stability over Temperature Variation	Pass
2.1055,22.355	Frequency Stability over Voltage Variation	Pass
2.1046,22.913(a)	Conducted RF Power Output	Pass
2.1051,22.917	Conducted spurious emissions	Pass
22.917	Emission bandwidth and Band-edge conducted	Pass

Note 1: No applicable performance criteria.

4 Test Results

4.1 Radiated Spurious Emission

Specifications:	2.1051, 22.917					
Date of Tests	2008-10-07					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 384					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-04	Normal
7330	Ultra Broadband Antenna	R/S	HL562	100013	2009-07-24	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2009-01-14	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3 m	--	2010-11-17	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal

Limit Level Construction:

According to Part 22.917 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, so the limit level is:
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13 \text{ dBm}$

Limits for Radiated spurious emissions(UE)	
Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Test Setup:

The EUT was placed in an anechoic chamber, see figure SP. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

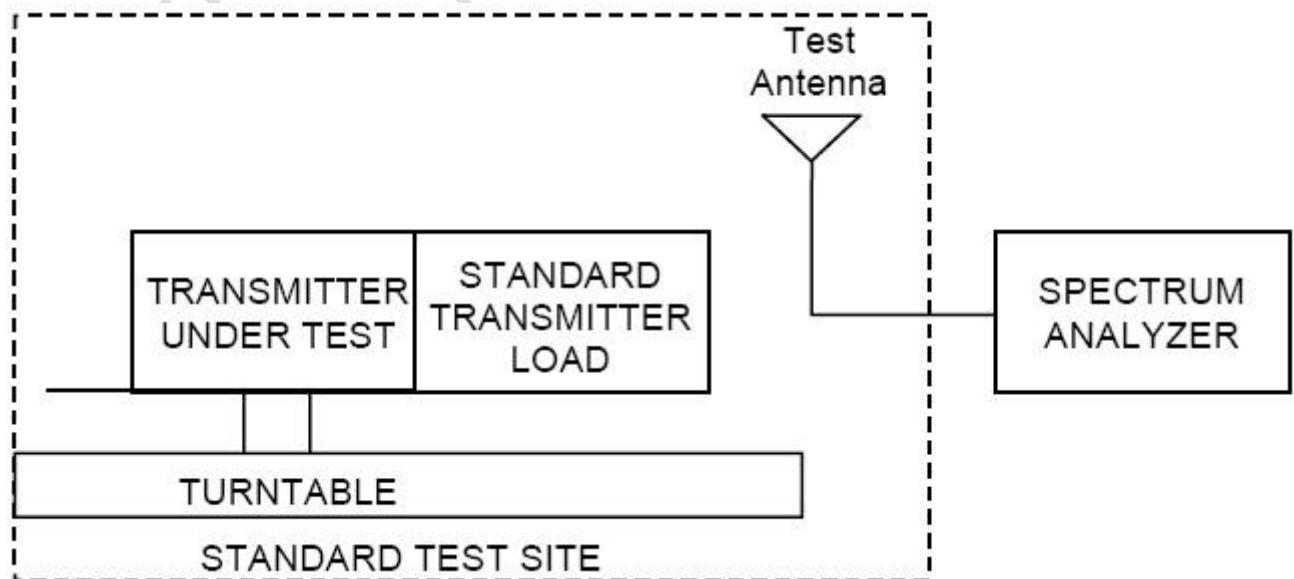


Figure SP

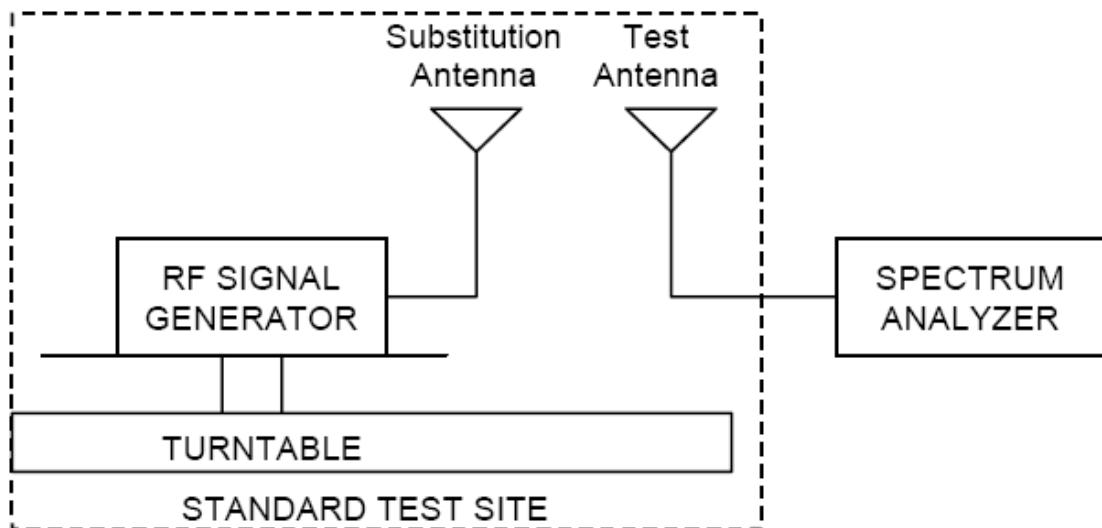
Test Method:

The measurement method is substitution method accordance with section 2.2.12 of ANSI/TIA-603-B-2002: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above.



(b) Reconnect the equipment as illustrated.



(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna should be approximately at the same location as the center of the transmitter.

(d) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

(e) Repeat step d) with both antennas vertically polarized for each spurious frequency.

(f) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps d) and e) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

where:

P_d is the dipole equivalent power and

P_g is the generator output power into the substitution antenna.

Test Data (channel 384)

Frequency [GHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1.67336673	-44.16	0.5	8.77	-35.89	V
2.50905900	-55.81	0.6	10.20	-46.21	V
3.3408000	-49.95	0.6	10.00	-40.55	V
4.18209900	-50.94	0.6	10.37	-41.17	V
5.0192100	-50.94	0.7	10.91	-40.73	V
5.855139	-50.94	0.7	10.18	-41.46	V
1.67336673	-44.65	0.5	8.77	-36.38	H
2.50907576	-54.88	0.6	10.20	-45.28	H
3.34089219	-52.64	0.6	10.00	-43.24	H
4.1811576	-51.29	0.6	10.37	-41.52	H
5.0191200	-44.58	0.7	10.91	-34.37	H
5.855139	-43.72	0.7	10.18	-34.24	H

4.2 Radiated Conducted RF Power Output

Specifications:	22.913(a)					
Date of Tests	2008-10-07					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 991, 384 and 799					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-04	Normal
7330	Ultra Broadband Antenna	R/S	HL562	100013	2009-07-24	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2009-01-14	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-17	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal

Limit Level Construction:

ERP: According to Part 22.913(a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

Limits for ERP

Frequency range	Limit Level (ERP)
TX channel	7W or 38.5dBm

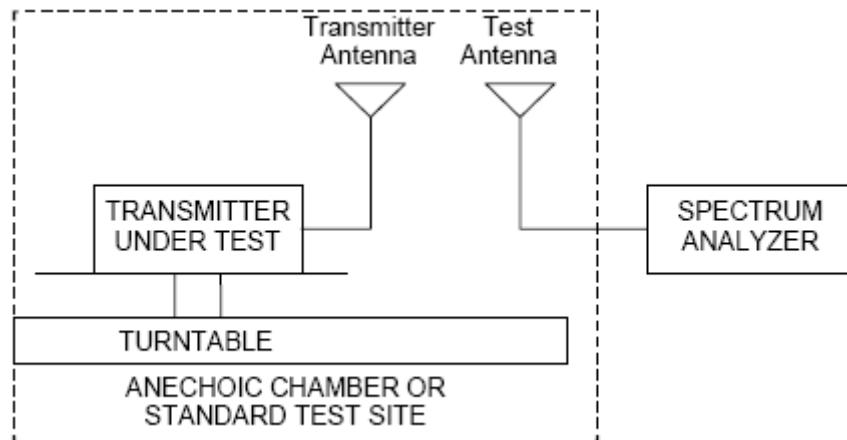
Test Setup:

The EUT was set in an anechoic chamber, which is connected to the Wireless Communications Test Set located outside the chamber. The test was done using an automated test system, where all test equipments were controlled by a computer.

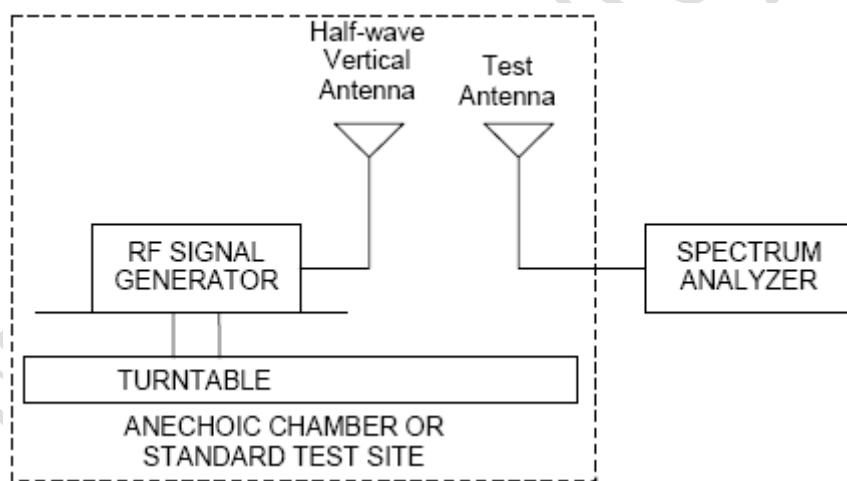
Test Method

The measurement was performed accordance with section 2.2.17 of ANSI/TIA-603-B-2002: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

- Connect the equipment as illustrated. Mount the equipment in a vertical orientation on a multi-axis plastic holder in a RF anechoic chamber.



- b) Key the transmitter on, then rotate the EUT 360 degree azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks.
- c) Replace the transmitter under test with a vertically polarized half-wave dipole, or an antenna whose gain is known relative to an ideal half-wave dipole, illustrated as following. The center of the antenna should be at the same location as the center of the antenna under test.



- d) Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS.

$$\text{LOSS} = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$$

- e) Determine the effective radiated output power at each angular position from the readings in steps b) and d) using the following equation:

$$\text{ERP (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$$

- f) The maximum ERP is the maximum value determined in the preceding step.

Method of Calculation

ERP can then be calculated as follows:

$$P_d (\text{dBm}) = P_g (\text{dBm}) - \text{Losses (dB)} + \text{Antenna Gain (dBd)}$$

where:

dBd refers to gain relative to an ideal dipole.

Test Data:

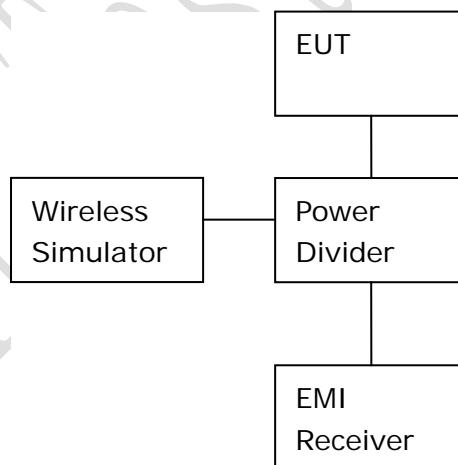
Channel	Output power (Pg) [dBm]	Loss [dB]	Antenna Gain [dBd]	ERP (P _d) [dBm]
1013	22.17	0.3	2.73	24.60
384	23.07	0.5	2.80	25.37
777	22.17	0.5	2.87	24.54

4.3 Occupied bandwidth (Conducted)

Specifications:	2.1049					
Date of Test	2008-10-07					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 991, 384, 799					
Test Results:	--					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-04	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-17	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal

Test Setup

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by EMI receiver (ESI26).



Test Method

The 99% occupied bandwidth was calculated form the spectrum analyzer. Markers in the spectrum analyzer were then placed between the calculated frequencies to show the calculated 99% power band.

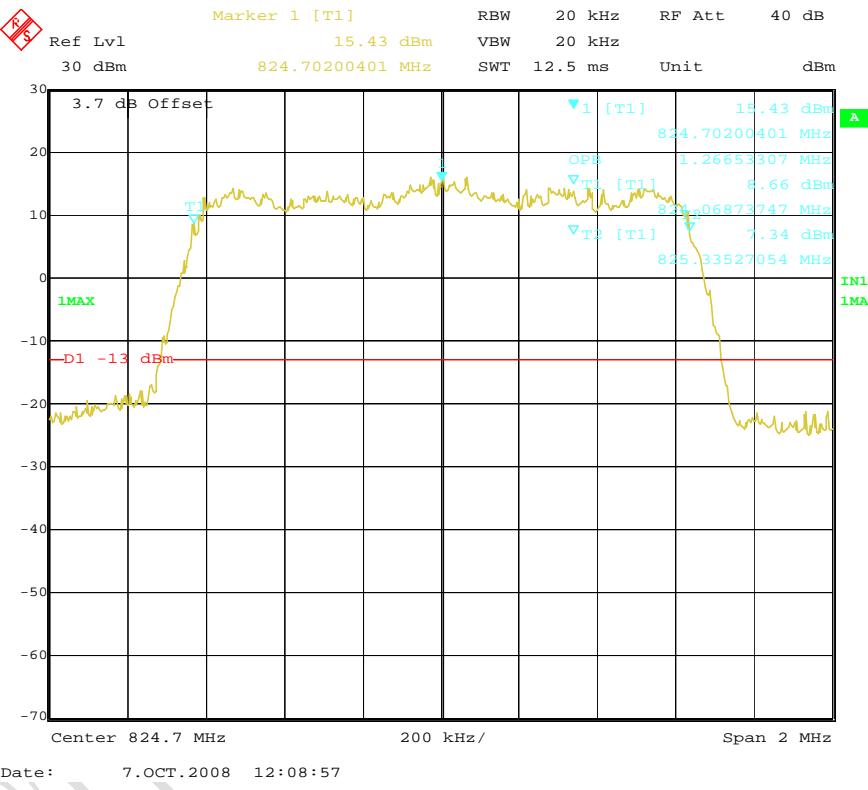
Note:

None

Test Data:

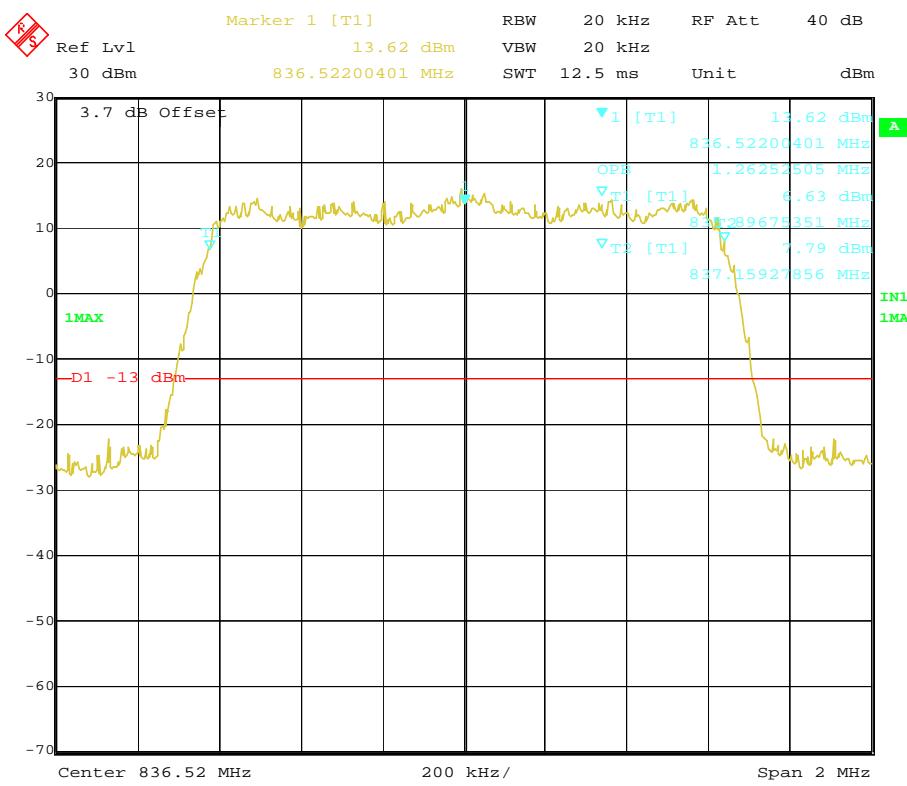
EUT channel no.	99% occupied bandwidth [MHz]
1013	1.270
384	1.267
777	1.267

Graphical results:

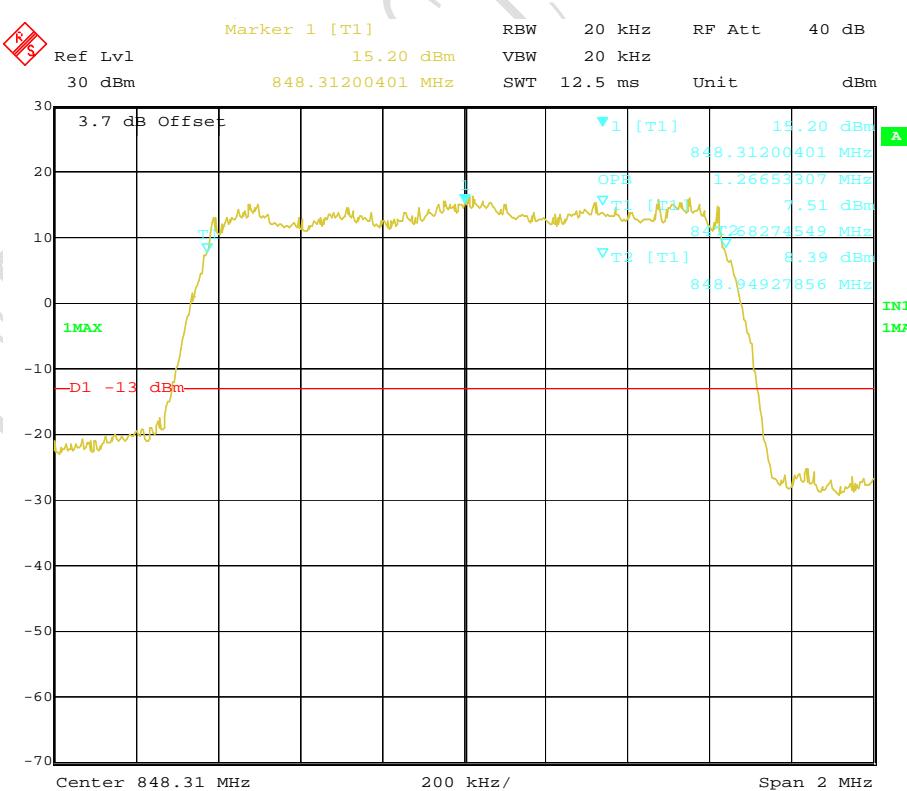


FCC Parts 2, 22
Equipment: FW-C2080

REPORT NO.: I07CA6946-FCC-PART22-a



Channel 384



Channel 777

4.4 Frequency Stability over Temperature Variation

Specifications:	2.1055,22.355					
Date of Test	2008-10-07					
Test conditions:	Ambient Temperature: -30°C-50°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 384					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
561	Temperature Chamber	Terchy Environmental Technology LTD.	MHU-800SR	84121202	2009-05-06	Normal
Limit						
Frequency deviation [ppm]	±2.5					

Test Setup

The EUT was placed in a temperature chamber, demonstrated as figure T. The Wireless Telecommunications Test Set was used to set the Tx channel and power level, modulate the TX signal with different bit patterns and measure the frequency of Tx.

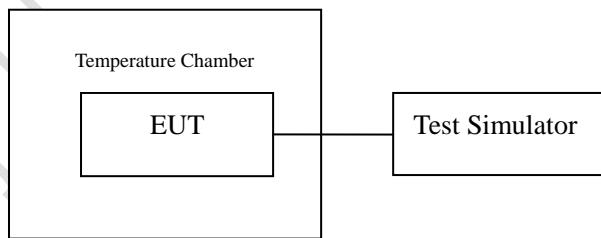


Figure T: setup for measurement of frequency stability over temperature variation

Test Method

1. The EUT was turned off and placed in the temperature chamber.
2. The temperature of the chamber was set to -30°C and allowed to stabilize.
3. The EUT temperature was allowed to stabilize for 45 minutes.
4. The EUT was turned on and set to transmit with Wireless Telecommunications Test Set.

5. The maximum transmit frequency deviation during one minute period was measured by Wireless Communications Test Set.
6. The steps 3-5 were repeated for -20°C, -10°C, 0°C, 10°C, 20°C, 30°C, 40°C and 50°C.

Test data:

Table T1: frequency deviation over temperature variation

Temperature[°C]	Deviation[Hz]	Deviation[ppm]	Remarks
-30	29	0.035	Pass
-20	34	0.041	Pass
-10	25	0.030	Pass
0	21	0.025	Pass
10	20	0.024	Pass
20	23	0.028	Pass
30	25	0.030	Pass
40	23	0.028	Pass
50	28	0.033	Pass

4.5 Frequency Stability over Voltage Variation

Specifications:	2.1055, 22.355					
Date of Test	2008-10-07					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 384					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
Limit						
Frequency deviation [ppm]	±2.5					

Test Setup

The EUT was placed in a shielding chamber and powered by an adjustable power supply, demonstrated as figure V. A Wireless Telecommunications Test Set was used to set the TX channel and power level, modulate the TX signal with different bit patterns and measure the frequency of TX.

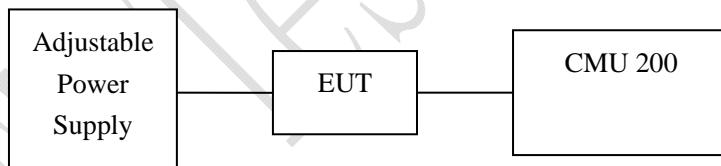


Figure V: test setup for measurement of frequency stability over voltage variation

Test Method

The EUT was powered by the adjustable power supply. The frequency stability is measured by the Wireless Telecommunications Test Set.

Test data:

Table V: frequency deviation over voltage variation

Level	Voltage[V]	Deviation[Hz]	Deviation[ppm]	Remarks
Nominal	110	26	0.031	Pass
85% normal	93.5	27	0.032	Pass
115% normal	126.5	20	0.024	Pass

4.6 Conducted RF Power Output

Specifications:	2.1046,22.913(a)					
Date of Tests	2008-10-07					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 1013, 384, 777					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-04	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
---	Power spliter	Jie sai	---	1000132	2009-01-04	Normal

Limit Level Construction:

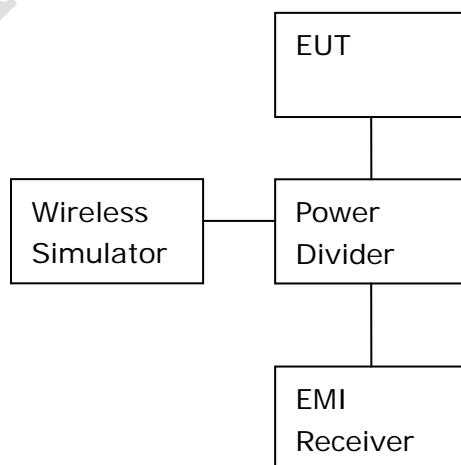
ERP: According to Part 22.913(a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

Limits for ERP

Frequency range	Limit Level (ERP)
TX channel	7W or 38.5dBm

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by EMI receiver (ESI26).



Test Method

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.
- 3) The resolution bandwidth of the spectrum analyzer was comparable to the emission bandwidth.

Note:

None

Test Results:

Channel No.	Peak output power [dBm]
1013	27.04
384	27.23
777	27.43

4.7 Conducted Spurious Emission

Specifications:	2.1051,22.917					
Date of Tests	2008-10-07					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 384					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-04	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
---	Power spliter	Jie sai	---	1000132	2009-01-04	Normal

Limit Level Construction:

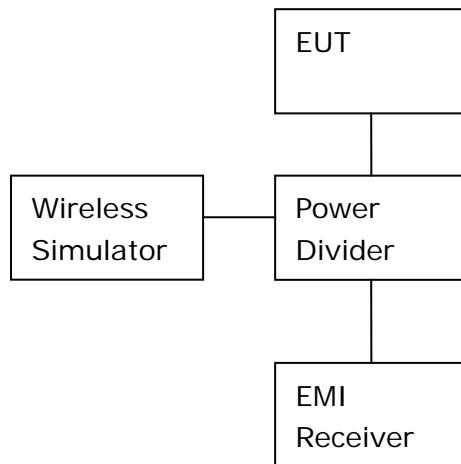
According to Part 24.238 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, so the limit level is:
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13 \text{ dBm}$

Limits for Radiated spurious emissions(UE)

Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by EMI receiver (ESI26).



Test Method

The measurement was performed accordance with section 2.2.13 of ANSI/TIA-603-B-2002: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency.

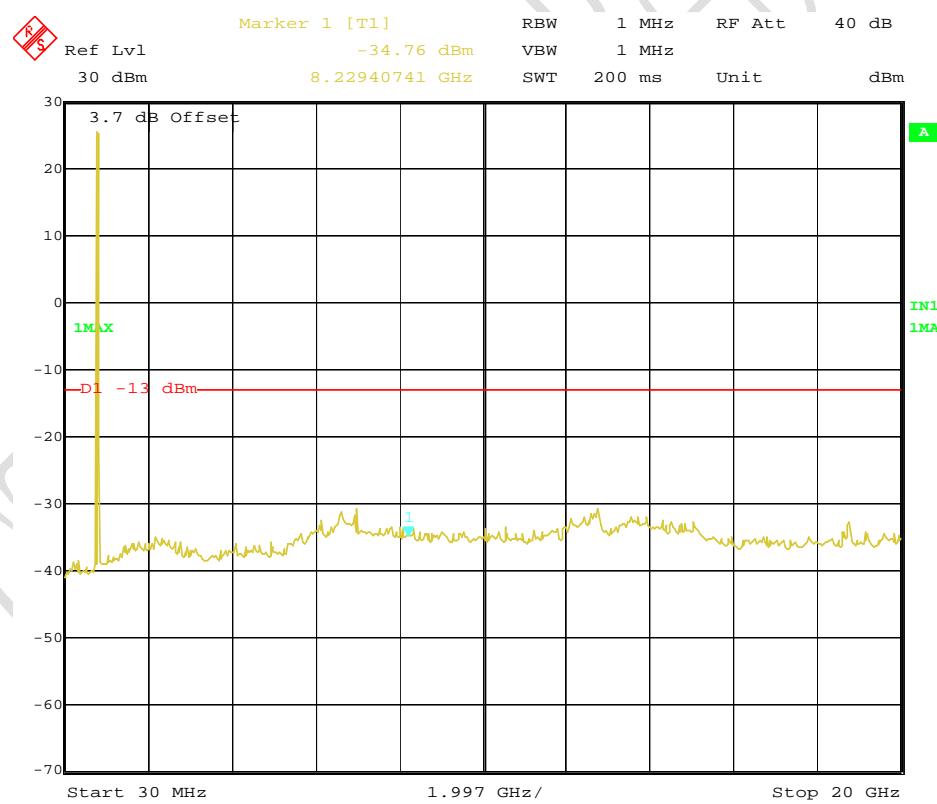
Note:

None

Test Results:**Channel 1013:**

Out of band emission	
Frequency [GHz]	Level (dBm)
1.626100802	-35.35
2.466521643	-34.91
3.30694248	-37.46
4.10734329	-36.86
4.94776413	-36.73
5.78818497	-35.43
6.62860581	-30.25
6.98878617	-30.60
8.22940741	-33.70

Note:--

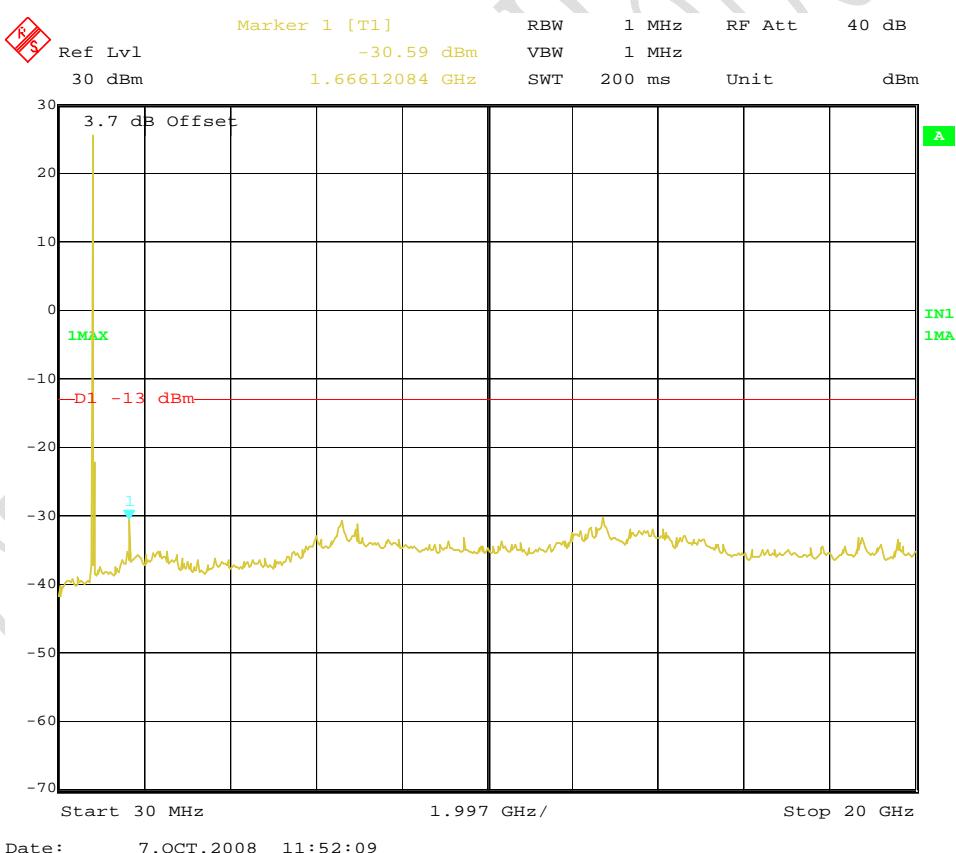


Channel 1013

Channel 384:

Out of band emission	
Frequency [GHz]	Level (dBm)
1.66612084	-30.59
2.506541683	-35.46
3.346962525	-38.08
4.14736333	-37.40
5.02780421	-36.67
5.62810481	-33.98
6.62860581	-30.91
7.50904669	-33.15
8.34946754	-33.97

Note: --

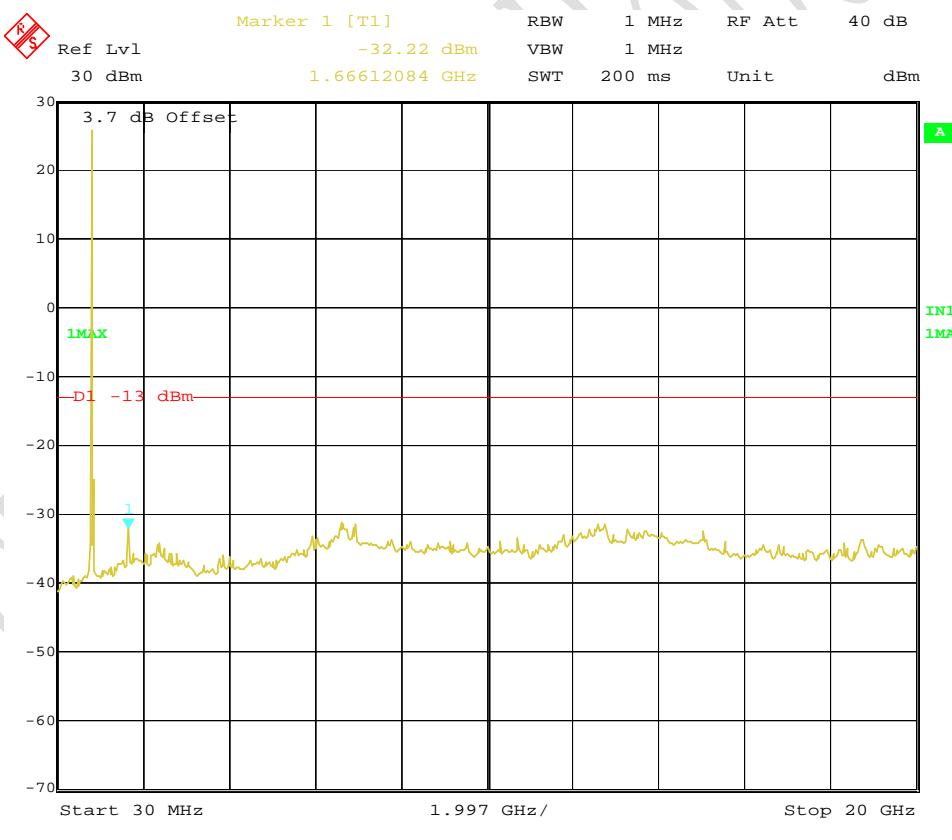


Channel 384

Channel 777:

Out of band emission	
Frequency [GHz]	Level (dBm)
1.666120842	-32.05
2.506541683	-35.08
3.627102908	-37.89
4.22740341	-37.78
5.067824248	-36.59
5.94826513	-33.49
6.98878617	-30.56
7.50904669	-32.45
8.46952766	-34.86

Note: --



Channel 777

4.8 Emission bandwidth and Band-edge (conducted)

Specifications:	22.917					
Date of Tests	2008-10-07					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-04	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2009-06-13	Normal
---	Power spliter	Jie sai	---	1000132	2009-01-04	Normal

Limit Level Construction:

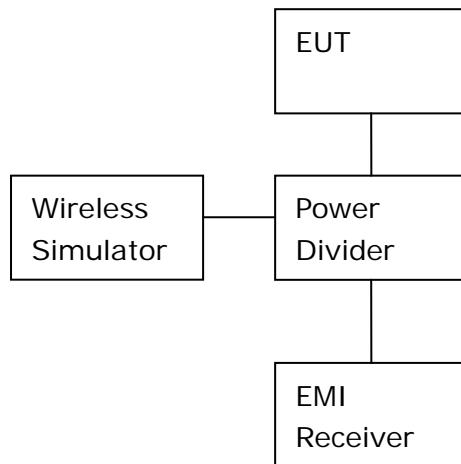
According to Part 24.238 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, so the limit level is:
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13 \text{ dBm}$

Limits for Radiated spurious emissions

Frequency range	Limit Level
Band edge	-13dBm

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by EMI receiver (ESI26).



Test Method

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.
- 3) The resolution bandwidth of the spectrum analyzer was a little greater than 1% of the 26dB emission bandwidth.

Note: --

Test Results:

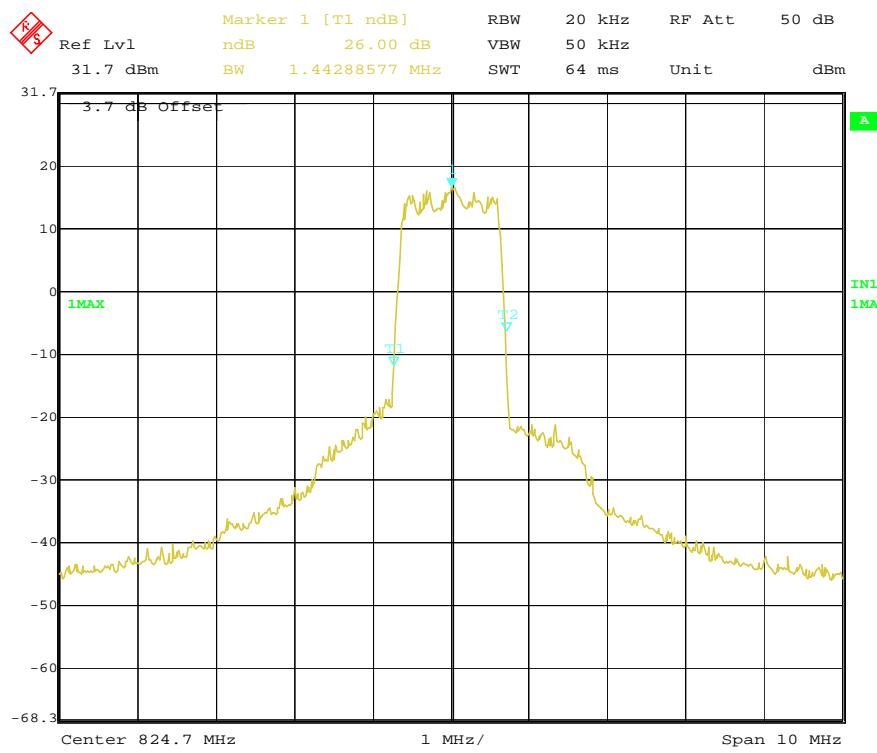
(1) Emission bandwidth (26 dB):

RBW=20 kHz, VBW=50 kHz

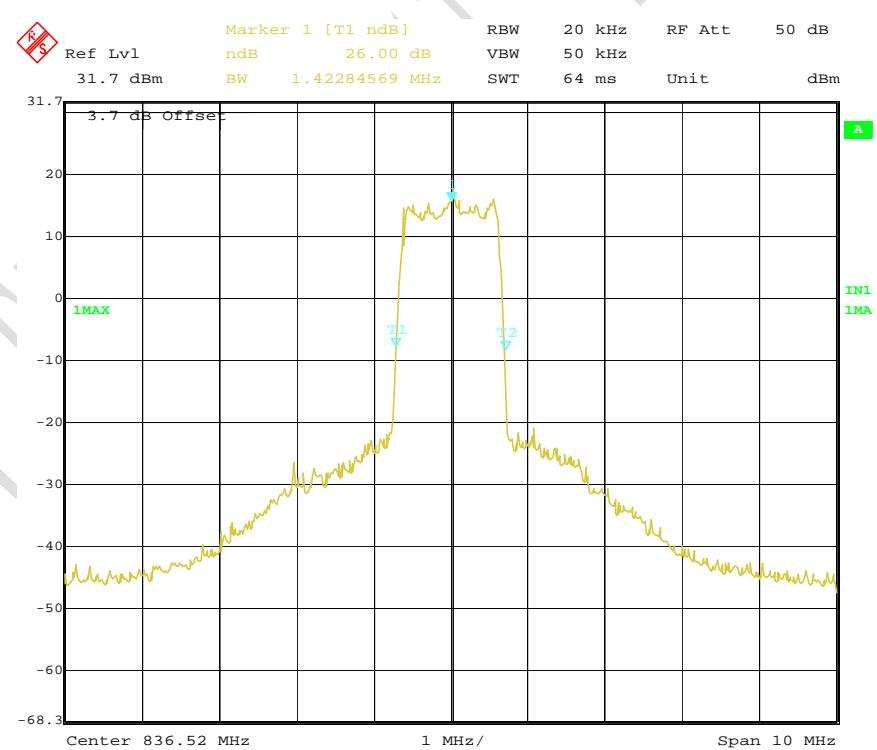
26 dB emission bandwidth	
Channel	26dB Bandwidth [MHz]
1013	1.423
384	1.423
777	1.423

FCC Parts 2, 22
Equipment: FW-C2080

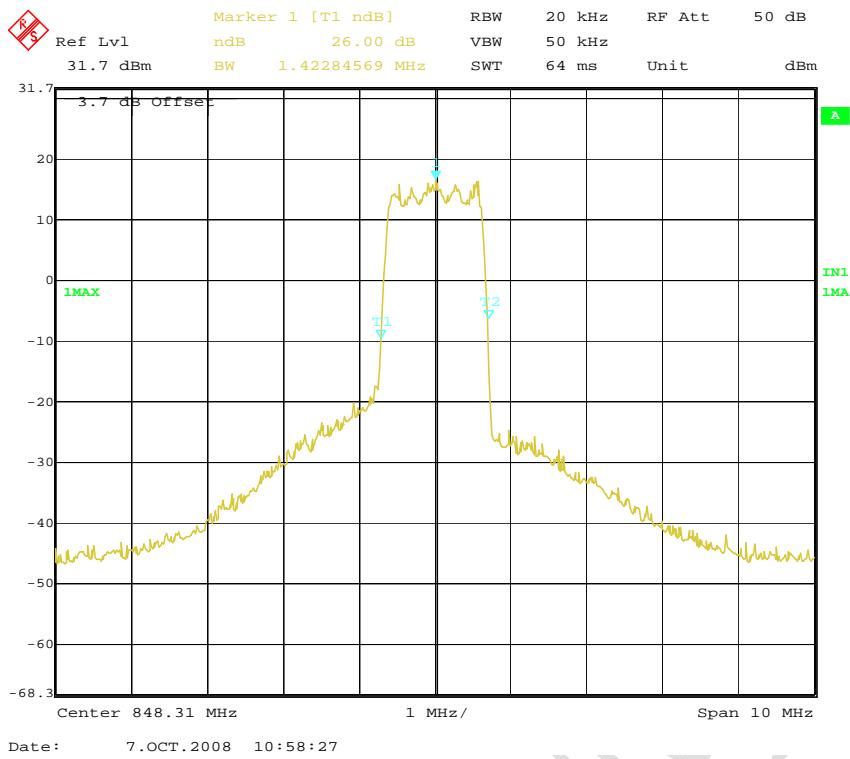
REPORT NO.: I07CA6946-FCC-PART22-a



Channel 1013 26 dB bandwidth



Channel 384 26 dB bandwidth

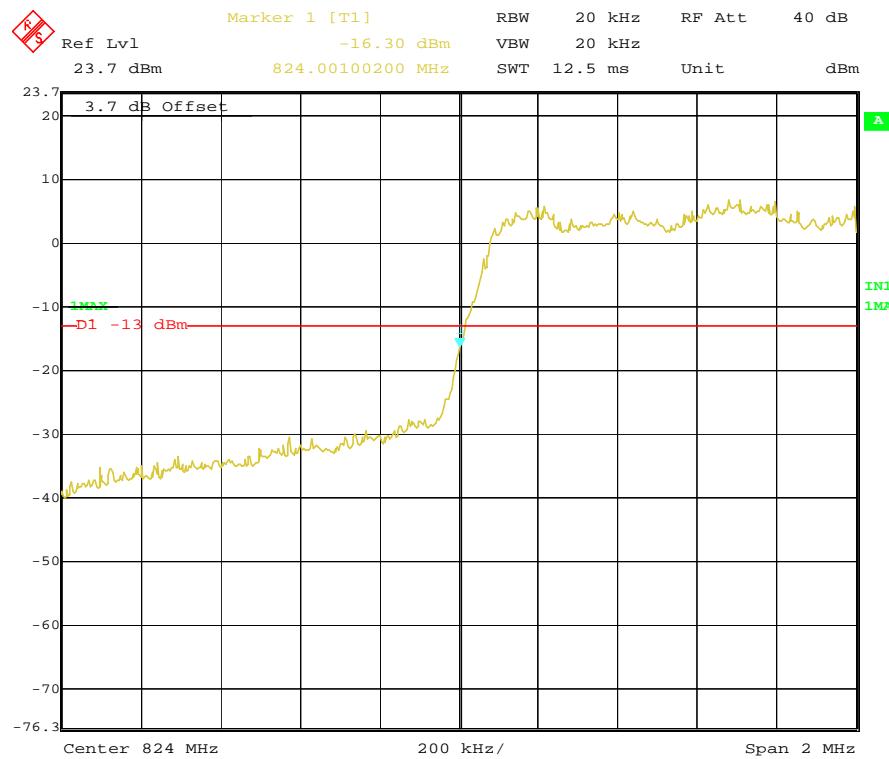

(2) band-edge emission:

RBW=VBW=20 kHz

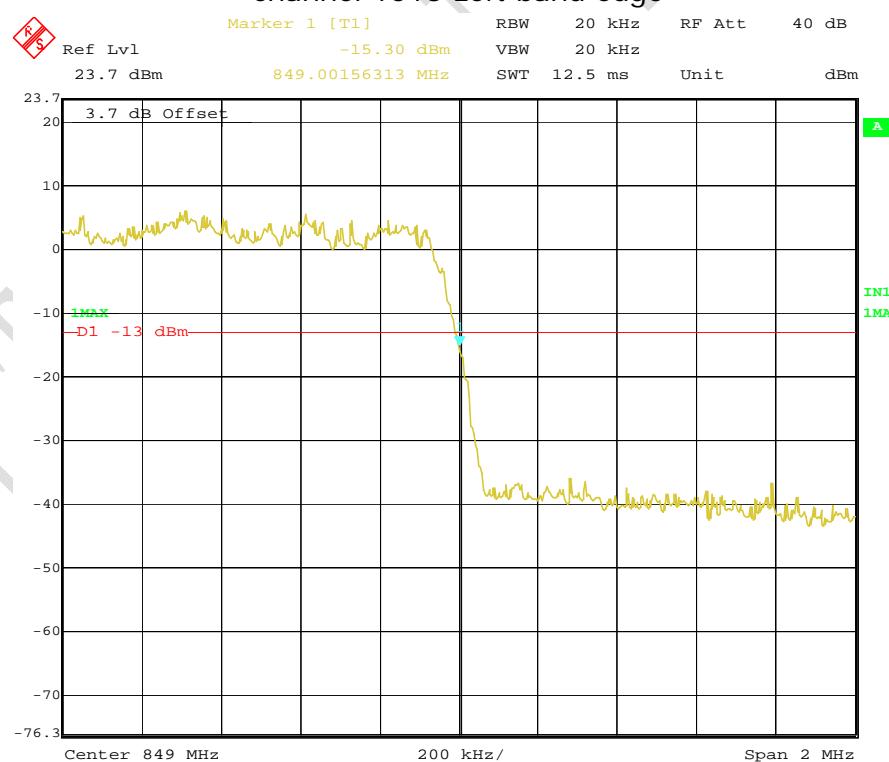
Band-edge emission		
EUT Channel	Frequency [MHz]	Level [dBm]
1013 left band edge	824.00100200	-16.30
777 right band edge	849.00156313	-14.86

FCC Parts 2, 22
Equipment: FW-C2080

REPORT NO.: I07CA6946-FCC-PART22-a



channel 1013 Left band edge



channel 777 Right band edge

ANNEX A Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

_____ The End of this Report _____

CHINATTL Test Report