

FCC PART 15 Subpart C
EMI MEASUREMENT AND TEST REPORT

For

Lionda Technology Co., Ltd.

Block 2 Laodong 2nd Industrial Area, Xixiang, Baoan,
Shenzhen, Guangdong, P.R.China 518102

FCC ID: O63XG2100ALD03

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This Report Concerns: <input checked="checked" type="checkbox"/> Original Report	Equipment Type: 2.4GH Cordless Telephone
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Report No.: <u>R0302033</u>	
Test Date: <u>February 4, 2003</u>	
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TABLE OF CONTENTS

1 - GENERAL INFORMATION.....	3
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
1.2 OBJECTIVE	3
1.3 RELATED SUBMITTAL(S)/GRANT(S)	3
1.4 TEST METHODOLOGY	3
1.5 TEST FACILITY	3
1.6 TEST EQUIPMENT LIST	4
1.7 LOCAL SUPPORT EQUIPMENT LIST AND DETAILS	4
1.8 EXTERNAL I/O CABLING LIST AND DETAILS	4
2 - SYSTEM TEST CONFIGURATION.....	5
2.1 DESCRIPTION OF TEST CONFIGURATION	5
2.2 CONFIGURATION OF TEST SYSTEM (BASE).....	5
2.3 TEST SETUP BLOCK DIAGRAM	6
2.4 EQUIPMENT MODIFICATIONS	6
3 - CONDUCTED EMISSIONS TEST DATA.....	7
3.1 MEASUREMENT UNCERTAINTY	7
3.2 EUT SETUP	7
3.3 SPECTRUM ANALYZER SETUP	7
3.4 TEST PROCEDURE	7
3.5 SUMMARY OF TEST RESULTS	8
3.6 CONDUCTED EMISSIONS TEST DATA	8
3.7 PLOT OF CONDUCTED EMISSIONS TEST DATA	8
4 - RADIATED EMISSION DATA	11
4.1 MEASUREMENT UNCERTAINTY	11
4.2 EUT SETUP	11
4.3 SPECTRUM ANALYZER SETUP	11
4.4 TEST PROCEDURE	12
4.5 CORRECTED AMPLITUDE & MARGIN CALCULATION	12
4.6 SUMMARY OF TEST RESULTS	12
4.7 RADIATED EMISSIONS TEST RESULT DATA	13
5 - BAND EDGES TESTING	16
5.1 TEST PROCEDURE	16
5.2 TEST EQUIPMENT	16
5.3 TEST RESULTS	16

1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

The *Lionda Technology Co., Ltd.* 's *XG2100* or the "EUT" as referred to in this report is a 2.4GHz cordless telephone. EUT was composed of two parts, one is Handset which is measured approximately 6.00" L x 2.0" W x 1.0"H, and the other is Base which measures about 6.25"L x 3.05"W x 2.85"H.

The EUT was supplied with Bell South AC/DC adapter, M/N: U120020D12.

** The test data was good for test sample only. It may have deviation for other test samples.*

1.2 Objective

This document is a qualification 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: 1992.

The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined by FCC Title 47, Part 15, Subpart C, section 15.205, 15.207, and 15.249.

1.3 Related Submittal(s)/Grant(s)

No Related Submittal(s).

1.4 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4 –1992, 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 BACL. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

1.5 Test Facility

The Open Area Test site used by BACL 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 BACL 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 C63.4-1992.

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 scope of the accreditation covers the FCC Method - 47 CFR Part 15 - Digital Devices, CISPR 22: 1997: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment test methods.

1.6 Test Equipment List

Manufacturer	Description	Model	Serial Number	Cal. Due Date
HP	Spectrum Analyzer	8564E	08303	12/6/2003
HP	Spectrum Analyzer	8593B	2919A00242	12/20/2003
HP	Amplifier	8349B	2644A02662	12/20/2003
HP	Quasi-Peak Adapter	85650A	917059	12/6/2003
HP	Amplifier	8447E	1937A01046	12/6/2003
A.H. System	Horn Antenna	SAS0200/571	261	12/27/2003
Com-Power	Log Periodic Antenna	AL-100	16005	11/2/2003
Com-Power	Biconical Antenna	AB-100	14012	11/2/2003
Solar Electronics	LISN	8012-50-R-24-BNC	968447	12/28/2003
Com-Power	LISN	LI-200	12208	12/20/2003
Com-Power	LISN	LI-200	12005	12/20/2003
BACL	Data Entry Software	DES1	0001	12/20/2003

***Statement of Traceability: Bay Area Compliance Laboratory Corp.** Certifies that all calibration has been performed using suitable standards traceable to the NIST.

1.7 Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
Southern Telecom	Telephone	None	None	None
Teltone Corp	Simulator	TLS-3B-01	80071	None

1.8 External I/O Cabling List and Details

Cable Description	Length (M)	Port/From	To
Unshielded RJ 11 telephone cable	1.8	Simulator RJ 11 Port/EUT	Simulator RJ11 Port
Headset Cable	N/A	Headset/EUT	Base/EUT

2 - SYSTEM TEST CONFIGURATION

2.1 Description of Test Configuration

The EUT was configured for testing in a typical fashion (as normally used by a typical user).

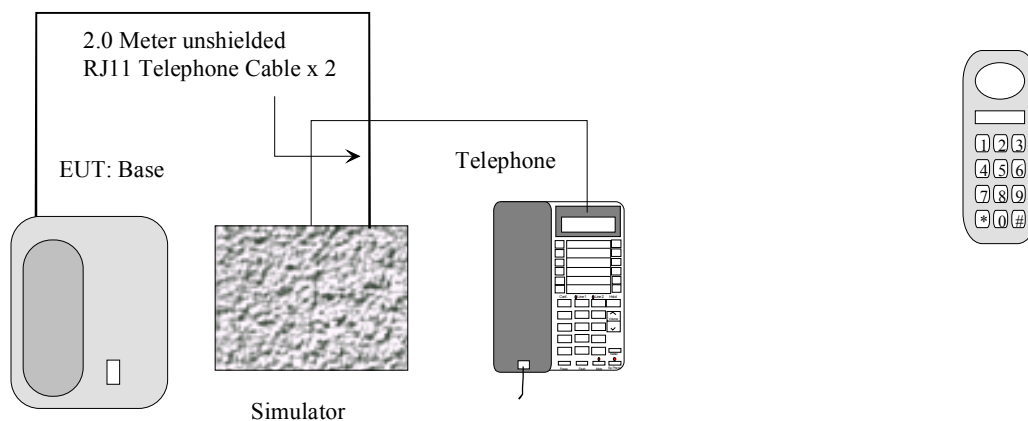
Handset being tested: The Handset unit was placed on the wooden table and tested in three orthogonal axis. The handset was connected to the headset via its headset port. The Low, and high channels were tested. The handset was transmitting to and receiving from the Base unit. The EUT was investigated for emissions while off hook. The radiated data was taken in this mode of operation. All initial and final investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the 2.3.

Base being tested: The Base unit was placed on the wooden table. The Low and high channels were tested. The base was connected to the line simulator and an AC adapter via its Tel Line and power ports, respectively. The base was transmitting and receiving from the Handset. The conducted as well as radiated data was taken in this mode of operation. All initial and final investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the 2.3.

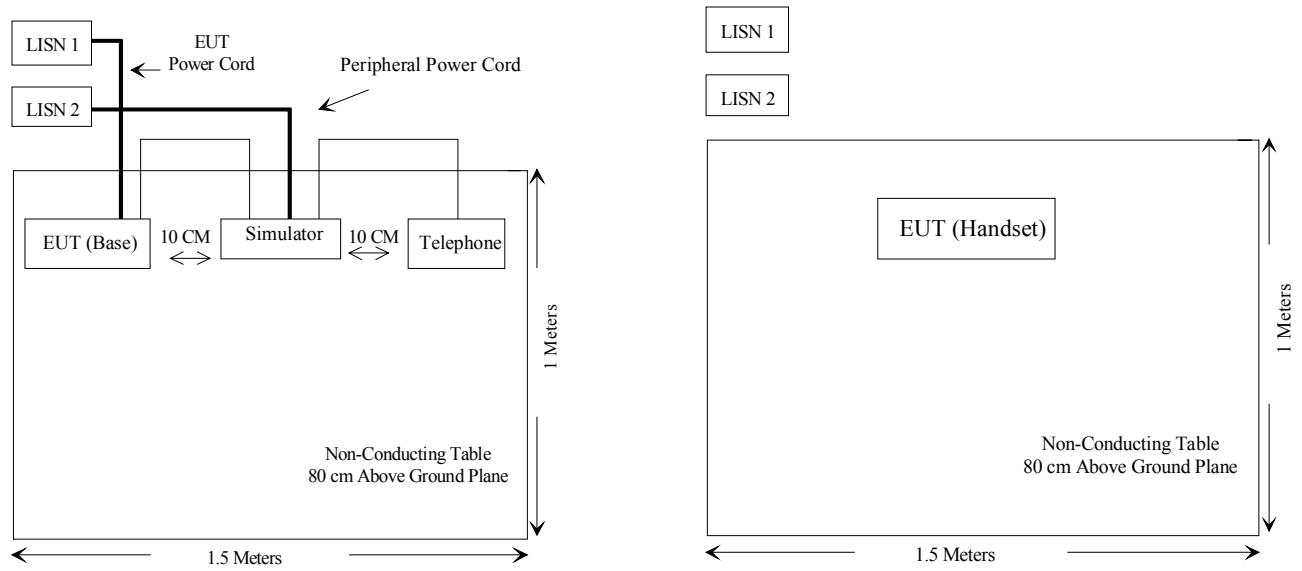
2.2 Configuration of Test System (Base)

Base

Handset



2.3 Test Setup Block Diagram



2.4 Equipment Modifications

No modification(s) to the EUT were made by BACL to comply with the applicable limits.

3 - CONDUCTED EMISSIONS TEST DATA

3.1 Measurement Uncertainty

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

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

3.2 EUT Setup

The measurement was performed at the **Open Area Test Site**, using the same setup per ANSI C63.4 - 1992 measurement procedure. Specification used was with the FCC Class B limits.

The Base unit of EUT was connected to a 110 VAC / 60 Hz power source.

The spacing between the peripherals was 10 centimeters.

External Input / Output cables were draped over edge of the test table and bundle when necessary.

3.3 Spectrum Analyzer Setup

The spectrum analyzer was set with the following configurations during the conducted emission test:

Start Frequency.....	150 kHz
Stop Frequency.....	30 MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10 kHz
Video Bandwidth.....	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Quasi-Peak Adapter Mode.....	Normal

3.4 Test Procedure

During the conducted emission test, the EUT power cord was connected to the auxiliary outlet of the first LISN with all support equipment power cords connected to the second.

The EUT was tested to represent worst-case results for the final qualification test. Therefore, these results were used for final test data recorded in the table listed under section 3.6 of this report.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination. All data was recorded in the peak detection mode. Quasi-peak readings were only performed when an emission was found to be marginal (within -4 dB of specification limit). Quasi-peak readings are distinguished with a "Qp".

3.5 Summary of Test Results

According to the data in section 3.6, the EUT complied with the FCC Conducted margin for a Class B device and these test results is deemed satisfactory evidence of compliance with RSS-210 of the Canadian Interference-Causing Equipment Regulations, with the *worst* margin reading of:

-4.9 dB μ V at 0.81 MHz in the Line mode.

3.6 Conducted Emissions Test Data

LINE CONDUCTED EMISSIONS				FCC CLASS B	
Frequency MHz	Amplitude dB μ V	Detector Qp/Ave/Peak	Phase Line/Neutral	Limit dB μ V	Margin dB
0.810	41.1	AVE	Line	46	-4.9
0.810	36.8	AVE	Neutral	46	-9.2
0.150	54.7	QP	Line	66	-11.3
0.150	54.0	QP	Neutral	66	-12.0
0.810	42.3	QP	Line	56	-13.7
0.810	40.4	QP	Neutral	56	-15.6
0.150	39.7	AVE	Line	56	-16.3
0.150	39.3	AVE	Neutral	56	-16.7
25.540	30.0	AVE	Neutral	50	-20.0
25.515	29.9	AVE	Line	50	-20.1
25.540	37.3	QP	Neutral	60	-22.7
25.515	36.8	QP	Line	60	-23.2

3.7 Plot of Conducted Emissions Test Data

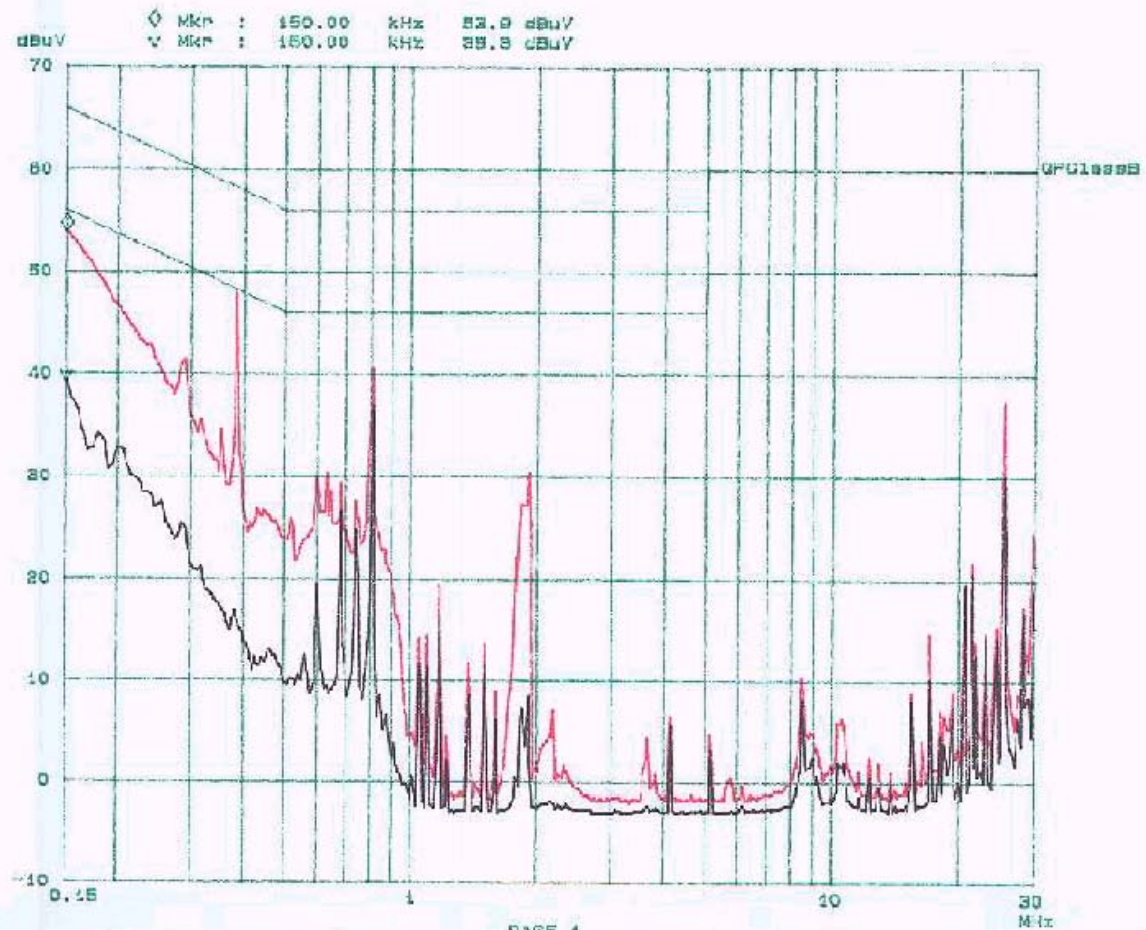
Plots of Conducted Emissions test data is presented hereinafter as reference.

Bay Area Compliance Corporation CISPR CLASS B

EUT: X62100
Manuf: Lionda
Op. Cond: Normal
Operator: Jenny
Comment: N
File name: LIONDA1.RES

Scan Settings (1 Range)

Frequency			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	QP+AV	20ms	10dB LN	OFF

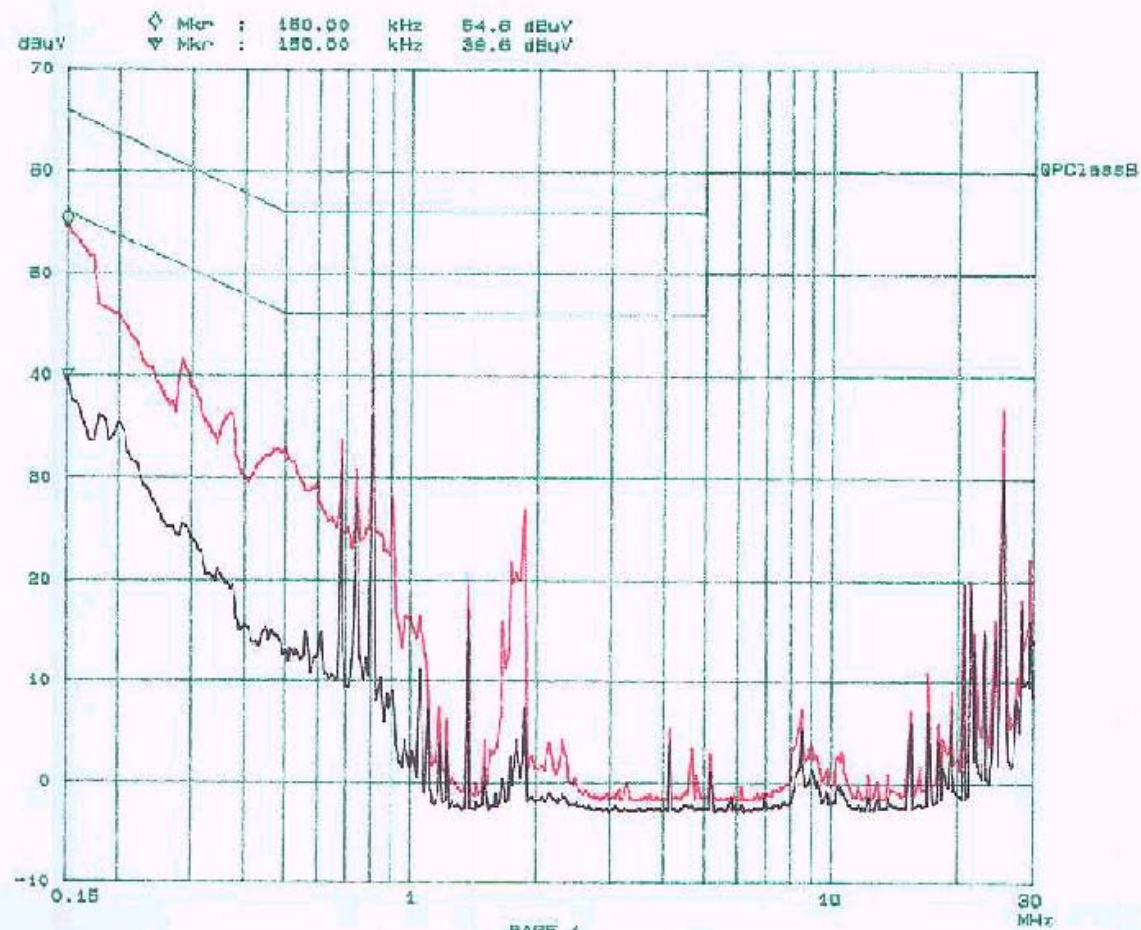


Bay Area Compliance Corporation CISPR CLASS B

EUT: X62100
Manuf: Lionda
Op Cond: Normal
Operator: Jerry
Comment: L
File name: lionda2.RES

Scan Settings (1 Range)

Frequency			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
180k	30M	5k	9k	QPAY	20ms	10dB LN	OFF



4 - RADIATED EMISSION DATA

4.1 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.

4.2 EUT Setup

The radiated emission tests were performed in the open area 3-meter test site, using the setup in accordance with the ANSI C63.4 - 1992. The specification used was the FCC 15 Subpart C limits.

The spacing between the peripherals was 10 centimeters.

The external Input / Output cables were draped over edge of the test table and bundle when necessary.

4.3 Spectrum Analyzer Setup

According to FCC Rules, 47 CFR 15.33 (a) (1), the system was tested to 26GHz.

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

Start Frequency	30 MHz
Stop Frequency	26GHz
Sweep Speed	Auto
IF Bandwidth	1 MHz
Video Bandwidth	1 MHz
Quasi-Peak Adapter Bandwidth.....	120 kHz
Quasi-Peak Adapter Mode	Normal
Resolution Bandwidth.....	1MHz

4.4 Test Procedure

For the radiated emissions test, both the EUT and all support equipment power cords were connected to the AC floor outlet since the power supply (U120020D12) used in the EUT did not provide an accessory power outlet.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is 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 limit), and are distinguished with a "Qp" in the data table.

4.5 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:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

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

$$\text{Margin} = \text{Corr. Ampl.} - \text{Class B Limit}$$

4.6 Summary of Test Results

According to the data in section 4.7, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.207, and 15.249 after tested to 10th harmonics as required by FCC and had the worst margin of:

For Base:

-2.7 dB μ V at 3310.83MHz in the Vertical polarization at Low Frequency, 30 MHz to 25GHz

-5.2 dB μ V at 2487.57 MHz in the Horizontal polarization at High Frequency, 30 MHz to 25GHz

For Handset:

-9.6 dB μ V at 959.02 MHz in the **Horizontal polarization at Low Frequency, 30 MHz to 25GHz**

-9.6 dB μ V at 959.02 MHz in the **Horizontal polarization at High Frequency, 30 MHz to 25GHz**

4.7 Radiated Emissions Test Result Data**Base Unit, 30 MHz to 25GHz, 3 meters**

INDICATED			TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 SUBPART C	
Frequency MHz	Ampl. dBμV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBμV/m	Cable DB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
Low Frequency											
3310.830	47.0	AVE	330	1.8	V	30.3	4.0	30.0	51.3	54.0	-2.7
3310.830	41.2	AVE	200	2.0	H	30.3	4.0	30.0	45.5	54.0	-8.5
2400.590	83.8	AVE, FUND	0	1.8	H	28.1	3.4	30.0	85.3	94.0	-8.8
240.000	45.2	PEAK	180	2.0	H	13.8	2.2	25.0	36.2	46.0	-9.8
360.080	42.3	PEAK	90	1.2	V	15.5	2.4	25.0	35.2	46.0	-10.8
930.070	32.4	PEAK	200	2.0	H	23.6	4.1	25.0	35.1	46.0	-10.9
2400.590	81.3	AVE, FUND	30	1.8	V	28.1	3.4	30.0	82.8	94.0	-11.2
375.020	41.2	PEAK	180	2.5	H	15.3	2.4	25.0	33.9	46.0	-12.1
4801.120	31.5	AVE	90	1.5	V	32.5	4.9	30.0	38.9	54.0	-15.1
249.980	39.5	PEAK	30	1.0	V	13.8	2.2	25.0	30.5	46.0	-15.5
3310.800	51.2	PEAK	330	1.8	V	30.3	4.0	30.0	55.5	74.0	-18.5
3310.830	48.1	PEAK	200	2.0	H	30.3	4.0	30.0	52.4	74.0	-21.6
4801.120	41.5	PEAK	270	1.0	H	32.5	4.9	30.0	48.9	74.0	-25.1
4801.120	40.9	PEAK	90	1.5	V	32.5	4.9	30.0	48.3	74.0	-25.7
2400.590	86.7	PEAK, FUND	0	1.8	H	28.1	3.4	30.0	88.1	114.0	-25.9
2400.590	82.7	PEAK, FUND	30	1.8	V	28.1	3.4	30.0	84.1	114.0	-29.9
4801.120	31.2	AVE	270	1.0	H	32.5	4.9	30.0	38.6	74.0	-35.4

Base Unit, 30 MHz to 25GHz, 3 meters (Continued)

INDICATED			TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 SUBPART C	
Frequency MHz	Ampl. dBμV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBμV/m	Cable DB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
High Frequency											
2487.570	46.9	AVE	200	1.8	H	28.1	3.4	30.0	48.4	54.0	-5.7
124.190	45.6	PEAK	200	1.2	V	11.7	1.6	25.0	33.9	43.5	-9.6
2405.320	82.8	AVE, FUND	90	2.0	H	28.1	3.4	30.0	84.3	94.0	-9.7
2405.320	82.3	AVE, FUND	300	1.0	V	28.1	3.4	30.0	83.8	94.0	-10.2
930.020	32.3	PEAK	30	1.2	V	23.6	4.1	25.0	35.0	46.0	-11.0
120.000	43.2	PEAK	45	2.5	H	11.7	1.6	25.0	31.5	43.5	-12.0
234.090	42.9	PEAK	45	2.0	H	12.6	2.2	25.0	32.7	46.0	-13.3
4810.600	32.8	AVE	0	1.5	H	32.5	4.9	30.0	40.2	54.0	-13.8
4810.600	32.8	AVE	0	1.2	V	32.5	4.9	30.0	40.2	54.0	-13.8
144.070	39.8	PEAK	90	1.2	V	12.4	1.6	25.0	28.8	43.5	-14.7
2487.570	55.5	PEAK	200	1.8	H	28.1	3.4	30.0	57.0	74.0	-17.1
234.080	37.8	PEAK	180	1.0	V	12.6	2.2	25.0	27.6	46.0	-18.4
4810.600	41.3	PEAK	0	1.8	V	32.5	4.9	30.0	48.7	74.0	-25.3
4810.600	41.0	PEAK	0	1.5	H	32.5	4.9	30.0	48.4	74.0	-25.6
2405.320	84.2	PEAK, FUDN	90	2.0	H	28.1	3.4	30.0	85.6	114.0	-28.4
2405.320	83.5	PEAK, FUND	300	1.0	V	28.1	3.4	30.0	85.0	114.0	-29.1

Handset Unit, 30 MHz to 25GHz, 3 meters

INDICATED			TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 SUBPART C	
Frequency MHz	Ampl. dBμV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBμV/m	Cable DB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
Low Frequency											
959.020	33.8	PEAK	180	2.0	H	23.3	4.3	25.0	36.4	46.0	-9.6
4944.430	35.2	AVE	180	1.2	V	32.5	4.9	30.0	42.6	54.0	-11.4
257.090	43.9	PEAK	200	2.0	H	13.3	2.2	25.0	34.4	46.0	-11.6
240.000	43.2	PEAK	0	1.2	V	13.8	2.2	25.0	34.2	46.0	-11.8
149.890	41.7	PEAK	30	1.2	V	12.6	1.7	25.0	30.9	43.5	-12.6
72.030	41.9	PEAK	0	1.2	V	9.2	1.2	25.0	27.3	40.0	-12.7
4944.440	33.6	AVE	200	1.5	H	32.5	4.9	30.0	41.0	54.0	-13.0
420.200	38.7	PEAK	180	2.0	H	16.5	2.7	25.0	32.9	46.0	-13.1
2472.220	72.7	AVE, FUND	90	1.2	V	28.1	3.4	30.0	74.2	94.0	-19.9
2472.220	71.8	AVE, FUND	120	1.5	H	28.1	3.4	30.0	73.3	94.0	-20.8
4944.440	45.8	PEAK	200	1.5	H	32.5	4.9	30.0	53.2	74.0	-20.8
4944.430	43.8	PEAK	180	1.2	V	32.5	4.9	30.0	51.2	74.0	-22.8
2472.220	75.8	PEAK, FUND	90	1.2	V	28.1	3.4	30.0	77.3	114.0	-36.8
2472.220	73.2	PEAK, FUND	120	1.5	H	28.1	3.4	30.0	74.7	114.0	-39.4
High Frequency											
959.020	33.8	PEAK	180	2.0	H	23.3	4.3	25.0	36.4	46.0	-9.6
4953.880	36.4	AVE	270	1.5	H	32.5	4.9	30.0	43.8	54.0	-10.2
150.000	42.4	PEAK	90	1.5	V	12.7	1.7	25.0	31.8	43.5	-11.7
480.030	37.8	PEAK	180	2.5	H	18.3	3.1	25.0	34.2	46.0	-11.8
70.080	41.9	PEAK	30	1.2	V	9.2	1.2	25.0	27.3	40.0	-12.7
4953.880	33.4	AVE	200	1.2	V	32.5	4.9	30.0	40.8	54.0	-13.2
257.080	41.4	PEAK	90	1.2	V	13.3	2.2	25.0	31.9	46.0	-14.1
4953.880	45.3	PEAK	270	1.5	H	32.5	4.9	30.0	52.7	74.0	-21.3
2476.940	69.7	AVE, FUND	180	1.0	V	28.1	3.4	30.0	71.2	94.0	-22.9
4953.880	43.2	PEAK	200	1.2	V	32.5	4.9	30.0	50.6	74.0	-23.4
2476.940	68.9	AVE, FUND	90	1.5	H	28.1	3.4	30.0	70.4	94.0	-23.7
2476.940	72.3	PEAK, FUND	90	1.5	H	28.1	3.4	30.0	73.8	114.0	-40.3
2476.940	71.8	PEAK, FUND	180	1.0	V	28.1	3.4	30.0	73.3	114.0	-40.8

Note:

FUND: Fundamental

5 - BAND EDGES TESTING

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.

5.1 Test Procedure

The antenna was removed and a low loss RF cable was connected to the transmitter output. The other end of cable was connected to a spectrum analyzer with the START and STOP frequencies set to the operation band. Transmitter output was read off the spectrum analyzer in dBm. The power output at the transmitter was determined by adding the value of the attenuator to the spectrum analyzer reading.

The test was performed for handset and the base respectively.

5.2 Test Equipment

HP 8566B Spectrum Analyzer
HP 7470A Plotter

5.3 Test Results

Refer to the attached plots.

Base - Low Frequency
Handset - High Frequency

