

47 CFR PART 22 SUBPART H

TEST REPORT

Fixed Wireless Phone on CDMA 800MHz



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1. Test Result Certification

Equipment under Test:	Fixed Wireless Phone on CDMA 800MHz
Trade Name:	Axesstel Inc
Model Name:	PXA10
FCC ID:	PH7PXA10
Applicant:	Axesstel Inc
	6815 Flanders Drive, #210, San Diego, CA 92121, USA
Manufacturer:	Asiatelco Technologies Co.
	#289 Bisheng Rd, Bld-8, 3F, Zhangjiang Hi-Tech Park, Pudong,
	Shanghai, China
Test Standards:	47 CFR Part 2
	47 CFR Part 22 Subpart H
Test Result:	PASS

* We Hereby Certify That:

The equipment under test was tested by Shenzhen Morlab Communications Technology Co., Ltd. The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the requirement of related FCC rules.

The test results of this report only apply for the tested sample equipment identified above. The test report shall be invalid without all the signatures of the test engineer, the reviewer and the approver.

Tested by:	Bow Kinguan	2010, 1.11
	Bao Yinquan	ORL 2010/01/11
Reviewed by:	Zhang Jun	Certification 30 (o. 1. 1)
	Zhang Jun	GLOGAL SERVICE 5 2010/01/11
Approved by:	when	Dated: 2010, 11
11 2	Su Feng	2010/01/11



2. General Information

2.1 Equipment under Test (EUT) Description

EUT1	
Description:	CDMA 1X digital mobile phone
Model No.:	PXA10
Modulation:	CDMA1X
Frequency:	Tx: 824 MHz -849MHz;
	Rx: 869 MHz-894 MHz;
Serial No.:	N/A
Hardware Version:	AVKK-C Main Board
Software Version:	cp_6681_M_1.84.5BT
EUT2	
Description:	Battery
Model No.:	ABN-1200A
Serial No.:	N/A
Manufacturer:	Shenzhen EPT Battery Co., Ltd.
Capacitance:	1200mAh
Rated Voltage:	3.6V
Charge Limit:	4.5V
EUT3	
Description:	AC Adapter (Charger for Battery)
Model No.:	DYS051-066080-7824B
Serial No.:	N/A
Manufacturer:	De-Yu Electronics Co., Ltd. Fuzhou
Rated Input:	~ 120-265V, 100mA Max 8 W, 63Hz
Rated Output:	= 5.3 V, 800mA, Max 4.3W
Length DC cable:	N/A

NOTE:

- 1. The EUT is a CDMA Cellular Wireless Phone operating in Cellular 800MHz band. And the device doesn't support TDSO and EVDO.
- 2. The normal configuration for the EUT is the CDMA Cellular Wireless Phone associated with ancillary equipments e.g. the Battery and/or the AC Adapter (Charger).
- 3. For detailed features about the EUT, please see user manual supplied by the applicant.



2.2 Test Standards and Results

The objective of the report is to perform tests according to 47 CFR Part 2, Part 22 for FCC ID Certification:

No.	Identity		Document Title					
1	47 CFR Part 2 (10-1-05 Edition)		Frequency Allocations and Radio Treaty Matters; General Rules and Regulations					
2	47 CFR Par (10-1-05 Ed		Public Mobile Services					
3	ANSI/TIA/I	EIA-603-C (2004)	Land Mobile FM or PM - Co Measurement and Performance Sta		ions Equipment -			
4	ANSI C63.4		American National Standard for Radio-Noise Emissions from I Electronic Equipment in the Range	Low-Voltag	ge Electrical and			
		s and the results are	e as below:					
No	1	Test Type		Result	Date of Test			
	C Part 22 Red	1						
1	§2.106 §22.905	Frequencies		PASS	2009-12-10/18			
2	§2.1046	Conducted RF Output Power at Antenna Terminal		PASS	2009-12-10/18			
3	\$2.1049 \$22.917	Occupied Bandw	idth	PASS	2009-12-10/18			
4	\$2.1051 \$2.1057 \$22.917	Band edge		PASS	2009-12-10/18			
5	\$2.1051 \$2.1057 \$22.917	Conducted Spurio	Conducted Spurious Emission at Antenna Terminal		2009-12-10/18			
6	§22.913	Transmitter Radiated Power (EIRP/ERP)		PASS	2009-12-10/18			
7	\$2.1053 \$2.1057 \$22.917	Radiated Spurious Emission		PASS	2009-12-10/18			
8	§2.1055 §22.355	Frequency Stabili	ty	PASS	2009-12-10/18			



2.3 Facilities and Accreditations

2.3.1 Facilities

Shenzhen Electronic Product Quality Testing Center (Morlab) is a testing organization accredited by China National Accreditation Board for Laboratories (CNAL) according to ISO/IEC 17025. The accreditation certificate number is L1659.

All measurement facilities used to collect the measurement data are located at Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen, P. R. China. The site was constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22, the FCC registration number is 741109.

2.3.2 Test Equipments

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Rohde&Schwarz	CMU200	105571	2009.11	1 year
System Simulator	Anritsu	MT8820A	BE07218	2009.10	1 year
Spectrum Analyzer	Rohde&Schwarz	FSP30	101020	2009.11	1 year
Power Splitter	Weinschel	1506A	NW521	(n.a.)	(n.a.)
Attenuator 1	Resnet	20dB	(n.a.)	(n.a.)	(n.a.)
Attenuator 2	Resnet	3dB	(n.a.)	(n.a.)	(n.a.)

NOTE:

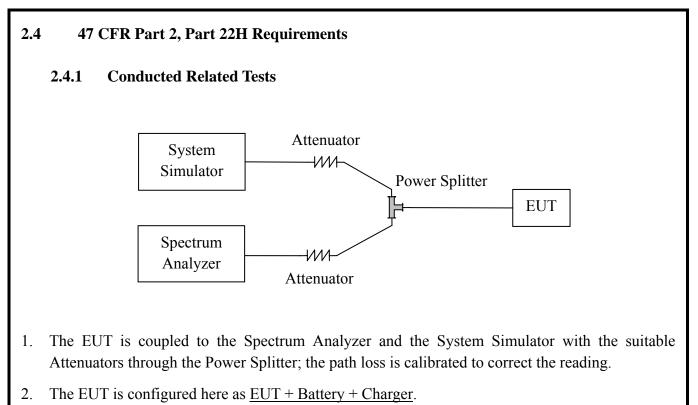
Equipments listed above have been calibrated and are in the period of validation.

2.3.3 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature:	20 - 25°C
Relative Humidity:	40 - 50%
Atmospheric Pressure:	96kPa

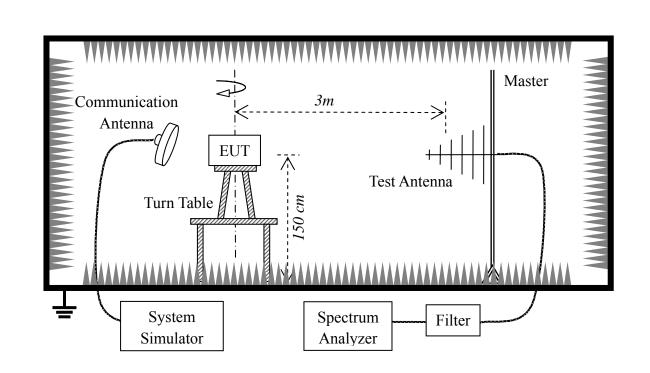




- 3. The EUT is commanded via the System Simulator (SS) to operate at the maximum output power . A communication link is established between the EUT and the SS.
- 4. The Spectrum Analyzer is set to max-peak detector function and maximum hold mode.

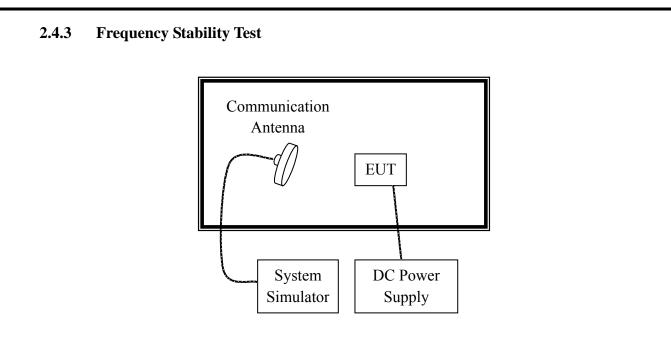


2.4.2 Radiated Power and Spurious Emission Tests



- 1. The test is performed in a full-Anechoic Chamber; the air loss of the site and the factors of the test system are pre-calibrated using the substitution method.
- 2. The EUT is configured as $\underline{EUT + Battery + Charger}$.
- 3. The EUT is placed on the vertical axis of a Turn Table 1.5 meters above the ground.
- 4. The Test Antenna is a bi-log one or a horn one, and the Test Antenna is at the same height as the EUT.
- 5. The EUT is commanded via the System Simulator (SS) to operate at the maximum output power. A communication link is established between the EUT and the SS.
- 6. The Spectrum Analyzer is set to max-peak detector function and maximum hold mode.





- 1. The test is performed in a Temperature Chamber.
- 2. The EUT is configured as MS + DC Power Supply.

2.4.4 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level.

Test status	Channel
SO2 RC1/REV1	1013(Low)
502 KC1/KEV1	777(High)
SO2 RC3/REV3	1013(Low)
502 KC3/KEV3	777(High)
SO55 RC1/REV1	1013(Low)
5055 KC1/KEV1	777(High)
SO55 RC3/REV3	1013(Low)
5055 KC5/KEV5	777(High)

Note:

For CDMA2000 Cellular, the worest test mode is SO2 RC1/REV1 which was used for all testing.



2.5 Frequencies

2.5.1 Requirement

According to FCC §22.905, the frequencies blocks assignment for the Cellular Radiotelephone Service are listed as below.

- (a) Channel Block A: Mobile 824 - 835MHz, Base 869 - 880MHz; Mobile 845 - 846.5MHz, Base 890 - 891.5MHz
- (b) Channel Block B: Mobile 835 - 845 MHz, Base 880 - 890MHz; Mobile 846.5 - 849 MHz, Base 891.5 - 894MHz

2.5.2 Procedure

- 1. Perform test system setup as section 2.4.1.
- 2. The resolution bandwidth (RBW) of the Spectrum Analyzer was set to at least 1% of the emission bandwidth of the fundamental emission of the transmitter, e.g. for GSM modulated signal (here used): RBW=VBW=3kHz, for CDMA modulated signal: RBW=VBW=30kHz.
- 3. The lowest and the highest channel were selected to perform tests respectively. Channel No.1013(lowest) and 777(highest) for cellular band;
- 4. The MS operated at the maximum output power. Set the Spectrum Analyzer suitably to capture the waveform, search peak and mark, and then record the plot.



2.5.3 Test modes

Test status	Channel	Test plot
SO2 RC1/REV1	1013(Low)	1
502 KC1/KE V I	777(High)	2

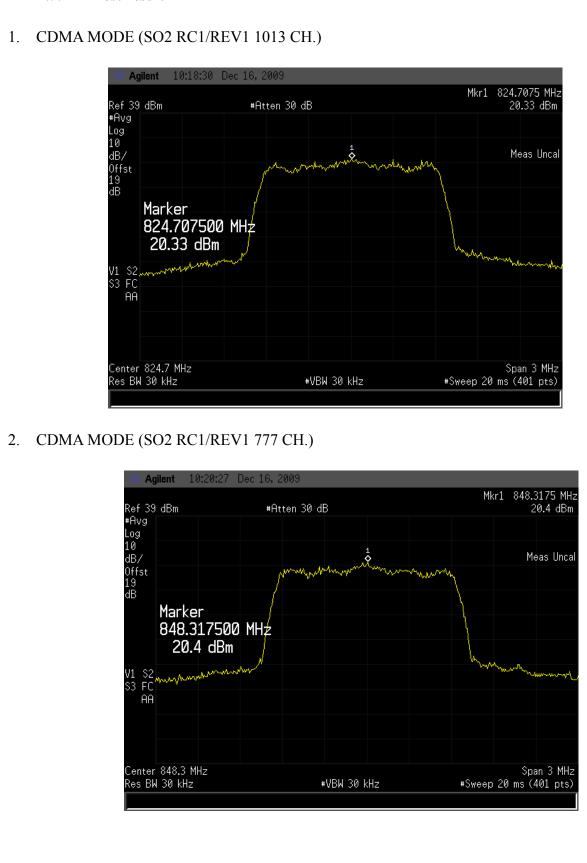
Note:

The worest case (SO2 RC1/REV1) only recorded in this report .

The frequencies of the lowest channel and the highest channel are as the following figures.



2.5.4 Test result





2.6 Conducted RF Output Power

2.6.1 Requirement

According to FCC §2.1046 (a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in §2.1033 (c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

2.6.2 Test Procedure

- 1. Perform test system setup as section 2.4.1 (the radio frequency load attached to the EUT antenna terminal is 50Ω).
- 2. The resolution bandwidth of the Spectrum Analyzer is set to be comparable to the emission bandwidth of the transmitter, e.g. for GSM modulated signal (here used): RBW=VBW=1MHz, for CDMA modulated signal: RBW=VBW=3MHz.
- 3. The lowest and the highest channel were selected to perform tests respectively. Channel No.1013(lowest) 384(middle)and 777(highest) for cellular band;
- 4. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.





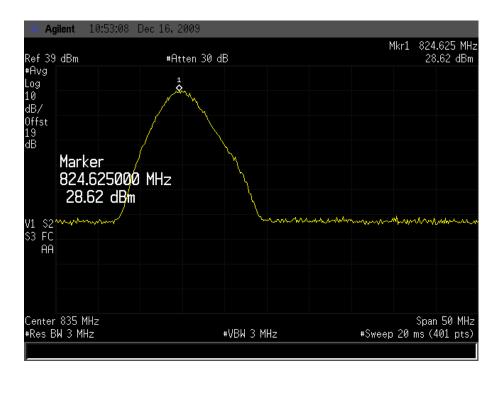
2.6.3 Test Result

Measured Power Rated				Rated P	ower	Test	
Test status	Channel	Frequency (MHz)	dBm	W	dBm	W	plot.
	1013(Low)	824.625	28.62	0.728	33	7	1
SO2 RC1/REV1	384(Mid)	836.625	28.70	0.741	33	7	2
	777(High)	848.375	28.91	0.778	33	7	3
	1013(Low)	825.000	28.59	0.723	33	7	-
SO2 RC3/REV3	384(Mid)	836.75	28.44	0.698	33	7	-
	777(High)	848.500	28.25	0.668	33	7	-
	1013(Low)	824.875	28.37	0.687	33	7	-
SO55 RC1/REV1	384(Mid)	837.000	28.33	0.681	33	7	-
	777(High)	848.125	28.13	0.650	33	7	-
	1013(Low)	824.750	28.20	0.660	33	7	-
SO55 RC3/REV3	384(Mid)	836.875	28.01	0.632	33	7	-
	777(High)	848.750	28.33	0.681	33	7	-

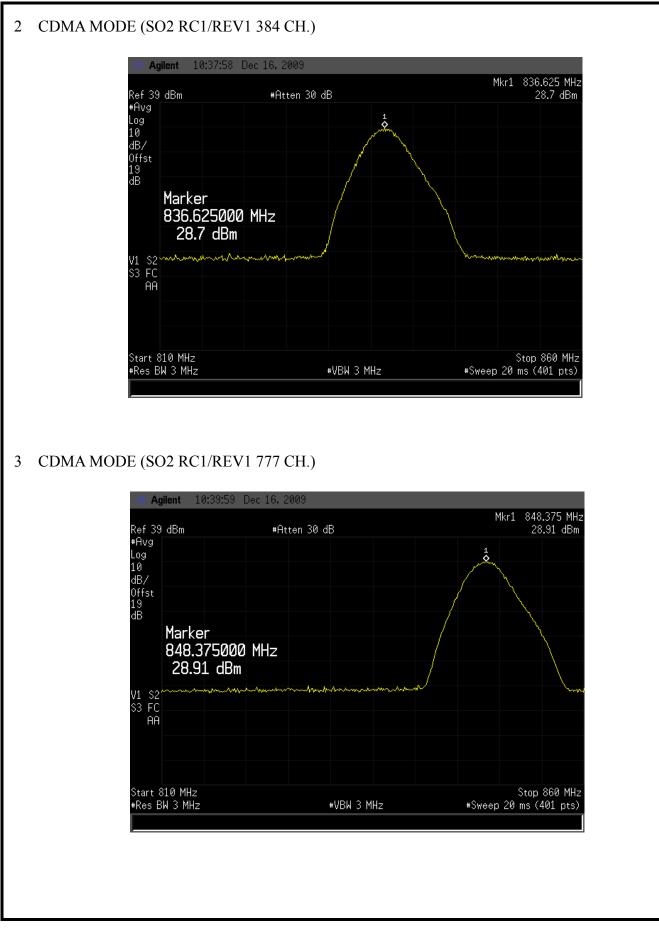
Note:

The worest case(SO2 RC1/REV1)only recorded in this report .

1 CDMA MODE (SO2 RC1/REV1 1013 CH.)









2.7 Occupied Bandwidth

2.7.1 Occupied Bandwidth Definition

According to FCC §2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

2.7.2 Test Procedure

- 1 Perform test system setup as section 2.4.1 (the radio frequency load attached to the EUT antenna terminal is 50Ω).
- 2 The resolution bandwidth of the Spectrum Analyzer is set to be comparable to the emission bandwidth of the transmitter, for CDMA modulated signal: RBW=VBW=30KHz.
- 3 The lowest and the highest channel were selected to perform tests respectively. Channel No.1013(lowest) 384(middle)and 777(highest) for cellular band;.
- 4 Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.



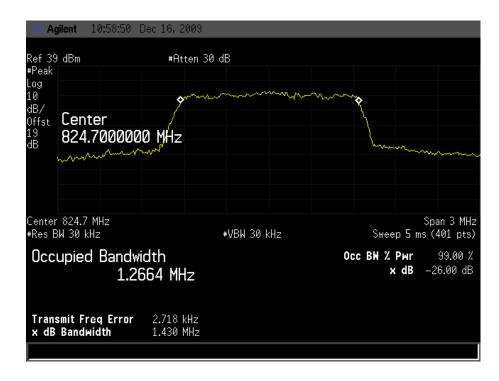
2.7.3 Test Result

Test status	Channal	Measured Occupied Bandwidth	Test	Test plot
Test status	Channel (MHz)	result		
	1013(Low)	1.2664	PASS	1
SO2 RC1/REV1	384(Mid)	1.2682	PASS	2
	777(High)	1.2763	PASS	3

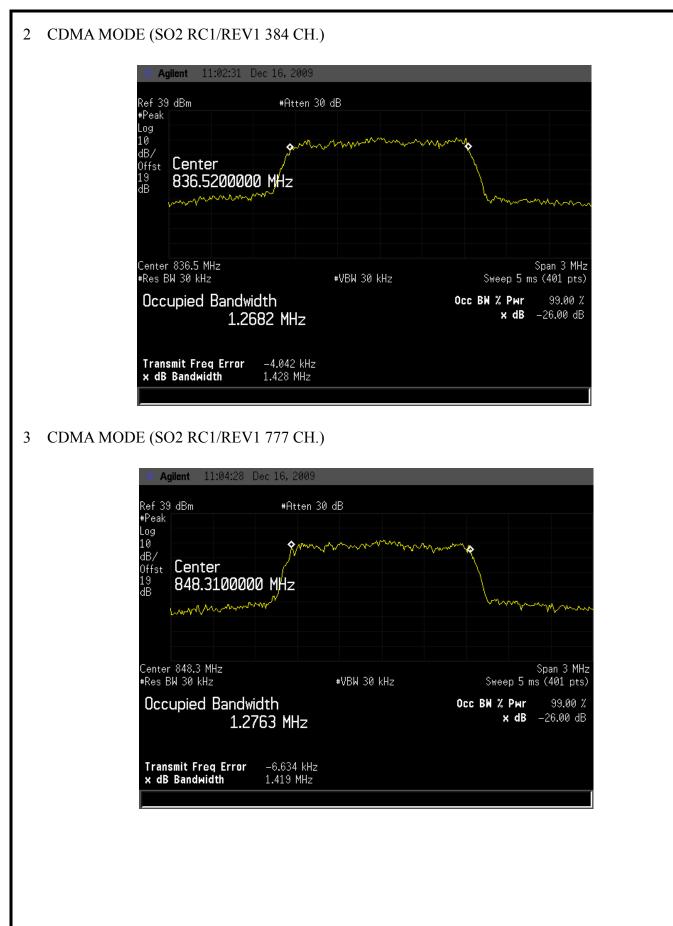
Note:

The worest case(SO2 RC1/REV1)only recorded in this report.

1 CDMA MODE (SO2 RC1/REV1 1013 CH.)









2.8 Plot for Band-edge

2.8.1 Test modes

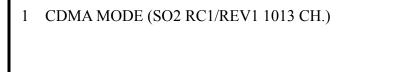
Test status	Channel	Channel Measured Band-edge(MHz		Test plot
SO2 RC1/REV1	1013(Low)	824	PASS	1
502 KC1/KE v I	777(High)	849	PASS	2

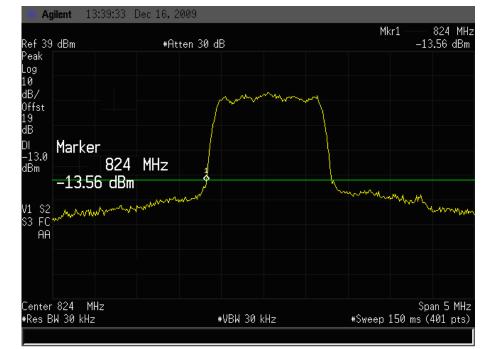
Note:

- 1. The Band-edge of the lowest channel and the highest channel are as the following figures.
- 2. The worest case(SO2 RC1/REV1) only recorded in this report.

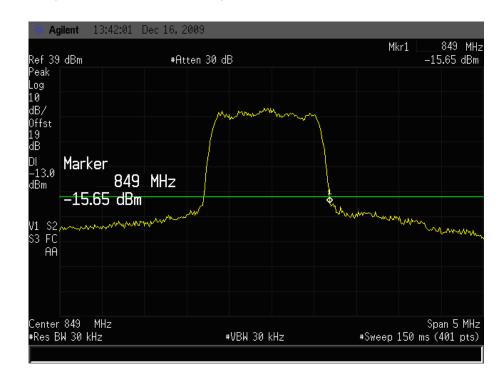


2.8.2 Test result





2 CDMA MODE (SO2 RC1/REV1 777 CH.)





2.9 Conducted Spurious Emission

2.9.1 Requirement

According to FCC 22.917(a) and 24.238(a), 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. This calculated to be -13dBm.

According to FCC §22.917 (b) and §24.238(b), in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. Thus the 26dB emission bandwidth is measurement for showing compliance at the band-edge.

2.9.2 Test Procedure

- 1. Perform test system setup as section 2.4.1.
- 2. Make a limit line whose value is -13dBm on the Spectrum Analyzer.
- 3. The lowest and the highest channel were selected to perform tests respectively. Channel No.1013(lowest) 384(middle)and 777(highest) for cellular band;
- 4. Set the RBW of the Spectrum Analyzer to 1MHz, and the measuring frequency range from 9kHz to 1^{0th} harmonic of the fundamental frequency (here used 26.5GHz); mark the fundamental frequency and the harmonics thereof; finally record the harmonics and the plot. Note, the measuring frequency range can be divided into several parts to perform tests.
- 5. In the 1MHz bands immediately outside and adjacent to the frequency black, the RBW of the Spectrum Analyzer was set to at least one percent of the emission bandwidth of the fundamental emission of the transmitter, e.g. for GSM modulated signal (here used): RBW=3kHz, for CDMA modulated signal: RBW=1MHz.
- 6. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.



2.9.3 Test modes

Test status	Channel	Test plot	
	1013(Low)	1	
SO2 RC1/REV1	384(Mid)	2	
	777(High)	3	

Note: The worest case(SO2 RC1/REV1) only recorded in this report.

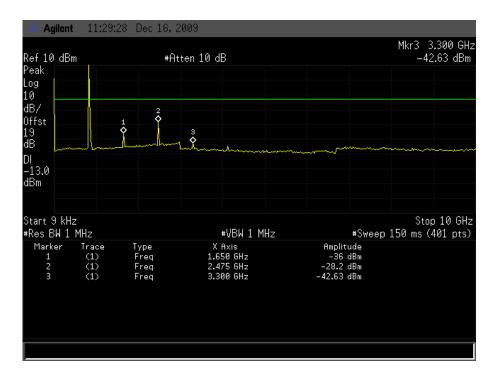


2.9.4 Test result

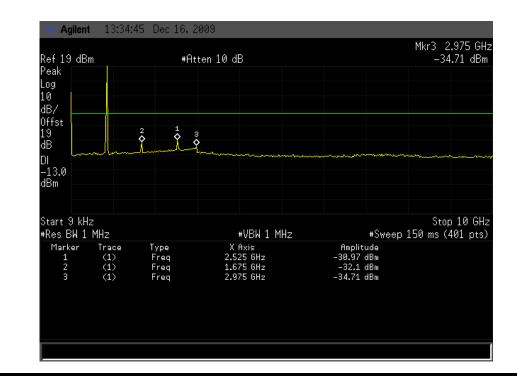
1 Plots for Conducted Spurious Emission

The measuring frequency range was from 9kHz to 10GHz.

1 CDMA MODE (SO2 RC1/REV1 1013 CH.)

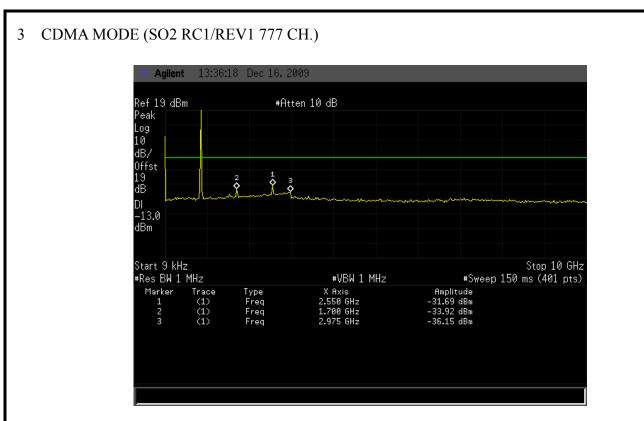


2 CDMA MODE (SO2 RC1/REV1 384 CH.)





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2.10 Transmitter Radiated Power (EIRP/ERP)

2.10.1 Requirement

According to FCC §22.913, the ERP of Cellular mobile transmitters must not exceed 7 Watts (38.5dBm).

2.10.2 Test Procedure

- 1. Perform test system setup as section 2.4.2.
- 2. The resolution bandwidth of the Spectrum Analyzer is set to be comparable to the emission bandwidth of the transmitter, e.g. for GSM modulated signal (here used): RBW=VBW=1MHz, for CDMA modulated signal: RBW=VBW=3MHz.
- 3. The lowest and the highest channel were selected to perform tests respectively. Channel No.1013(lowest) 384(middle)and 777(highest) for cellular band;
- 4. Employ the bi-log Test Antenna as the test system receiving antenna; set the polarization of the Test Antenna to be the same as that of the EUT transmitting antenna.
- 5. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; actuate the Turn Table to turn from 0 degrees to 360 degrees to find the maximum reading via the Spectrum Analyzer, mark the peak; finally record the peak and the plot.
- 6. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.

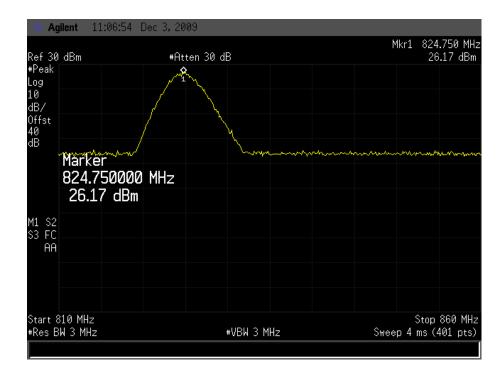


2.10.3 Test Result

Test status	Channel	Frequency	Measured ERP		Limit ERP		Test
Test status		(MHz)	dBm	W	dBm	W	plots
	1013(Low)	824.750	26.17	0.414	< 38.5	< 7	1
SO2 RC1/REV1	384(Mid)	836.625	27.87	0.612	< 38.5	< 7	2
	777(High)	848.375	26.73	0.471	< 38.5	< 7	3

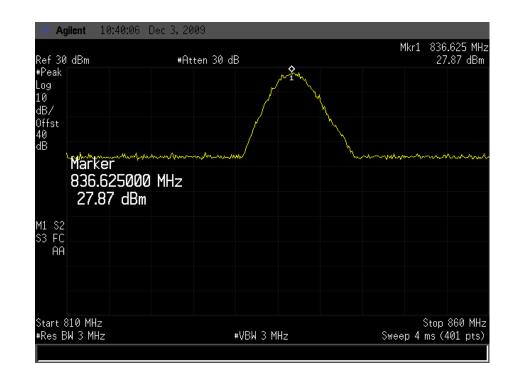
Note: the worst case (SO2 RC1/REV1) only recorded in this report.

1. Plot when the channel number set to 1013





2. Plot when the channel number set to 384:



3. Plot when the channel number set to 777:

	#Atten 30 dB			r1 848.375 M 26.73 dB
Peak Ig			1	,
) 37				\mathcal{A}
fst 1 3			1	
Marker	white when a second	manana	~	hand
848.3750	00 MHz			
26.73 d				
. \$2				
FC AA				
art 810 MHz				Stop 860 M
es BW 3 MHz	#	VBW 3 MHz	Sweep	4 ms (401 pt



2.11 Radiated Spurious Emission

2.11.1 Requirement

According to FCC §22.917(a) and §24.238(a), 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. This calculated to be -13dBm.

2.11.2 Test Procedure

- 1. Perform test system setup as section 2.4.2
- 2. Make a limit line whose value is -13dBm on the Spectrum Analyzer, and set the RBW of the Spectrum Analyzer to 1MHz.
- 3. The lowest and the highest channel were selected to perform tests respectively. Channel No.1013(lowest) 384(middle)and 777(highest) for cellular band;
- 4. Employ the bi-log Test Antenna as the test system receiving antenna and set the frequency range of the Spectrum Analyzer from 30MHz to 3GHz.
- 5. The measurement is performed with the Test Antenna at both horizontal and vertical polarization respectively. Set the polarization of the Test Antenna to be horizontal.
- 6. Actuate the Turn Table to turn from 0 degrees to 360 degrees to find the maximum reading via the Spectrum Analyzer, mark the fundamental frequency and the harmonics thereof, after then record the harmonics and the plot.
- 7. Set the polarization of the Test Antenna to be vertical, then repeat step 6.
- 8. Employ the horn Test Antenna as the test system receiving antenna and set the frequency range of the Spectrum Analyzer from 30MHz to 10th harmonic of the fundamental frequency (here used 10GHz), then repeat step 5 to 7.
- 9. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.



2.11.3 Test modes

Test status	Channel
	1013(Low)
SO2 RC1/REV1	384(Mid)
	777(High)

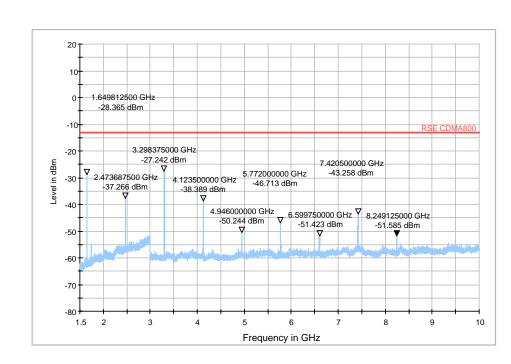
Note:

- 1. The worst case (SO2 RC1/REV1) only recorded in this report.
- 2. The frequency range of 30 MHz to 1.5GHz doesn't show in test plots following means that the emission power was too small to be measured and was at least 12dB below the limit

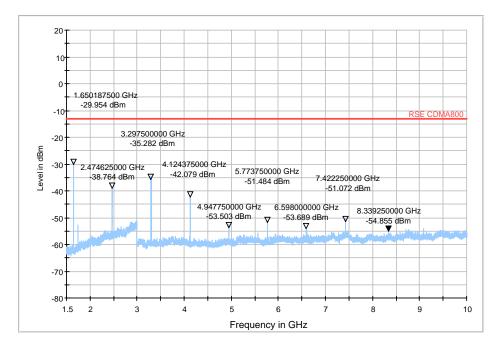


2.11.4 Test plots

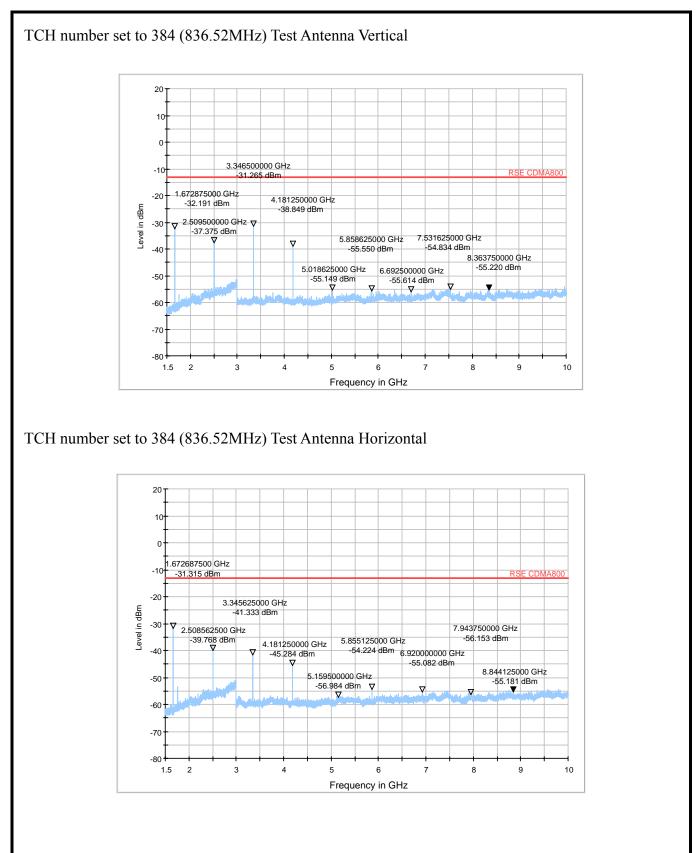
TCH number set to 1013 (824.7MHz) Test Antenna Vertical



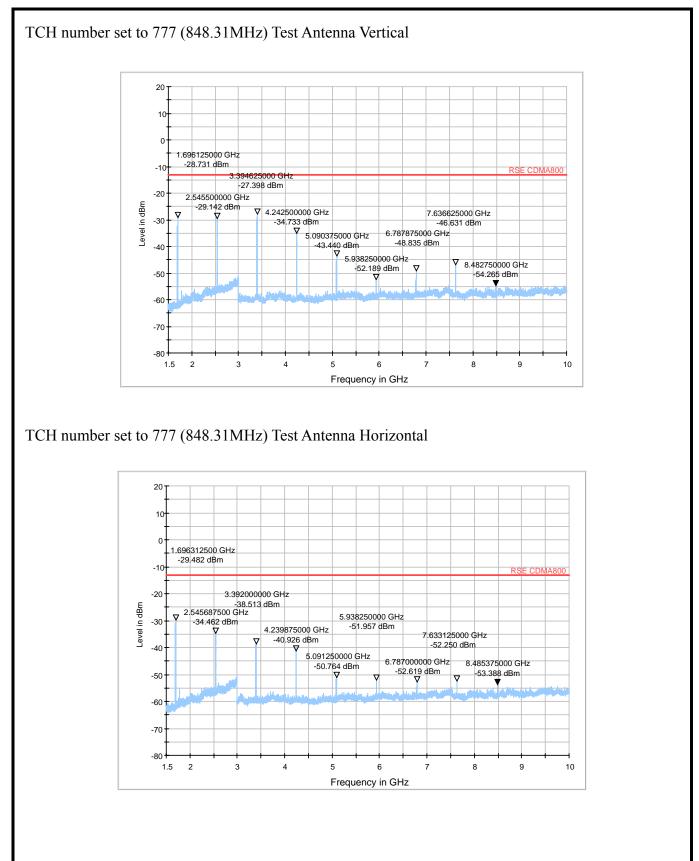
TCH number set to 1013 (824.7MHz) Test Antenna Horizontal













2.12 Frequency Stability

2.12.1 Frequency Stability Requirement

According to FCC §22.355, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

According to FCC §2.1055, the test conditions are:

(a) Temperature:

The temperature is varied from -30° C to $+50^{\circ}$ C at intervals of not more than 10° C.

(b) Primary Supply Voltage:

For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.12.2 Test Procedure

- 1. Perform test system setup as section 2.4.3.
- 2. Set the voltage of the DC Power Supply to normal supply voltage (here used 4.0V) and the temperature of the Temperature Chamber to vary from -30°C to +50°C at intervals of 10°C.
- 3. At each temperature level, the EUT is powered off and kept in the Temperature Chamber for two hours. After sufficient stabilization, turn on the EUT, command it via the System Simulator (SS) to operate at the maximum output power i.e. A communication link is established between the EUT and the SS.
- 4. The frequency deviation is measured (directly read from the SS, which can report the parameter) within three minutes.
- 5. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.
- 6. Adjust the temperature of the Temperature Chamber as specified in step 2, then repeat step 3 to 7.
- 7. Set the voltage of the DC Power Supply to high extreme supply voltage (here used 4.5V) and the temperature of the Temperature Chamber to normal (here used +22°C), then repeat step 3 to 8.
- 8. Set the voltage of the DC Power Supply to low extreme supply voltage (here used 3.4V) and the temperature of the Temperature Chamber to normal (here used +22°C), then repeat step 3 to 8.



2.12.3 Test modes

Test status	Channel
	1013(Low)
SO2 RC1/REV1	384(Mid)
	777(High)
	1013(Low)
SO2 RC3/REV3	384(Mid)
	777(High)
	1013(Low)
SO55 RC1/REV1	384(Mid)
	777(High)
	1013(Low)
SO55 RC3/REV3	384(Mid)
	777(High)



2.12.4 Test Result

Test Conditions		Frequency Deviation (Hz) at Channels Used					
Voltage	Temperature	Test status	1013	384	777	Limit	
4.5V	+22°C	SO2 RC1/REV1	9.38	8.94	3.05		
3.4V	+22°C	SO2 RC1/REV1	8.55	4.96	3.54		
	-30°C	SO2 RC1/REV1	-11.57	10.66	10.21		
	-20°C	SO2 RC1/REV1	-9.63	-6.32	7.56		
	-10°C	SO2 RC1/REV1	-9.69	9.99	8.36	1013CH±2061.75Hz	
	0°C	SO2 RC1/REV1	9.02	5.13	6.65	384CH±2091.30Hz	
4.0V	+10°C	SO2 RC1/REV1	5.10	9.24	5.07	777CH±2120.775Hz	
	+20°C	SO2 RC1/REV1	18.02	6.41	2.56		
	+30°C	SO2 RC1/REV1	9.32	6.90	3.52		
	+40°C	SO2 RC1/REV1	11.20	-5.91	3.24		
	+50°C	SO2 RC1/REV1	10.25	6.48	3.39		

Note: The worst case (SO2 RC1/REV1) only recorded in this report

** END OF REPORT **