FCC PART 22 TYPE APPROVALS
EMI MEASUREMENT AND TEST REPORT

For

ZTE Corporation

ZTE Plaza, Hi-tech Park, Nanshan District, Shenzhen,
Guangdong, China 518057

FCC ID: Q78-ZTEC330

Model: ZTE C330

This Report Concerns: ☒ Original Report	**Product Type:** 800MHz CDMA2000 1X Mobile Phone
Test Engineer:	Jeff Zhang Jeff zhang Guan Bin Guan bin
Report No.:	RSZ08031405
Report Date:	2008-03-06
Reviewed By:	David Gong David Gong Lab Manager
Prepared By:	ZTE Corporation Reliability Testing Center ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen，Guangdong，518057，P.R. of China Tel: +86-755-26770345 Fax: +86-755-26770347

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The ZTE Corporation's product, FCC ID: Q78-ZTEC330 or the "EUT" as referred to in this report is a 800 MHz CDMA2000 1X Mobile Phone, which measures approximately 80mm(L)×36mm(W)×12.8mm(H).

The frequency range is TX: 824MHz～849MHz,

RX: 869MHz～894MHz.

EUT Photo

Additional Photos in Exhibit C

Objective

This type approval report is prepared on behalf of *ZTE Corporation* in accordance with Part 2, Subpart J, Part 22 Subpart H of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules for RF output power, modulation characteristic, occupied bandwidth, spurious emission at antenna terminal, field strength of spurious radiation, frequency stability, band edge, and conducted and radiated margin.

Related Submittal(s)/Grant(s)

No Related Submittals

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services
Part 15 Subpart B – Unintentional radiators

Applicable Standards: TIA-98-E, TIA603-C, ANSI C63.4-2003.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

ZTE Corporation Reliability Testing Center
ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen，Guangdong，518057，P.R. of China
Tel: +86-755-26770345
Fax: +86-755-26770347

Test site at ZTE Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC).

The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 25, 2005. ZTE Corporation Lab's FCC Registration Number is 373926.

SYSTEM TEST CONFIGURATION

Justification

The EUT was configured for testing according to TIA/EIA-603 C.

The final qualification test was performed with the EUT operating at normal mode.

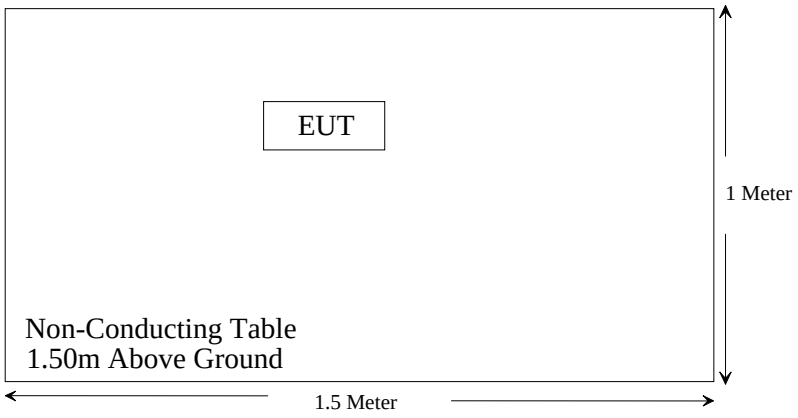
Equipment Modifications

No modifications were made to the EUT.

Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Agilent	Wireless communication test set	8960 E5515C	GB42431673

Test Setup Block Diagram



SUMMARY OF TEST RESULTS

FCC Rule	Description of Test	Result
§ 2.1047	Modulation Characteristics	N/A
§ 2.1053	Spurious Radiated Emissions	Compliant
§2.1093	RF Exposure	Compliance. SAR report
§ 2.1046, § 22.912 (d)	RF Output Power	Compliant
§ 2.1049 § 22.917 § 22.905	Out of Band Emission, Occupied Bandwidth	Compliant
§ 2.1051, § 22.917	Spurious Emissions at Antenna Terminals	Compliant
§ 2.1055 (a) § 2.1055 (d) § 22.355	Frequency stability vs. temperature Frequency stability vs. voltage	Compliant
§ 22.917	Band Edge	Compliant
§ 15.107	Conducted Emission at AC power port	Compliant
§ 15.109	Radiated Emission of Enclosure	Compliant

§2.1047 - MODULATION CHARACTERISTIC

Applicable Standard

Requirement: FCC § 2.1047(d). As part 22H has not specific requirement for CDMA modulation, therefore modulation characteristic is not presented.

Result: N/A

§2.1053 - SPURIOUS RADIATED EMISSIONS

Applicable Standard

Requirements: CFR 47, § 2.1053.

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a 50 ohms load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 log (TXpwr in Watts/0.001) – the absolute level

Spurious attenuation limit in dB = 43 + 10 Log_{10} (power out in Watts)

Measurement bandwidth (RBW) for 30 to 1000 MHz: 100 kHz.
Measurement bandwidth (RBW) for above 1GHz: 1MHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
R&S	EMI Test Receiver 20Hz～26.5GHz	ESI26	100058	2007-10-25
R&S	Log periodic Antenna 30～3000MHz	HL562	100022	2007-3-7
R&S	Double-Ridged Waveguide Horn Antenna 1～18GHz	HF906 RX	100032	2007-10-10
R&S	Filters	TS-FILT	N/A	N/A
R&S	Cable Set Up to 18Ghz	RF Cable	N/A	N./A
Albatross	Anechoic Chamber 3m site	3m site	N/A	2007-5-14
SCHWARZBECK	VHF-UHF Broad band Antenna 30-1000MHz	VUBA 9117	173	2007-4-11
R&S	Double-Ridged Waveguide Horn Antenna 1~18GHz	HF906 TX	100446	2007-9-20
R&S	Signal generator 10MHz~20GHz	SMR20	100098	2007-10-16
Agilent	Wireless communication test set	8960 E5515C	GB42431673	2007-01-18

*** Statement of Traceability: ZTE Corporation Reliability Testing Center** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

Temperature:	20° C
Relative Humidity:	55%
ATM Pressure:	1018mbar

** The testing was performed by guan bin on 2007-10-23*

Test Result

Worst case reading as follows:

Part22H:

33.13 dB at 8140.80 MHz

TX Spurious Emission scan 30 MHz – 12.75GHz (TX) Middle channel

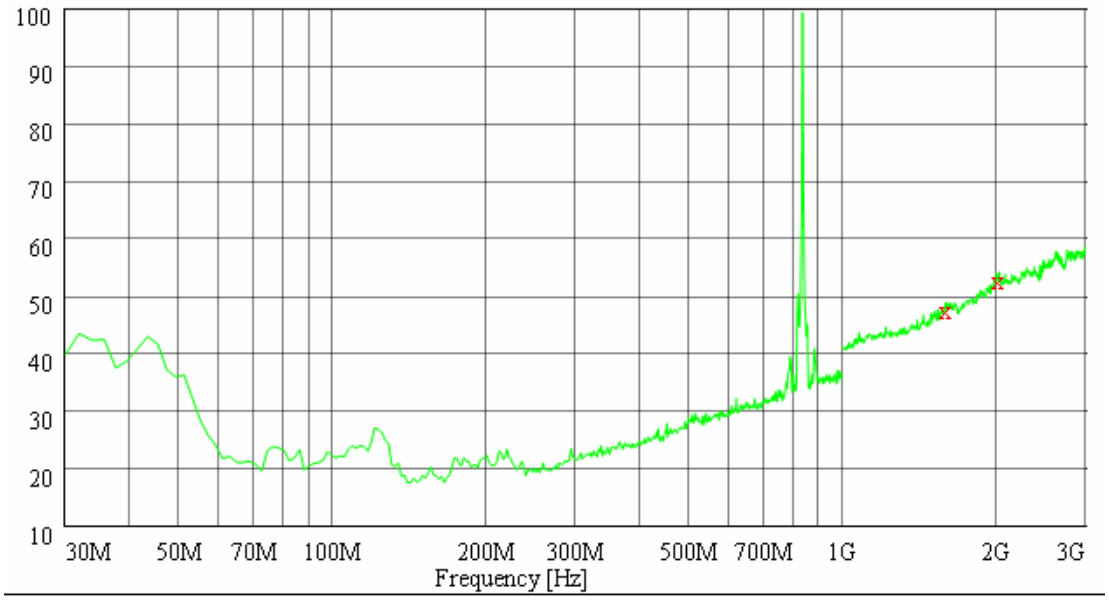
Indicated		Test Ant. Polar (H/V)	Substituted		Ant. Gain Correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Freq. (MHz)	Amp. (dBuV/m)		Freq. (MHz)	Level (dBm)					
6182.3647	53.06	H	6182.36	-50.33	9.05	6.9	-50.33	-13	37.33
6983.6253	53.04	H	6983.63	-52.38	9.25	7.3	-52.58	-13	39.58
10284.068	57.38	H	10284.10	-51.56	11.35	8.9	-51.26	-13	38.26
1601.2024	48.98	V	1601.20	-58.89	6.55	3.3	-57.79	-13	44.79
2034.0681	54.26	V	2034.10	-53.26	7.05	3.8	-52.16	-13	39.16
8140.7816	55.49	V	8140.80	-45.43	9.45	8	-46.13	-13	33.13
10503.006	57.29	V	10503.1	-50.94	11.75	9.1	-50.44	-13	37.44

Note: No Pre-amplifier

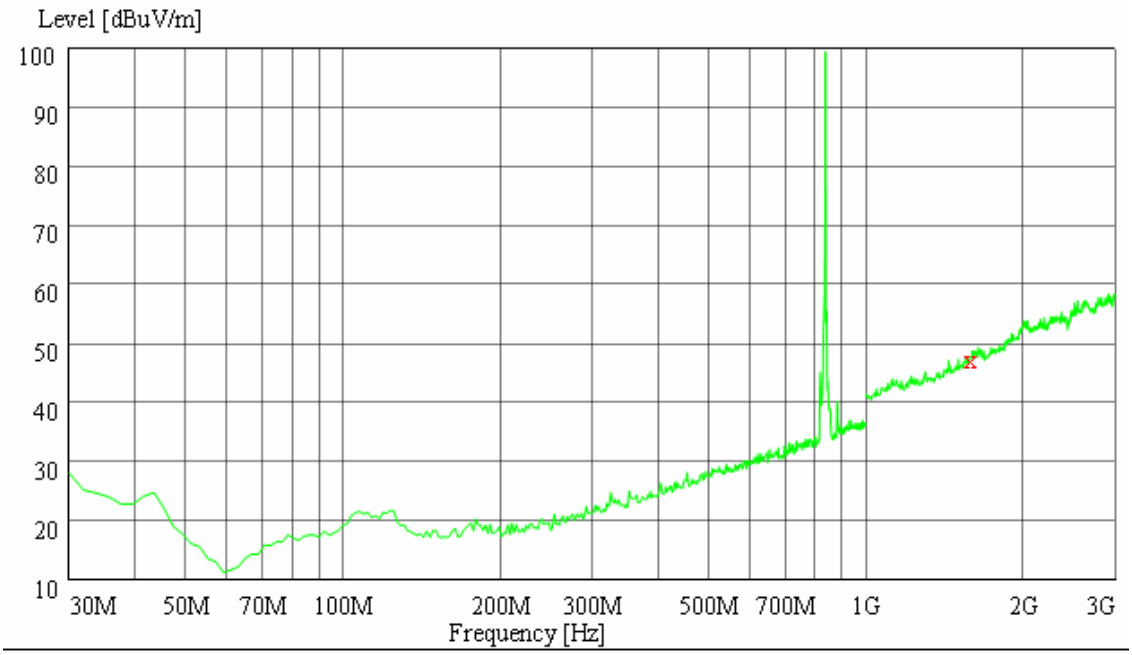
Conclusion

The equipment **PASSED** the requirement of this clause.

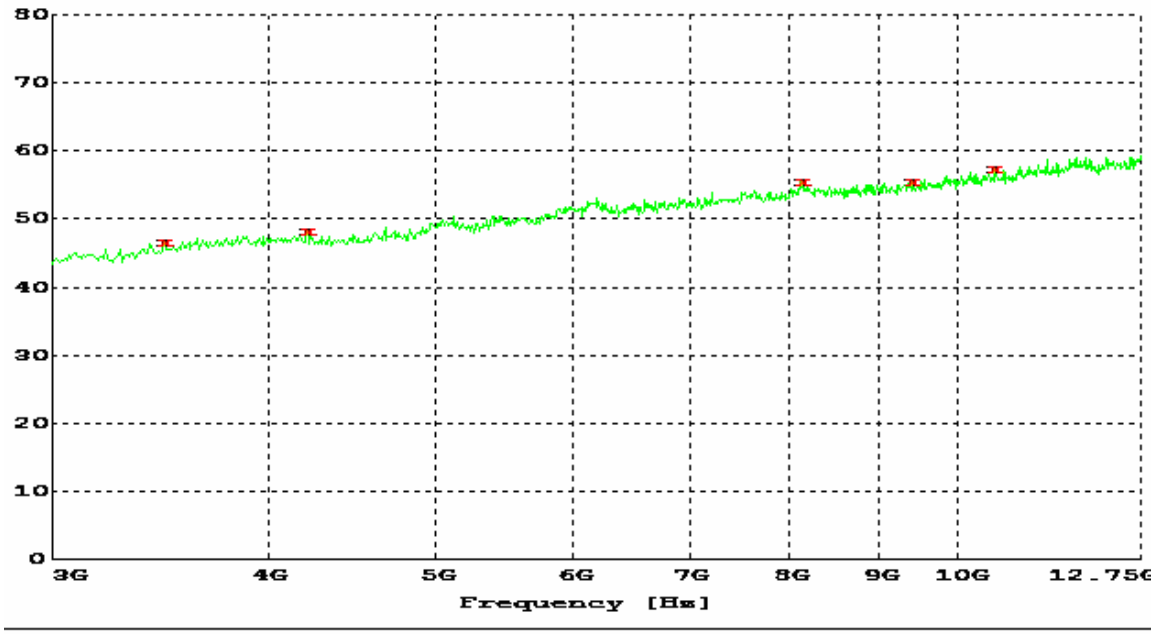
(30MHz ~ 3GHz)Vertical



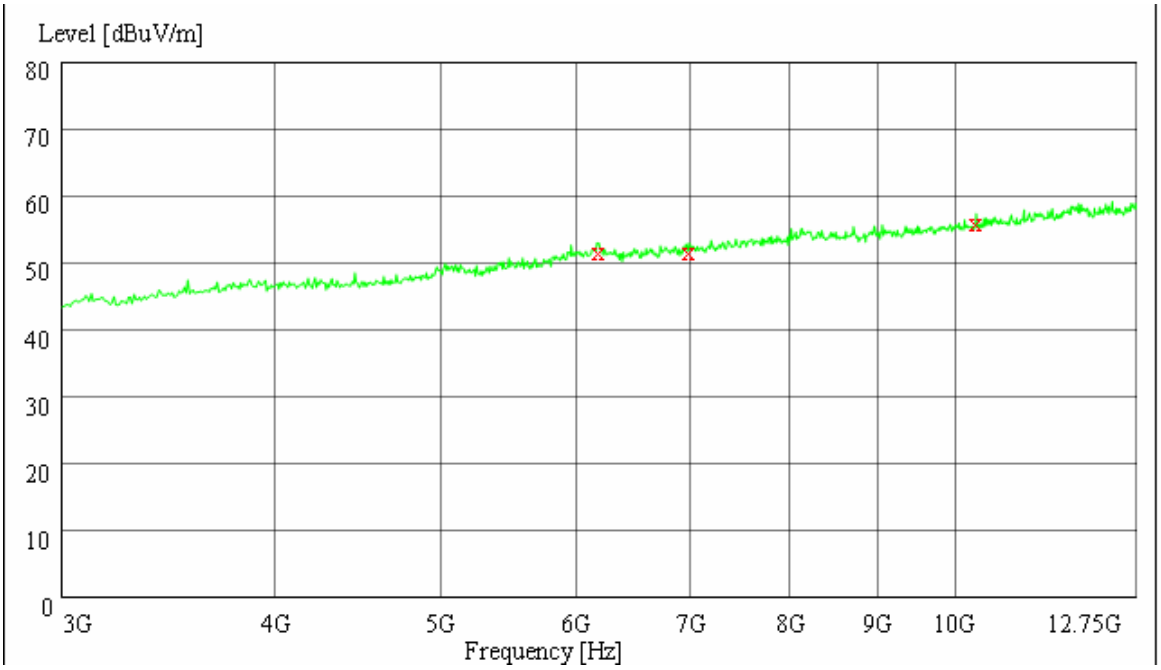
(30MHz ~ 3GHz)Horizontal



(3GHz~12.75GHz) Vertical



(3GHz~12.75GHz) Horizontal



§2.1046, §22.913(a) – RF OUTPUT POWER

Applicable Standard

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

Test Procedure

Conducted:

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
Agilent	Wireless communication test set	8960 E5515C	GB42431673	2007-01-18
Agilent	Spectrum Analysis	E4405B	MY41440292	2007-01-18

*** Statement of Traceability: ZTE Corporation Reliability Testing Center** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

Temperature:	20° C
Relative Humidity:	55%
ATM Pressure:	1018mbar

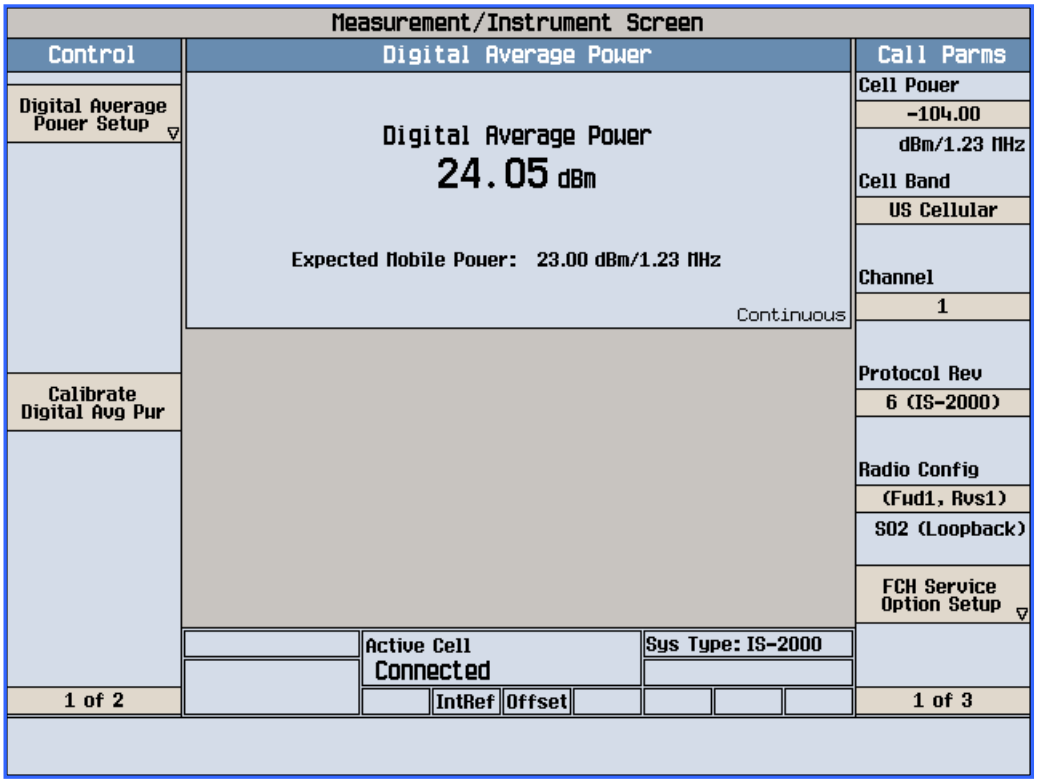
** The testing was performed by Jeff Zhang on 2007-10-24*

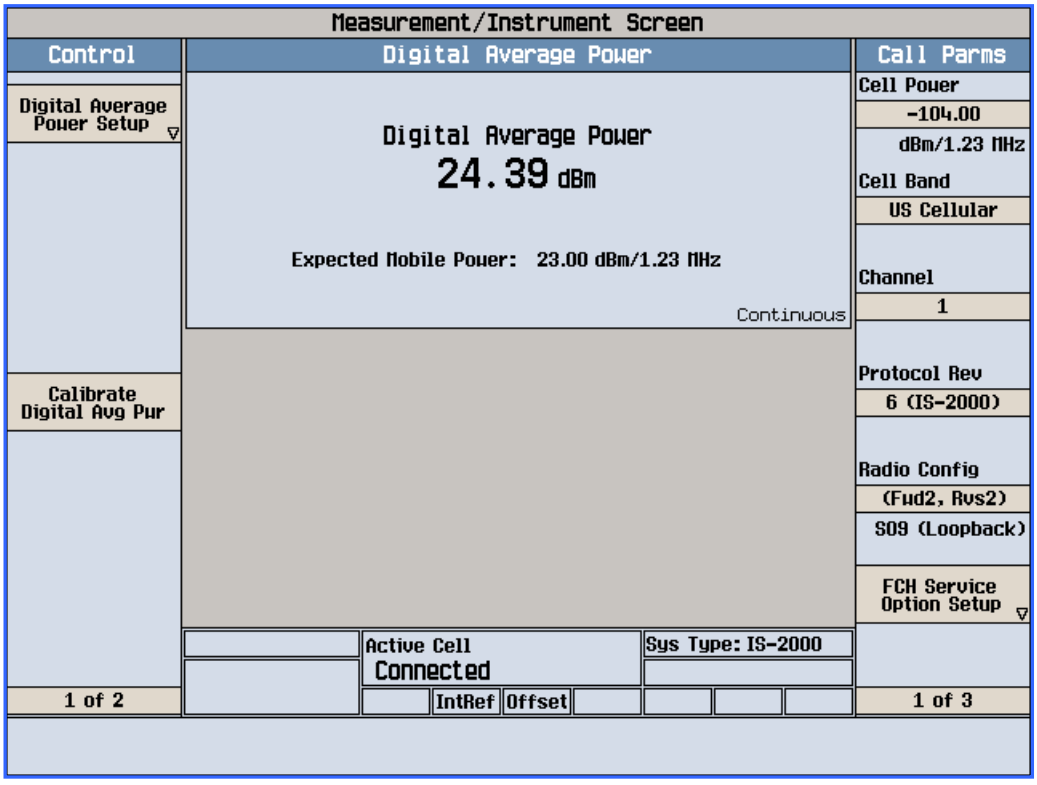
Test Results

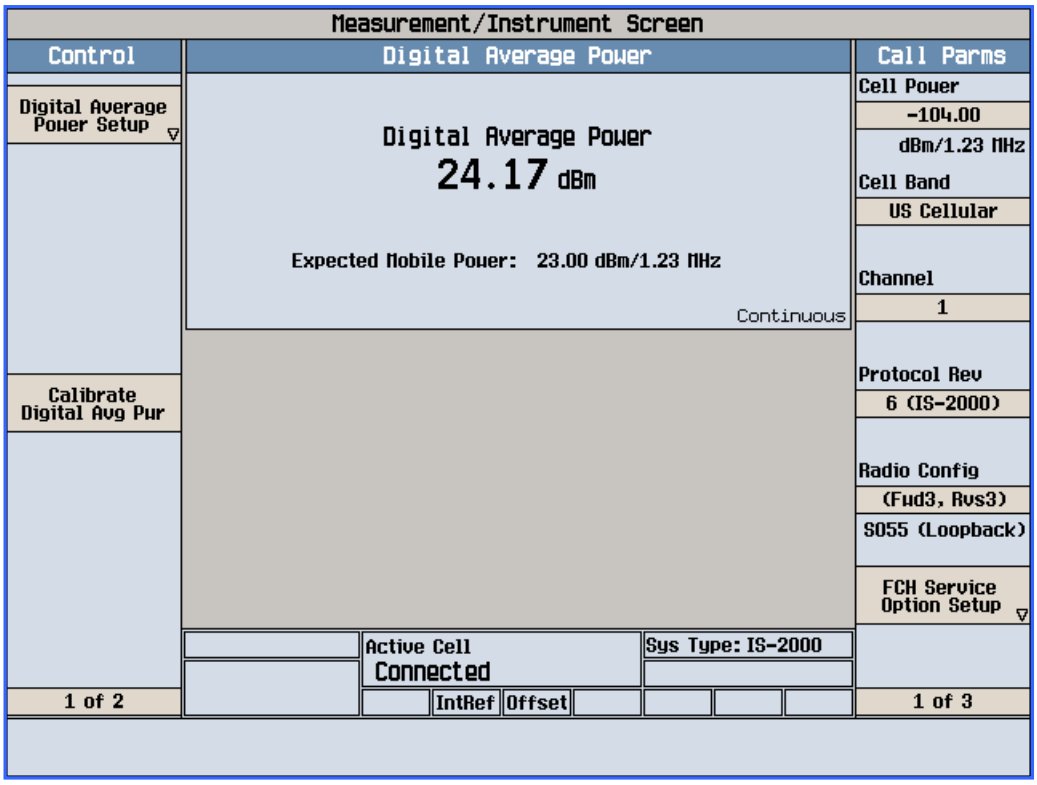
Channel	Radio Configuration and Conducted Power (dBm)			
	RC1	*RC2*	*RC3*	*RC4*
Low	24.05	24.39	24.17	24.26
Mid	24.37	24.32	24.48	24.69
High	24.19	24.16	24.07	24.27

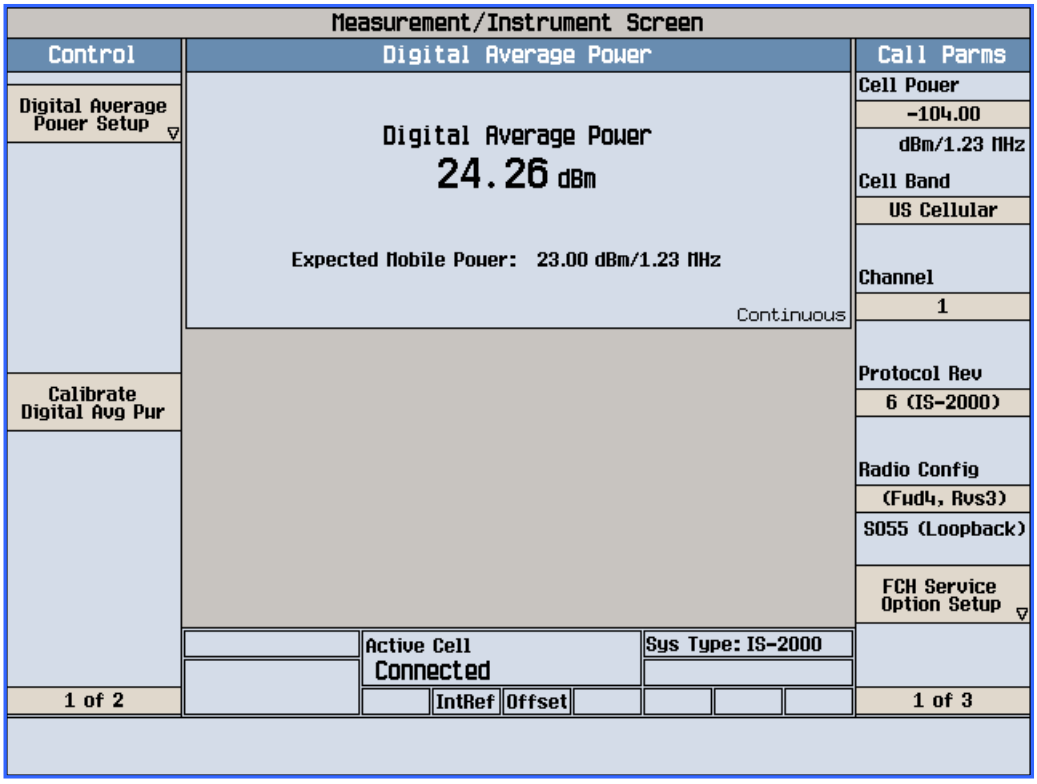
Note: The EUT antenna is non-retractable antenna with 0dBi gain, VSWR<2.0 and vertical polarization.

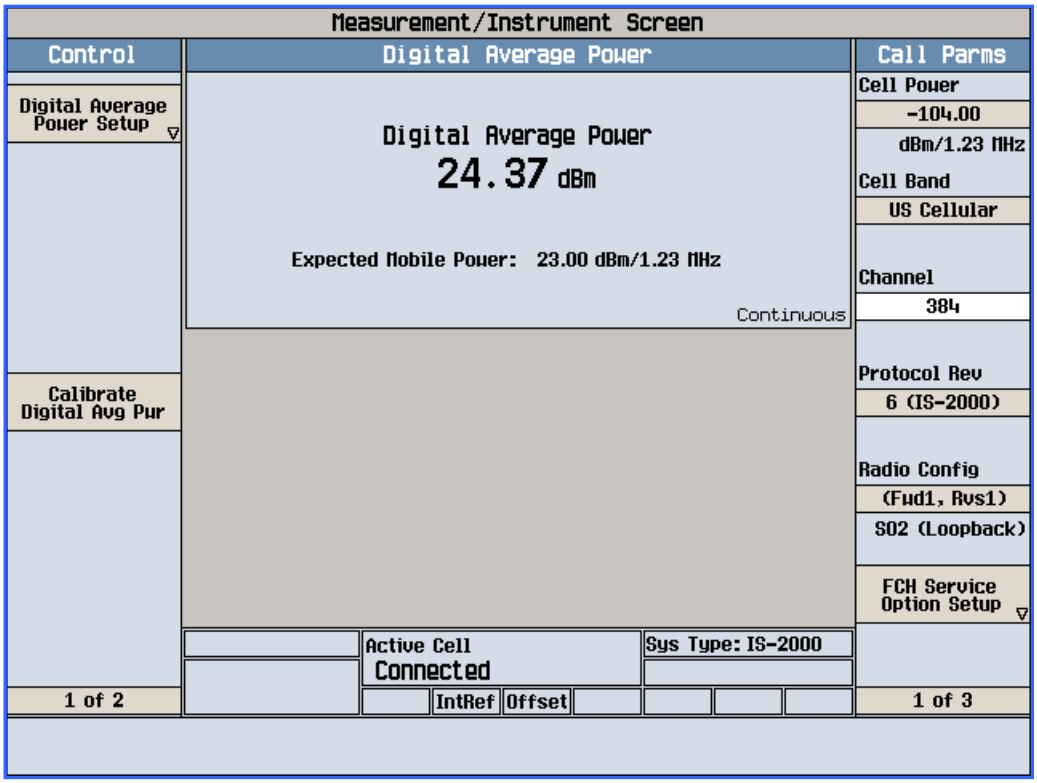
Plots of Conducted Output RF Power for RC1 to RC4 of 1 384 777

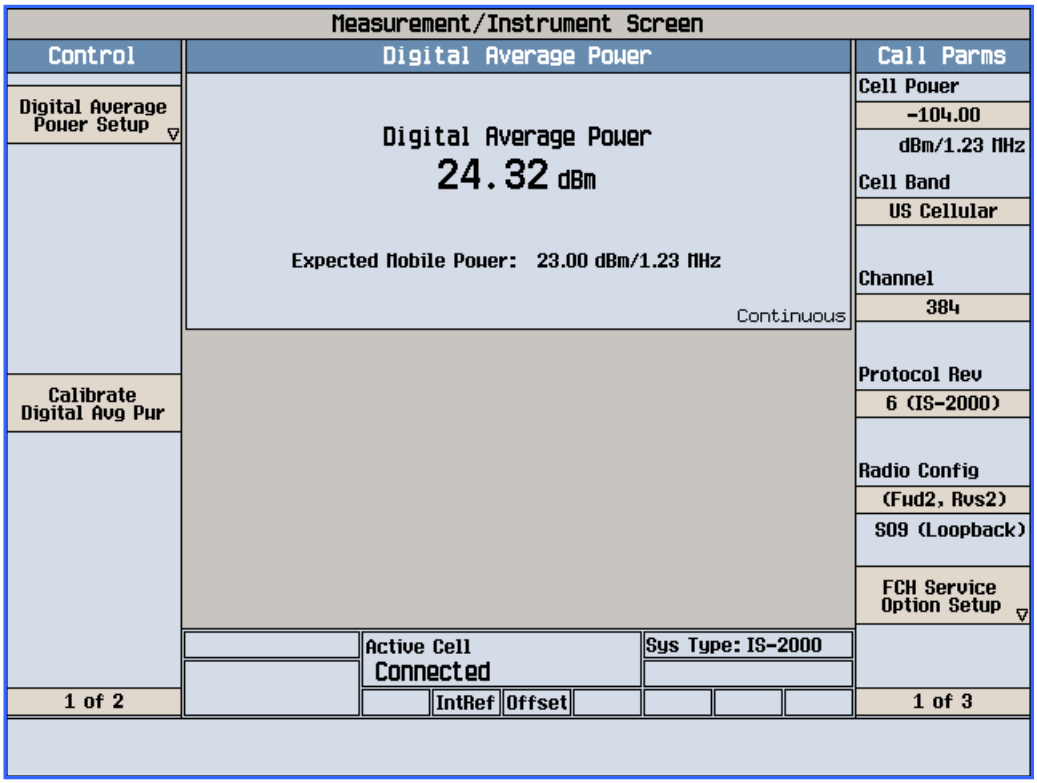


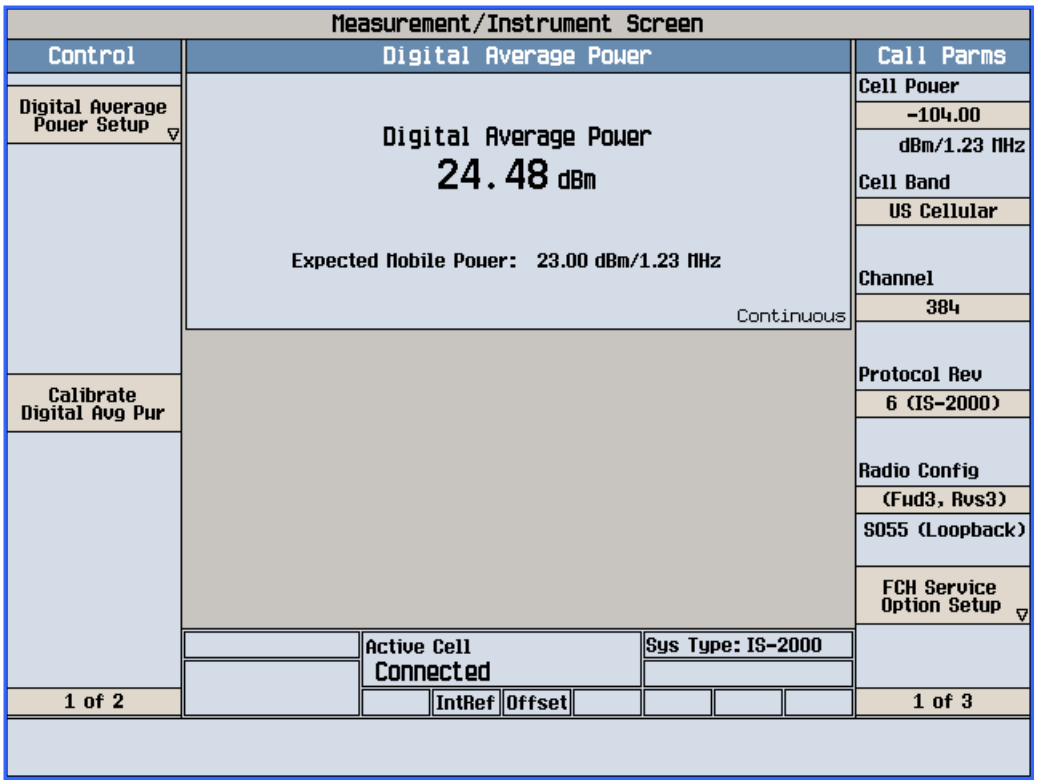


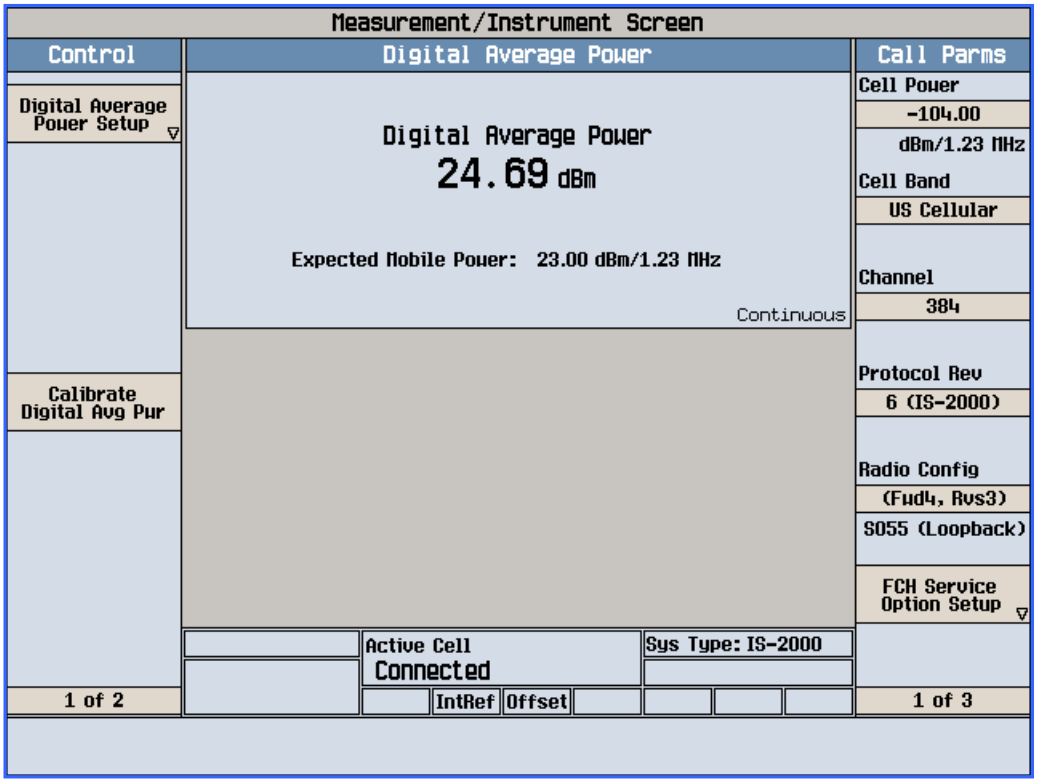

Measurement/Instrument Screen
Control
Digital Average Power
Call Parms
Digital Average Power Setup
Digital Average Power
24.17 dBm
Expected Mobile Power: 23.00 dBm/1.23 MHz
Continuous
Cell Power
-104.00
dBm/1.23 MHz
Cell Band
US Cellular
Channel
1
Protocol Rev
6 (IS-2000)
Radio Config
(Fwd3, Rvs3)
S055 (Loopback)
FCH Service Option Setup
Calibrate Digital Avg Pwr
Active Cell
Connected
Sys Type: IS-2000
IntRef
Offset
1 of 2
1 of 3

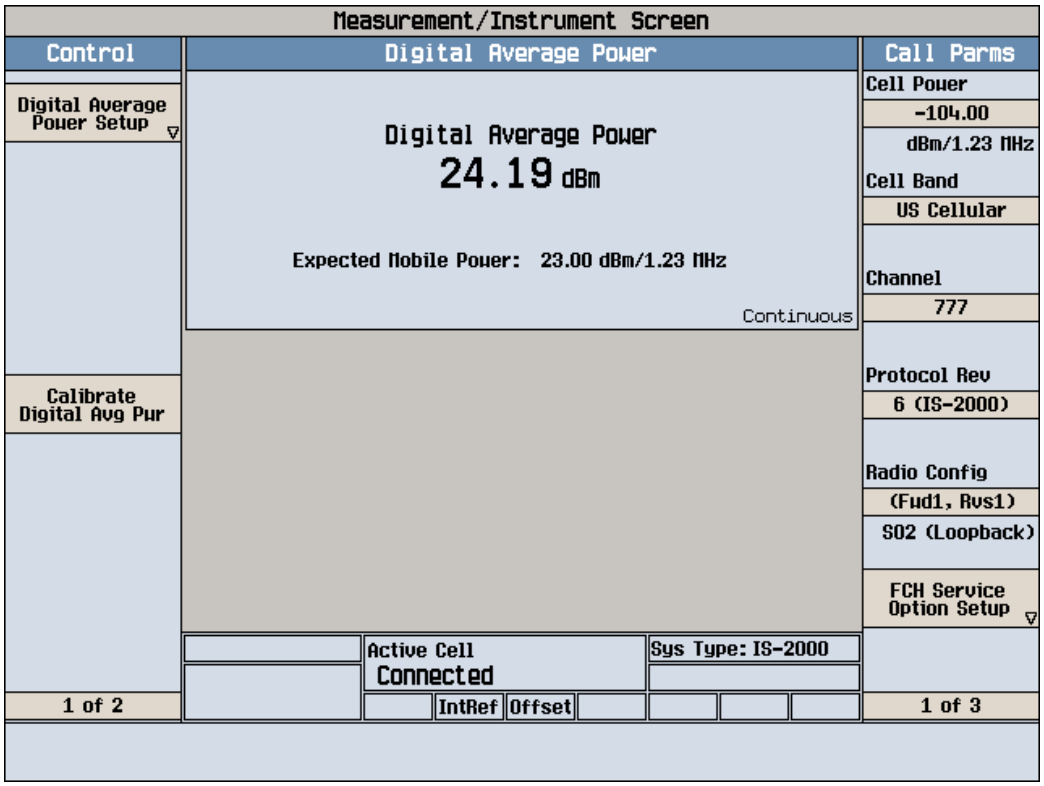

Measurement/Instrument Screen
Control
Digital Average Power
Call Parms
Digital Average Power Setup
Digital Average Power
24.26 dBm
Expected Mobile Power: 23.00 dBm/1.23 MHz
Continuous
Cell Power
-104.00
dBm/1.23 MHz
Cell Band
US Cellular
Channel
1
Protocol Rev
6 (IS-2000)
Radio Config
(Fwd4, Rvs3)
S055 (Loopback)
FCH Service Option Setup
Calibrate Digital Avg Pwr
Active Cell
Connected
Sys Type: IS-2000
IntRef
Offset
1 of 2
1 of 3

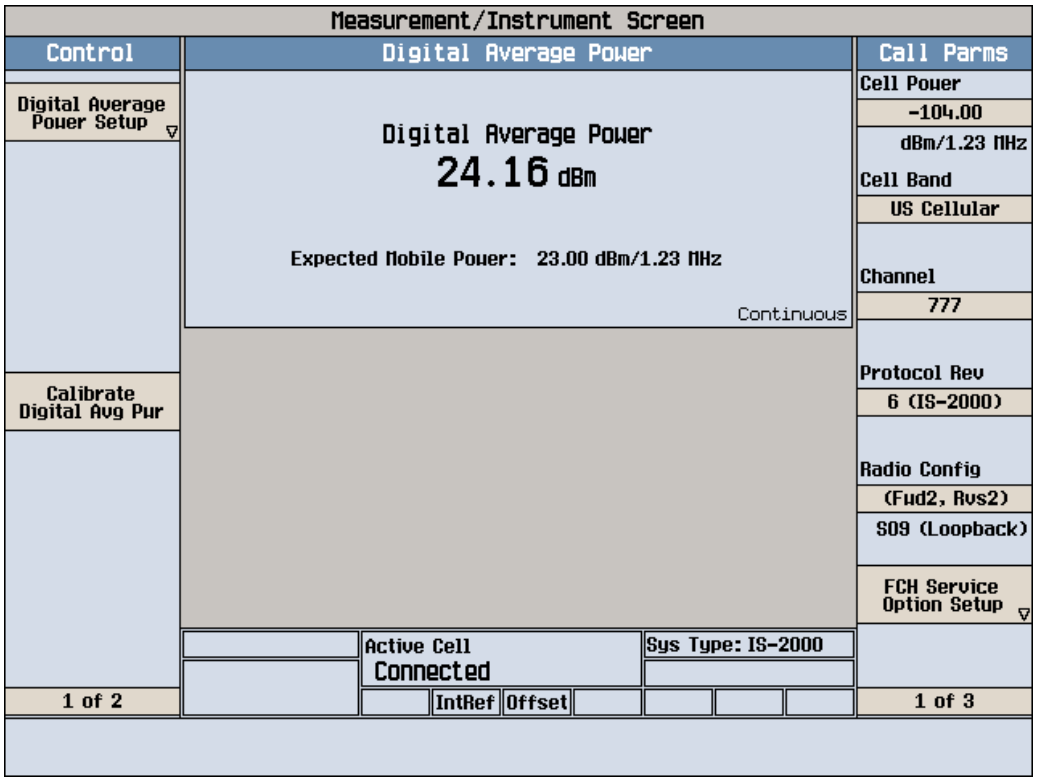

Measurement/Instrument Screen
Control
Digital Average Power
Call Parms
Digital Average Power Setup
Digital Average Power
24.37 dBm
Expected Mobile Power: 23.00 dBm/1.23 MHz
Continuous
Cell Power
-104.00
dBm/1.23 MHz
Cell Band
US Cellular
Channel
384
Protocol Rev
6 (IS-2000)
Radio Config
(Fwd1, Rvs1)
SO2 (Loopback)
FCH Service Option Setup
Calibrate Digital Avg Pwr
Active Cell
Connected
Sys Type: IS-2000
IntRef
Offset
1 of 2
1 of 3

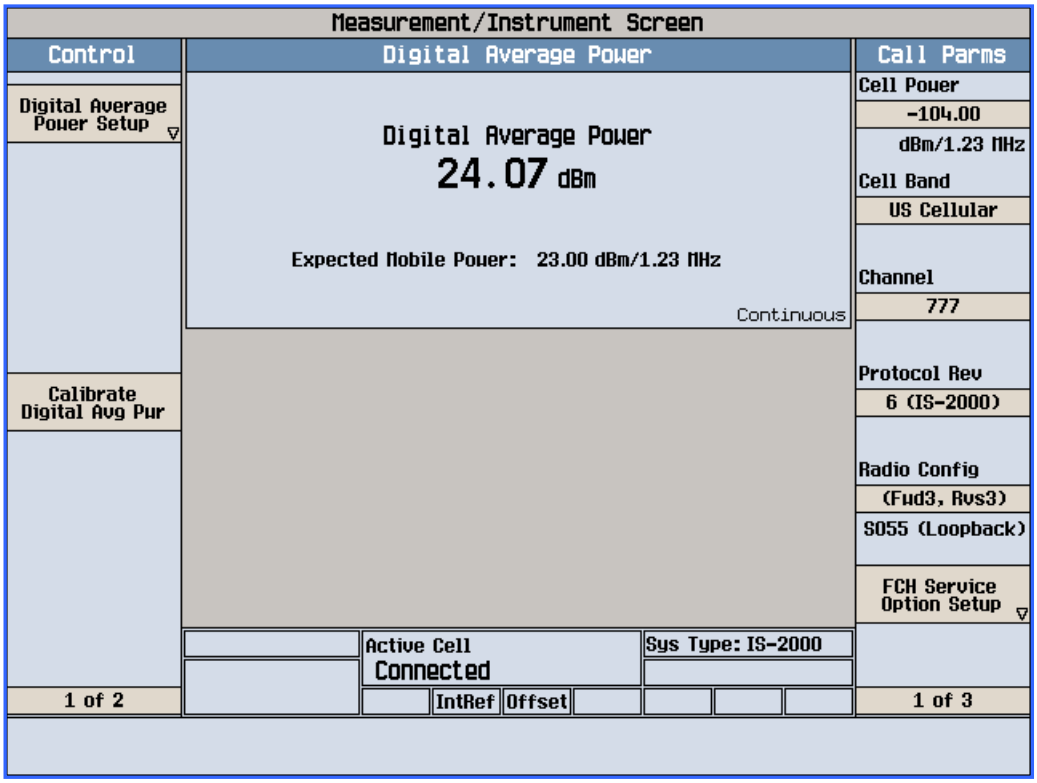

Measurement/Instrument Screen
Control
Digital Average Power
Call Parms
Digital Average Power Setup
Digital Average Power
24.32 dBm
Expected Mobile Power: 23.00 dBm/1.23 MHz
Continuous
Cell Power
-104.00
dBm/1.23 MHz
Cell Band
US Cellular
Channel
384
Protocol Rev
6 (IS-2000)
Radio Config
(Fwd2, Rvs2)
SO9 (Loopback)
FCH Service Option Setup
Calibrate Digital Avg Pwr
Active Cell
Connected
Sys Type: IS-2000
IntRef
Offset
1 of 2
1 of 3

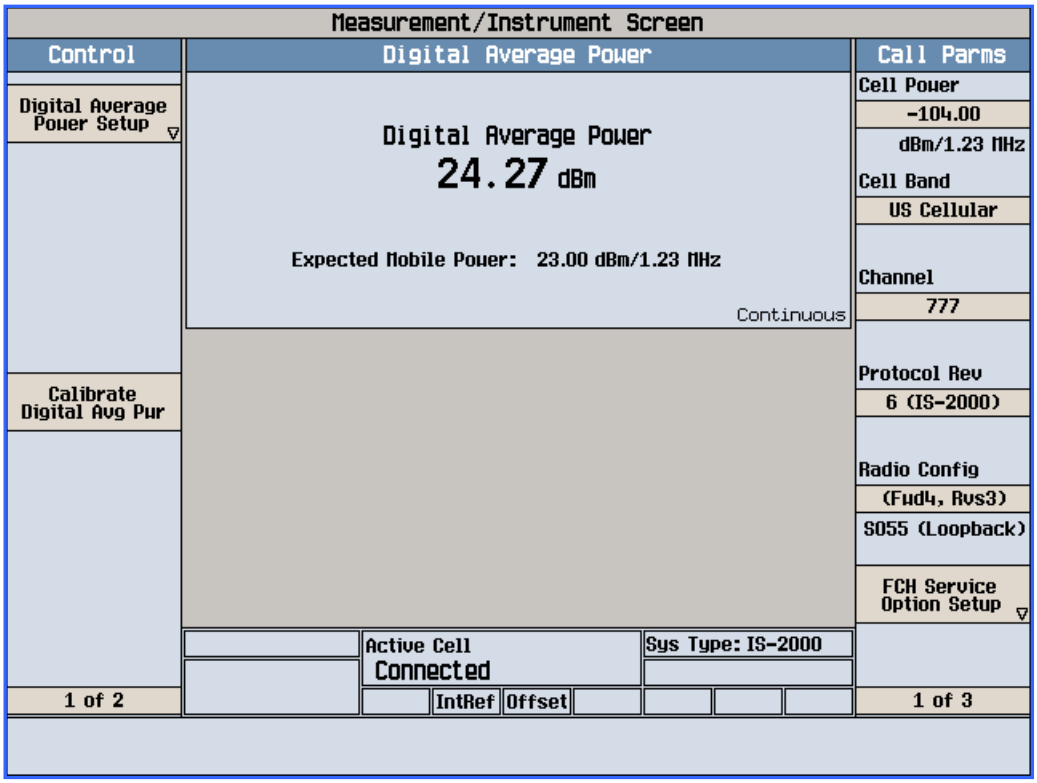

Measurement/Instrument Screen
Control
Digital Average Power
Call Parms
Digital Average Power Setup
Digital Average Power
24.48 dBm
Expected Mobile Power: 23.00 dBm/1.23 MHz
Continuous
Cell Power
-104.00
dBm/1.23 MHz
Cell Band
US Cellular
Channel
384
Protocol Rev
6 (IS-2000)
Radio Config
(Fwd3, Rvs3)
S055 (Loopback)
FCH Service Option Setup
Calibrate Digital Avg Pwr
Active Cell
Connected
Sys Type: IS-2000
IntRef
Offset
1 of 2
1 of 3


Measurement/Instrument Screen
Control
Digital Average Power
Call Parms
Digital Average Power Setup
Digital Average Power
24.69 dBm
Expected Mobile Power: 23.00 dBm/1.23 MHz
Continuous
Cell Power
-104.00
dBm/1.23 MHz
Cell Band
US Cellular
Channel
384
Protocol Rev
6 (IS-2000)
Radio Config
(Fwd4, Rvs3)
S055 (Loopback)
FCH Service Option Setup
Calibrate Digital Avg Pwr
Active Cell
Connected
Sys Type: IS-2000
IntRef
Offset
1 of 2
1 of 3


Measurement/Instrument Screen
Control
Digital Average Power
Call Parms
Digital Average Power Setup
Digital Average Power
24.19 dBm
Expected Mobile Power: 23.00 dBm/1.23 MHz
Continuous
Cell Power
-104.00
dBm/1.23 MHz
Cell Band
US Cellular
Channel
777
Protocol Rev
6 (IS-2000)
Radio Config
(Fwd1, Rvs1)
SO2 (Loopback)
FCH Service Option Setup
Calibrate Digital Avg Pwr
Active Cell
Connected
Sys Type: IS-2000
IntRef
Offset
1 of 2
1 of 3


Measurement/Instrument Screen
Control
Digital Average Power
Call Parms
Digital Average Power Setup
Digital Average Power
24.16 dBm
Expected Mobile Power: 23.00 dBm/1.23 MHz
Continuous
Cell Power
-104.00
dBm/1.23 MHz
Cell Band
US Cellular
Channel
777
Protocol Rev
6 (IS-2000)
Radio Config
(Fwd2, Rvs2)
SO9 (Loopback)
FCH Service Option Setup
Calibrate Digital Avg Pwr
Active Cell
Connected
Sys Type: IS-2000
IntRef
Offset
1 of 2
1 of 3


Measurement/Instrument Screen
Control
Digital Average Power
Call Parms
Digital Average Power Setup
Digital Average Power
24.07 dBm
Expected Mobile Power: 23.00 dBm/1.23 MHz
Continuous
Cell Power
-104.00
dBm/1.23 MHz
Cell Band
US Cellular
Channel
777
Protocol Rev
6 (IS-2000)
Radio Config
(Fwd3, Rvs3)
S055 (Loopback)
FCH Service Option Setup
Calibrate Digital Avg Pwr
Active Cell
Connected
Sys Type: IS-2000
IntRef
Offset
1 of 2
1 of 3


Measurement/Instrument Screen
Control
Digital Average Power
Call Parms
Digital Average Power Setup
Digital Average Power
24.27 dBm
Expected Mobile Power: 23.00 dBm/1.23 MHz
Continuous
Cell Power
-104.00
dBm/1.23 MHz
Cell Band
US Cellular
Channel
777
Protocol Rev
6 (IS-2000)
Radio Config
(Fwd4, Rvs3)
S055 (Loopback)
FCH Service Option Setup
Calibrate Digital Avg Pwr
Active Cell
Connected
Sys Type: IS-2000
IntRef
Offset
1 of 2
1 of 3

§2.1049, §22.917, §22.905 - OCCUPIED BANDWIDTH

Applicable Standard

Requirements: CFR 47, Section 2.1049, Section 22.901, Section 22.917.

Test Procedure

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 30kHz and the 26 dB & 99% bandwidth was recorded.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
Agilent	Wireless communication test set	8960 E5515C	GB42431673	2007-01-18
Agilent	Spectrum Analysis	E4405B	MY41440292	2007-01-18

*** Statement of Traceability: ZTE Corporation Reliability Testing Center** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

Temperature:	20° C
Relative Humidity:	55%
ATM Pressure:	1018mbar

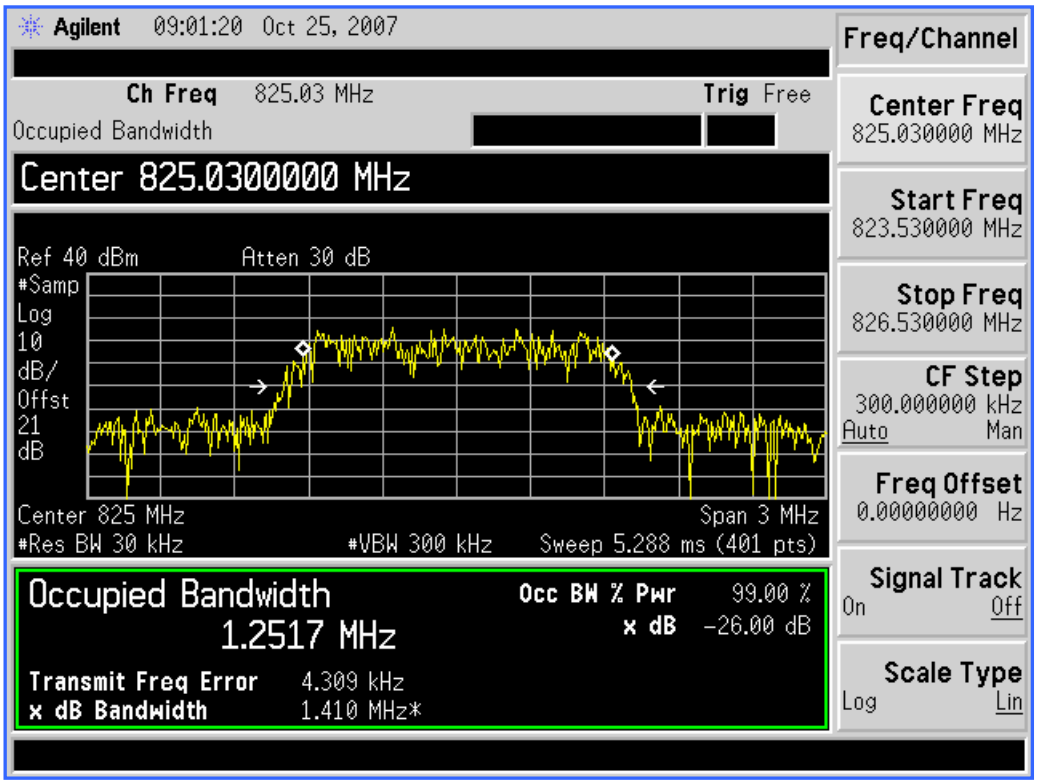
** The testing was performed by Jeff Zhang on 2007-10-24*

Test Results

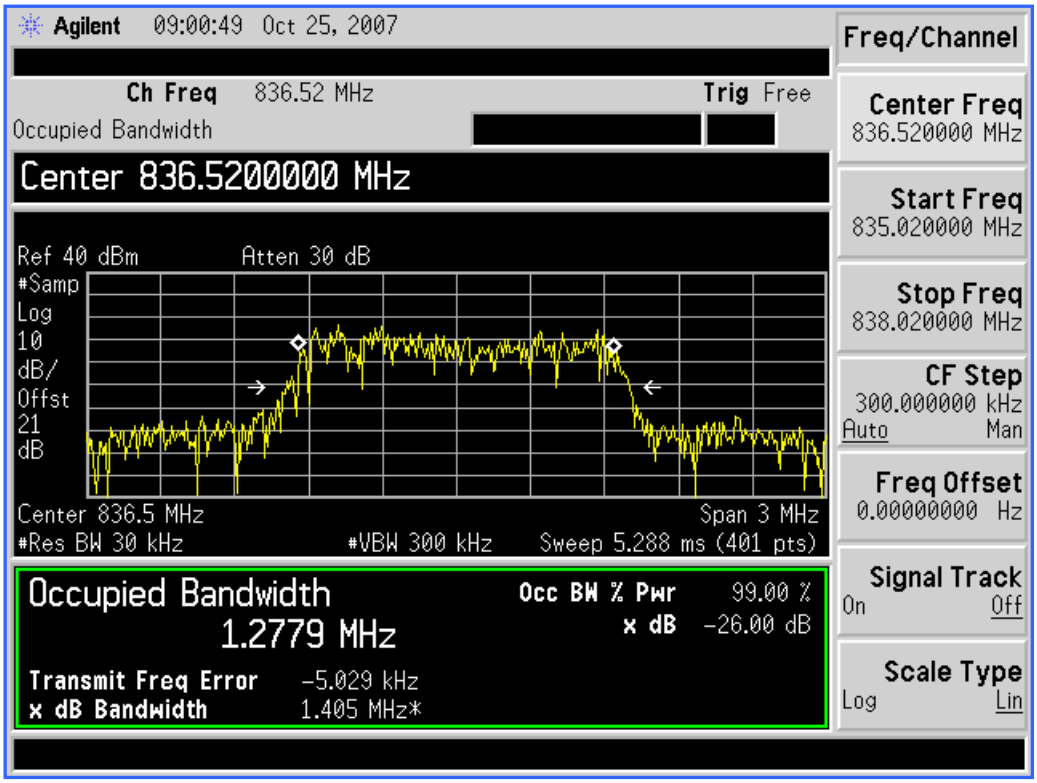
Channel	Frequency (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)
Low	825.03	1.2517	1.410
Mid	836.52	1.2779	1.405
High	848.31	1.2784	1.417

Please refer to the following plots.

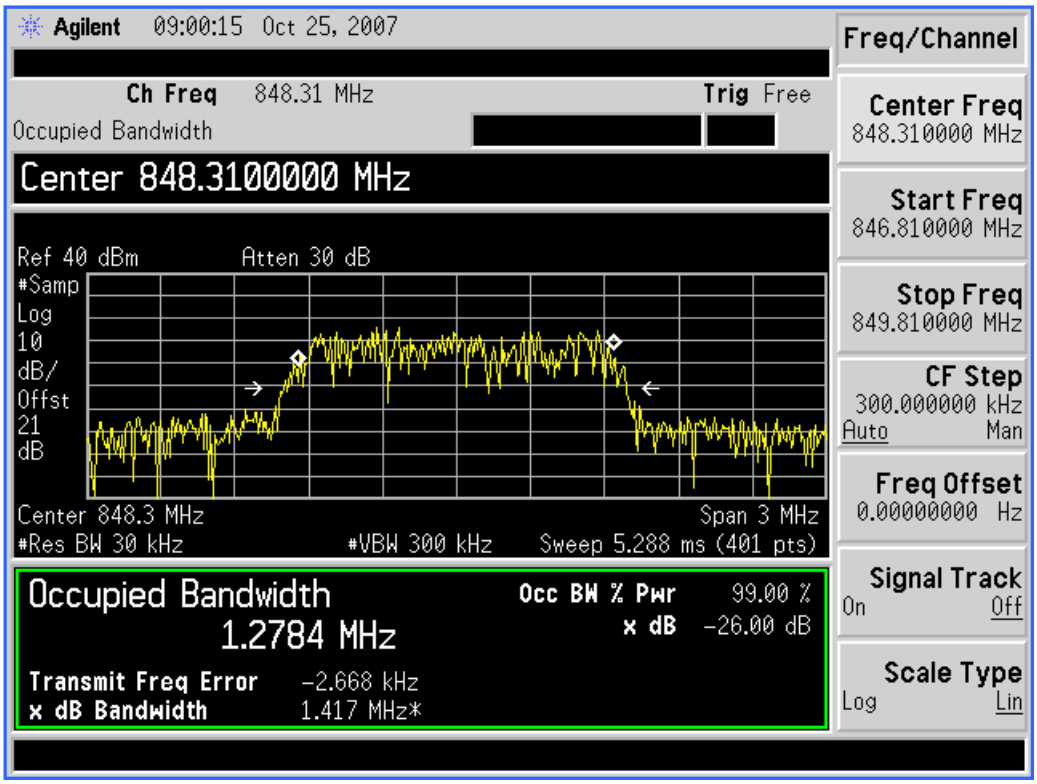
Low Channel



Mid Channel



High Channel



§2.1051, §22.917 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standard

Requirements: CFR 47, § 2.1051. § 22.917.

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1057.

Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz. Sufficient scans were taken to show any out of band emissions up to 10^{th} harmonic.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
Agilent	Wireless communication test set	8960 E5515C	GB42431673	2007-01-18
Agilent	Spectrum Analysis	E4405B	MY41440292	2007-01-18

*** Statement of Traceability: ZTE Corporation Reliability Testing Center** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

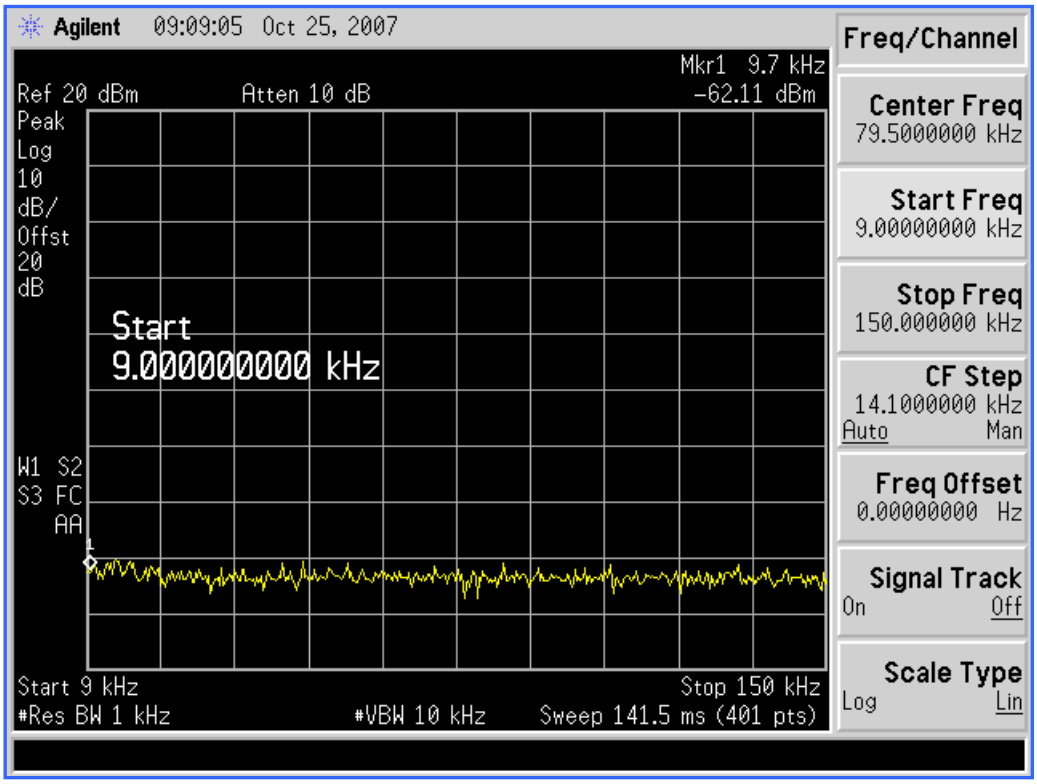
Environmental Conditions

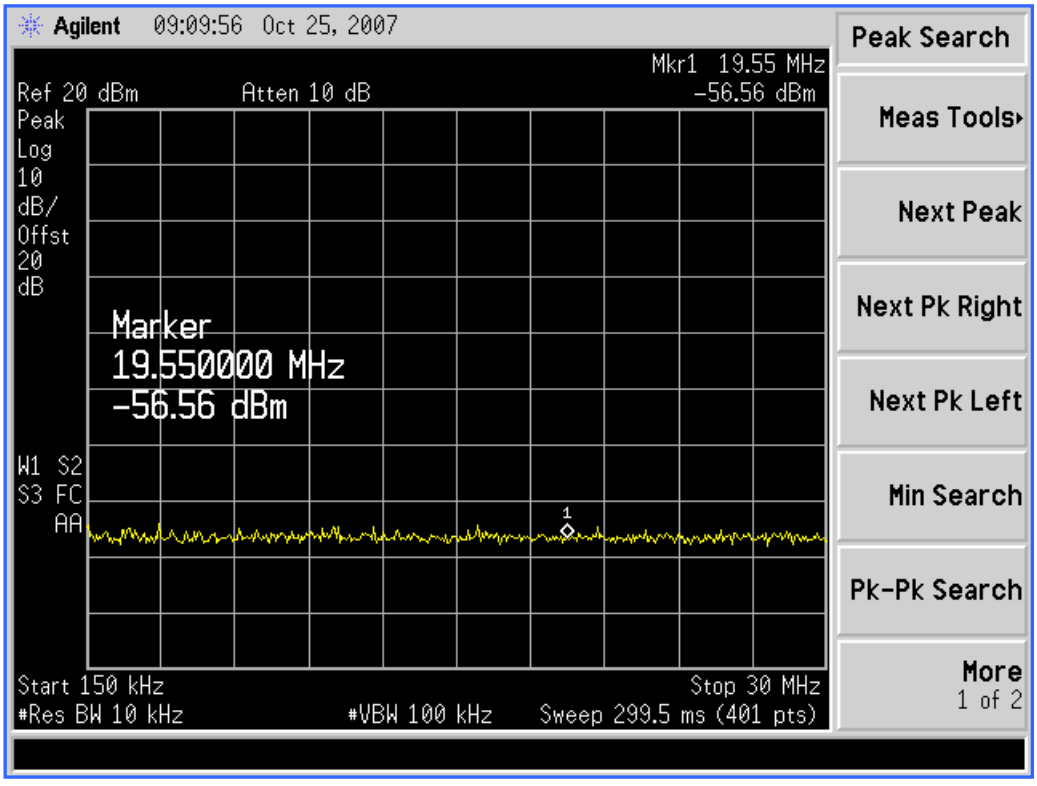
Temperature:	20° C
Relative Humidity:	55%
ATM Pressure:	1018mbar

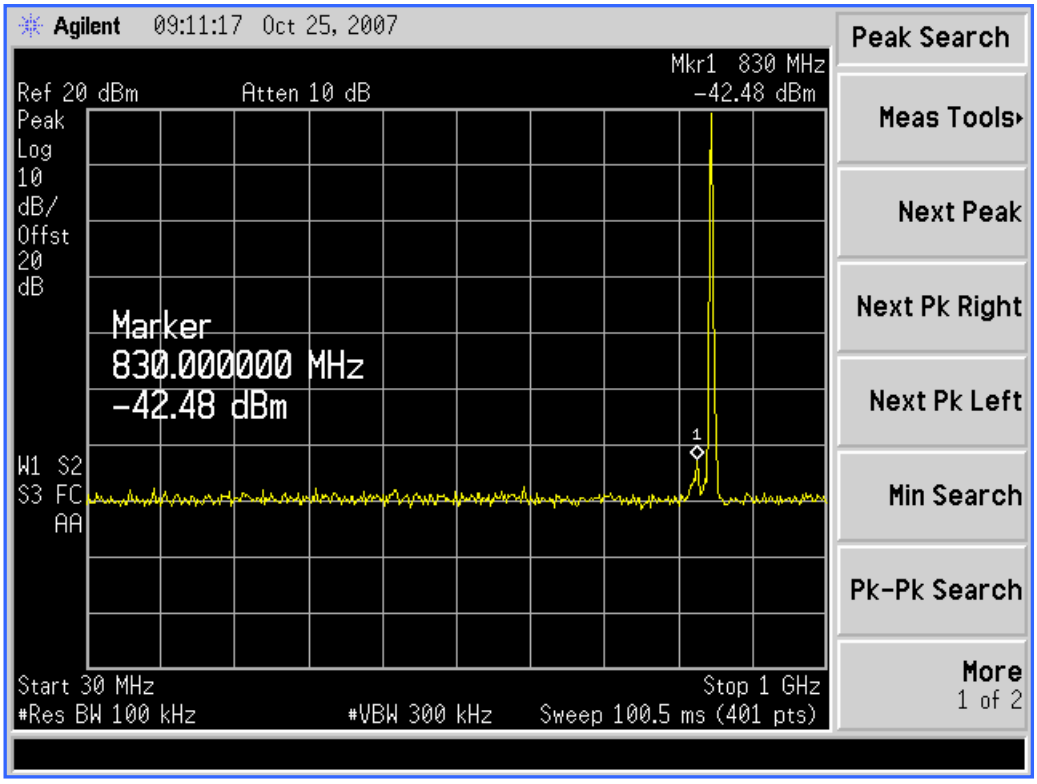
** The testing was performed by Jeff Zhang on 2007-10-24*

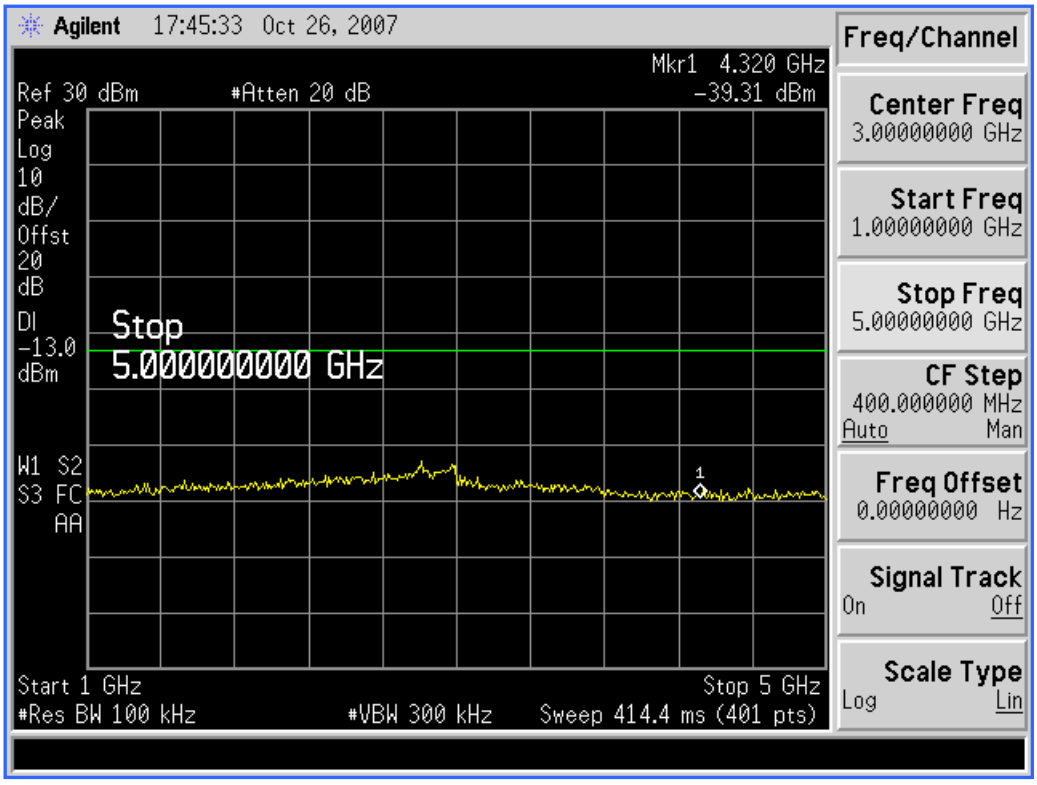
Test Results

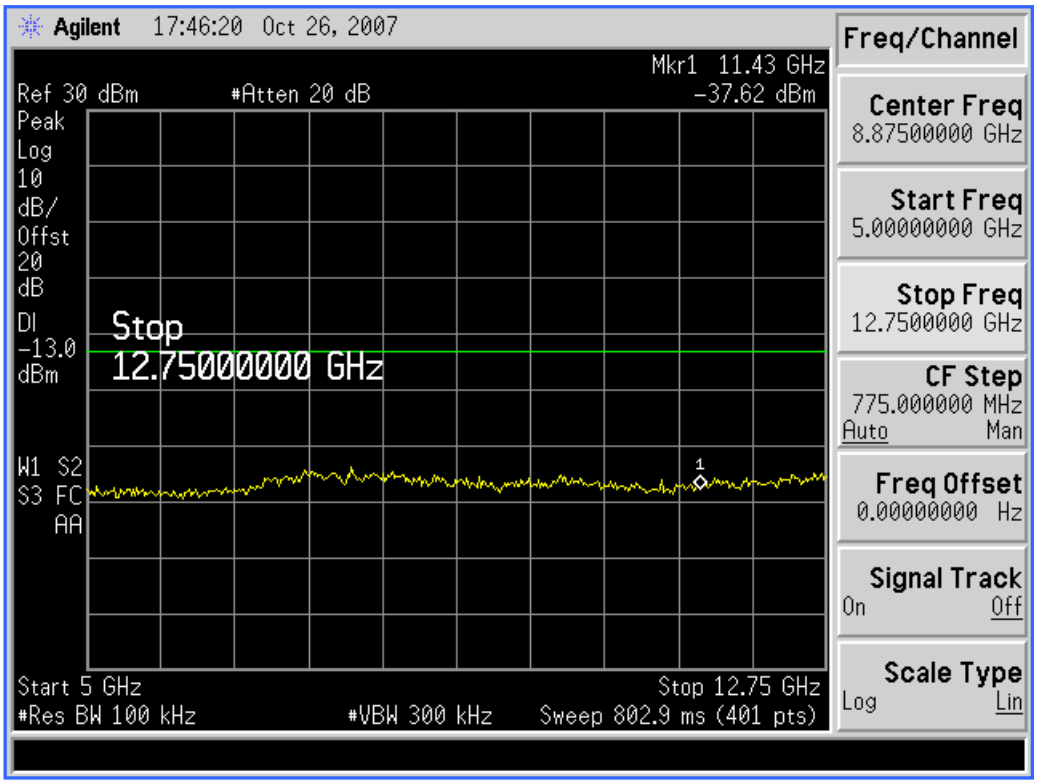
Please refer to the hereinafter plots. Channel 384


Agilent 09:09:05 Oct 25, 2007
Mkr1 9.7 kHz
Ref 20 dBm
Atten 10 dB
-62.11 dBm
Peak
Log
10
dB/
Offst
20
dB
Start
9.000000000 kHz
W1 S2
S3 FC
AA
Start 9 kHz
Stop 150 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 141.5 ms (401 pts)
Freq/Channel
Center Freq
79.5000000 kHz
Start Freq
9.00000000 kHz
Stop Freq
150.000000 kHz
CF Step
14.1000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin


Agilent 09:09:56 Oct 25, 2007
Mkr1 19.55 MHz
Ref 20 dBm
Atten 10 dB
-56.56 dBm
Peak
Log
10
dB/
Offst
20
dB
Marker
19.550000 MHz
-56.56 dBm
W1 S2
S3 FC
AA
Start 150 kHz
Stop 30 MHz
#Res BW 10 kHz
#VBW 100 kHz
Sweep 299.5 ms (401 pts)
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2


Agilent 09:11:17 Oct 25, 2007
Mkr1 830 MHz
Ref 20 dBm
Atten 10 dB
-42.48 dBm
Peak
Log
10
dB/
Offst
20
dB
Marker
830.000000 MHz
-42.48 dBm
W1 S2
S3 FC
AA
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2


Agilent 17:45:33 Oct 26, 2007
Mkr1 4.320 GHz
Ref 30 dBm
#Atten 20 dB
-39.31 dBm
Peak
Log
10
dB/
Offst
20
dB
Dl
-13.0
dBm
Stop
5.000000000 GHz
W1 S2
S3 FC
AA
Start 1 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5 GHz
Sweep 414.4 ms (401 pts)
Freq/Channel
Center Freq
3.00000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
5.00000000 GHz
CF Step
400.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Scale Type
Log Lin


Agilent 17:46:20 Oct 26, 2007
Mkr1 11.43 GHz
Ref 30 dBm
#Atten 20 dB
-37.62 dBm
Peak
Log
10
dB/
Offst
20
dB
Dl
-13.0
dBm
Stop
12.75000000 GHz
W1 S2
S3 FC
AA
Start 5 GHz
Stop 12.75 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 802.9 ms (401 pts)
Freq/Channel
Center Freq
8.87500000 GHz
Start Freq
5.00000000 GHz
Stop Freq
12.7500000 GHz
CF Step
775.000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

§2.1055 (a), §2.1055 (d), §22.355 - FREQUENCY STABILITY

Applicable Standard

Requirements: FCC § 2.1055 (a), § 2.1055 (d) & following:

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1_Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency range (MHz)	Mobile Base, fixed (ppm)	Mobile [le]3 watts (ppm)	[le]3 watts
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10.0	n/a	n/a

According to §24.235, The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
Agilent	Wireless communication test set	8960 E5515C	GB42431673	2007-01-18
Agilent	Spectrum Analysis	E4405B	MY41440292	2007-01-18
Wuxi	Temperature Oven	GDW-0100	G30064	2007-01-18

*** Statement of Traceability: ZTE Corporation Reliability Testing Center** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

Temperature:	20° C
Relative Humidity:	55%
ATM Pressure:	1018mbar

** The testing was performed by Jeff Zhang on 2007-10-25*

Test Results

Frequency Stability versus Temperature

Reference Frequency: 836.52 MHz, Limit: 2.5ppm				
Environment Temperature (°C)	**Power Supplied (VDC)**	**Measurement Results**		
		Frequency Error (Hz)	**Error (ppm)**	**Limit (ppm)**
50	3.7	4.1	0.005	2.5
40	3.7	-0.1	-0.0001	2.5
30	3.7	3.0	0.004	2.5
20	3.7	0.1	0.0001	2.5
10	3.7	3.5	0.004	2.5
0	3.7	2.4	0.003	2.5
-10	3.7	4.9	0.006	2.5
-20	3.7	1.3	0.002	2.5
-30	3.7	4.9	0.006	2.5

Frequency Stability versus Voltage

Reference Frequency: 836.52 MHz, Limit: 2.5ppm				
Environment Temperature (°C)	**Power Supplied (VDC)**	**Measurement Results**		
		Frequency Error (Hz)	**Error (ppm)**	**Limit (ppm)**
20	3.4	0.6	0.0007	2.5

§22.917 – BAND EDGE

Applicable Standard

According to § 22.917, 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.

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency, RBW set to 10 kHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
Agilent	Wireless communication test set	8960 E5515C	GB42431673	2007-01-18
Agilent	Spectrum Analysis	E4405B	MY41440292	2007-01-18

*** Statement of Traceability: ZTE Corporation Reliability Testing Center** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

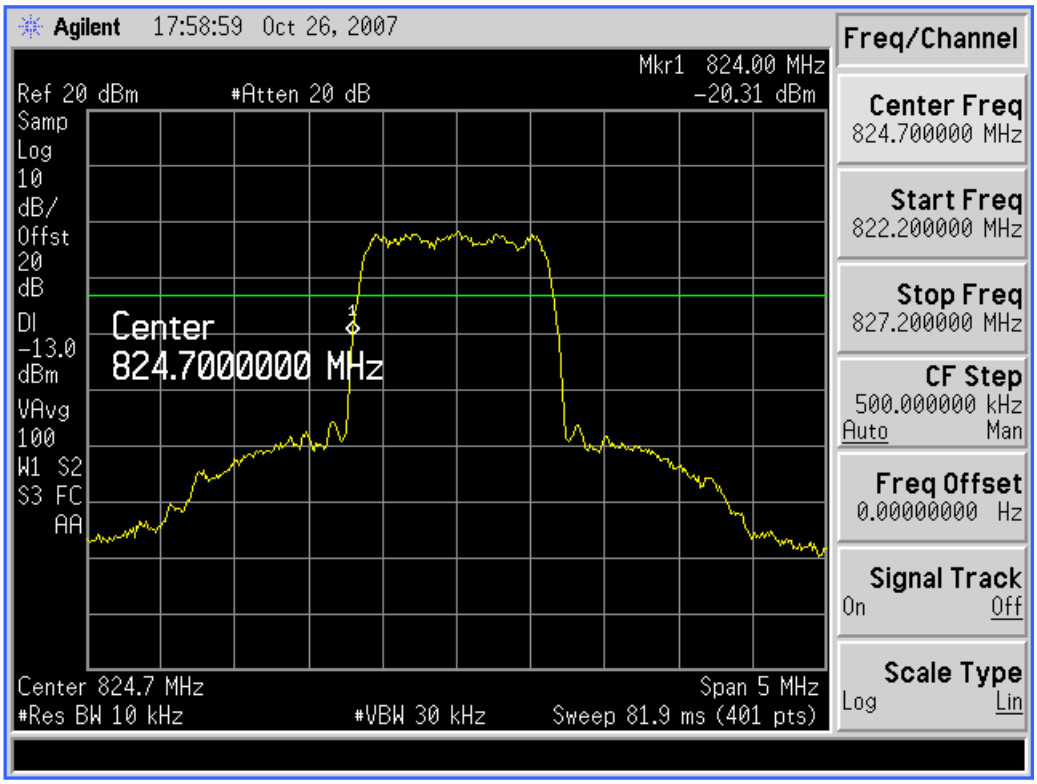
Temperature:	20° C
Relative Humidity:	55%
ATM Pressure:	1018mbar

** The testing was performed by Jeff Zhang on 2007-10-25*

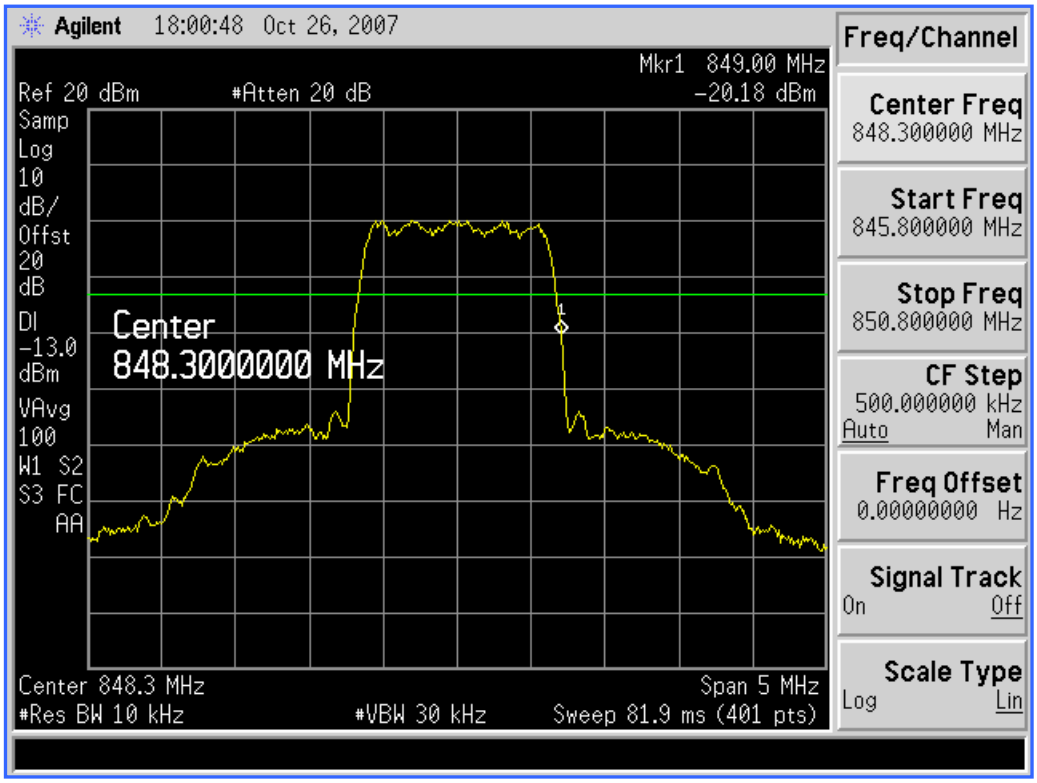
Test Results

Please refer to the following plots.

Lowest Channel



Highest Channel



§15.107 – Conducted Emission at AC power port

Applicable Standard

CFR47(FCC) Part 15.107

Limits

Compliance with part 15.107, conducted emission must meet the requirement of following table.

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

Note: * Decreases with the logarithm of the frequency.

Test Procedure

The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal reference ground plane. EUT was connected to LISN and LISN was connected to reference ground plane. EUT was 0.8m from LISN.

Conducted Disturbance at AC port measurements were undertaken on the L and N lines. The emissions were measured using a Quasi-Peak Detector and Average Detector.

The ZTE Mobile Phone C330 was communicated with the Universal radio communication tester through Air interface, the Universal radio communication tester controls the C330 to transmitter the maximum power which defined in specification of product. The Mobile Phone operated on the typical channel.

Measurement bandwidth (RBW) for 150 kHz to 30 MHz: 9 kHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
R & S	EMI Test Receiver 9kHz~2.75GHz	ESCS30	100068	2007-10-18
EMCO	LISN	4825/2	100022	2007-10-18
R&S	Pulse limiter 9kHz~30MHz	ESH3-Z2	100063	N/A
--	Cable	CE Cable	N/A	N/A

*** Statement of Traceability: ZTE Corporation Reliability Testing Center** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

Temperature:	22° C
Relative Humidity:	55%
ATM Pressure:	1018mbar

** The testing was performed by guan bin on 2007-10-25*

Measurement Results

Worst case reading as follows:

6.8 dB at 0.408557 MHz

Measurement Results: Quasi-Peak Detector

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line (L/N)	PE
0.173876	49.6	9.9	65	15.4	L1	FLO
0.185344	48.1	9.9	64	15.9	L1	FLO
0.410192	51	9.9	58	7.0	L1	FLO
0.15799	46.5	9.9	66	19.5	N	FLO
0.160533	46.5	9.9	65	18.5	N	FLO
0.16182	43.6	9.9	65	21.4	N	FLO

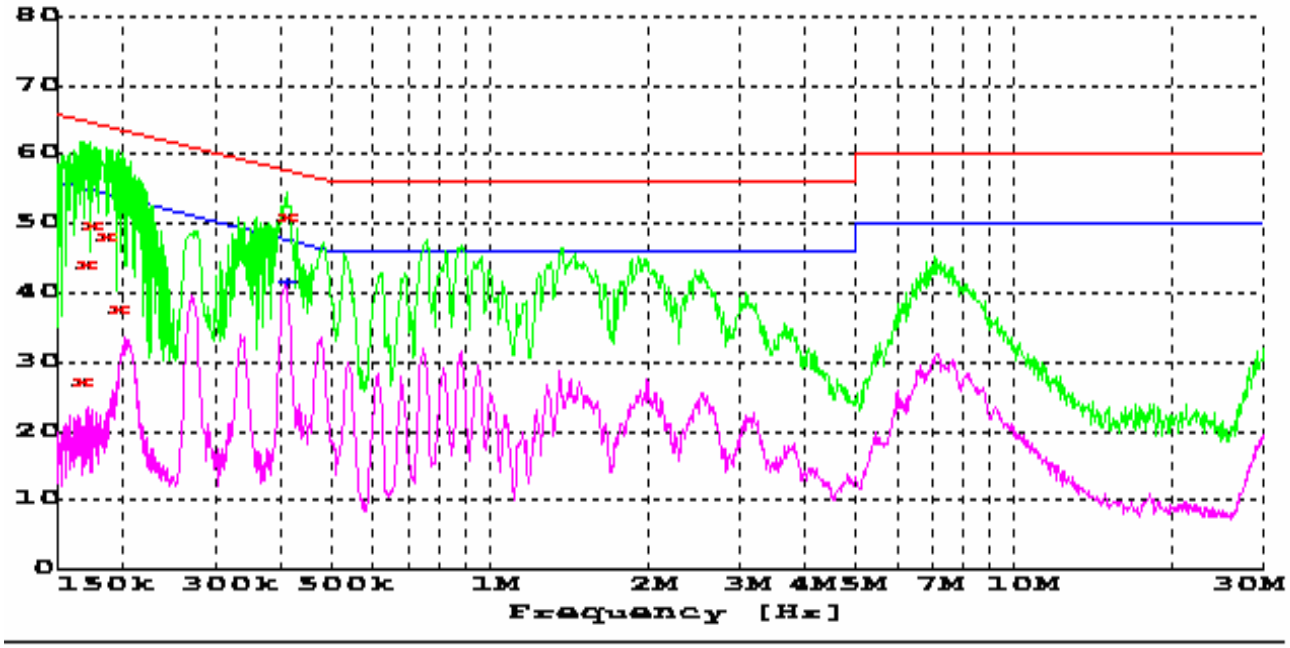
Measurement Results: Average Detector

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line (L/N)	PE
0.408557	41.20	9.9	48	6.8	L1	FLO

For measurement results refer to follows:

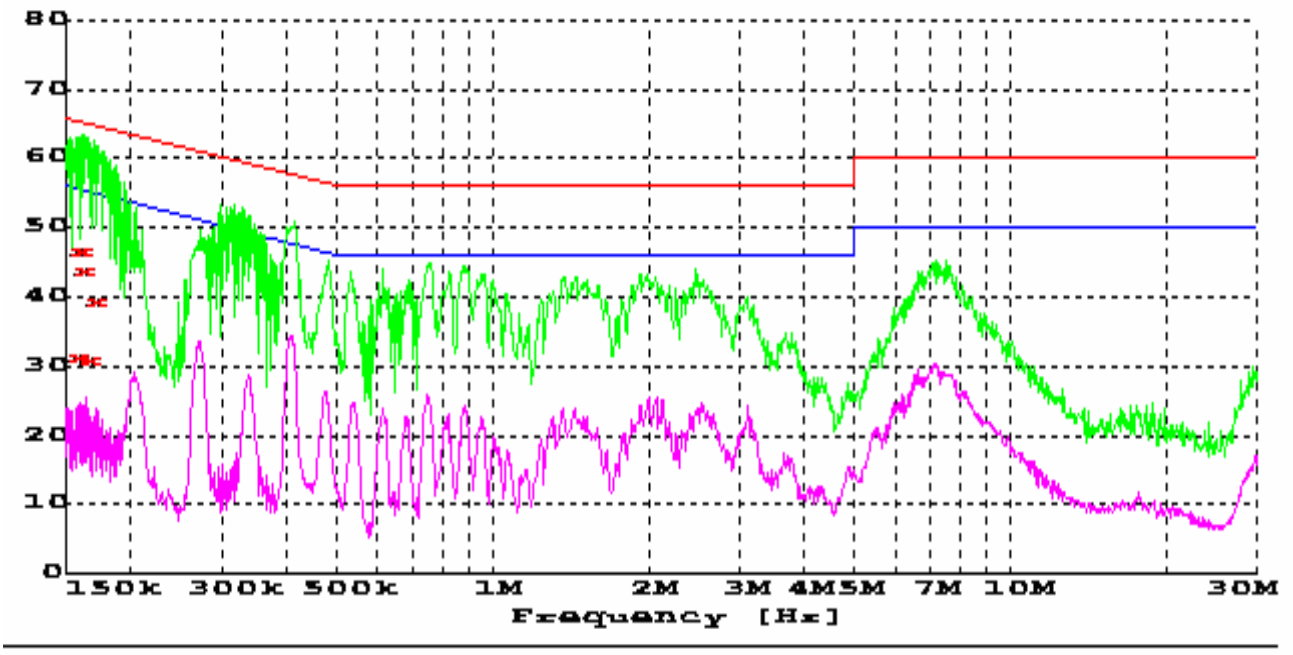
Conducted Disturbance at AC port measurements were undertaken on the L

Level (dBµV)



Conducted Disturbance at AC port measurements were undertaken on the N

Level (dBµV)



§15.109 –Radiated Emission of Enclosure

Applicable Standard

CFR47(FCC) Part 15.109

Limits

The Radiated Emission of enclosure of EUT should compliance with the requirement of part15.109. The limit showed in following table.

Frequency of Emission (MHz)	Radiated Limit	
	Unit(μv/m)	Unit(dBμV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
960-1000	500	54

Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4(2003). The test distance was 3m. The EUT was set-up on insulator 0.8m above the Metallic Turntable

The radiated disturbance measurements were made using a Rohde and Schwarz ESI Test Receiver and control software ES-K1.

A preliminary scan and a final scan of the emissions were made form 30MHz to 1GHz by using test script of software; the emissions were measurement using a Quasi-Peak detector. The maximal emission value was acquired by adjusting the antenna height, polarization and turntable azimuth in accordance with the software setup. Normally, the height range of antenna was 1m to 4m, the azimuth range of turntable was 0° to 360°.The receive antenna has two polarizations V and H.

The ZTE Mobile Phone C330 was communicated with the Universal radio communication tester through Air interface, the Universal radio communication tester controls the C330 to transmitter the maximum power which defined in specification of product. The Mobile Phone operated on the typical channel.

Measurement bandwidth (RBW) for 30MHz to 1000 MHz: 120kHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
R&S	EMI Test Receiver 20Hz～26.5GHz	ESI26	100058	*2007-10-25*
R&S	Log periodic Antenna 30～3000MHz	HL562	100022	*2007-3-7*
R&S	Cable Set Up to 18Ghz	RF Cable	N/A	*N./A*
Albatross	Anechoic Chamber 3m site	3m site	N/A	*2007-5-14*
R&S	Software	ES-K1	N/A	*N/A*
Agilent	Universal radio communication tester	8960	GB42431673	*2007-01-18*

*** Statement of Traceability: ZTE Corporation Reliability Testing Center** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	57%
ATM Pressure:	1016mbar

** The testing was performed by guan bin on 2007-10-23*

Measurement Results

Worst case reading as follows:

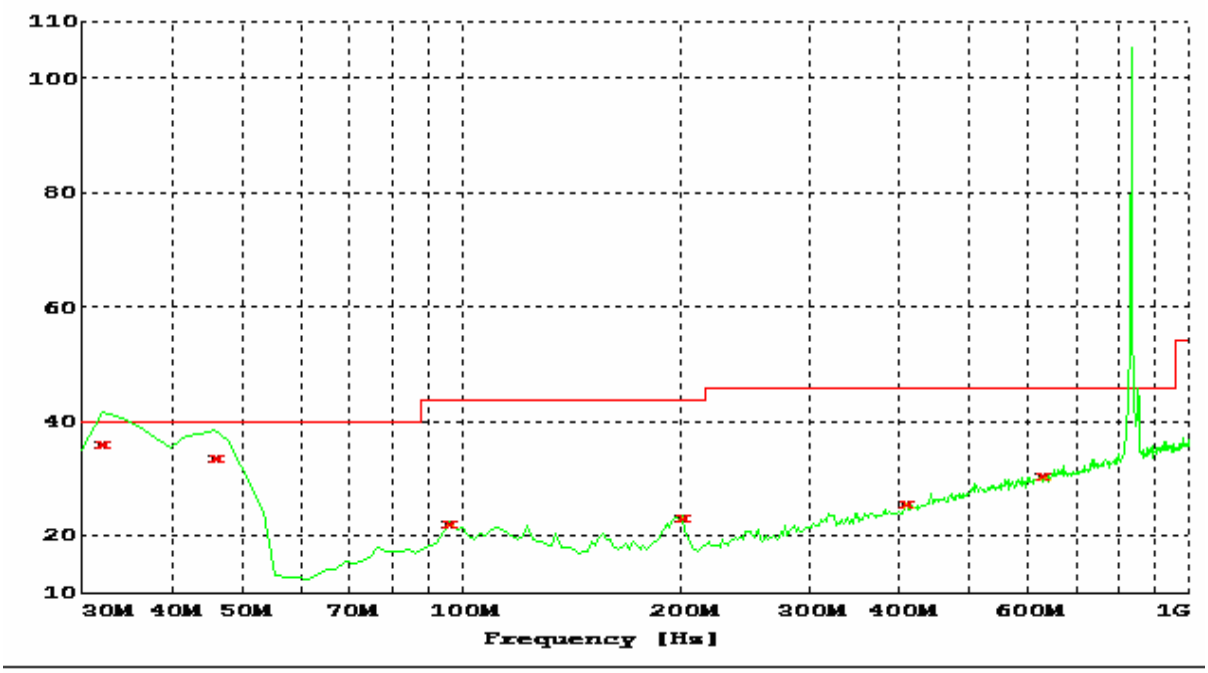
3.3 dB at 632.6052 MHz

Measurement Results: Quasi-Peak Detector

Frequency (MHz)	Level (dBμV/m)	Azimuth Deg	Height (cm)	Polarization (H/V)	Transd (dB)	Limit (dBμV/m)	Margin (dB)
32.02	36.02	137	100	VER	-6.6	40	4
45.835671	33.58	101	100	VER	-15.3	40	6.5
632.60521	30.42	307	100	VER	-3.3	46	15.6
30	26.57	240	200	HOR	-5.6	40	13.4
197.174349	24.29	95	200	HOR	-16.1	43.5	19.2
584.008016	30.95	283	100	HOR	-4.2	46	15

The polarizations of receive antenna polarizations is Vertical

Level (dBμV/m)



The polarizations of receive antenna polarizations is Horizontal

Level (dBμV/m)