

FCC PART 22 TYPE APPROVALS EMI MEASUREMENT AND TEST REPORT

For

Hisense Communication Co., Ltd.

Hisense Information Industrial Park,
Economic and Technology Development District,
Qingdao 26651, Shandong, China

FCC ID: SARHISENSEC306
MODEL: HS-C306

<p>This Report Concerns: <input checked="" type="checkbox"/> Original Report</p>	<p>Equipment Type: 800MHz CDMA1X Cellular Phone</p>
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<p>Report Number: R0703085</p>	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Hisense Communication's product, FCC ID: SARHISENSEC306 model: HS-C306 or the "EUT" as referred to in this report is a 3G 800 MHz CDMA-1X Cellular Telephone.

Item	Content
Mode	CDMA
Frequency Bands	Tx: 824 ~ 849 MHz Rx: 869 ~ 894 MHz
Dimensions (L*W*D)	88 mm×47 mm×17 mm
Weight	79 g
Working temperature	-20 ~ +50 °C
Storage temperature	-30 ~ +60 °C
Relative humidity	5% ~ 95%
Frequency accuracy	<± 300 Hz
Wave quality factor	>0.99
Channel bandwidth	1.25 MHz
Battery capacity	900 mAh

* The test data gathered are from typical production sample, serial number: 071066 provided by the manufacturer.

EUT Photo



For Additional Photos please see Exhibit C

Objective

This type approval report is prepared on behalf of *Hisense Communication* 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, and band edge.

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

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

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

Test Facility

The Test site used by BACL Corp. to collect radiated and conducted emission measurement data is located in the chamber of the building at 1274 Anvilwood Ave. Sunnyvale, California 94089, USA with registration number: 90464.

Test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the test methods and procedures set forth in ANSI C63.4-2003 & TIA/EIA-603C.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-1298 and R-1234. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200167-0). The current scope of accreditations is attached hereinafter and can also be found at <http://ts.nist.gov/ts/htdocs/210/214/scopes/2001670.htm>

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.

Block Diagram

Please refer to Exhibit D.

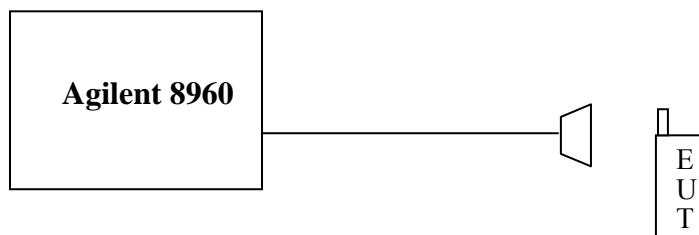
Equipment Modifications

No modifications were made to the EUT.

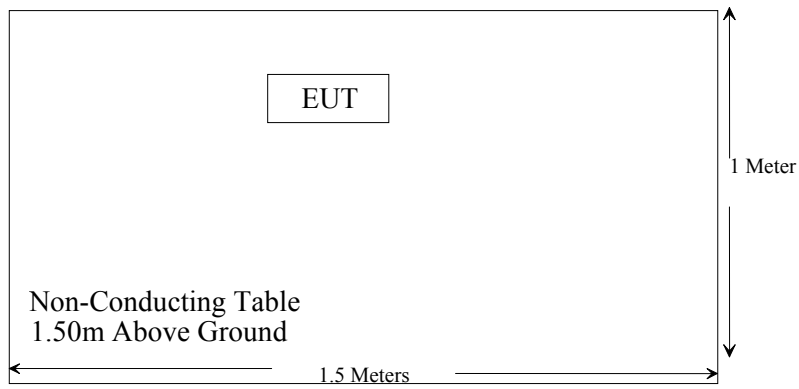
Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
Agilent	Communication test set	8960	GB44051221	DOC

Configuration of Test System



Test Setup Block Diagram



SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§ 2.1047	Modulation Characteristics	Compliant
§2.1093	RF Exposure	SAR report
§ 2.1046, § 22.912 (d)	RF Output Power	Compliant
§ 2.1053	Field Strength of Spurious Radiation	Compliant
§ 15.109	Radiated Emission Limits	Compliant
§ 15.107	Conducted Limits	Compliant
§ 2.1051, § 22.917	Spurious Emissions at Antenna Terminals	Compliant
§ 2.1049 § 22.917 § 22.905	Out of Band Emission, Occupied Bandwidth	Compliant
§ 2.1055 (a) § 2.1055 (d) § 22.355	Frequency stability vs. temperature Frequency stability vs. voltage	Compliant
§ 22.917	Band Edge	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.

§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	Calibration Date
Agilent	Analyzer, Communications	E5515C	GB44051221	2006-08-08
Agilent	Analyzer, Spectrum	E4446A	US44300386	2006-03-26
Sonoma Instrument	Amplifier (10 KHz – 2500 MHz)	317	260407	2006-03-20
Rohde & Schwarz	Generator, Signal	SMIQ03	849192/0085	2006-10-18
A. H. Systems	Antenna, Horn, DRG	SAS-200/571	261	2005-08-17 (2yrs)
SPEAG	Antenna Dipole	D900V2	122	2006-06-16

* **Statement of Traceability:** **BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

Temperature:	25° C
Relative Humidity:	55%
ATM Pressure:	1018mbar

* *The testing was performed by James Ma on 2007-03-19*

Test Results

Channel	Radio Configuration and Conducted Power (dBm)				
	RC1	RC2	RC3	RC4	RC5
824.7 MHz	23.15	23.22	23.36	23.11	23.32
836.5 MHz	23.20	23.33	23.68	23.17	23.38
848.3 MHz	23.32	23.38	23.58	23.46	23.30

Based on the above results from the different radio configuration, RC3 is the worst case for all measurements.

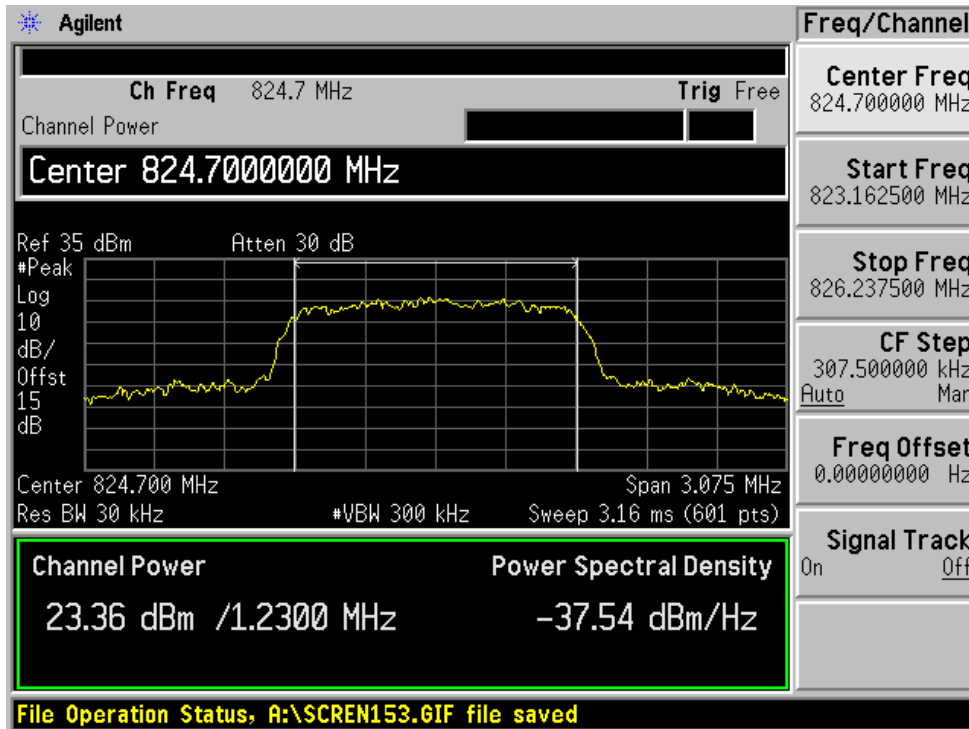
ERP:

Indicated		Table Angle	Test Antenna		Substituted				ERP Level (dBm)	ERP Limit (dBm)	Margin (dB)
Frequency (MHz)	Amplitude (dBμV)	Degree	Height Meter	Polar. H/V	Frequency (MHz)	Level (dBm)	Antenna Correction	Cable Loss (dB)			
836.52	95.60	330	1.0	V	836.52	25.4	0.0	0.8	24.6	38.45	-13.9
836.52	93.20	300	1.3	H	836.52	22.1	0.0	0.8	21.3	38.45	-17.2

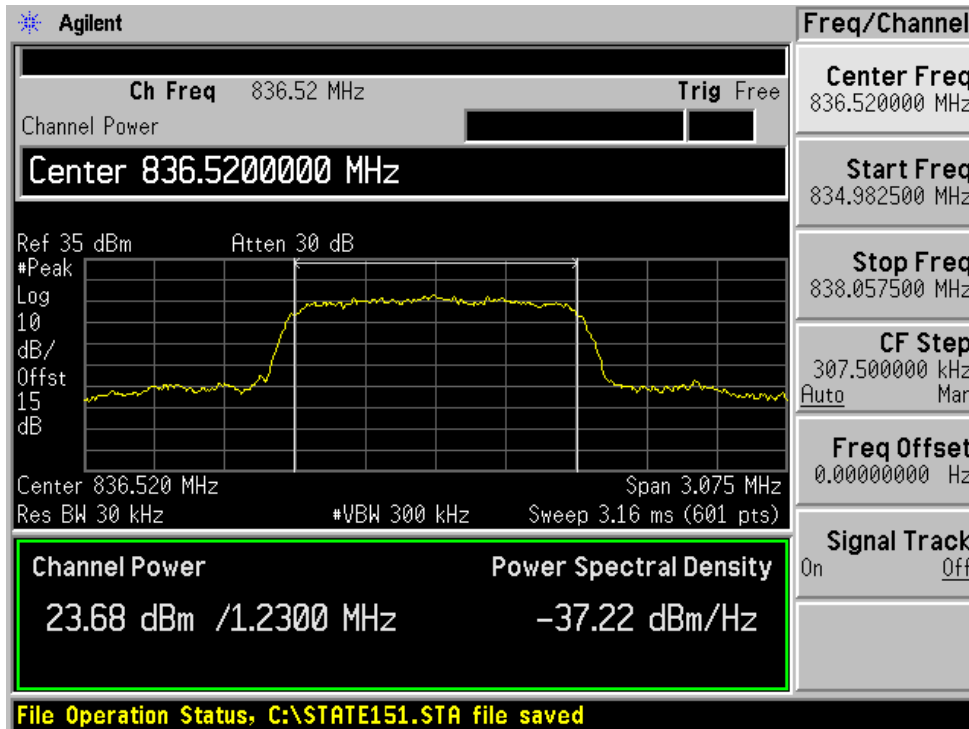
Note: Measured at 3 meter and Without Pre- Amp

Plots of Conducted Output RF Power for RC3

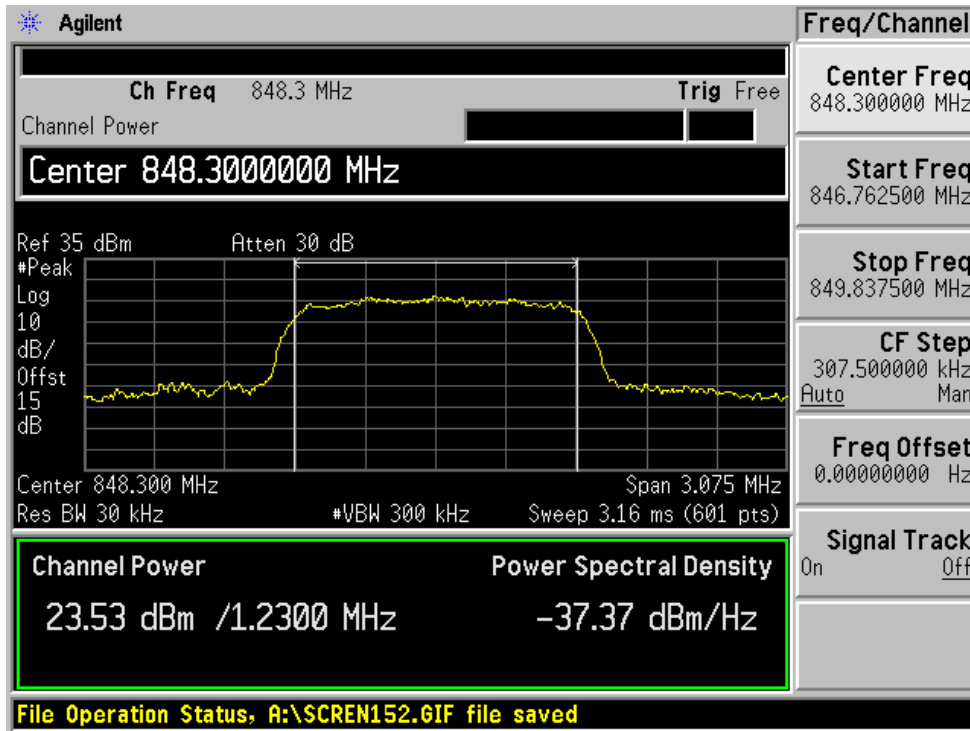
824.7 MHz



836.52 MHz



848.3 MHz



§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 non-radiating 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 lg (TXpwr in Watts/0.001) – the absolute level

Spurious attenuation limit in dB = 43 + 10 Log₁₀ (power out in Watts)

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date
Agilent	Analyzer, Communications	E5515C	GB44051221	2006-08-08
Agilent	Analyzer, Spectrum	E4446A	US44300386	2006-03-26
HP	Amplifier, Pre, Microwave (1- 26.5 GHz)	8449B	3147A00400	2006-08-21
Rohde & Schwarz	Generator, Signal	SMIQ03	849192/0085	2006-10-18
HP	Generator, Signal	83650B	3614A00276	2005-05-10 (2 yrs)
A. H. Systems	Antenna, Horn, DRG	SAS-200/571	261	2005-08-17 (2yrs)
A.R.A.	Antenna, Horn	DRG-118/A	1132	2005-08-17 (2yrs)

* **Statement of Traceability: BACL Corp.** 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 James Ma on 2007-03-19*

Test Result

Worst case reading as follows:

-42.3 dB at 2509.56 MHz

TX Spurious Emission scan 30 MHz – 9 GHz (TX) Middle channel (836.52MHz)

Indicated		Table Angle	Test Antenna		Substituted				Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Frequency (MHz)	Ampl. (dBμV)		Height (m)	Polar. (H/V)	Frequency (MHz)	Level (dBm)	Ant. Correction (dB)	Cable Loss (dB)			
2509.56	44.10	180	1.7	V	2509.56	-62.70	9.3	1.9	-55.3	-13	-42.3
2509.56	42.30	200	1.5	H	2509.56	-63.50	9.3	1.9	-56.1	-13	-43.1
3346.08	37.20	180	1.3	V	3346.08	-64.30	10.0	2.2	-56.5	-13	-43.5
3346.08	37.00	0	1.4	H	3346.08	-65.10	10.0	2.2	-57.3	-13	-44.3
1673.04	45.40	300	1.6	V	1673.04	-66.50	9.3	1.5	-58.7	-13	-45.7
1673.04	39.30	220	1.8	H	1673.04	-67.20	9.3	1.5	-59.4	-13	-46.4

Note: Measured at 3 meters.

§15.109 - RADIATED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are receiver, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, the Treatment of Uncertainty in EMI Measurements, the best estimate of the uncertainty of a radiation emission measurement at BACL is ± 4.0 dB.

EUT Setup

The radiated emission tests were performed in the 10 meter chamber site by using the setup in accordance with the ANSI C63.4-2003. The specification used was the FCC15 Class B.

The charger of EUT was connected to 120VAC/60Hz power source.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date
Sonoma Instruments	Pre amplifier	317	260407	2006-03-20
Agilent	Pre amplifier	8449B	3008A01978	2006-08-21
Sunol Science Corp	Combination Antenna	JB3 Antenna	A020106-3	2006-03-24
Rohde & Schwarz	EMI Test Receiver	ESCI 1166.595 0K03	20-174821	2006-03-24
Sunol Science Corp	System Controller	SC99V	113005-1	NA

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Test Procedure

For the radiated emissions test, the EUT all support equipment were connected to the AC outlet on the turntable.

Maximizing procedure was performed on the six (6) highest emissions in the described configurations.

All data were recorded in the peak detection mode. Quasi-peak readings were distinguished with a "QP" in the data table and performed only when an emission was found to be marginal (within -4 dB of specification limits).

Environmental Conditions

Temperature:	24°C
Relative Humidity:	34 %
ATM Pressure:	1020 mbar

*Testing was performed by James Ma 2007-03-19.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor, and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

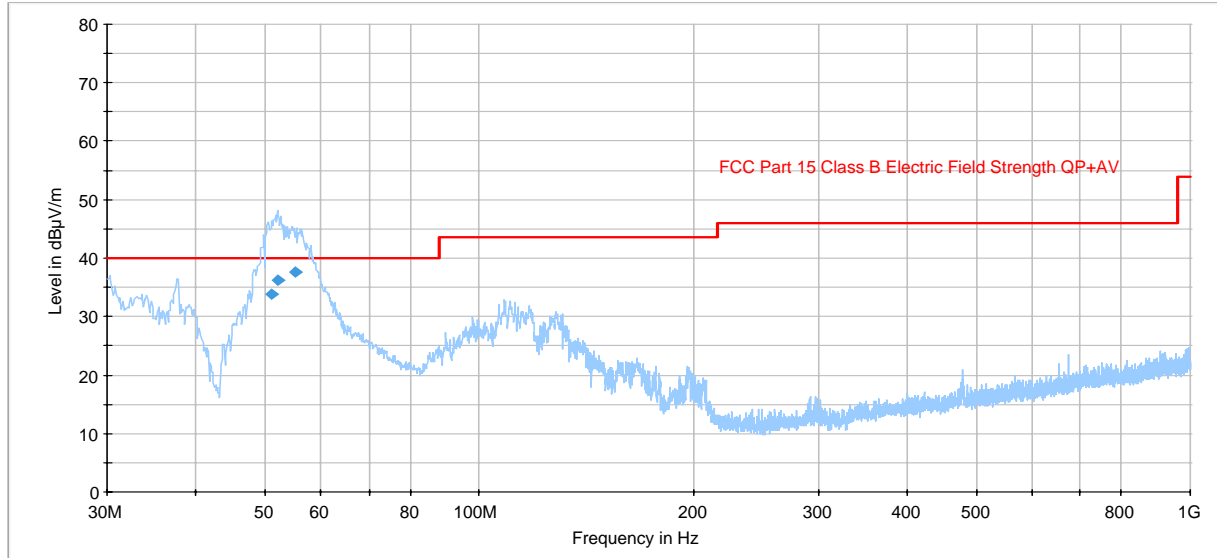
Summary of Test Results

According to the data in the following table, the EUT complied with the FCC Part 15 Class B standards and the test results are deemed satisfactory evidence of compliance displaying the worst margin of:

-2.5 dB at 55.09375 MHz in the Vertical polarization.

Radiated Emissions Test Data @ 3m Distance

30 – 1000 MHZ



Frequency (MHz)	Quasi Peak (dBµV/m)	Antenna Height (cm)	Polarity	Turntable position (deg)	Correction value (dB)	Limit (dBµV/m)	Margin (dB)
55.093750	37.5	123.0	V	348.0	-28.9	40.0	-2.5
52.067500	36.2	127.0	V	338.0	-28.7	40.0	-3.8
51.092500	33.8	164.0	V	69.0	-28.6	40.0	-6.3

§15.107 - CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are receiver, cable loss, and LISN.

Based on NIS 81, the Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emission measurement at BACL is ± 2.4 dB.

EUT Setup

The measurements were performed in the shielded room by using the same setup per ANSI C63.4-2003 measurement procedure. The specification used was FCC 15 Class B limits.

The adaptor of EUT was connected to 120VAC/60 Hz power source.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date
Rohde & Schwarz	Artificial-Mains Network	ESH2-Z5	871884/039	2006-11-14
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2006-03-23
EM Test	Coupling and De-coupling Networks	T8RJ45	0504-01	2006-08-05

* **Statement of Traceability:** BACL Corp. attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the power cord of the EUT was connected to the main outlet of the LISN-1, and the power cord of the monitor and modem were connected to the LISN-2.

Maximizing procedure was performed on the twelve (12) highest provided emissions of the EUT. All data were recorded in the peak detection mode, quasi-peak and average. Average readings are distinguished with an "Ave" when Quasi-Peak readings are distinguished with a "QP".

Environmental Conditions

Temperature:	23°C
Relative Humidity:	35 %
ATM Pressure:	1019 mbar

*Testing was performed by James Ma 2007-03-19.

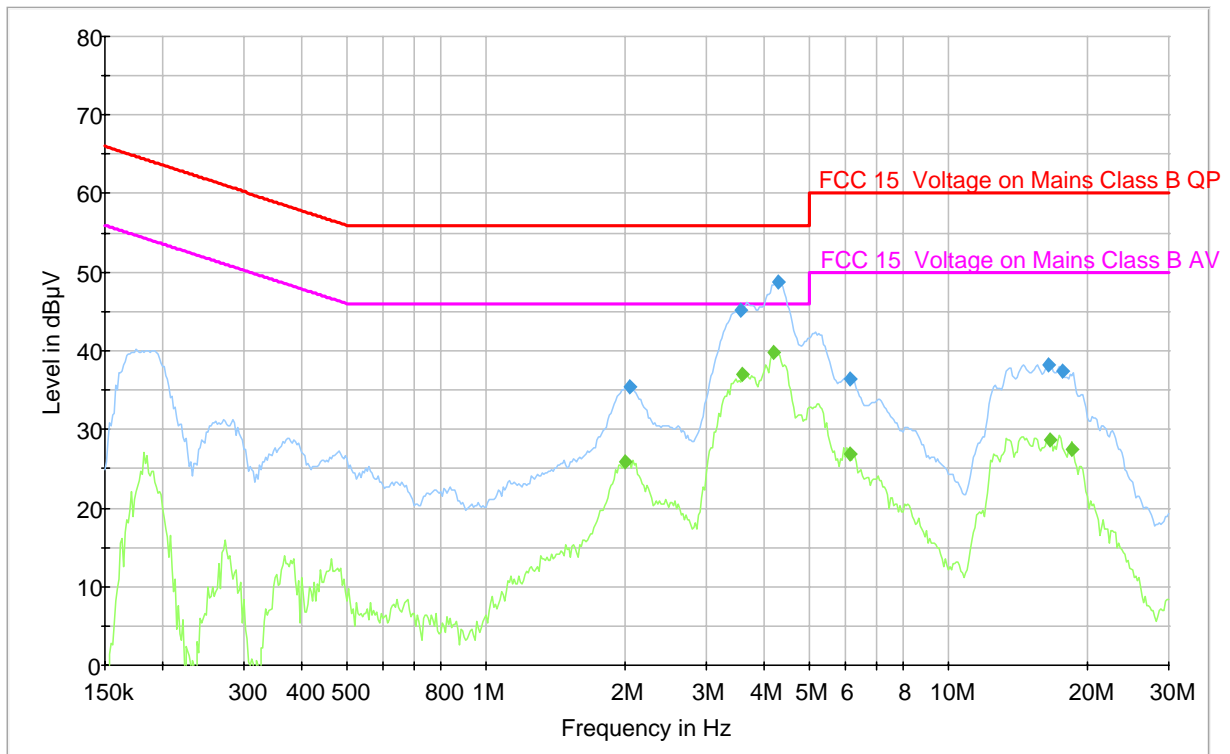
Test Results Summary

According to the recorded data in the following tables, the EUT complied with the FCC 15 Class B conducted limits for a Class B device, with the worst margin reading of:

-6.2 dB at 4.193660 MHz in the **Line** conductor mode.

Conducted Emissions Test Plots and Data

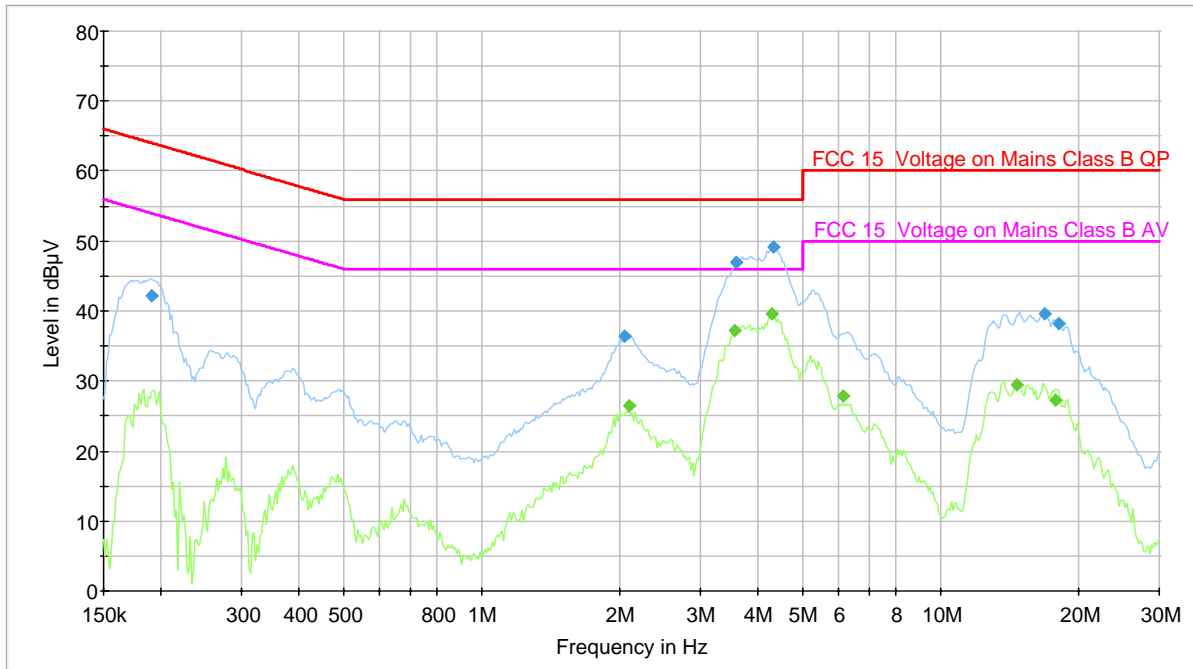
120V/60H – Line



Frequency (MHz)	Quasi Peak (dBµV)	Line	Corrected Reading (dB)	Limit (dBµV)	Margin (dB)
4.29512	48.7	L1	0.3	56.0	-7.3
3.54750	45.2	L1	0.3	56.0	-10.8
2.04713	35.3	L1	0.2	56.0	-20.7
16.51221	38.3	L1	0.4	60.0	-21.7
17.73985	37.4	L1	0.5	60.0	-22.6
6.14751	36.5	L1	0.3	60.0	-23.6

Frequency (MHz)	Average (dBµV)	Line	Corrected Reading (dB)	Limit (dBµV)	Margin (dB)
4.19366	39.8	L1	0.3	46.0	-6.2
3.57588	37.1	L1	0.3	46.0	-8.9
1.99878	25.8	L1	0.2	46.0	-20.2
16.64431	28.6	L1	0.5	50.0	-21.4
18.46089	27.4	L1	0.5	50.0	-22.6
6.14751	26.9	L1	0.3	50.0	-23.1

120V/60H – Neutral



Frequency (MHz)	Quasi Peak (dBµV)	Line	Corrected Reading (dB)	Limit (dBµV)	Margin (dB)
4.32948	49.2	N	0.3	56.0	-6.8
3.57588	46.9	N	0.3	56.0	-9.1
2.04713	36.5	N	0.2	56.0	-19.5
16.91168	39.6	N	0.6	60.0	-20.4
0.19051	42.3	N	0.2	64.0	-21.8
18.02482	38.2	N	0.4	60.0	-21.8

Frequency (MHz)	Average (dBµV)	Line	Corrected Reading (dB)	Limit (dBµV)	Margin (dB)
4.29512	39.5	N	0.3	46.0	-6.5
3.54750	37.3	N	0.3	46.0	-8.7
2.09666	26.5	N	0.2	46.0	-19.5
14.65201	29.4	N	0.5	50.0	-20.6
6.14751	27.9	N	0.3	50.0	-22.1
17.88177	27.2	N	0.4	50.0	-22.8

§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 10th harmonic.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date
Agilent	Analyzer, Communications	E5515C	GB44051221	2006-08-08
Agilent	Analyzer, Spectrum	E4446A	US44300386	2006-03-26

* **Statement of Traceability: BA CL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

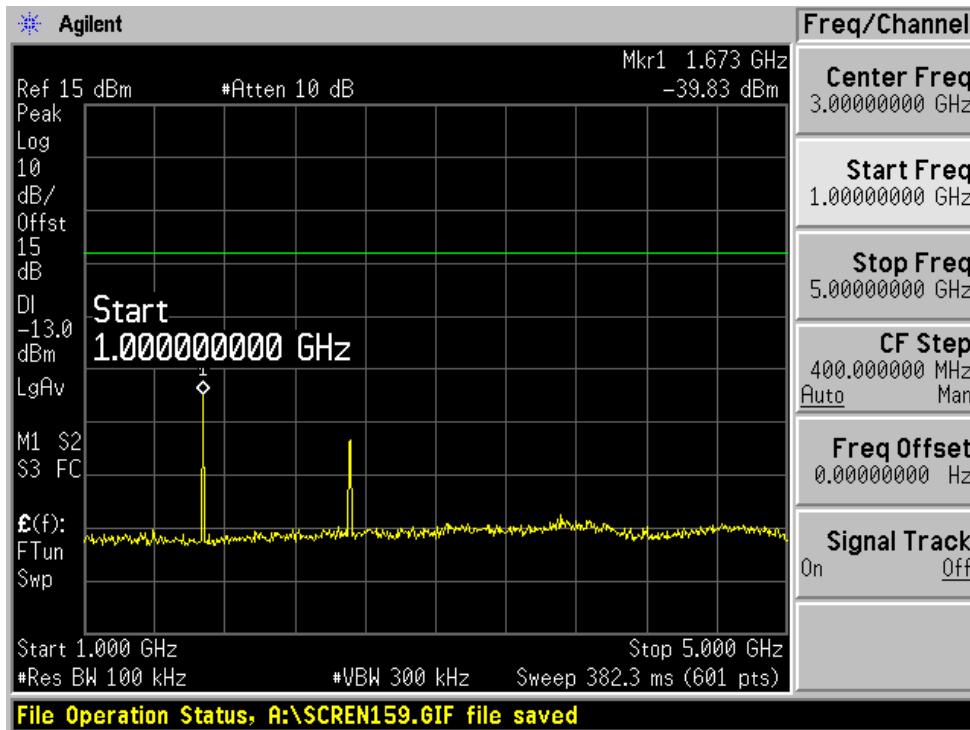
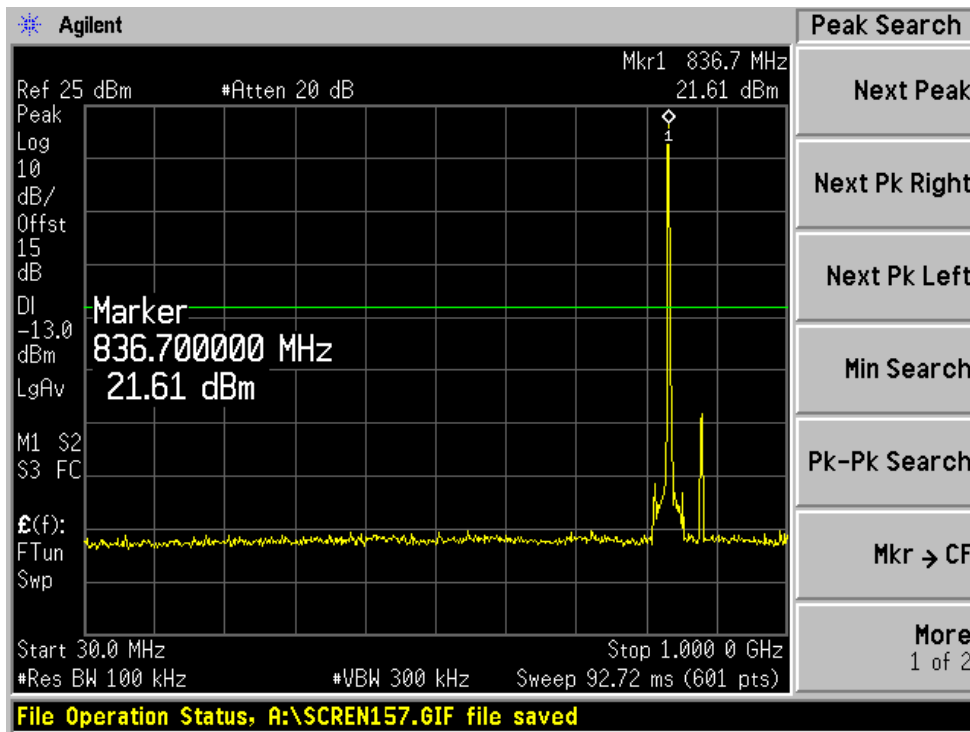
Environmental Conditions

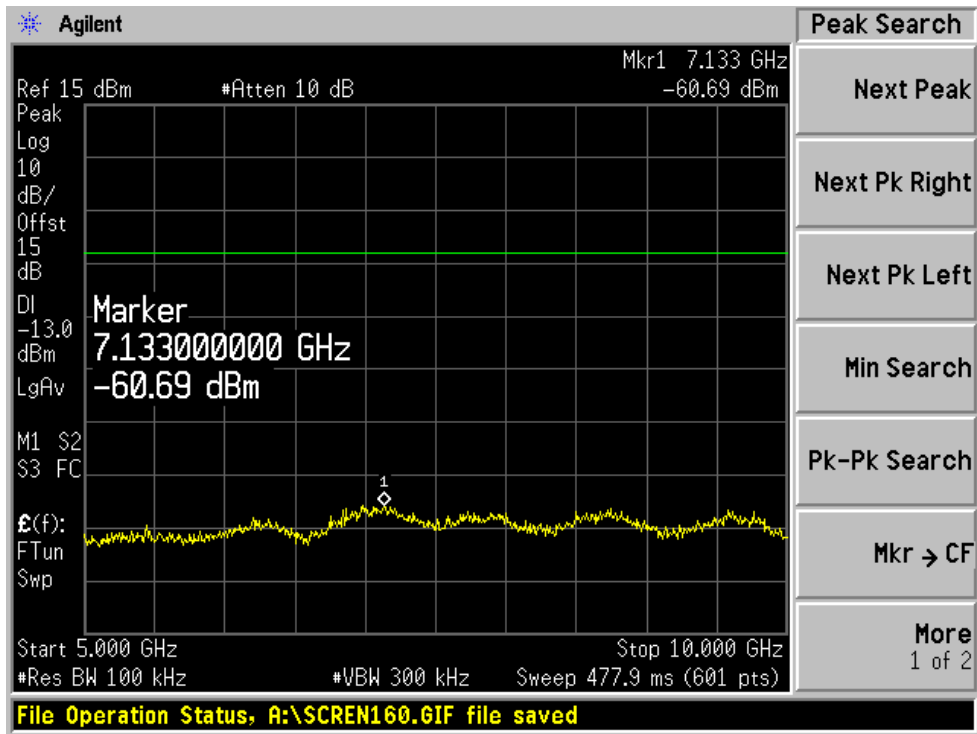
Temperature:	25 °C
Relative Humidity:	55%
ATM Pressure:	1018 mbar

* *The testing was performed by James Ma on 2007-03-19*

Test Results

Please refer to the hereinafter plots.





§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	Calibration Date
Agilent	Analyzer, Communications	E5515C	GB44051221	2006-08-08
Agilent	Analyzer, Spectrum	E4446A	US44300386	2006-03-26

* **Statement of Traceability: BACL Corp.** 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:	1018 mbar

* *The testing was performed by James Ma on 2007-03-19*

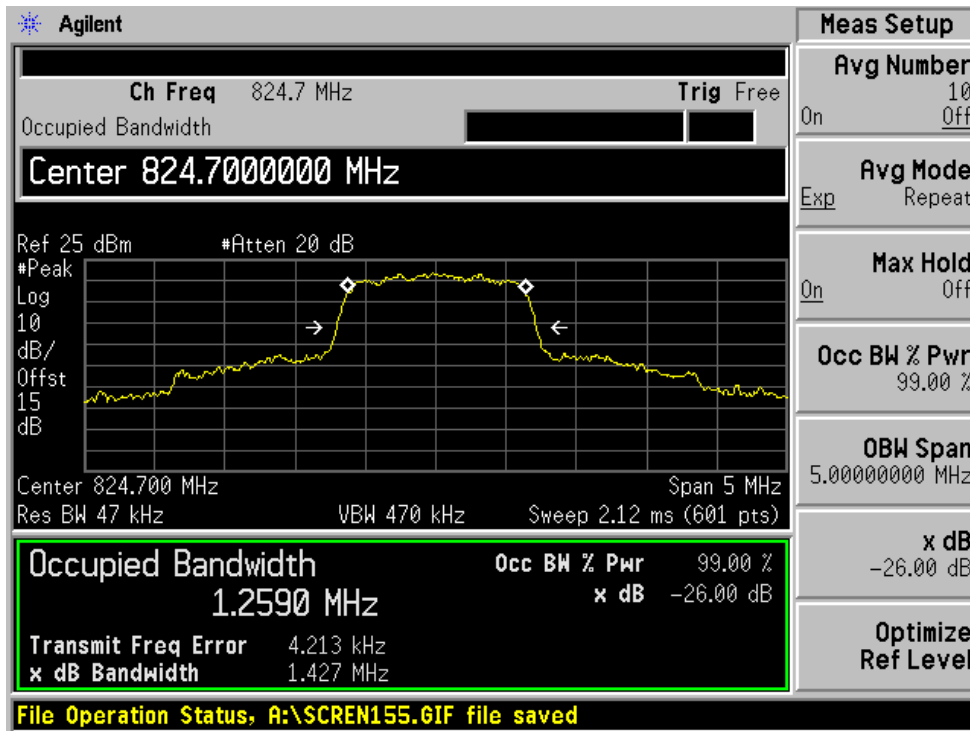
Test Results

Part 22:

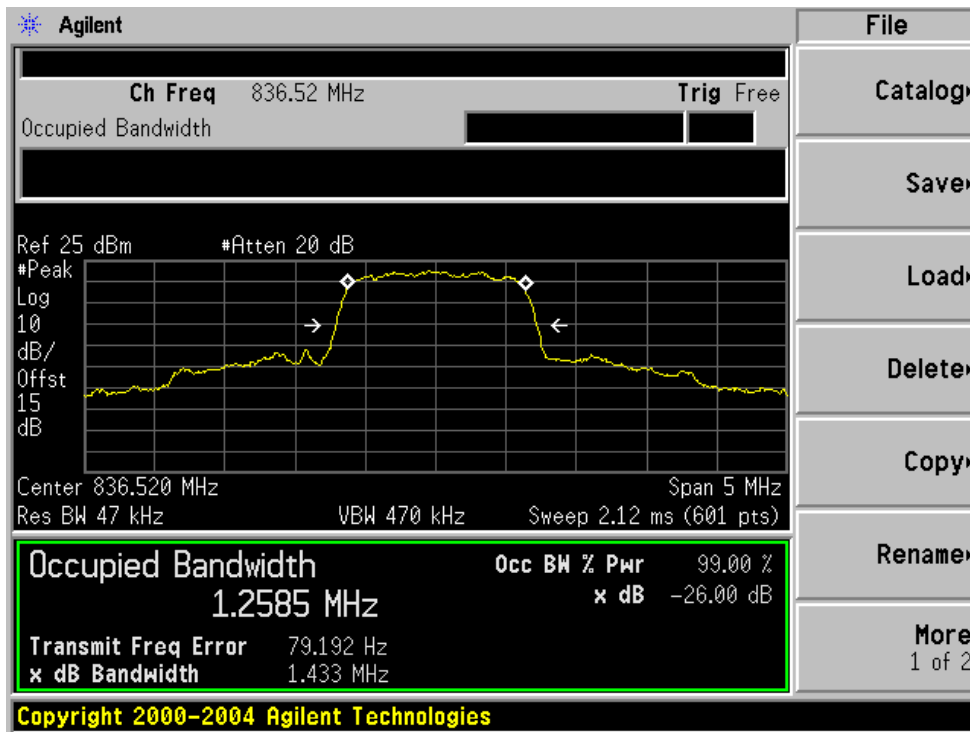
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
Low	824.70	1.259
Mid	836.52	1.259
High	848.30	1.253

Please refer to the following plots.

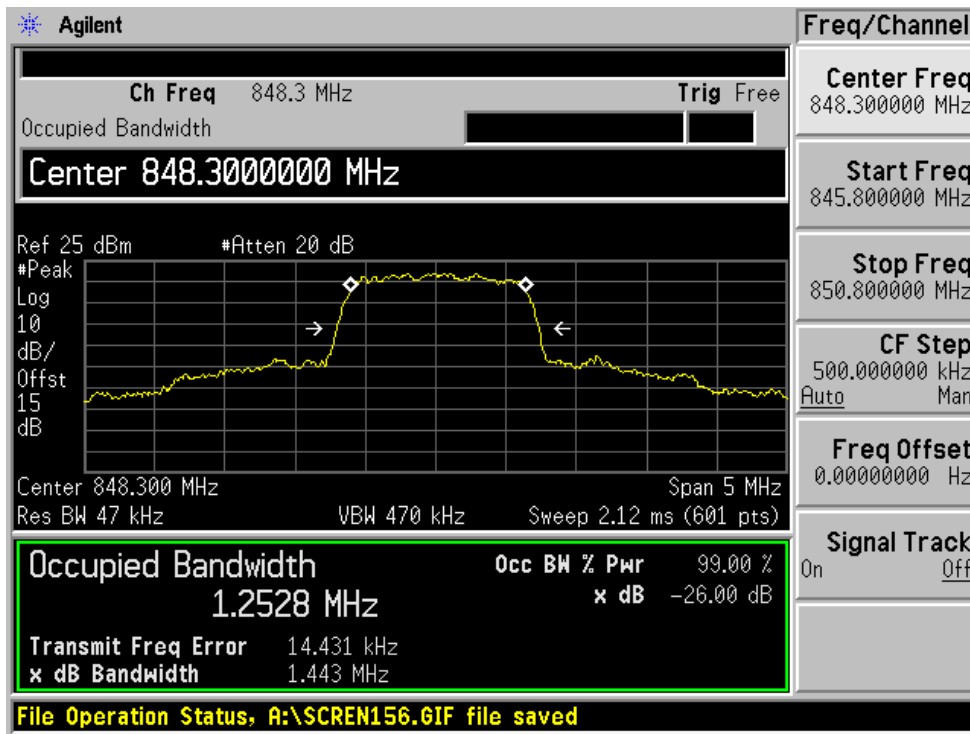
824.7 MHz



836.52 MHz



848.3 MHz



§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

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

Frequency range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
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	NA	NA
929 to 960.....	1.5	NA	NA
2110 to 2220.....	10.0	NA	NA

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.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date
Agilent	Analyzer, Communications	E5515C	GB44051221	2006-08-08
Agilent	Analyzer, Spectrum	E4446A	US44300386	2006-03-26
ESPEC	Oven, Temperature	ESL-4CA	18010	NA

* **Statement of Traceability:** **BACL Corp.** 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 James Ma on 2007-03-19

Test Results

Frequency Stability versus Temperature:

Reference Frequency: 836.52 MHz, Limit: 2.5 ppm					
Environment Temperature (°C)	Power Supplied (VDC)	Reference Frequency (MHz)	Measured Frequency (MHz)	Error (ppm)	Limit (ppm)
50	3.7	836.5200	836.52170	2.03	2.5
40	3.7	836.5200	836.52110	1.31	2.5
30	3.7	836.5200	836.52090	1.08	2.5
20	3.7	836.5200	836.51980	-0.24	2.5
10	3.7	836.5200	836.51920	-1.0	2.5
0	3.7	836.5200	836.51900	-1.20	2.5
-10	3.7	836.5200	836.51880	-1.43	2.5
-20	3.7	836.5200	836.51870	-1.56	2.5
-30	3.7	836.5200	836.51890	-1.31	2.5

Frequency Stability versus Voltage:

Reference Frequency: 836.52 MHz, Limit: 2.5ppm					
Power Supplied (VDC)	Environment Temperature (°C)	Reference Frequency (MHz)	Measured Frequency (MHz)	Error (ppm)	Limit (ppm)
3.4	20	836.5200	836.51950	-0.60	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	Calibration Date
Agilent	Analyzer, Communications	E5515C	GB44051221	2006-08-08
Agilent	Analyzer, Spectrum	E4446A	US44300386	2006-03-26

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

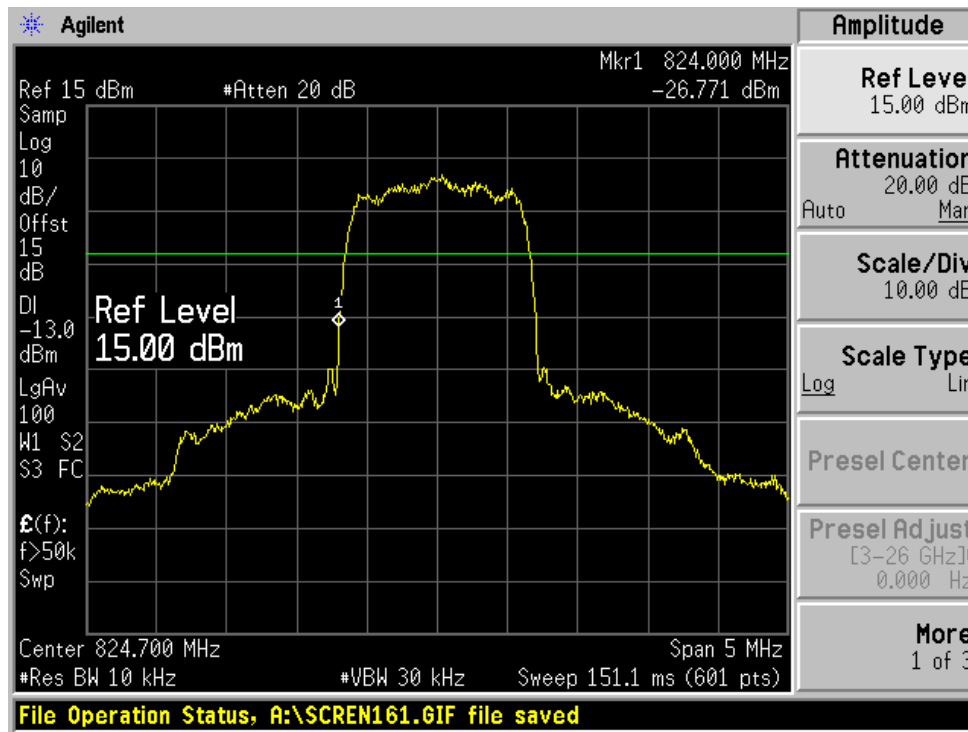
Temperature:	20 °C
Relative Humidity:	55%
ATM Pressure:	1018 mbar

* *The testing was performed by James Ma on 2007-03-19*

Test Results

Please refer to the following plots.

824.0 MHz



849.0 MHz

