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

FCC ID: O63MH9116

June 20, 2001

This Report Concerns:	**Equipment Type:**
☒ Original Report	Cordless Telephone– Household Appliances

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Test Date: June 13, 2001

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TABLE OF CONTENTS

1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

The *LIONDA TECHNOLOGY CO., LTD.'s* product, model no.: *MH9116* or the "EUT" as referred to in this report is a 902-928 MHz cordless telephone. EUT was composed of two parts, one is a Handset which is measured approximately 8.125" L x 2.25" W x 1.55"H, and the other is a Base which measures about 5.50"L x 5.45"W x 2.50"H.

1.2 Objective

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the 902-928 MHz cordless telephone, model no. *MH9116*. The EMI measurements were performed according to the measurement procedure described in ANSI C63.6: 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 Submittals

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 Bay Area Compliance Laboratory, Corp. 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 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, Suite 2, 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 C63.4-1992.

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, Bay Area Compliance Laboratory Corporation is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (NVLAP). The scope of the accreditation covers the FCC Method - 47 CFR Part 15 - Digital Devices, IEC/CISPR 22: 1998, and AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment test methods under NVLAP Lab Code 200167-0.

1.6 Test Equipment List

Manufacturer	Description	Model	Serial Number	Cal. Due Data
HP	Spectrum Analyzer	8566B	2610A02165	12/6/2001
HP	Spectrum Analyzer	8593B	2919A00242	12/20/2001
HP	Amplifier	8349B	2644A02662	12/20/2001
HP	Quasi-Peak Adapter	85650A	917059	12/6/2001
HP	Amplifier	8447E	1937A01046	12/6/2001
A.H. System	Horn Antenna	SAS0200/571	261	12/27/2001
Com-Power	Log Periodic Antenna	AL-100	16005	11/2/2001
Com-Power	Biconical Antenna	AB-100	14012	11/2/2001
Solar Electronics	LISN	8012-50-R-24-BNC	968447	12/28/2001
Com-Power	LISN	LI-200	12208	12/20/2001
Com-Power	LISN	LI-200	12005	12/20/2001
BACL	Data Entry Software	DES1	0001	12/20/2001

1.7 Equipment Under Test (EUT)

Manufacturer	Description	Model	Serial Number	FCC ID
LIONDA TECHNOLOGY CO., LTD.	902-928 MHz Cordless Telephone	MH9116	None	O63MH9116

1.8 Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
TELTONE CORP.	Simulator	TLS-3B-01	80071	DOC
PANASONIC	Telephone	KX-T3175	6IBTB142741	ACJMLA-75986-MT-E

1.9 External I/O Cabling List and Details

Cable Description	Length (M)	Port/From	To
Unshielded RJ 11 telephone cable	2.0	Simulator RJ 11 Port	EUT
Unshielded RJ 11 telephone cable	2.0	Simulator RJ 11 Port	Telephone

2 - SYSTEM TEST CONFIGURATION

2.1 Description of Test Configuration

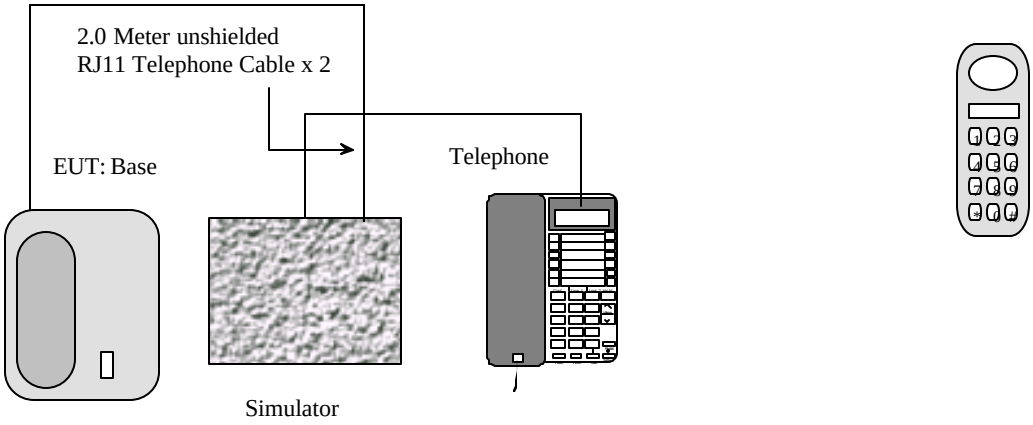
The EUT was configured for testing in a typical fashion (as normally used by a typical user).

Handset being tested: The EUT 902-928 MHz cordless telephone– Handset, Model MH9116 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, middle, 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 2.5.

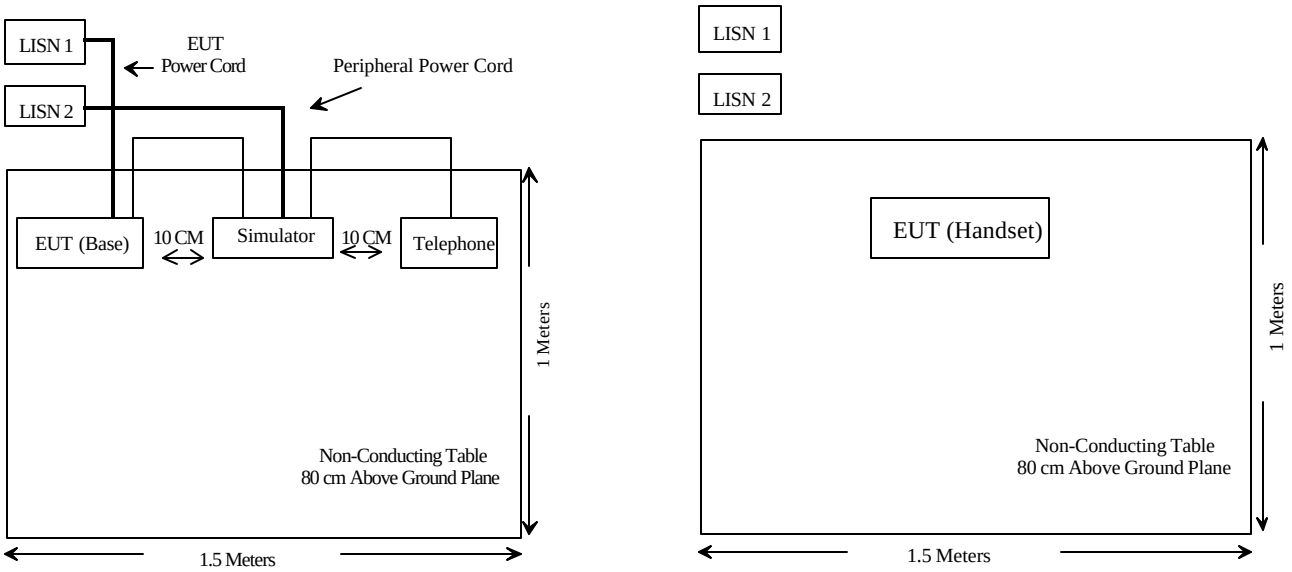
Base being tested: The EUT 902-928 MHz cordless telephone – Base, Model MH9116 was placed on the wooden table. The Low, middle, and high channels were tested. The base was connected to the line simulator and an AC adapter via its Tel Line and power ports, respectively. The base was transmitting and receiving from the 902-928 MHz Analog Cordless Phone – 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 2.4.

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 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 $\pm$2.4 dB.

3.2 EUT Setup

The measurement was performed at the **O**pen **A**rea **T**est **S**ite, using the same setup per ANSI C63.4 - 1992 measurement procedure. Specification used was with the FCC Class B limits.

The Base of EUT was connected to a 110 VAC / 60 Hz power source and it was placed center and the back edge of the test table. The simulator was placed on one side of the EUT base, and the telephone was placed on the other side the EUT base. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.

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	450 kHz
Stop Frequency	30 MHz
Sweep Speed	Auto
IF Bandwidth	100 kHz
Video Bandwidth	100 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 with the *BELL PHONES* (U090030D) power adapter 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:

- 17.8 dBmV at **0.630 MHz** in the **Line** mode for the ***BELL PHONES***, Model U090030D power adapter.

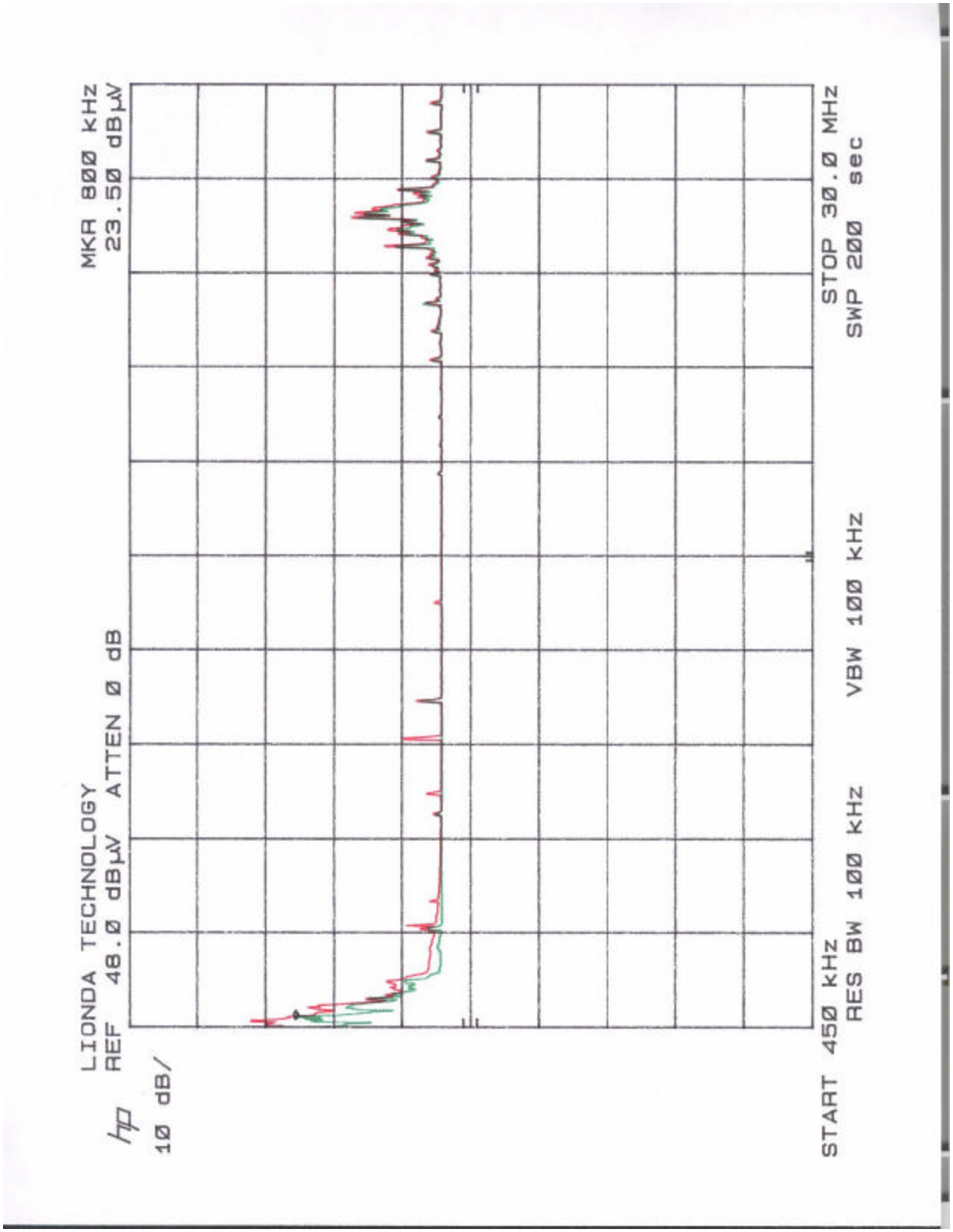
3.6 Conducted Emissions Test Data

3.6.1 Test Data for *BELL PHONES*, model U090030D, 0.45 - 30 MHz.

LINE CONDUCTED EMISSIONS				FCC CLASS B	
Frequency	Amplitude	Detector	Phase	Limit	Margin
MHz	dBµV	Qp/Ave/Peak	Line/Neutral	dBµV	dB
0.630	30.2	QP	Line	48	-17.8
0.800	23.5	QP	Neutral	48	-24.5
1.070	21.8	QP	Line	48	-26.2
1.070	16.2	QP	Neutral	48	-31.8
25.830	15.4	QP	Line	48	-32.6
25.830	14.5	QP	Neutral	48	-33.5

3.7 Plot of Conducted Emissions Test Data

Plot of Conducted Emissions test data for the *BELL PHONES Power Adapter*, model U090030D is presented hereinafter as reference.


MKR 800 kHz
23.50 dBµV
LIONDA TECHNOLOGY
REF 48.0 dBµV ATTEN 0 dB
10 dB/
START 450 kHz
RES BW 100 kHz
VBW 100 kHz
STOP 30.0 MHz
SWP 200 sec

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 $\pm$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 Base of EUT was connected to a 110 VAC / 60 Hz power source and it was placed center and the back edge of the test table. The simulator was placed on one side of the EUT base, and the telephone was placed on the other side the EUT base. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.

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 5000 MHz.

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

Start Frequency	30 MHz
Stop Frequency	5000 MHz
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 (U090030D) 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:

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 -7dBμV means the emission is 7dBμV below the maximum limit for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. - 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 10^{th} harmonics as required by FCC and had the worst margin of:

Field Strength:

- 5.9 dBmV at **400.93 MHz** in the **Horizontal** polarization, **30MHz to 5000 MHz, 3 meters**.

For Base:

-4.1 dBmV (Ave.) at **1804.24 MHz** in the **Vertical** polarization at Low Channel, **30 to 5000 MHz, 3 meters.**

-5.3 dBmV (Ave.) at **1805.38 MHz** in the **Vertical** polarization at Middle Channel, **30 to 5000 MHz, 3 meters.**

-3.8 dBmV (Ave.) at **1806.58 MHz** in the **Vertical** polarization at High Channel, **30 to 5000 MHz, 3 meters.**

For Handset:

-9.0 dBmV (Ave.) at **1852.24 MHz** in the **Horizontal** polarization at Low Channel, **30 to 5000 MHz, 3 meters.**

-7.5 dBmV (Ave.) at **1853.38 MHz** in the **Horizontal** polarization at Middle Channel, **30 to 5000 MHz, 3 meters.**

-6.8 dBmV (Ave.) at **1855.58 MHz** in the **Horizontal** polarization at High Channel, **30 to 5000 MHz, 3 meters.**

4.7 Radiated Emissions Test Result Data

4.7.1 Final Test Data, 30 MHz to 1000 MHz, 3 meters.

INDICATED		TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency MHz	Ampl. dBmV/m	Angle Degree	Height Meter	Polar H/ V	Antenna dBmV/m	Cable dB	Amp. dB	Corr. Ampl. dBmV/m	Limit dBmV/m	Margin dB
400.93	43.2	320	2.2	H	16.5	2.9	22.5	40.1	46	-5.9
400.93	42.3	180	1.2	V	16.5	2.9	22.5	39.2	46	-6.8
601.41	37.4	270	1.2	V	20.1	3.0	22.8	37.7	46	-8.3
110.98	41.7	270	3.2	H	11.7	1.3	20.8	33.9	43.5	-9.6
601.41	35.9	270	2.2	H	20.1	3.0	22.8	36.2	46	-9.8
300.69	39.3	180	2.2	H	15.1	4.6	22.9	36.1	46	-9.9
300.69	38.6	90	1.2	V	15.1	4.6	22.9	35.4	46	-10.6
110.98	38.8	180	1.2	V	11.7	1.3	20.8	31.0	43.5	-12.5
272.05	35.3	180	2.2	H	13.9	5.2	21.4	33.0	46	-13.0
157.52	35.7	230	3.2	H	13.0	2.0	20.4	30.3	43.5	-13.2
157.52	35.5	90	1.2	V	13.0	2.0	20.4	30.1	43.5	-13.4
272.05	34.0	45	1.2	V	13.9	5.2	21.4	31.7	46	-14.3
286.37	32.2	245	2.2	H	14.6	5.8	21.6	31.0	46	-15.0
443.87	32.6	45	2.2	H	17.4	2.7	22.4	30.3	46	-15.7

4.7.2 Final Test Data, Base Unit, Low Channel, 30 MHz to 5000 MHz, 3 meters.

INDICATED			TABLE	ANTENNA		CORRECTION FACTO			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency MHz	Ampl. dBmV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBmV/m	Cable dB	Amp. dB	Corr. Ampl. dBmV/m	Limit dBmV/m	Margin dB
902.12	96.9		230	1.2	V	24.8	3.0	30.0	94.7		
902.12	95.4		230	1.4	H	24.8	3.0	30.0	93.2		
1804.24	52.0	Ave	270	1.2	V	25.3	2.6	30.0	49.9	54.0	-4.1
1804.24	48.2	Ave	270	1.4	H	25.3	2.6	30.0	46.1	54.0	-7.9
1804.24	53.0	Peak	270	1.2	V	25.3	2.6	30.0	50.9	74.0	-23.1
1804.24	49.6	Peak	270	1.4	H	25.3	2.6	30.0	47.5	74.0	-26.5
2706.36	19.9	Ave	90	1.2	H	29.0	3.7	30.0	22.6	54.0	-31.4
2706.36	19.6	Ave	90	1.2	V	29.0	3.7	30.0	22.3	54.0	-31.7
2706.36	30.9	Peak	90	1.2	H	29.0	3.7	30.0	33.6	74.0	-40.4

4.7.3 Final Test Data, Base Unit, Middle Channel, 30MHz to 5000 MHz, 3 meters.

INDICATED			TABLE	ANTENNA		CORRECTION FACTO			CORRECTEI AMPLITUDI	FCC 15 Subpart C	
Frequency MHz	Ampl. dBmV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBmV/m	Cable dB	Amp. dB	Corr. Ampl. dBmV/m	Limit dBmV/m	Margin dB
902.69	96.8		180	1.4	V	24.8	3.0	30.0	94.6		
902.69	95.6		90	1.4	H	24.8	3.0	30.0	93.4		
1805.38	50.8	Ave	180	1.2	V	25.3	2.6	30.0	48.7	54.0	-5.3
1805.38	47.6	Ave	45	1.2	H	25.3	2.6	30.0	45.5	54.0	-8.5
1805.38	51.6	Peak	180	1.2	V	25.3	2.6	30.0	49.5	74.0	-24.5
1805.38	50.8	Peak	45	1.2	H	25.3	2.6	30.0	48.7	74.0	-25.3
2708.07	21.4	Ave	340	1.4	V	29.0	3.7	30.0	24.1	54.0	-29.9
2708.07	21.2	Ave	340	1.6	H	29.0	3.7	30.0	23.9	54.0	-30.1
2708.07	30.0	Peak	340	1.6	H	29.0	3.7	30.0	32.7	74.0	-41.3
2708.07	29.9	Peak	340	1.4	V	29.0	3.7	30.0	32.6	74.0	-41.4

4.7.4 Final Test Data, Base Unit, High Channel, 30MHz to 5000 MHz, 3 meters.

INDICATED			TABLE	ANTENNA		CORRECTION FACTO			CORRECTEI AMPLITUDI	FCC 15 Subpart C	
Frequency MHz	Ampl. dBmV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBmV/m	Cable dB	Amp. dB	Corr. Ampl. dBmV/m	Limit dBmV/m	Margin dB
903.29	96.8		245	1.4	V	24.8	3.0	30.0	94.6		
903.29	95.2		180	1.6	H	24.8	3.0	30.0	93.0		
1806.58	52.3	Ave	270	1.4	V	25.3	2.6	30.0	50.2	54.0	-3.8
1806.58	47.7	Ave	270	1.4	H	25.3	2.6	30.0	45.6	54.0	-8.4
1806.58	52.8	peak	270	1.4	V	25.3	2.6	30.0	50.7	74.0	-23.3
1806.58	48.8	Peak	270	1.4	H	25.3	2.6	30.0	46.7	74.0	-27.3
2709.77	21.0	Ave	90	1.2	H	29.0	3.7	30.0	23.7	54.0	-30.3
2709.77	19.8	Ave	145	1.2	V	29.0	3.7	30.0	22.5	54.0	-31.5
2709.77	31.0	peak	145	1.2	V	29.0	3.7	30.0	33.7	74.0	-40.3
2709.77	30.6	Peak	90	1.2	H	29.0	3.7	30.0	33.3	74.0	-40.7

4.7.5 Final Test Data, Handset Unit, Low Channel, 30 MHz to 5000 MHz, 3 meters.

INDICATED			TABLE	ANTENNA		CORRECTION FACTO			CORRECTEI AMPLITUDI	FCC 15 Subpart C	
Frequency MHz	Ampl. dBmV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBmV/m	Cable dB	Amp. dB	Corr. Ampl. dBmV/m	Limit dBmV/m	Margin dB
926.12	95.3		45	1.4	V	24.7	4.4	30.0	94.4		
926.12	96.3		45	1.4	H	24.7	4.4	30.0	95.4		
1852.24	47.1	Ave	90	1.2	H	25.3	2.6	30.0	45.0	54.0	-9.0
1852.24	45.4	Ave	180	1.2	V	25.3	2.6	30.0	43.3	54.0	-10.7
1852.24	47.3	Peak	90	1.2	H	25.3	2.6	30.0	45.2	74.0	-28.8
1852.24	46.7	Peak	180	1.2	V	25.3	2.6	30.0	44.6	74.0	-29.4

4.7.6 Final Test Data, Handset Unit, Middle Channel, 30 MHz to 5000 MHz, 3 meters.

INDICATED			TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency MHz	Ampl. DBmV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBmV/m	Cable dB	Amp. dB	Corr. Ampl. dBmV/m	Limit dBmV/m	Margin dB
926.69	94.0		360	1.2	V	24.7	4.4	30.0	93.1		
926.69	96.7		150	1.4	H	24.7	4.4	30.0	95.8		
1853.38	48.6	Ave	180	1.4	H	25.3	2.6	30.0	46.5	54.0	-7.5
1853.38	43.8	Ave	180	1.2	V	25.3	2.6	30.0	41.7	54.0	-12.3
1853.38	49.6	peak	180	1.4	H	25.3	2.6	30.0	47.5	74.0	-26.5
1853.38	45.1	peak	180	1.2	V	25.3	2.6	30.0	43.0	74.0	-31.0

4.7.7 Final Test Data, Handset Unit, High Channel, 30 MHz to 5000 MHz, 3 meters.

INDICATED			TABLE	ANTENNA		CORRECTION FACTO			CORRECTEI AMPLITUDI	FCC 15 Subpart C	
Frequency MHz	Ampl. dBmV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dBmV/m	Cable dB	Amp. dB	Corr. Ampl. dBmV/m	Limit dBmV/m	Margin dB
927.29	97.7		360	1.2	V	24.7	4.4	30.0	96.8		
927.29	95.9		180	1.6	H	24.7	4.4	30.0	95.0		
1855.58	49.3	Ave	230	1.6	H	25.3	2.6	30.0	47.2	54.0	-6.8
1855.58	40.8	Ave	230	1.2	V	25.3	2.6	30.0	38.7	54.0	-15.3
1855.58	49.5	Peak	230	1.6	H	25.3	2.6	30.0	47.4	74.0	-26.6
1855.58	42.8	Peak	230	1.2	V	25.3	2.6	30.0	40.7	74.0	-33.3

Note: No more apparent emission found after the first harmonics for handset unit.

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.

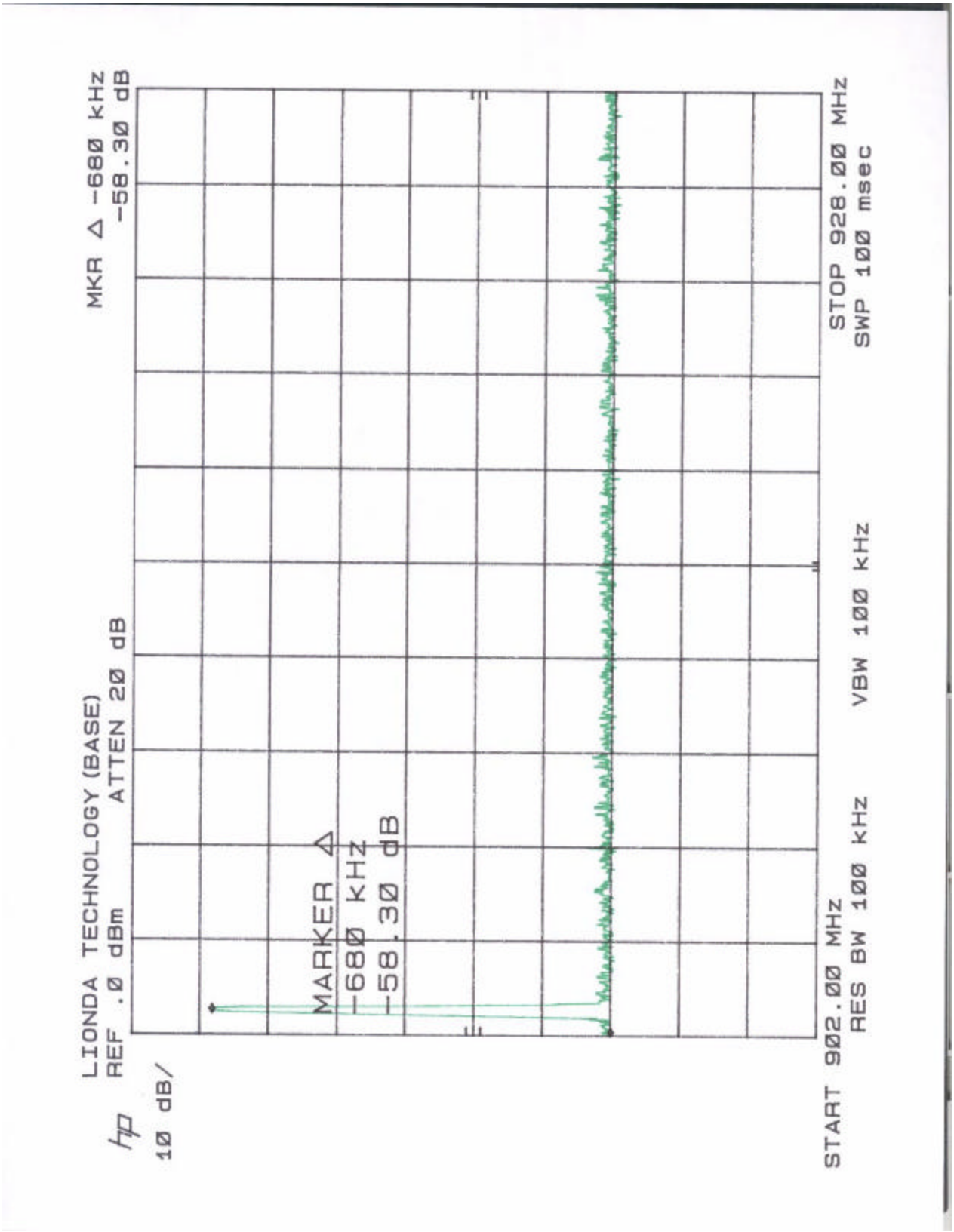
5.2 Test Equipment

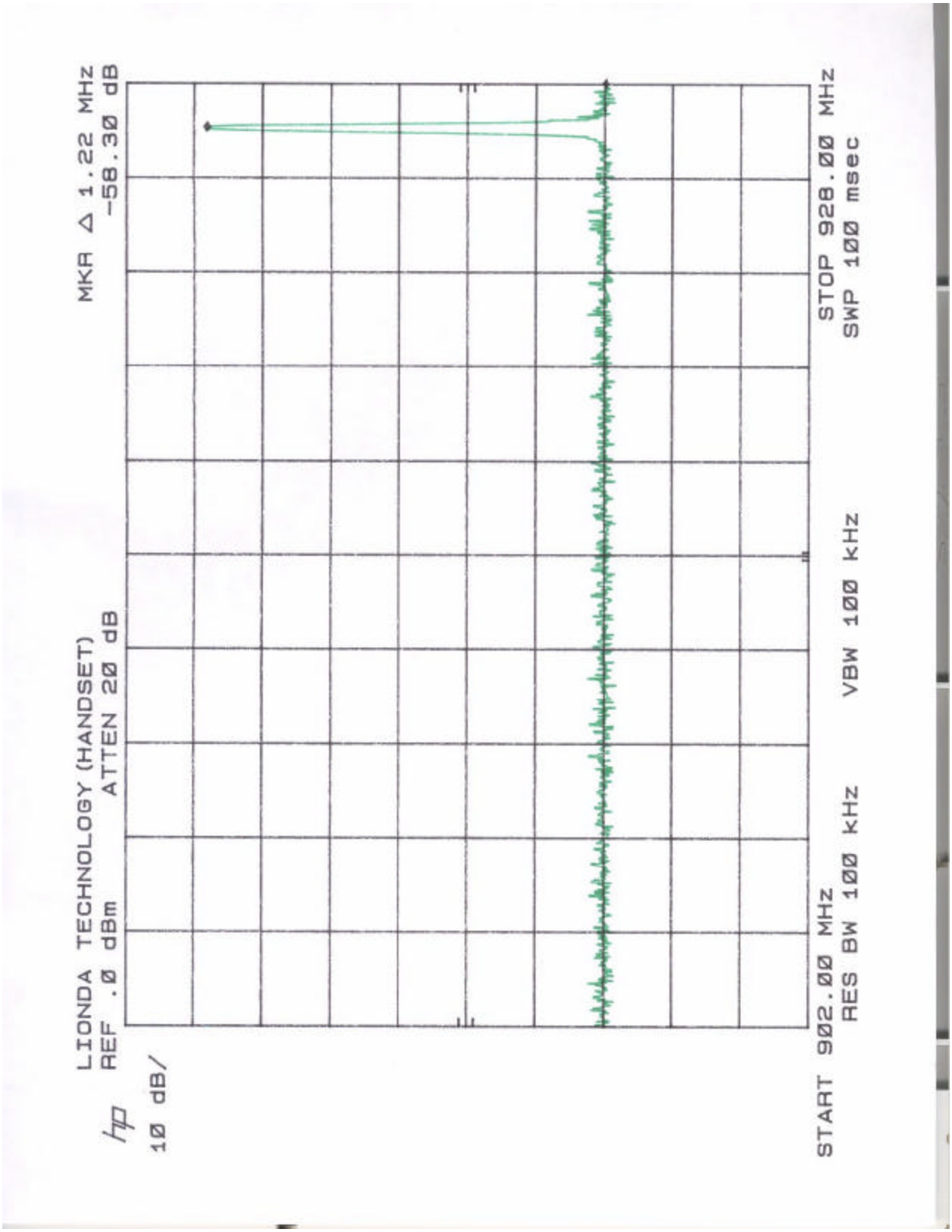
HP 8566B Spectrum Analyzer
HP 7470A Plotter

5.3 Test Results

Refer to the attached plots.

Band Edge	
Base	Page 18
Handset	Page 19


LIONDA TECHNOLOGY (BASE)
REF .0 dBm
ATTEN 20 dB
10 dB/
MKR Δ -680 kHz
-58.30 dB
MARKER Δ
-680 kHz
-58.30 dB
START 902.00 MHz
RES BW 100 kHz
VBW 100 kHz
STOP 928.00 MHz
SWP 100 msec


LIONDA TECHNOLOGY (HANDSET)
REF .0 dBm ATTEN 20 dB
MKR Δ 1.22 MHz
-58.30 dB
10 dB/
START 902.00 MHz
RES BW 100 kHz
VBW 100 kHz
STOP 928.00 MHz
SWP 100 msec