FCC PART 15.249

EMI MEASUREMENT AND TEST REPORT

For

Qiaoxing Telecom Industry Co., Ltd.

Qiaoxing Science Zone, Tangquan Huizhou City, Guangdong, P.R.C.

FCC ID: R9WKSM6012

This Report Concerns: **Equipment Type:** Original Report 2.4G Wireless Telephone **Test Engineer:** Snell Leong/ **Report No.:** R0504125 **Report Date:** 2005-05-09 Tille **Reviewed By:** Richard Lee/ **Prepared By:** Bay Area Compliance Laboratory Corporation 230 Commercial Street Sunnyvale, CA 94085 Tel (408) 732-9162 Fax (408) 732-9164

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Qiaoxing Telecom Industry Co., Ltd.* product, FCC ID: *R9WKSM6012*, or the "EUT" as referred to in this report is a Wireless Telephone. The Base operates between frequency 5402.55-2404.50 MHz, the Handset operates between frequency 2474.00-2475.95. The Base is measured approximately 120mmL x 11mmW x 40mmH. The Handset is measured approximately 150mmL x 55mmW x 30mmH.

Objective

This document is a test report based on the Electromagnetic Interference (EMI) tests performed on the EUT. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4 - 2003.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203 and 15.205, 15.207,15.249, 15.203 and 15.209 rules.

Related Submittal(s)/Grant(s)

No Related Submittals

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4 - 2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp.

Test Facility

The Open Area Test site used by Bay Area Compliance Laboratory Corporation to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Sunnyvale, California, USA.

Test site at Bay Area Compliance Laboratory Corporation 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 radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

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.

^{*} The test data gathered are from production sample, serial number: #1, provided by the manufacturer.

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 can 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 ANSI C63.4-2003.

Schematics and Block Diagram

Please refer to Appendix A.

Equipment Modifications

No modifications were made to the EUT.

Power Supply

Manufacturer	Description	Model	Serial Number	FCC ID
N/A	AC Adapter	Du0U090030D1201	N/A	N/A

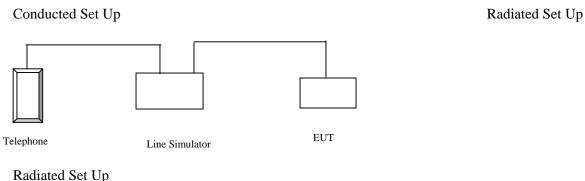
Local Support Equipment

Manufacturer	Description	Model	Serial Number	FCC ID
Teltone	Line Simulator	TLS-3B-01	80071	N/A
Southern Telecom	Phone	N/A	N/A	N/A

Interface Ports and Cabling

Cable Description	Length (M)	From	To
Phone Line	1.0	Line 1 Port / Line Simulator	Phone
Phone Line	1.0	Line 2 Port / Line Simulator	EUT

Test Setup Configuration

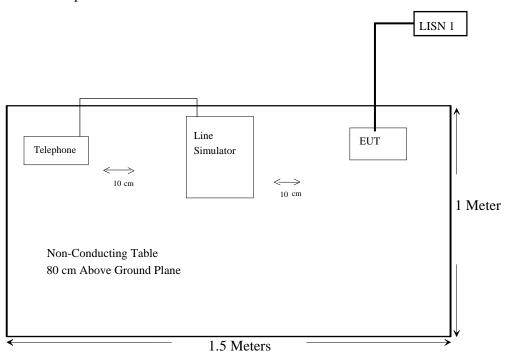


Radiated Set Up

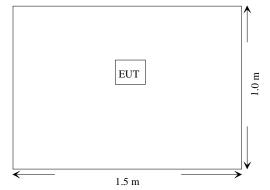
Test Setup Block Diagram

EUT

Conducted Set Up



Radiated Set Up



SUMMARY OF TEST RESULTS

F = = P = = = =	D-10-10-10-10-10-10-10-10-10-10-10-10-10-	D
FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Band	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.209 (a), §15.249 (a)	Radiated Emission	Compliant*
15.249 (d)	Band Edge Testing	Compliant

^{*} Base was within the measurement of uncertainty at High Channel with the worst result of -2.3 dB

§15.203 - ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Connected Construction

The antenna connector is designed with permanent attachment and no consideration of replacement.

§ 15.207 (a) - CONDUCTED EMISSIONS TEST DATA

Measurement Uncertainty

All measurements involve certain levels of uncertainties. These uncertainties are attributed to: Receiver, Cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the estimated uncertainty of any conducted emission measurement at BACL is +2.4 dB.

EUT Setup

The measurement was performed in the shielded room, using the same setup per ANSI C63.4-2003 measurement procedure. The specification used was FCC 15 Subpart C limits.

External I/O cables were draped along the edge of the test table and bundle when necessary.

The EUT was connected to an adapter, which connected to 120Vac/60Hz power source.

Receiver Setup

The receiver was set to investigate the frequency 150 kHz to 30MHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
Rohde & Schwarz	Receiver, EMI Test	ESCS30	100176	9/15/2004
Rohde & Schwarz	LISN, Artificial Mains	ESH2-Z5	871884/039	8/16/2004

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

Test Procedure

During the conducted emission test, the adapter of EUT was connected to the main outlet of the LISN-1.

Maximizing procedure were performed on the six (6) highest emissions of the EUT.

All data was recorded in the peak detection mode, quasi-peak and average. Quasi-Peak readings are distinguished with an "QP". Average readings are distinguished with an "Ave".

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	39%
ATM Pressure:	1018mbar

^{*}Testing was performed by Snell Leong on 2005-04-29.

Summary of Test Results

According to the recorded data in following table, the EUT <u>complies with the FCC</u> Conducted limit for a Class B device, with the *worst* margin reading of:

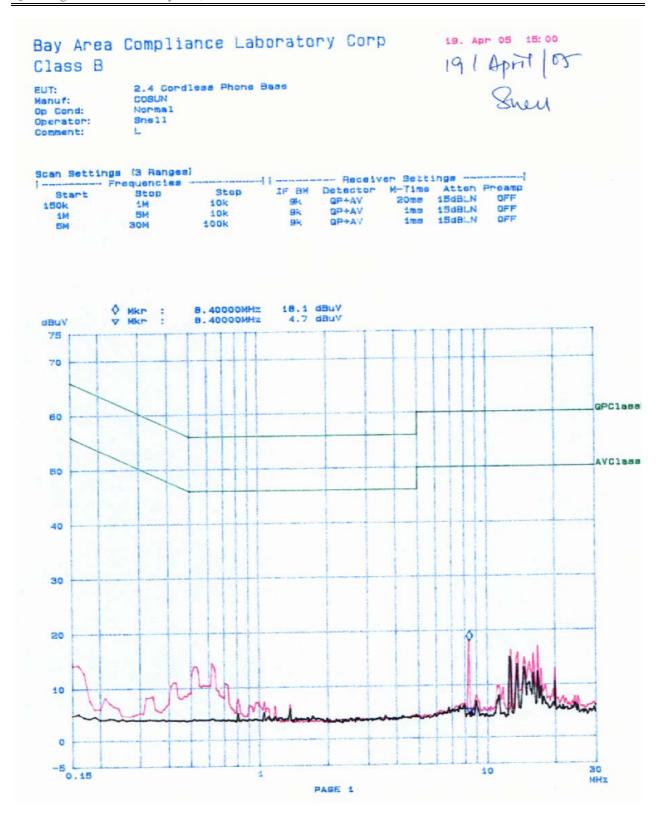
-33.0 dB at 14.600 MHz in the Neutral mode

Conducted Emissions Test Data

	LINE CON	NDUCTED EMISSIONS		FCC C	LASS B
Frequency	Amplitude	Detector	Phase	Limit	Margin
MHz	dBμV	Qp/Ave/Peak	Line/Neutral	dΒμV	dB
14.600	17.0	Ave	Neutral	50.00	-33.0
13.100	26.7	QP	Neutral	60.00	-33.3
16.800	16.3	Ave	Neutral	50.00	-33.7
12.800	14.2	Ave	LINE	50.00	-35.8
16.800	22.5	QP	Neutral	60.00	-37.5
16.800	12.3	Ave	LINE	50.00	-37.7
14.600	21.8	QP	Neutral	60.00	-38.2
8.400	18.1	QP	LINE	60.00	-41.9
13.100	7.8	Ave	Neutral	50.00	-42.2
16.800	17.0	QP	LINE	60.00	-43.0
12.800	16.4	QP	LINE	60.00	-43.6
8.400	4.8	Ave	LINE	50.00	-45.2

Plot of Conducted Emissions Test Data

Plot of Conducted Emissions test data was presented hereinafter as reference.





§15.205, §15.209 (a), §15.249 (a) - RADIATED EMISSION DATA

Applicable Standard

According to §15.249 (a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

stro Fundamental frequency (mi	Field Field ength of strength fundamen llivolts/ (microveneter) meter)	ital harmonics
902-928 MHz	50 50	500 500 500 2500

According to §15.249 (d), emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, 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 EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at BACL is +4.0 dB.

EUT Setup

The radiated emission tests were performed in the open area 3-meter test site, using the setup in accordance with ANSI C63.4-2003. The specification used was the FCC 15 Subpart C limits.

The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle when necessary.

The EUT was connected to the power adapter, which is connected with 120Vac/60Hz power source

Spectrum Analyzer Setup

According to FCC Rules, 47 CFR 15.33 (a) (1), the system was tested to 25GHz.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Range	RBW	Video B/W
Below 30MHz	10kHz	10kHz
30-1000MHz	100kHz	100kHz
Above 1000MHz	1MHz	1MHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
EMCO	Biconical Antenna	3110B	9309-1165	2004-10-11
EMCO	Log Periodic Antenna	3148	4-1155	2004-12-14
HP	Amplifier (0.1-1300MHz)	8447D	2944A10187	2004-08-20
Agilent	Spectrum Analyzer	E4446A	US44300386	2004-11-10
Wisewave	Antenna, Horn, Std	ARH-2823-02	10555-02	2004-12-13
HP	Pre, Amplifier (1 ~ 26.5 GHz)	8449B	3147A00400	2005-03-14

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

Environmental Conditions

Temperature:	22°C
Relative Humidity:	40%
ATM Pressure:	1013mbar

^{*}Testing was performed by Snell Leong on 2005-04-22.

Test Procedure

For the radiated emissions test, the power cord of the EUT was connected to the AC floor outlet.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant with all installation combinations.

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

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:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - 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 applicable limits. The equation for margin calculation is as follows:

Margin = Corr. Ampl. - Applicable Limit

Summary of Test Results

According to the recorded data in following table, the EUT measured test data within the measurement uncertainty of ± 4.0 , and had the worst margin of:

Base:

- -19.3 dB at 7207.65 MHz in the Vertical polarization at Low Channel
- -19.6 dB at 7210.50 MHz in the Horizontal polarization at Mid Channel
- -19.2 dB at 7213.50 MHz in the Vertical polarization at High Channel
- -2.3 dB at 50.32 MHz in the Vertical polarization at Unintentional Emission*

Handset:

- -19.5 dB at 7422.00 MHz in the Vertical polarization at Low Channel
- -20.7 dB at 7424.85 MHz in the Vertical polarization at Mid Channel
- -20.7 dB at 7427.85 MHz in the Vertical polarization at High Channel
- -5.5 dB at 824.98 MHz in the Vertical polarization at Unintentional Emission

Radiated Emissions Test Result Data - Base, 3Meter

Low Channel

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Correction Factor	FCC	FCC	Comments
MHz	dBuV	Degree	Meter	H/V	dB	dB	dB	dBuV/m	Limit dBuV/m	Margin dB	Comments
7207.6500	28.7	20	1.5	V	36.3	4.3	34.7	34.7	54	-19.3	Ave
7207.6500	26.8	30	1.4	Н	36.3	4.3	34.7	32.7	54	-21.3	Ave
4805.1000	28.7	0	1.5	V	32.5	3.1	34.8	29.4	54	-24.6	Ave
4805.1000	27.6	30	1.5	Н	32.5	3.1	34.8	28.4	54	-25.6	Ave
2402.5500	73.5	180	1.0	V	28.1	2.0	35.8	67.8	94	-26.2	Fund/Ave
2402.5500	73.5	180	1.0	V	28.1	2.0	35.8	67.8	94	-26.2	Fund/Ave
7207.6500	40.7	20	1.5	V	36.3	4.3	34.7	46.6	74	-27.4	Peak
2402.5500	71.8	0	1.2	Н	28.1	2.0	35.8	66.1	94	-27.9	Fund/Ave
2402.5500	71.8	0	1.2	Н	28.1	2.0	35.8	66.1	94	-27.9	Fund/Ave
7207.6500	38.7	30	1.4	Н	36.3	4.3	34.7	44.6	74	-29.4	Peak
4805.1000	41.4	0	1.5	V	32.5	3.1	34.8	42.2	74	-31.9	Peak
4805.1000	40.1	30	1.5	Н	32.5	3.1	34.8	40.9	74	-33.1	Peak
2402.5500	74.6	45	2.5	V	28.1	2.0	35.8	68.9	114	-45.1	Fund/Peak
2402.5500	74.6	45	2.5	V	28.1	2.0	35.8	68.9	114	-45.1	Fund/Peak
2402.5500	72.1	90	1.0	Н	28.1	2.0	35.8	66.4	114	-47.6	Fund/Peak
2402.5500	72.1	90	1.0	Н	28.1	2.0	35.8	66.4	114	-47.6	Fund/Peak

^{*}Base was within the measurement of uncertainty at High Channel with the worst result of -2.3 dB

Radiated Emissions Test Result Data - Base, 3Meter (Continued)

Mid Channel

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Correction Factor	FCC	FCC	Comments
MHz	dBuV	Degree	Meter	H/V	dB	dB	dB	dBuV/m	Limit dBuV/m	Margin dB	Comments
7210.5000	28.5	180	1.5	V	36.3	4.3	34.7	34.4	54	-19.6	Ave
7210.5000	27.6	340	1.4	Н	36.3	4.3	34.7	33.5	54	-20.5	Ave
4807.0000	27.8	90	1.3	V	32.5	3.1	34.8	28.6	54	-25.4	Ave
2403.5000	73.7	0	1.2	V	28.1	2.0	35.8	68.0	94	-26.0	Fund/Ave
4807.0000	26.7	45	1.3	Н	32.5	3.1	34.8	27.5	54	-26.5	Ave
2403.5000	72.6	90	1.2	Н	28.1	2.0	35.8	66.9	94	-27.1	Fund/Ave
7210.5000	40.2	180	1.5	V	36.3	4.3	34.7	46.1	74	-27.9	Peak
7210.5000	38.9	340	1.4	Н	36.3	4.3	34.7	44.8	74	-29.2	Peak
4807.0000	41.9	90	1.2	V	32.5	3.1	34.8	42.7	74	-31.3	Peak
4807.0000	40.6	45	1.3	Н	32.5	3.1	34.8	41.4	74	-32.6	Peak
2403.5000	74.8	90	1.4	V	28.1	2.0	35.8	69.1	114	-44.9	Fund/Peak
2403.5000	73.5	180	1.3	Н	28.1	2.0	35.8	67.8	114	-46.2	Fund/Peak

High Channel

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Correction Factor	FCC	FCC	Comments
MHz	dBuV	Degree	Meter	H/V	dB	dB	dB	dBuV/m	Limit dBuV/m	Margin dB	Comments
7213.5000	28.9	270	1.4	V	36.3	4.3	34.7	34.8	54	-19.2	Ave
7213.5000	27.9	270	2.2	Н	36.3	4.3	34.7	33.8	54	-20.2	Ave
4809.0000	28.8	90	1.4	V	32.5	3.1	34.8	29.6	54	-24.4	Ave
2404.5000	74.8	180	1.4	Н	28.1	2.0	35.8	69.1	94	-24.9	Fund/Ave
2404.5000	74.6	90	1.5	V	28.1	2.0	35.8	68.9	94	-25.1	Fund/Ave
4809.0000	27.4	220	4.0	Н	32.5	3.1	34.8	28.2	54	-25.8	Ave
7213.5000	42.3	270	1.4	V	36.3	4.3	34.7	48.2	74	-25.8	Peak
7213.5000	41.5	270	2.2	Н	36.3	4.3	34.7	47.4	74	-26.6	Peak
4809.0000	43.1	90	1.4	V	32.5	3.1	34.8	43.9	74	-30.1	Peak
4809.0000	42.6	220	4.0	Н	32.5	3.1	34.8	43.4	74	-30.6	Peak
2404.5000	75.6	270	1.5	V	28.1	2.0	35.8	69.9	114	-44.1	Fund/Peak
2404.5000	73.6	180	1.3	Н	28.1	2.0	35.8	67.9	114	-46.1	Fund/Peak

Radiated Emissions Test Result Data - Base, 3Meter (Continued)

Unintentional Emission

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Correction Factor	FCC	FCC
MHz	dBuV	Degree	Meter	H/V	dB	dB	dB	dBuV/m	Limit dBuV/m	Margin dB
50.32	55.3	30	1.2	V	10.2	1.0	28.8	37.7	40	-2.3
828.55	42.3	60	1.5	V	22.3	3.7	28.6	39.7	46	-6.3
50.32	50.3	30	1.8	V	10.2	1.0	28.8	32.7	40	-7.3
828.55	40.9	180	1.6	V	22.3	3.7	28.6	38.3	46	-7.7
46.13	47.5	90	1.4	V	11.1	1.1	28.9	30.8	40	-9.3
46.13	46.5	90	2.5	V	11.1	1.1	28.9	29.8	40	-10.3

Radiated Emissions Test Result Data - Handset, 3Meter

Low Channel

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Correction Factor	FCC	FCC	
MHz	dBuV	Degree	Meter	H/V	dB	dB	dB	dBuV/m	Limit dBuV/m	Margin dB	Comments
7422.0000	28.6	180	2.7	V	36.3	4.3	34.7	34.5	54	-19.5	Ave
7422.0000	28.1	315	3.0	Н	36.3	4.3	34.7	34.0	54	-20.0	Ave
4948.0000	28.7	180	3.3	V	32.5	3.1	34.8	29.5	54	-24.5	Ave
4948.0000	28.1	180	1.4	Н	32.5	3.1	34.8	28.9	54	-25.1	Ave
2474.0000	73.8	0	3.1	V	28.1	2.0	35.8	68.1	94	-25.9	Fund/Ave
7422.0000	41.5	180	2.7	V	36.3	4.3	34.7	47.4	74	-26.6	Peak
2474.0000	72.7	180	2.0	Н	28.1	2.0	35.8	67.0	94	-27.0	Fund/Ave
7422.0000	40.6	315	3.0	Н	36.3	4.3	34.7	46.5	74	-27.5	Peak
4948.0000	42.3	0	3.3	V	32.5	3.1	34.8	43.1	74	-30.9	Peak
4948.0000	41.2	180	1.4	Н	32.5	3.1	34.8	42.0	74	-32.0	Peak
2474.0000	74.6	0	3.1	V	28.1	2.0	35.8	68.9	114	-45.1	Fund/Peak
2474.0000	73.6	180	2.0	Н	28.1	2.0	35.8	67.9	114	-46.1	Fund/Peak

Mid Channel

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Correction Factor	FCC	FCC	
MHz	dBuV	Degree	Meter	H/V	dB	dB	dB	dBuV/m	Limit dBuV/m	Margin dB	Comments
7424.8500	27.4	130	3.0	V	36.3	4.3	34.7	33.3	54	-20.7	Ave
7424.8500	27.1	90	3.8	Н	36.3	4.3	34.7	33.0	54	-21.0	Ave
4949.9000	28.9	45	2.2	V	32.5	3.1	34.8	29.7	54	-24.3	Ave
4949.9000	27.3	180	4.0	Н	32.5	3.1	34.8	28.1	54	-25.9	Ave
7424.8500	41.8	130	3.0	V	36.3	4.3	34.7	47.7	74	-26.3	Peak
2474.9500	72.9	200	1.4	V	28.1	2.0	35.8	67.2	94	-26.8	Fund/Ave
7424.8500	40.6	90	3.8	Н	36.3	4.3	34.7	46.5	74	-27.5	Peak
2474.9500	70.4	180	2.1	Н	28.1	2.0	35.8	64.7	94	-29.3	Fund/Ave
4949.9000	42.9	45	2.2	V	32.5	3.1	34.8	43.7	74	-30.3	Peak
4949.9000	41.6	180	4.0	Н	32.5	3.1	34.8	42.4	74	-31.6	Peak
2474.9500	73.4	200	1.4	V	28.1	2.0	35.8	67.7	114	-46.3	Fund/Peak
2474.9500	71.6	180	2.1	Н	28.1	2.0	35.8	65.9	114	-48.1	Fund/Peak

Radiated Emissions Test Result Data - Handset, 3M (Continued)

High Channel

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Correction Factor	FCC	FCC	
MHz	dBuV	Degree	Meter	H/V	dB	dB	dB	dBuV/m	Limit dBuV/m	Margin dB	Comments
7427.8500	27.4	175	3.8	V	36.3	4.3	34.7	33.3	54	-20.7	Ave
7427.8500	26.8	200	1.8	Н	36.3	4.3	34.7	32.7	54	-21.3	Ave
4951.9000	28.6	135	2.4	V	32.5	3.1	34.8	29.4	54	-24.6	Ave
2475.9500	74.6	110	2.0	V	28.1	2.0	35.8	68.9	94	-25.1	Fund/Ave
4951.9000	27.4	180	2.2	Н	32.5	3.1	34.8	28.2	54	-25.8	Ave
2475.9500	73.1	120	2.2	Н	28.1	2.0	35.8	67.4	94	-26.6	Fund/Ave
7427.8500	41.5	175	3.8	V	36.3	4.3	34.7	47.4	74	-26.6	Peak
7427.8500	40.2	200	1.8	Н	36.3	4.3	34.7	46.1	74	-27.9	Peak
4951.9000	42.5	135	2.4	V	32.5	3.1	34.8	43.3	74	-30.7	Peak
4951.9000	41.2	180	2.2	Н	32.5	3.1	34.8	42.0	74	-32.0	Peak
2475.9500	75.9	110	2.0	V	28.1	2.0	35.8	70.1	114	-43.9	Fund/Peak
2475.9500	74.2	120	2.2	Н	28.1	2.0	35.8	68.5	114	-45.5	Fund/Peak

Unintentional Emission

Frequency	Reading	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier	Correction Factor	FCC	FCC
MHz	dBuV	Degree	Meter	H/V	dB	dB	dB	dBuV/m	Limit dBuV/m	Margin dB
824.98	43.10	30	1.8	V	22.3	3.7	28.6	40.5	46	-5.5
58.70	51.3	0	1.5	V	9.8	1.7	28.8	34.0	40	-6.0
58.70	51.3	0	1.5	V	9.8	1.7	28.8	34.0	40	-6.0
50.32	50.30	30	1.8	V	10.2	1.0	28.8	32.7	40	-7.3
50.32	48.50	30	1.8	V	10.2	1.0	28.8	30.9	40	-9.1
58.70	46.7	45	3.8	V	9.8	1.7	28.8	29.4	40	-10.6
58.70	46.7	45	3.8	V	9.8	1.7	28.8	29.4	40	-10.6
824.98	36.00	30	1.8	V	22.3	3.7	28.6	33.4	46	-12.6

$\S15.249$ (d) – BAND-EDGE TESTING

Standard Applicable

Requirements: FCC 15.249 (c), the emission power at the START and STOP frequencies shall be at least 50 dB below the level of the fundamental or to the general radiated emission limits in FCC 15.209, whichever is the lesser attenuation.

Test Procedure

With the EUT's antenna attached, the EUT's radiated emission power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
HP	Spectrum Analyzer	8565EC	3946A00131	2006-05-03

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

Environmental Conditions

Temperature:	22°C
Relative Humidity:	40%
ATM Pressure:	1013mbar

^{*}Testing was performed by Snell Leong on 2005-04-22.

Test Results

Refer to the attached plots.

