FCC PART 15 Subpart C

EMI MEASUREMENT AND TEST REPORT

For

Lionda Technology Company Limited

Block 2 Laodong 2nd Industrial Area, Xixian, Baoan,
Shenzhen, Guangdong, China 518102

FCC ID: O63BE24DCDLD03

2003-09-05

This Report Concerns:	Equipment Type:
☒ Original Report	2.4GHz Digital Cordless Telephone System - Household Appliances

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1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Lionda Technology Company Limited's product, FCC ID: O63BE24DCDLD03, Model No.: *BE-24DC/BE-24DCM* or the "EUT" as referred to in this report is a 2.4GHz 77-Channel DSS Cordless Telephone. The EUT was composed of two parts, one is the base which measures approximately 5.5" L x 5.25"W x 3.5" H, and the other is the handset which measures 6.0"L x 2.0" W x 1.1" H.

The base unit of the EUT was fed by the Bell South AC/DC Adapter, M/N: U090015D12.

** The test data gathered are from typical production samples provided by the manufacturer.*

1.2 Objective

This type approval report is prepared on behalf of. *Lionda Technology Company Limited* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The objective of the manufacturer is to demonstrate compliance with FCC rules for Output Power, Antenna Requirements, 6 dB Bandwidth, power density, 100 kHz Bandwidth of Band Edges Measurement, Conducted and Spurious Radiated Emission, and processing gain.

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, 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, CISPR 22: 1997, 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 Date
HP	Spectrum Analyzer	8568B	2517A01610	2003-10-30
HP	Amplifier	8447E	2944A07030	2004-06-28
HP	Quasi-Peak Adapter	85650A	2521A00718	2004-03-08
Com-Power	Biconical Antenna	AB-100	14012	2003-09-05
Com-Power	Log Periodic Antenna	AL-100	16005	2004-08-23
Com-Power	Log Periodic Antenna	AB-900	15049	2004-05-01
Agilent	Spectrum Analyzer (9KHz – 40GHz)	8564E	3943A01781	2004-08-01
Agilent	Spectrum Analyzer (9KHz – 50GHz)	8565EC	3946A00131	2004-05-03
HP	Amplifier (1-26.5GHz)	8449B	3147A00400	2004-03-14
A.H.System	Horn Antenna (700MHz-18GHz)	SAS-200/571	261	2004-05-31

*** Statement of Traceability: Bay Area Compliance Laboratory Corp.** certifies that all calibration has been performed using suitable standards traceable to the NATIONAL INSTITUTE of STANDARDS and TECHNOLOGY (NIST).

1.7 Local Support Equipment

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

1.8 External I/O Cabling List and Details

Cable Description	Length (M)	Port/From	To
None-Shielded RJ-11 Cable	1.8	RJ-11 Port/EUT	Simulator RJ11Port
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).

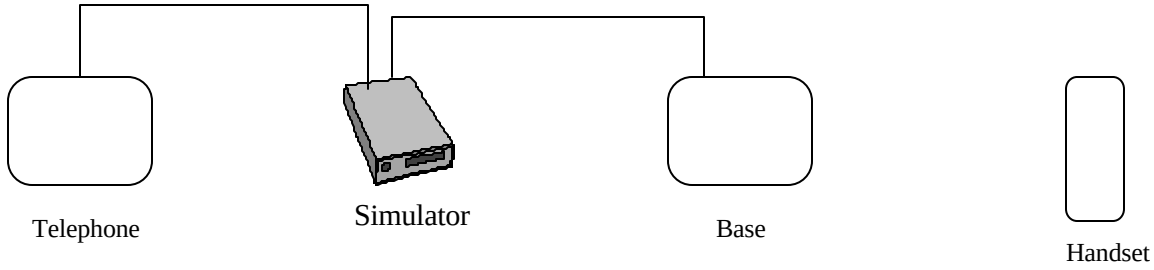
Handset being tested: The Cordless Telephone - Handset, Model BE-24DC/BE-24DCMwas placed on the wooden table and tested in three orthogonal axis. The Low, middle, and high channels were tested. The handset was transmitting to and receiving from the base unit. The EUT was investigated for emissions while 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 2.3.

Base being tested: The Cordless Telephone – Base, Model BE-24DC/BE-24DCMwas 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 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.

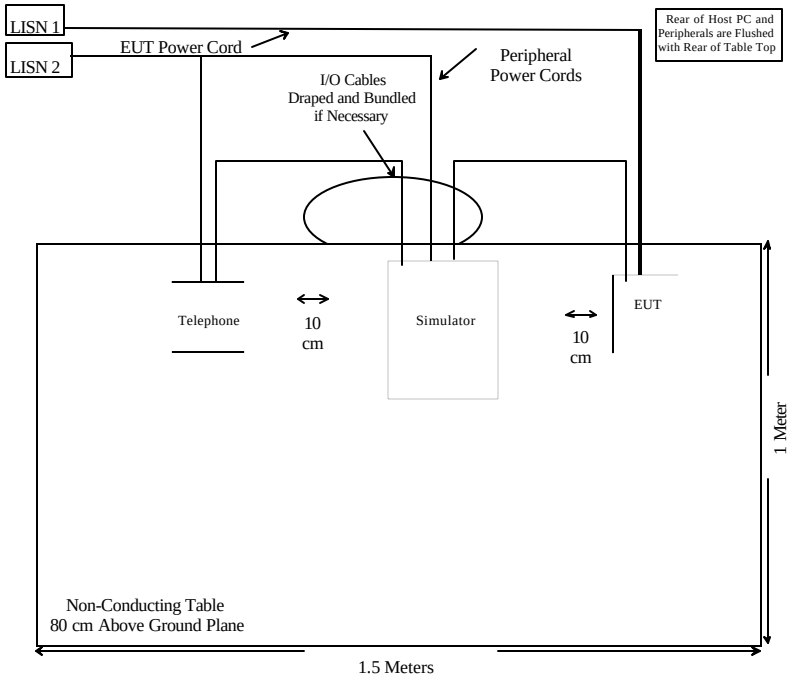
2.2 Equipment Modifications

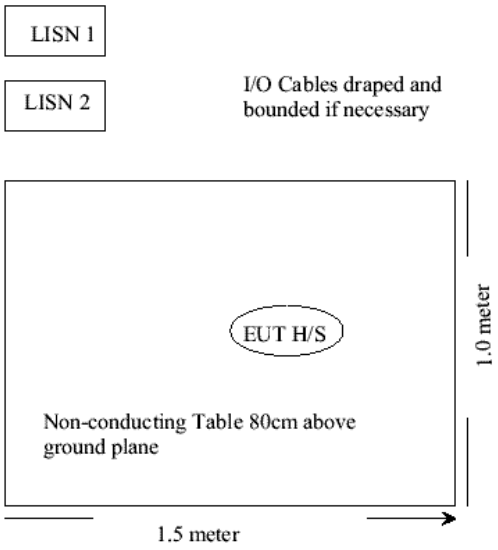
No modification(s) was made by BACL Corp. to ensure the EUT complies with the applicable limits and standards.

2.3 Configuration of Test System



2.4 Test Setup Block Diagram





3 - SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT	Section Reference
§ 15.205	Restricted Bands	Compliant	Section 12
§ 2.1091	RF Safety Requirements	Compliant	Section 10
§15.203	Antenna Requirement	Compliant	Section 9
§15.207 (a)	Conducted Emission	Compliant	Section 12
§15.209 (a)	Radiated Emission	Compliant	Section 11
§15.209 (f)	Spurious Emission	Compliant	Section 6
§15.247 (a) (2)	6 dB Bandwidth	Compliant	Section 5
§15.247 (b) (2)	Peak Output Power	Compliant	Section 4
§15.247 (b) (4)	RF Exposure	Compliant	Section 10
§ 15.247 (c)	100 kHz Bandwidth of Frequency Band Edges	Compliant	Section 7
§15.247 (d)	Peak Power Spectral Density	Compliant	Section 8

4 - CONDUCTED OUTPUT POWER MEASUREMENT

4.1 Standard Applicable

According to §15.247(b) (2), for all direct sequence systems, the maximum peak output power of the intentional radiator shall not exceed 1 Watt.

4.2 Measurement Procedure

1. Place the EUT on the turntable and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

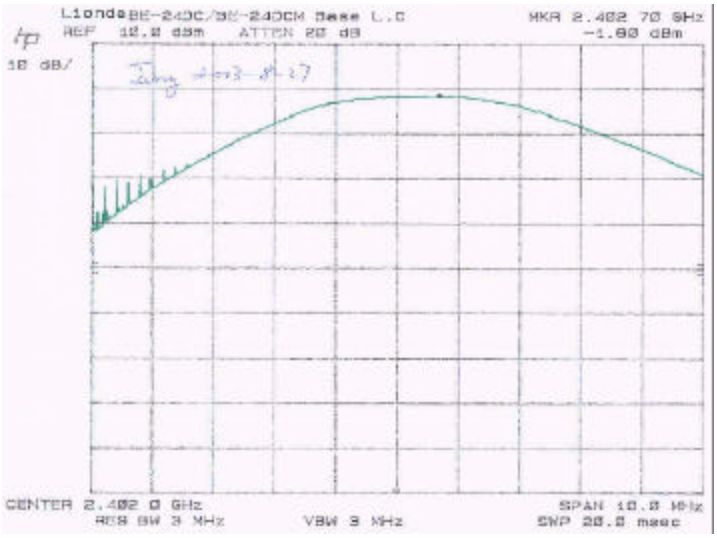
4.3 Measurement Result

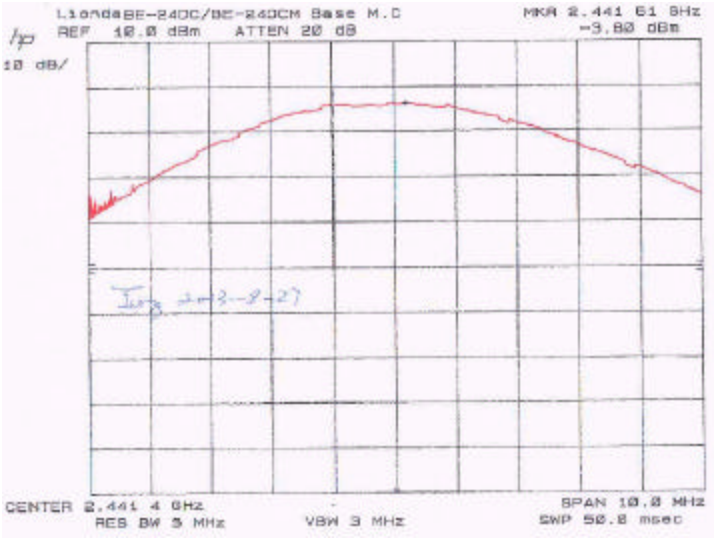
Please refer to the attached pictures for more information.

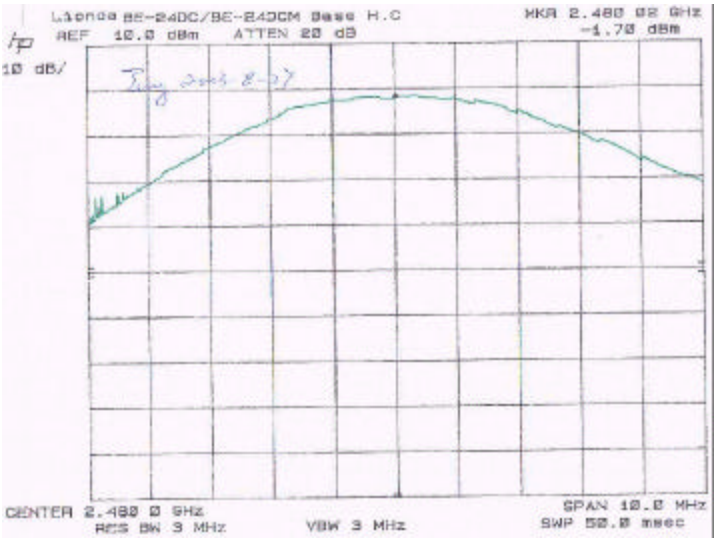
Unit	Channel	Frequency	Output Power (dBm)	Output Power (W)	Standard (W)	Result
Base	Low	2402	-1.60	0.00069	≤ 1W	Compliant
Base	Mid	2441	-3.80	0.00042	≤ 1W	Compliant
Base	High	2480	-1.70	0.00068	≤ 1W	Compliant
Handset	Low	2402	-1.90	0.00065	≤ 1W	Compliant
Handset	Mid	2441	-1.60	0.00069	≤ 1W	Compliant
Handset	High	2480	-2.40	0.00058	≤ 1W	Compliant

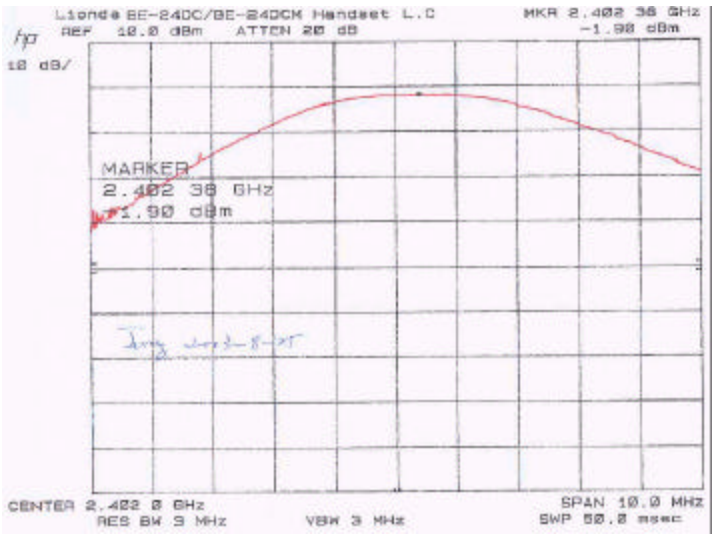
4.4 Test Equipment

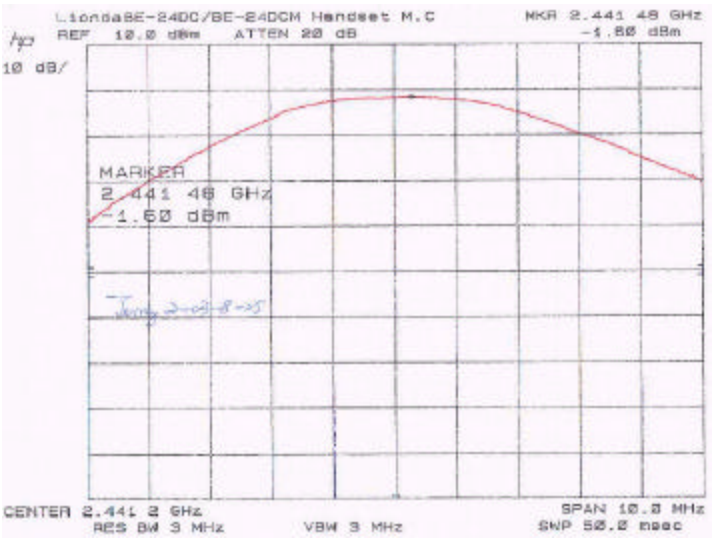
Manufacturer	Model No.	Serial No.	Calibration Due Date
HP	8568B	2610A02165	12/6/03
HP	8593B	2919A0242	12/20/03

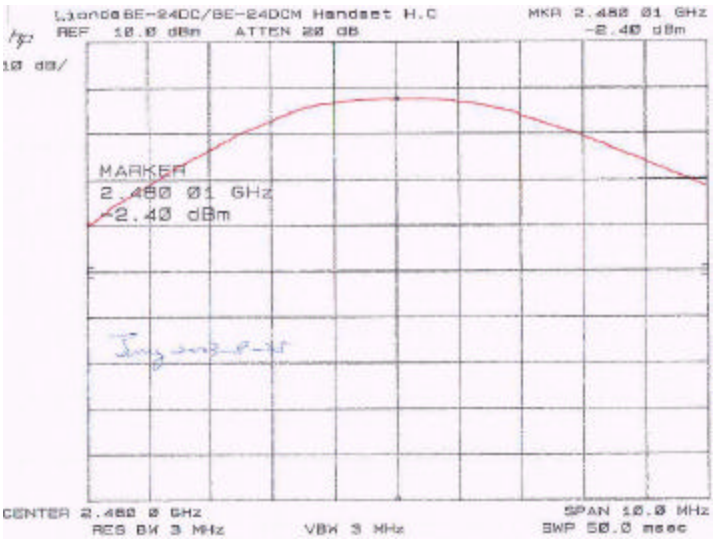

LiondaBE-24DC/BE-24DCM Base L.C
MKR 2.402 70 GHz
REF 10.0 dBm ATTEN 20 dB
-1.80 dBm
10 dB/
CENTER 2.402 0 GHz
RES BW 3 MHz
VBW 3 MHz
SPAN 10.0 MHz
SWP 20.0 msec


LiondaBE-24DC/BE-24DCM Base M.C
MKR 2.441 61 GHz
REF 10.0 dBm ATTEN 20 dB
-3.80 dBm
10 dB/
CENTER 2.441 4 GHz
RES BW 3 MHz
VBW 3 MHz
SPAN 10.0 MHz
SWP 50.0 msec


LiondaBE-24DC/BE-24DCM Base H.C
MKR 2.480 02 GHz
REF 10.0 dBm ATTEN 20 dB
-1.70 dBm
10 dB/
CENTER 2.480 0 GHz
RES BW 3 MHz
VBW 3 MHz
SPAN 10.0 MHz
SWP 50.0 msec


Lionda BE-24DC/BE-24DCM Handset L.C
MKR 2.402 38 GHz
REF 10.0 dBm ATTEN 20 dB
-1.90 dBm
10 dB/
MARKER
2.402 38 GHz
-1.90 dBm
CENTER 2.402 0 GHz
RES BW 3 MHz
VBW 3 MHz
SPAN 10.0 MHz
SWP 50.0 msec


LiondaBE-24DC/BE-24DCM Handset M.C
MKR 2.441 48 GHz
REF 10.0 dBm ATTEN 20 dB
-1.60 dBm
10 dB/
MARKER
2.441 48 GHz
-1.60 dBm
CENTER 2.441 2 GHz
RES BW 3 MHz
VBW 3 MHz
SPAN 10.0 MHz
SWP 50.0 msec


LiondaBE-24DC/BE-24DCM Handset H.C
MKR 2.480 01 GHz
REF 10.0 dBm ATTEN 20 dB
-2.40 dBm
10 dB/
MARKER
2.480 01 GHz
-2.40 dBm
CENTER 2.480 0 GHz
RES BW 3 MHz
VBW 3 MHz
SPAN 10.0 MHz
SWP 50.0 msec

5 - 6 DB BANDWIDTH

5.1 Standard Applicable

According to §15.247(a)(2), for direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

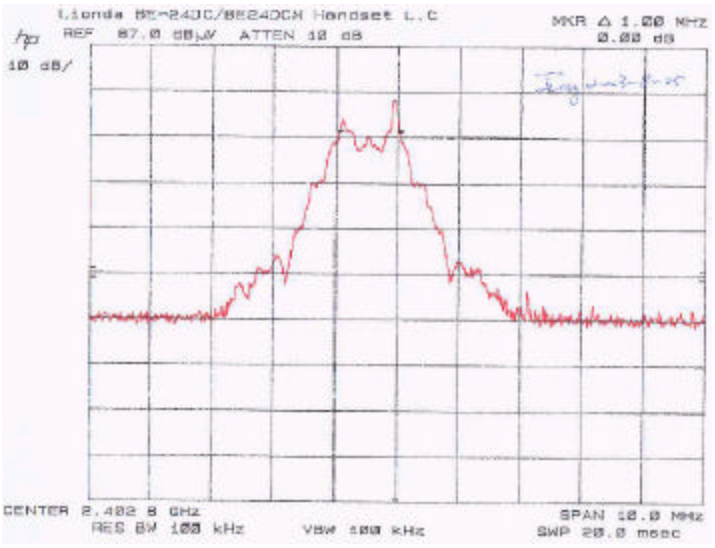
5.2 Measurement Procedure

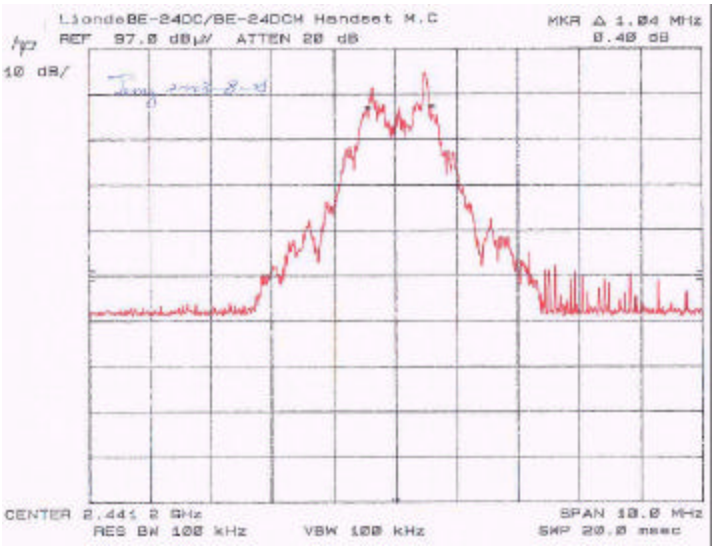
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

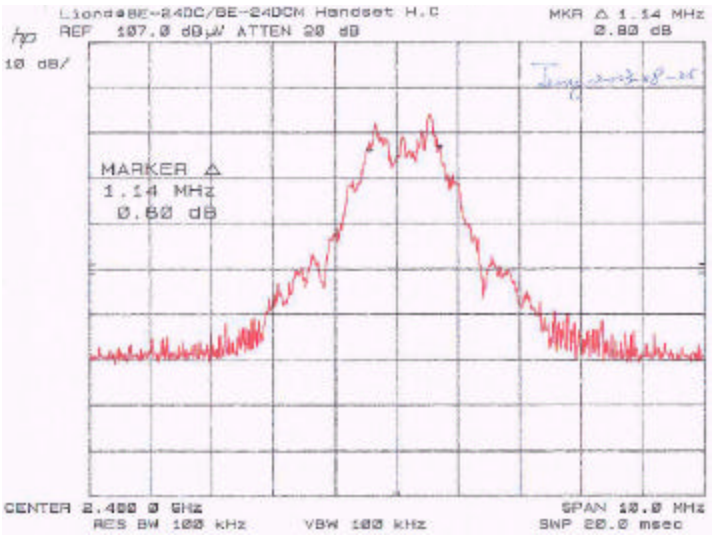
5.3 Measurement Data

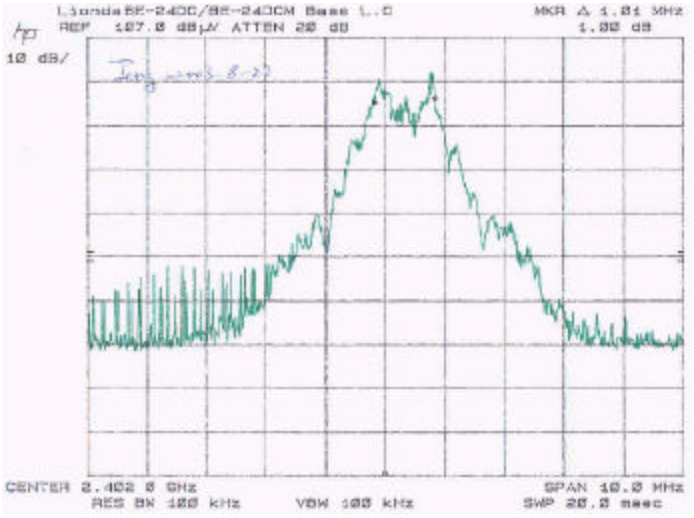
Please refer to the following pages.

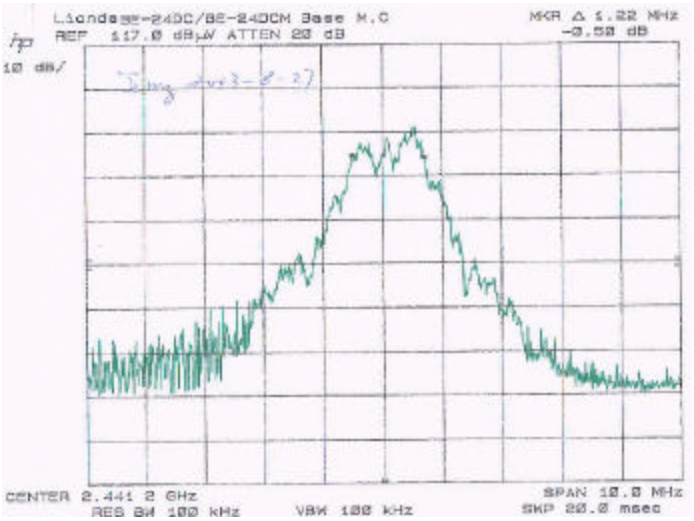
Channel Bandwidth	Test Result (Base and Handset)
Low Channel	Compliant
Middle Channel	Compliant
High Channel	Compliant

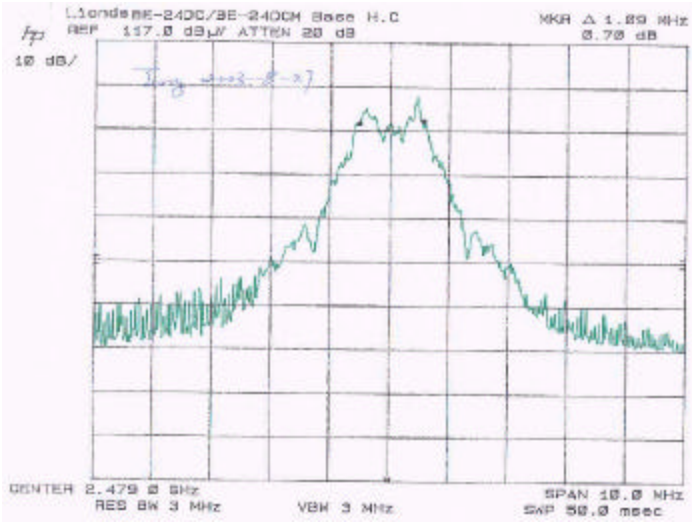

Lionda BE-24DC/BE24DCM Handset L.C
REF 97.0 dBµV ATTEN 10 dB
MKR Δ 1.00 MHz
0.00 dB
10 dB/
CENTER 2.402 8 GHz
RES BW 100 kHz
VBW 100 kHz
SPAN 10.0 MHz
SWP 20.0 msec


LiondaBE-24DC/BE-24DCM Handset M.C
REF 97.0 dBµV ATTEN 20 dB
MKR Δ 1.04 MHz
0.40 dB
10 dB/
CENTER 2.441 2 GHz
RES BW 100 kHz
VBW 100 kHz
SPAN 10.0 MHz
SWP 20.0 msec


LiondaBE-24DC/BE-24DCM Handset H.C
REF 107.0 dBµV ATTEN 20 dB
MKR Δ 1.14 MHz
0.80 dB
10 dB/
MARKER Δ
1.14 MHz
0.80 dB
CENTER 2.480 0 GHz
RES BW 100 kHz
VBW 100 kHz
SPAN 10.0 MHz
SWP 20.0 msec


Lionda BE-24DC/BE-24DCM Base L.C
MKR Δ 1.81 MHz
1.00 dB
REF 107.0 dBμV ATTEN 20 dB
10 dB/
CENTER 2.402 0 GHz
SPAN 10.0 MHz
RES BW 100 kHz
VBW 100 kHz
SWP 20.0 msec


Lionda BE-24DC/BE-24DCM Base M.C
MKR Δ 1.22 MHz
-0.50 dB
REF 117.0 dBμV ATTEN 20 dB
10 dB/
CENTER 2.441 2 GHz
SPAN 10.0 MHz
RES BW 100 kHz
VBW 100 kHz
SWP 20.0 msec


Lionda BE-24DC/BE-24DCM Base H.C
MKR Δ 1.89 MHz
0.70 dB
REF 117.0 dBμV ATTEN 20 dB
10 dB/
CENTER 2.479 0 GHz
SPAN 10.0 MHz
RES BW 3 MHz
VBW 3 MHz
SWP 50.0 msec

6 - SPURIOUS EMISSION

6.1 Standard Applicable

According to §15.209 (f) and §15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation f a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in §15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in §15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit.

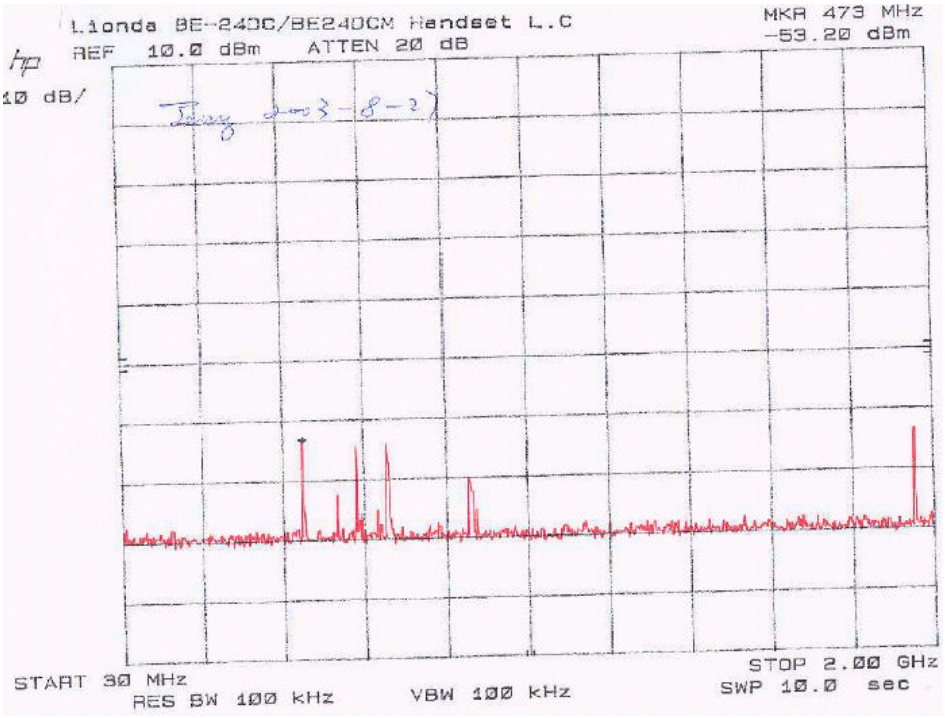
6.2 Measurement Procedure

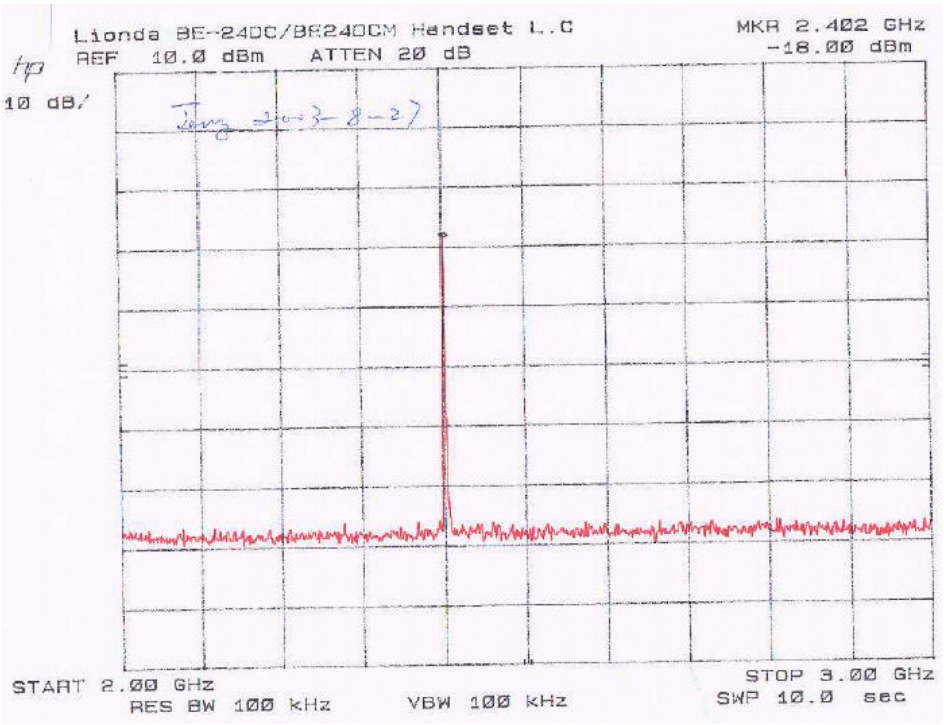
1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 4 without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set the SA on Max-Hold Mode, and then keep the EUT in transmitting mode. Record all the signals from each channel until each one has been recorded.
4. Set the SA on View mode and then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

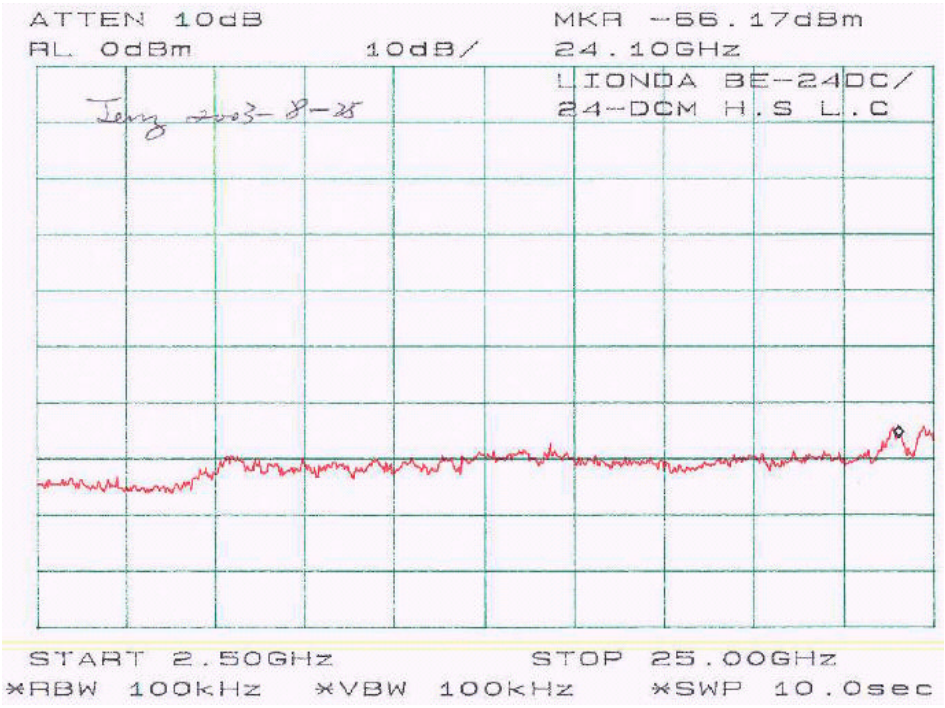
6.3 Measurement Data

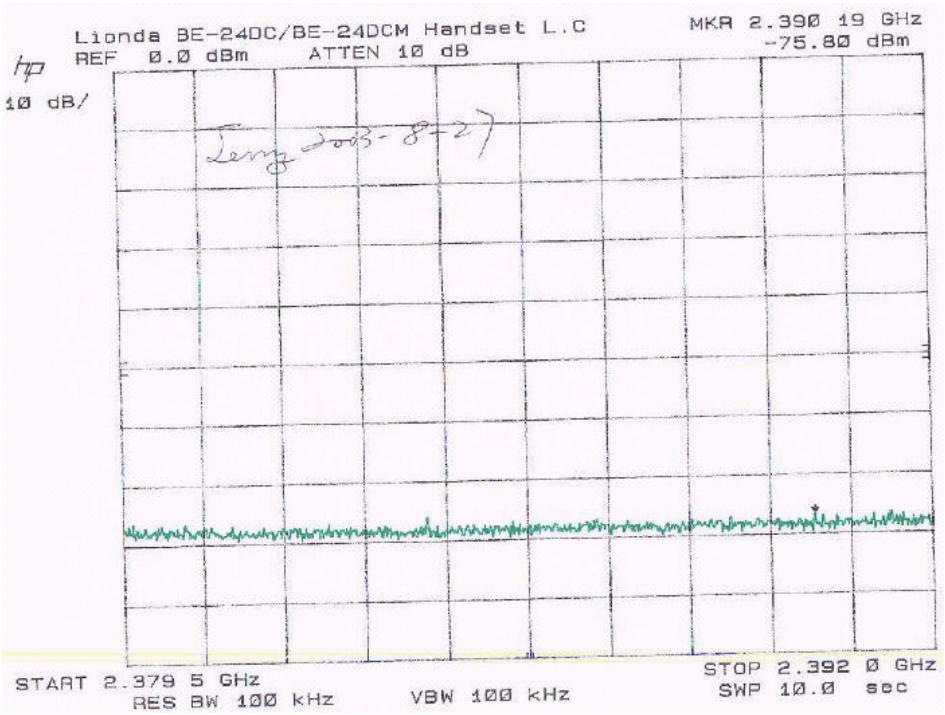
Please refer to the following pages.

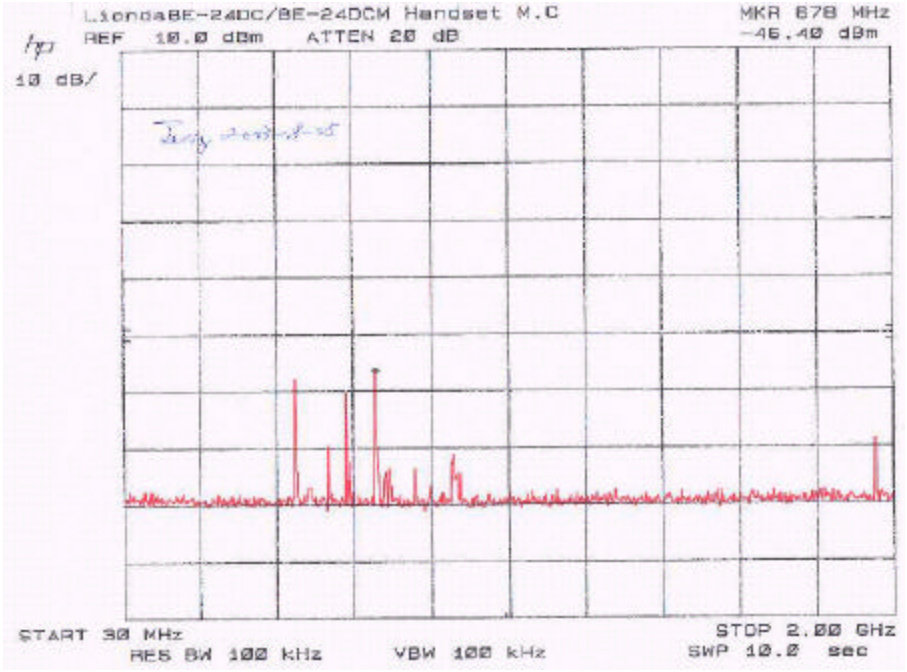
Spurious Emission	Test Result (base and handset)
Low Channel	Compliant
Middle Channel	Compliant
High Channel	Compliant

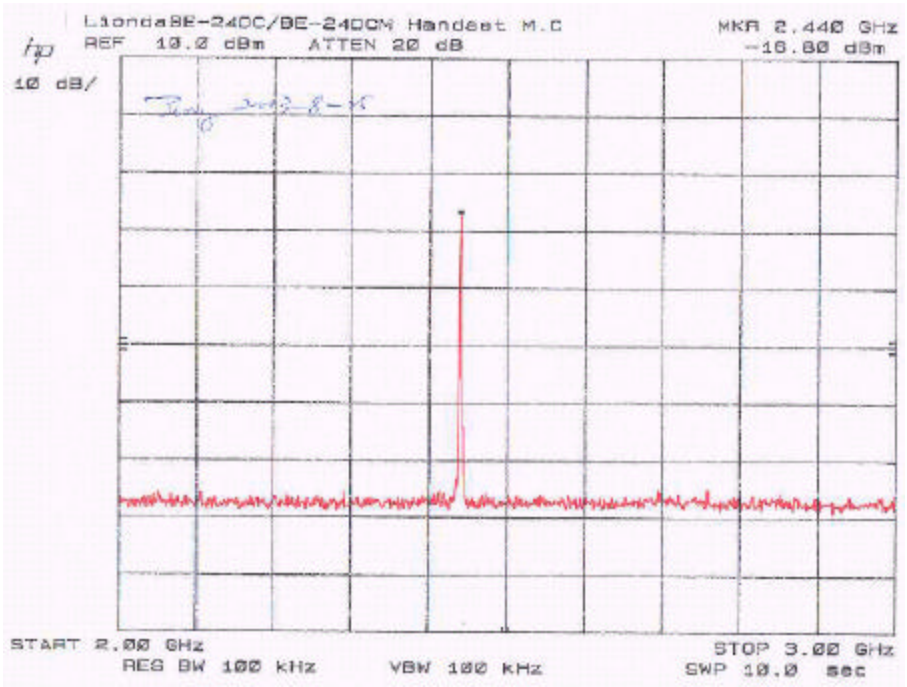

Lionda BE-24DC/BE24DCM Handset L.C
MKR 473 MHz
-53.20 dBm
REF 10.0 dBm
ATTEN 20 dB
10 dB/
START 30 MHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.00 GHz
SWP 10.0 sec

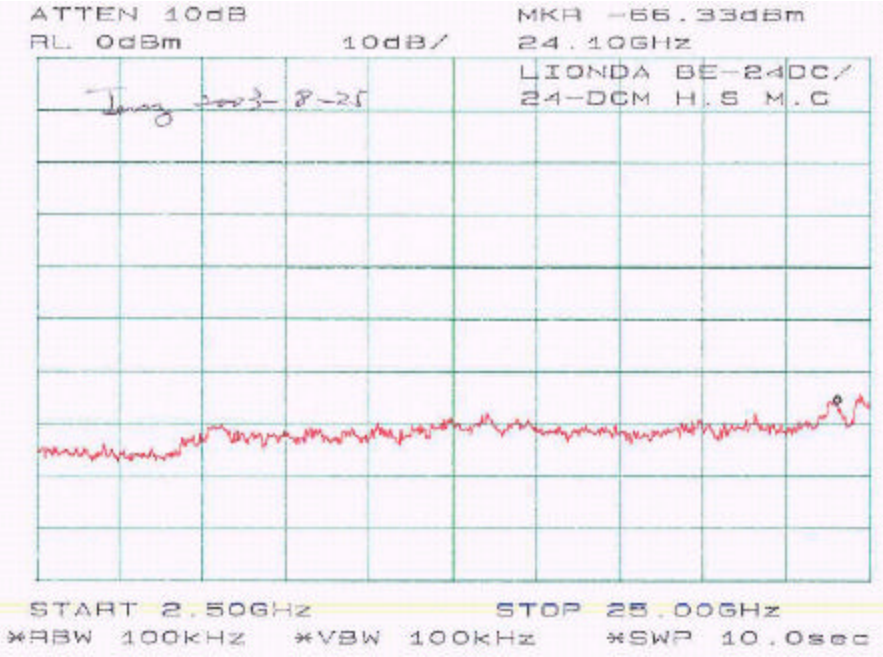

Lionda BE-24DC/BE24DCM Handset L.C
MKR 2.402 GHz
-18.00 dBm
REF 10.0 dBm
ATTEN 20 dB
10 dB/
START 2.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.00 GHz
SWP 10.0 sec

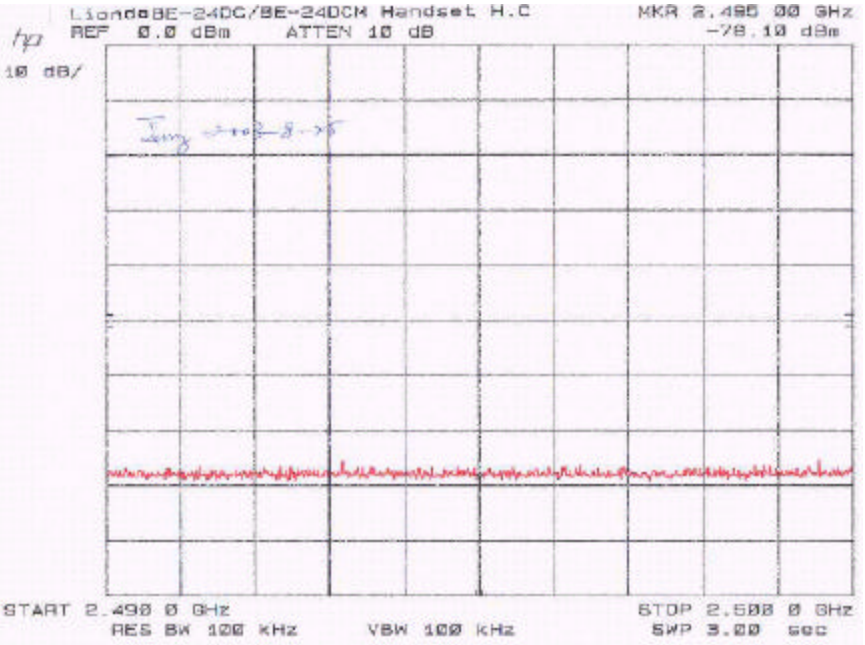

ATTEN 10dB
RL 0dBm
10dB/
MKR -66.17dBm
24.10GHz
LIONDA BE-24DC/
24-DCM H.S L.C
START 2.50GHz
STOP 25.00GHz
*RBW 100kHz
*VBW 100kHz
*SWP 10.0sec

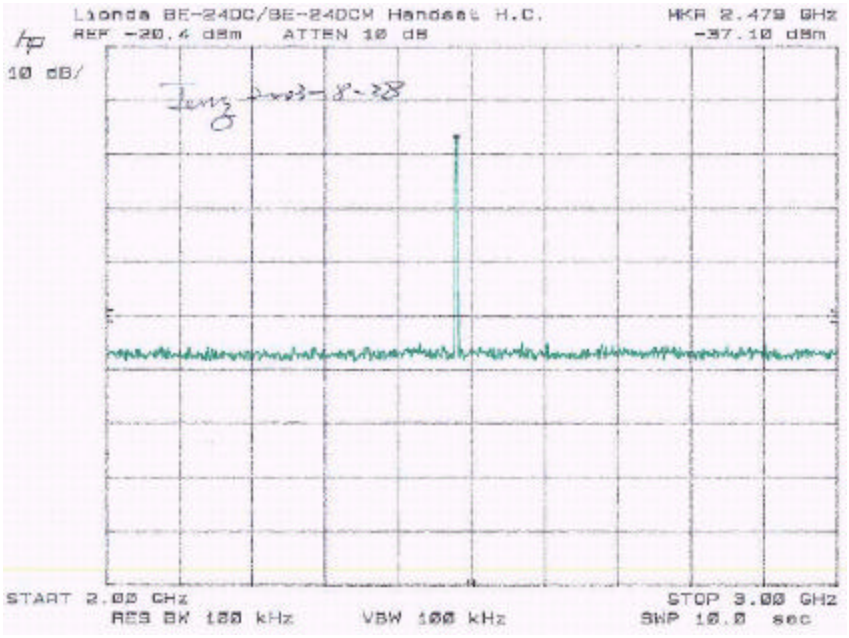

Lionda BE-24DC/BE-24DCM Handset L.C
REF 0.0 dBm
ATTEN 10 dB
MKR 2.390 19 GHz
-75.80 dBm
10 dB/
START 2.379 5 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.392 0 GHz
SWP 10.0 sec

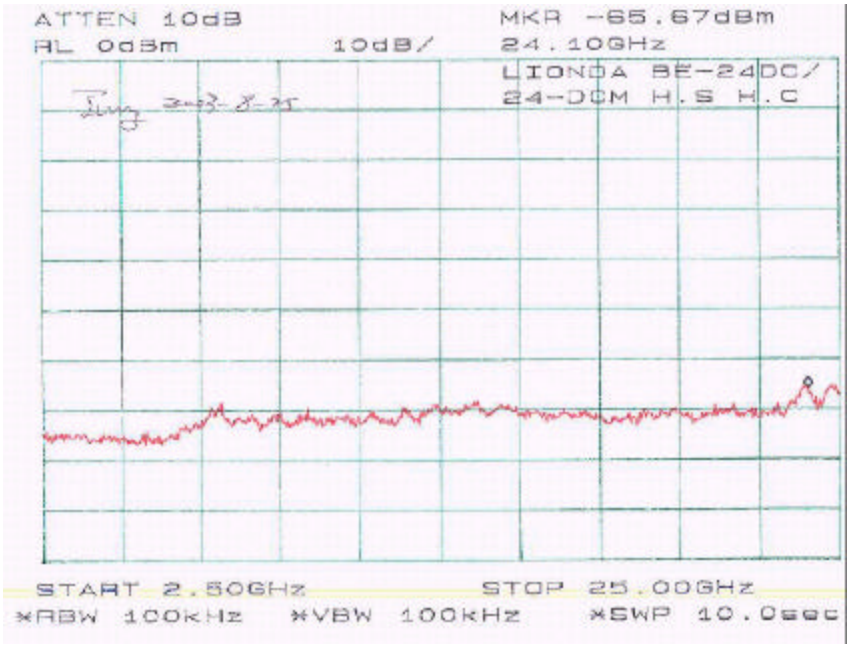

LiondaBE-24DC/BE-24DCM Handset M.C
MKR 678 MHz
REF 10.0 dBm ATTEN 20 dB
-46.40 dBm
10 dB/
START 30 MHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.00 GHz
SWP 10.0 sec

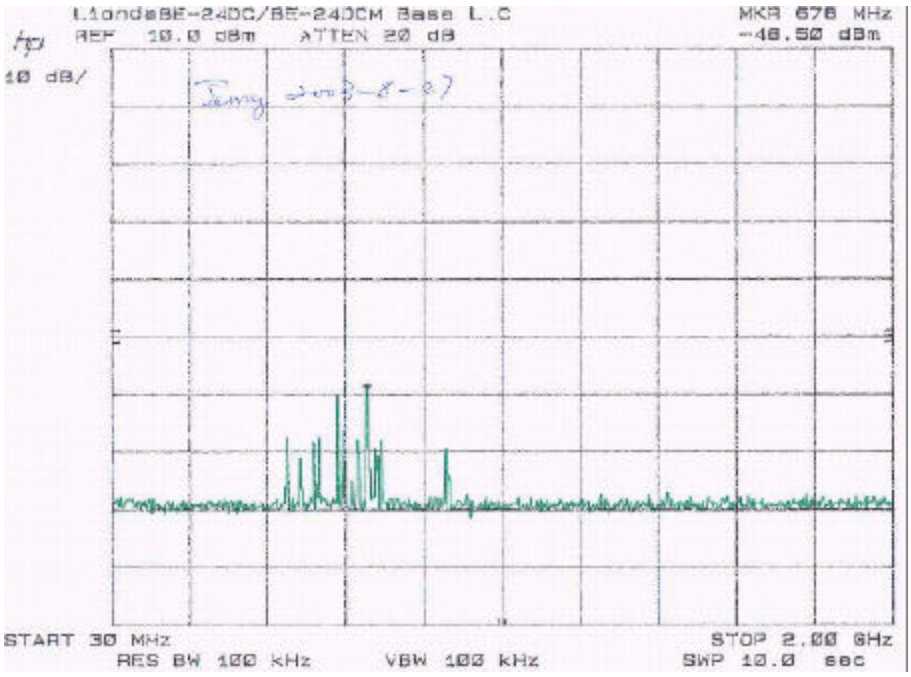

LiondaBE-24DC/BE-24DCM Handset M.C
MKR 2.440 GHz
REF 10.0 dBm ATTEN 20 dB
-16.80 dBm
10 dB/
START 2.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.00 GHz
SWP 10.0 sec

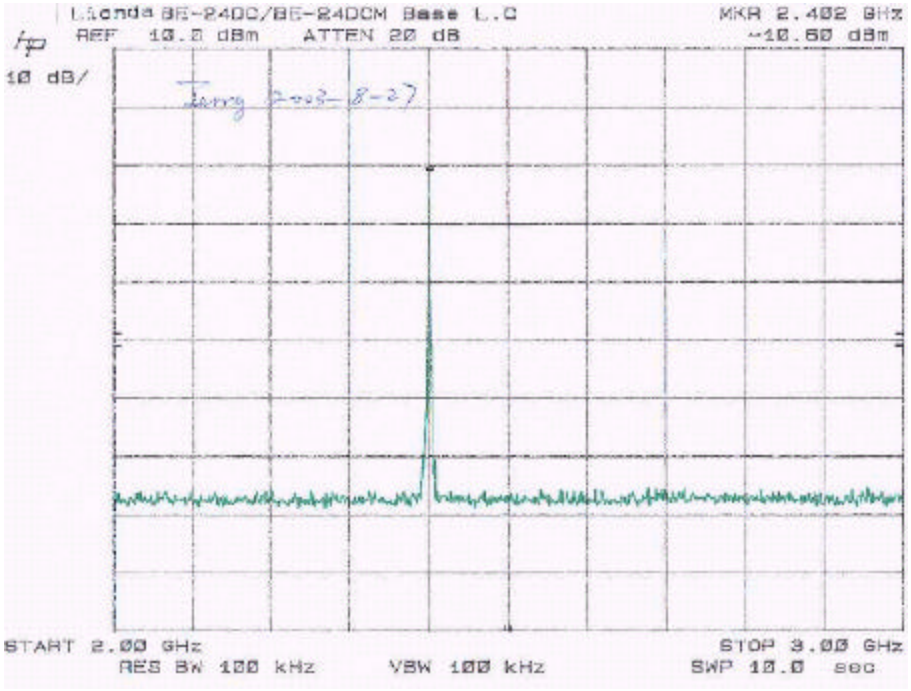

ATTEN 10dB
RL 0dBm
10dB/
MKR -66.33dBm
24.10GHz
LIONDA BE-24DC/
24-DCM H.S M.C
START 2.50GHz
STOP 25.00GHz
*RBW 100kHz
*VBW 100kHz
*SWP 10.0sec

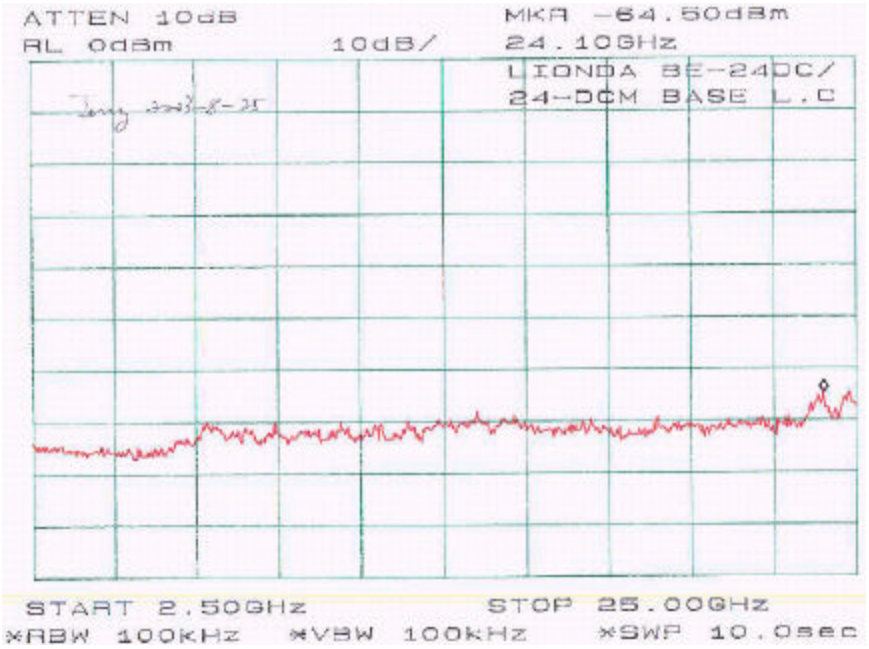

LiondaBE-24DC/BE-24DCM Handset H.C
REF 0.0 dBm
ATTEN 10 dB
MKR 2.495 00 GHz
-78.10 dBm
10 dB/
START 2.490 0 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.500 0 GHz
SWP 3.00 sec

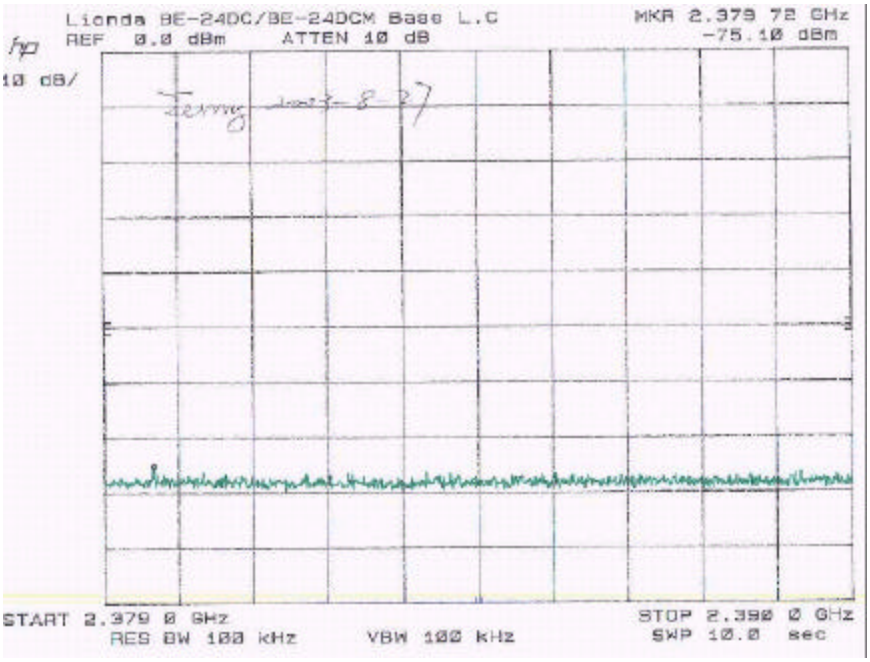

Lionda BE-24DC/BE-24DCM Handset H.C.
MKR 2.479 GHz
REF -20.4 dBm
ATTEN 10 dB
-37.10 dBm
10 dB/
START 2.00 GHz
STOP 3.00 GHz
RES BW 100 kHz
VBW 100 kHz
SWP 10.0 sec

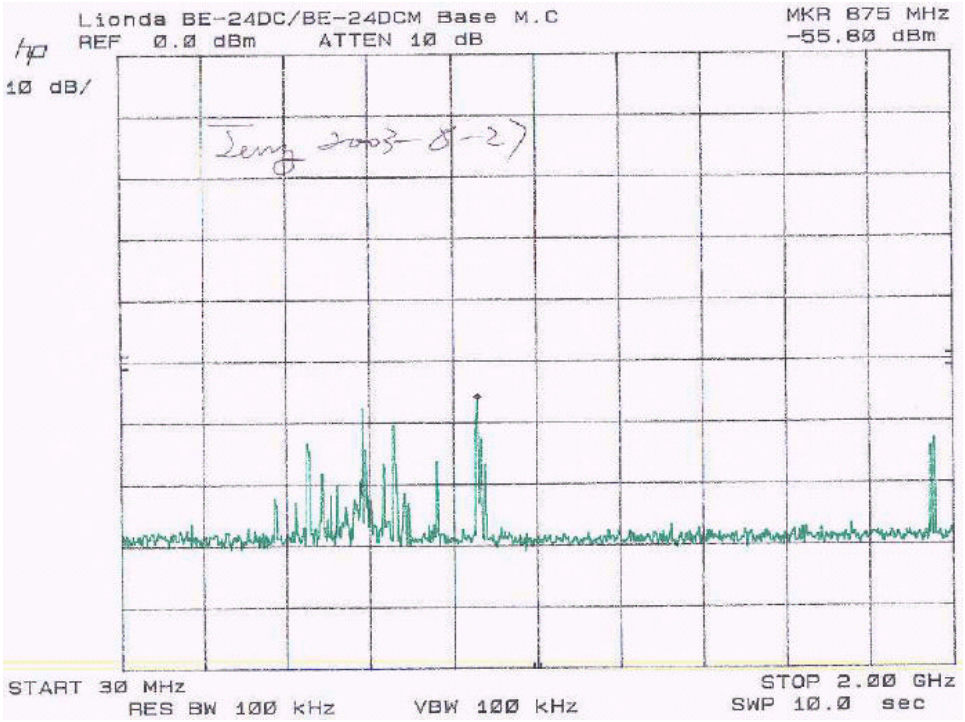

ATTEN 10dB
MKR -65.67dBm
RL 0dBm
10dB/
24.10GHz
LIONDA BE-24DC/
24-DCM H.S H.C
START 2.50GHz
STOP 25.00GHz
*RBW 100kHz
*VBW 100kHz
*SWP 10.0sec

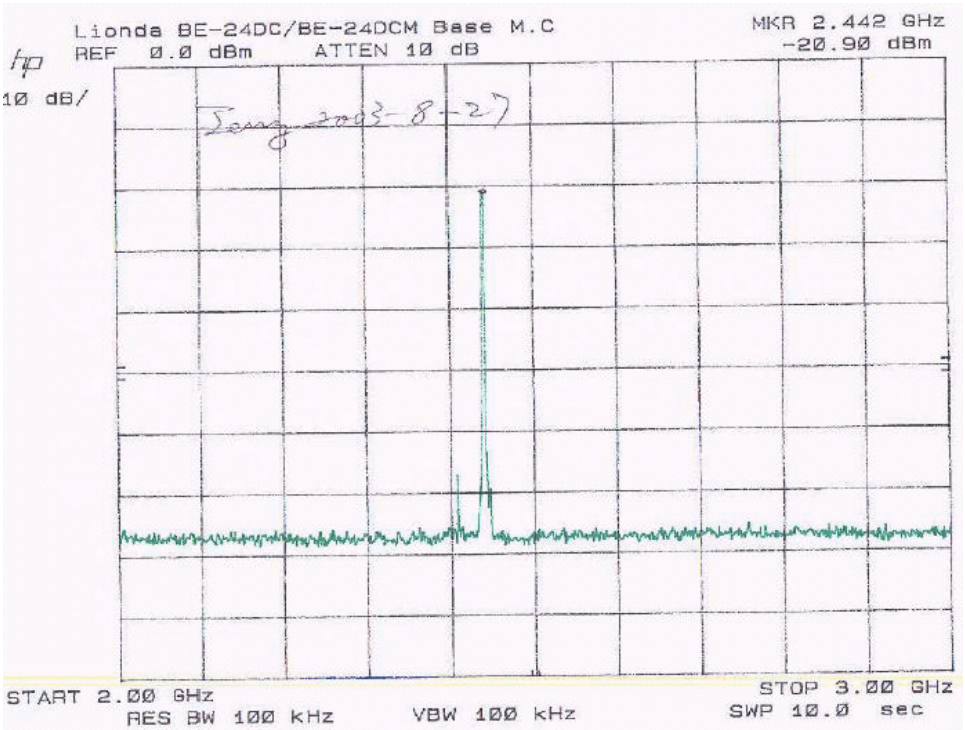

Lionda BE-24DC/BE-24DCM Base L.C
MKR 676 MHz
REF 10.0 dBm ATTEN 20 dB
-48.50 dBm
10 dB/
START 30 MHz
STOP 2.00 GHz
RES BW 100 kHz VBW 100 kHz SWP 10.0 sec

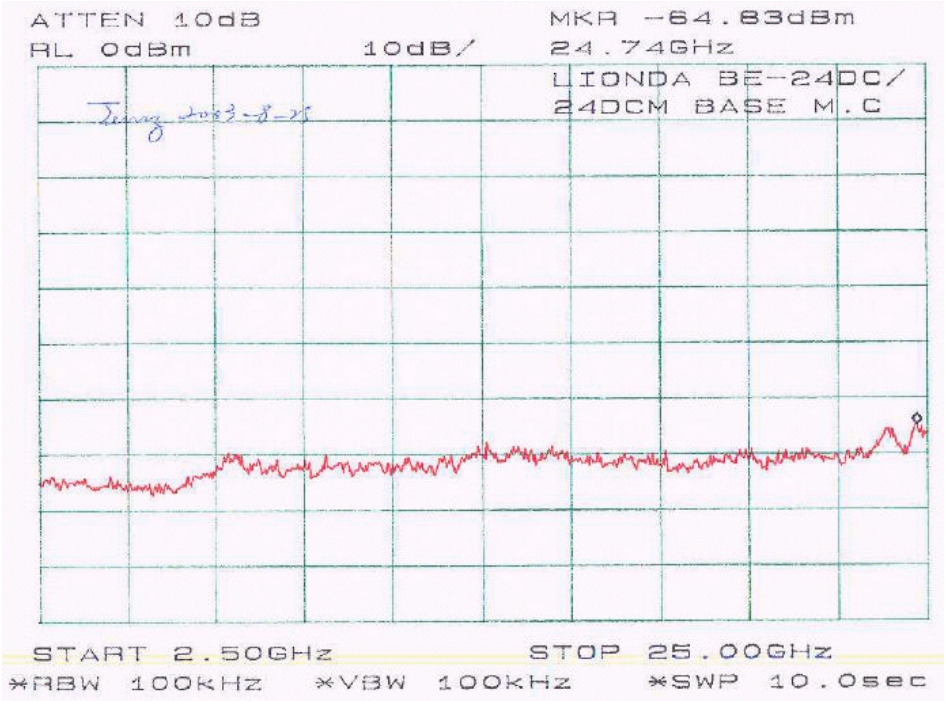

Lionda BE-24DC/BE-24DCM Base L.C
MKR 2.402 GHz
REF 10.0 dBm ATTEN 20 dB
-10.60 dBm
10 dB/
START 2.00 GHz
STOP 3.00 GHz
RES BW 100 kHz VBW 100 kHz SWP 10.0 sec

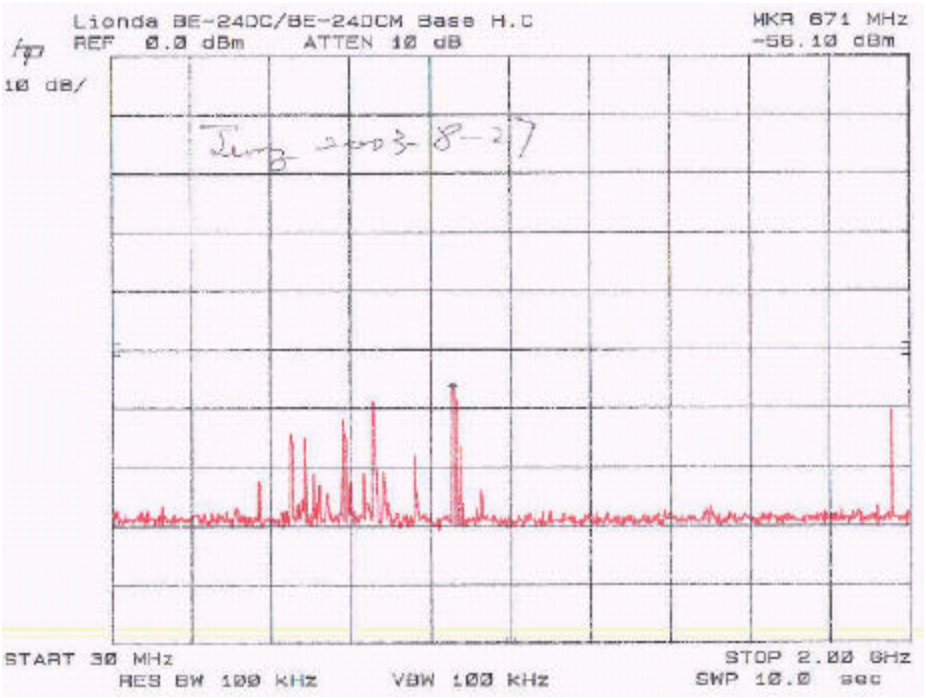

ATTEN 10dB
RL 0dBm
10dB/
MKR -64.50dBm
24.10GHz
LIONDA BE-24DC/
24-DCM BASE L.C
START 2.50GHz
STOP 25.00GHz
*RBW 100kHz
*VBW 100kHz
*SWP 10.0sec

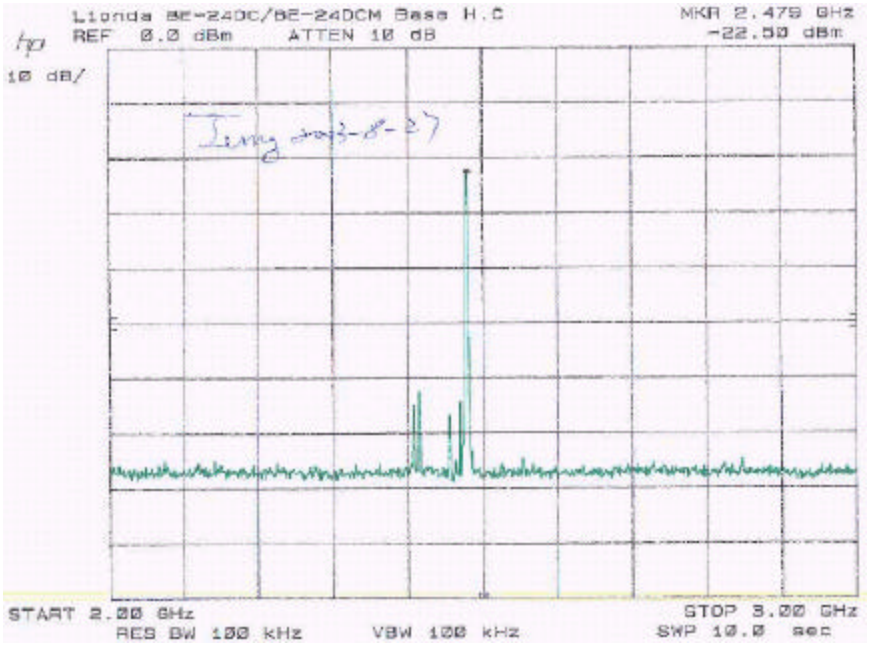

Lionda BE-24DC/BE-24DCM Base L.C
REF 0.0 dBm
ATTEN 10 dB
MKR 2.379 72 GHz
-75.10 dBm
10 dB/
START 2.379 0 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.390 0 GHz
SWP 10.0 sec

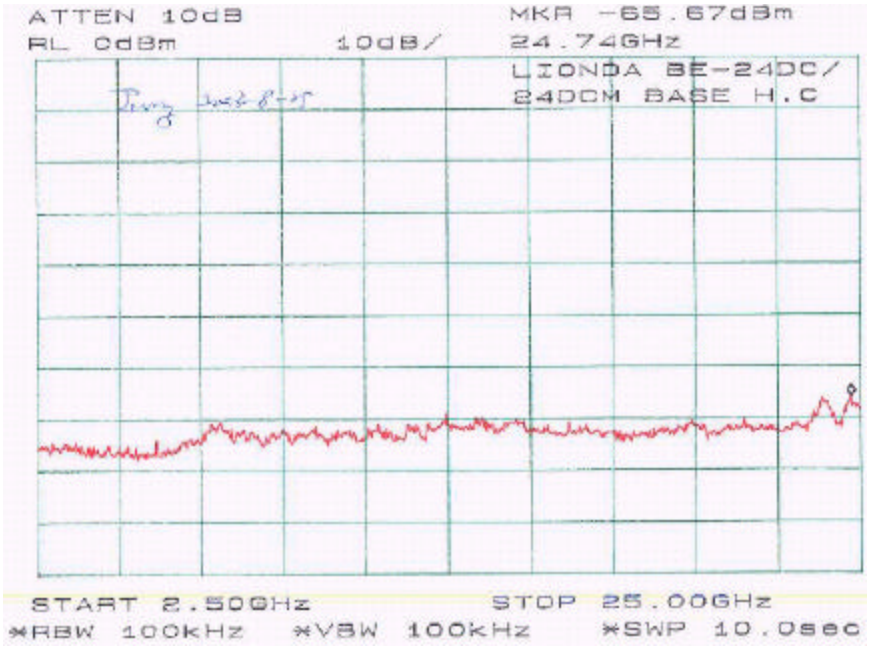

Lionda BE-24DC/BE-24DCM Base M.C
REF 0.0 dBm ATTEN 10 dB
MKR 875 MHz
-55.80 dBm
10 dB/
START 30 MHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.00 GHz
SWP 10.0 sec

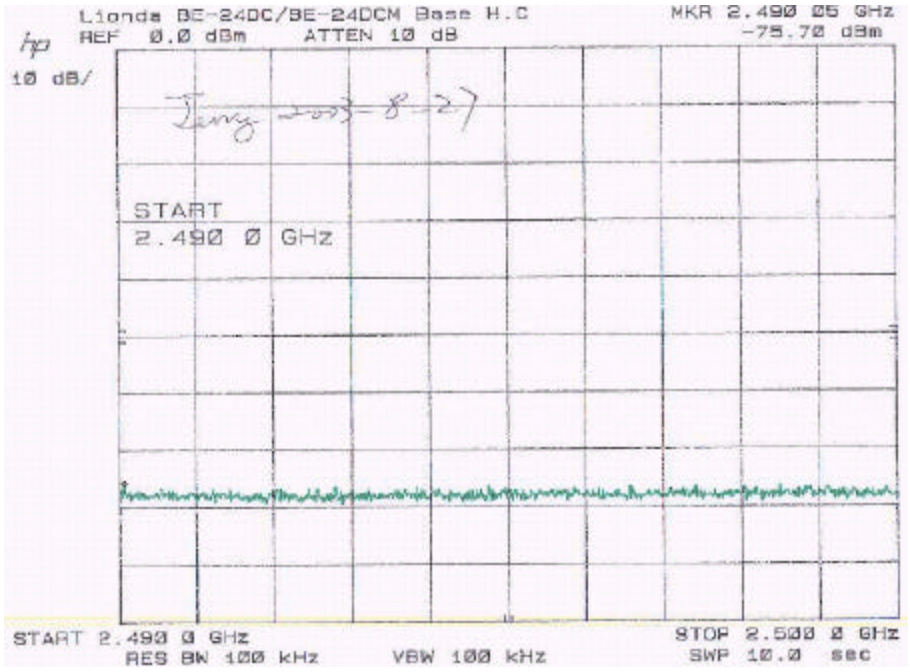

Lionda BE-24DC/BE-24DCM Base M.C
REF 0.0 dBm ATTEN 10 dB
MKR 2.442 GHz
-20.90 dBm
10 dB/
START 2.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.00 GHz
SWP 10.0 sec


ATTEN 10dB
RL 0dBm
10dB/
MKR -64.83dBm
24.74GHz
LIONDA BE-24DC/
24DCM BASE M.C
START 2.50GHz
STOP 25.00GHz
*RBW 100KHz
*VBW 100KHz
*SWP 10.0sec


Lionda BE-24DC/BE-24DCM Base M.C
REF 0.0 dBm
ATTEN 10 dB
MKR 671 MHz
-56.10 dBm
10 dB/
START 30 MHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.00 GHz
SWP 10.0 sec


Lionda BE-24DC/BE-24DCM Base H.C
REF 0.0 dBm
ATTEN 10 dB
MKR 2.479 GHz
-22.50 dBm
10 dB/
START 2.00 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 3.00 GHz
SWP 10.0 sec


ATTEN 10dB
RL 0dBm
10dB/
MKR -65.67dBm
24.74GHz
LIONDA BE-24DC/
24DCM BASE H.C
START 2.500GHz
STOP 25.00GHz
*RBW 100kHz
*VBW 100kHz
*SWP 10.0sec


Lionda BE-24DC/BE-24DCM Base H.C
MKR 2.490 05 GHz
REF 0.0 dBm
ATTEN 10 dB
-75.70 dBm
10 dB/
START
2.490 0 GHz
START 2.490 0 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.500 0 GHz
SWP 10.0 sec

7 - 100 KHZ BANDWIDTH OF BAND EDGES MEASUREMENT

7.1 Standard Applicable

According to §15.247(c), if *any* 100 kHz bandwidth outside these frequency bands, the radio frequency power that is produced by the modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either at least 20 dB below that in any 100 kHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified in § 15.209(a), whichever results in the lesser attenuation.

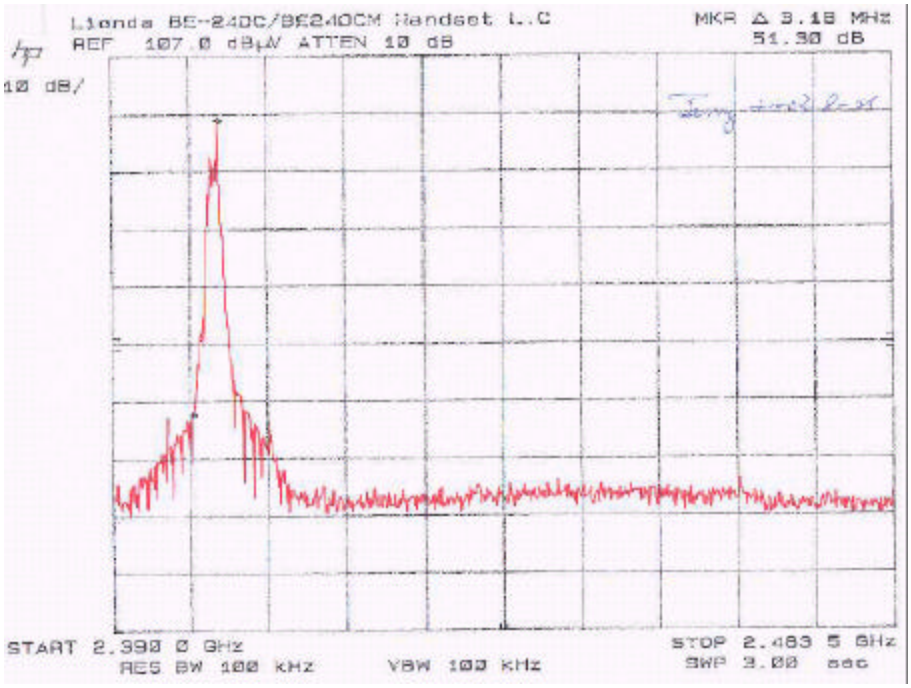
7.2 Measurement Procedure

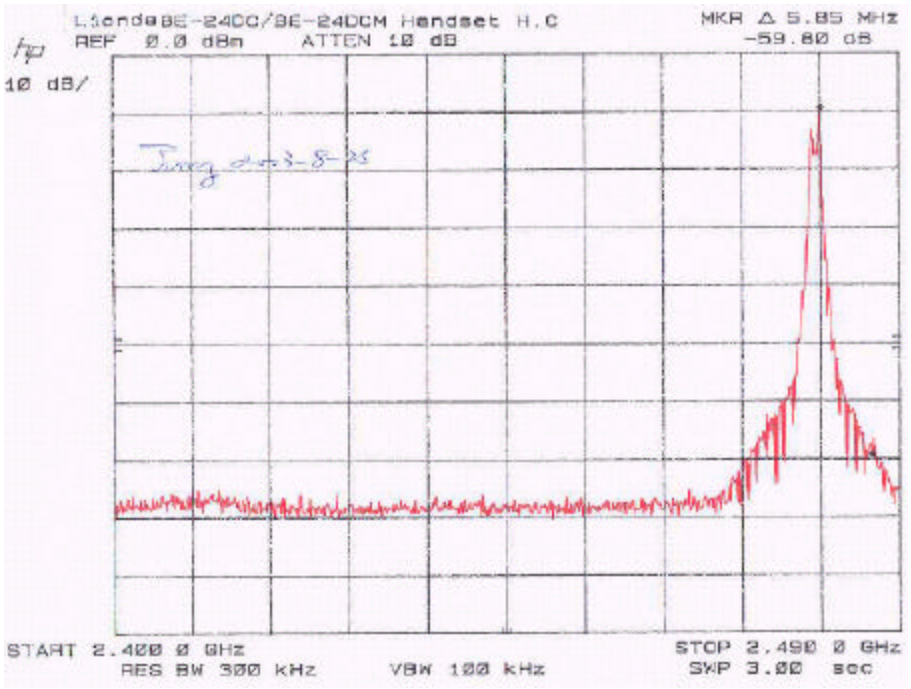
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

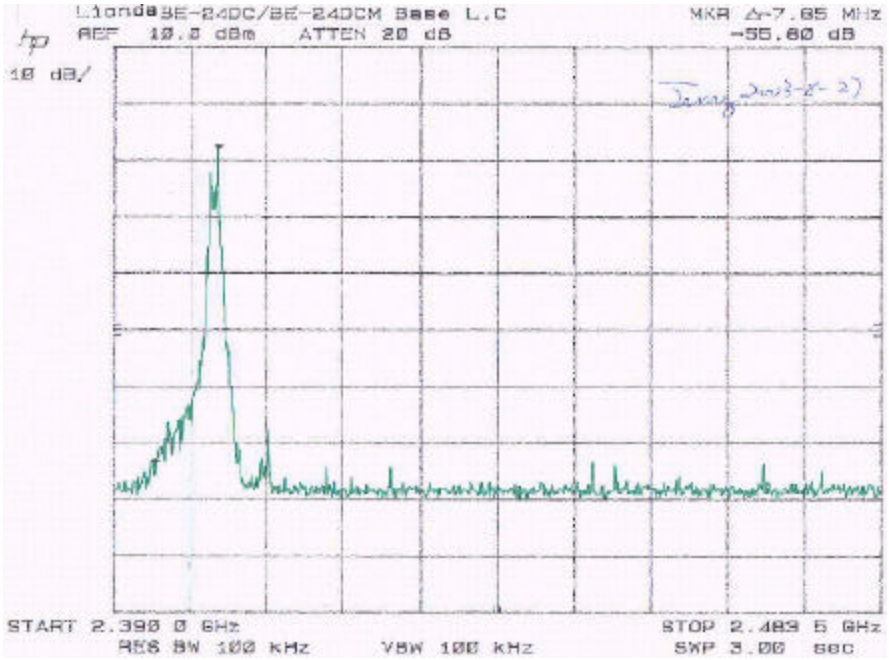
7.3 Test Results

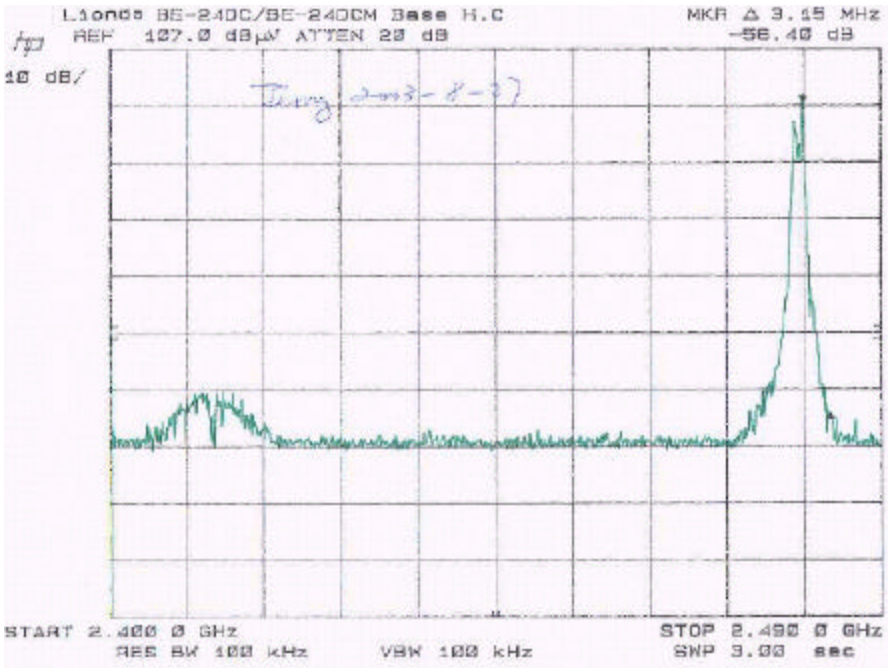
Please refer to the following pages.

Band Edge Bandwidth	Test Result (base and handset)
Low Channel	Compliant
Middle Channel	Compliant
High Channel	Compliant


Lionda BE-24DC/BE24DCM Handset L.C
MKR Δ 3.18 MHz
REF 107.0 dBμV ATTEN 10 dB
51.30 dB
10 dB/
START 2.390 0 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.483 5 GHz
SWP 3.00 sec


LiondaBE-24DC/BE-24DCM Handset H.C
MKR Δ 5.85 MHz
REF 0.0 dBm ATTEN 10 dB
-59.80 dB
10 dB/
START 2.400 0 GHz
RES BW 300 kHz
VBW 100 kHz
STOP 2.490 0 GHz
SWP 3.00 sec


Lionda BE-24DC/BE-24DCM Base L.C
MKR Δ-7.65 MHz
REF 10.0 dBm ATTEN 20 dB
-55.80 dB
10 dB/
START 2.390 0 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.483 5 GHz
SWP 3.00 sec


Lionda BE-24DC/BE-24DCM Base H.C
MKR Δ 3.15 MHz
REF 107.0 dBμV ATTEN 20 dB
-56.40 dB
10 dB/
START 2.400 0 GHz
RES BW 100 kHz
VBW 100 kHz
STOP 2.490 0 GHz
SWP 3.00 sec

8 - POWER SPECTRAL DENSITY

8.1 Standard Applicable

According to §15.247 (d), for direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

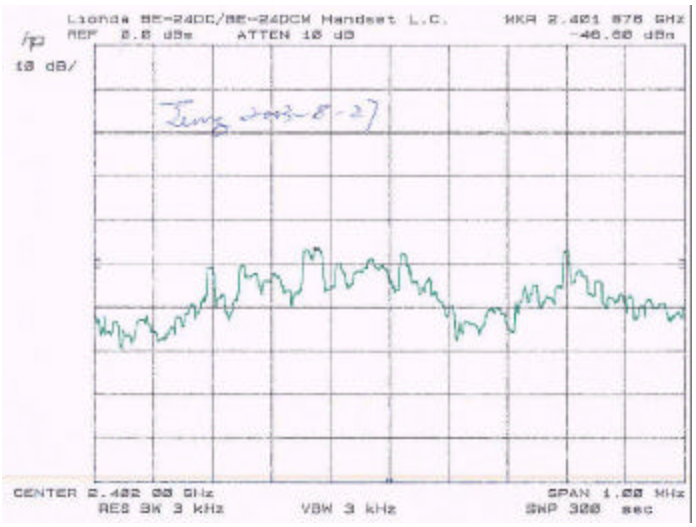
8.2 Measurement Procedure

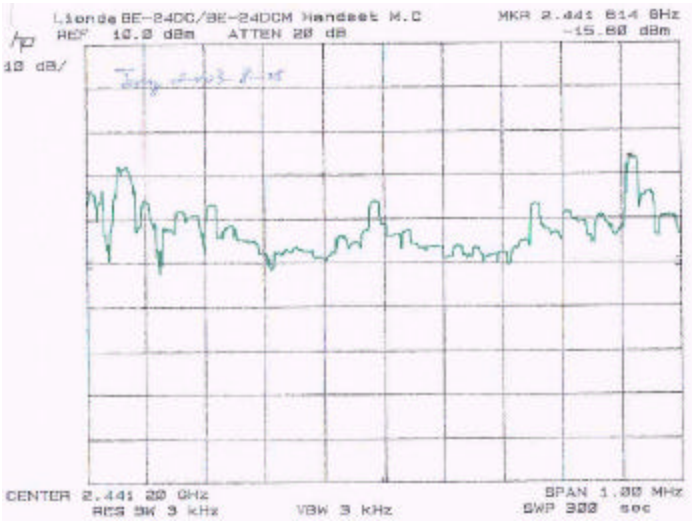
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Adjust the center frequency of SA on any frequency be measured and set SA to 1MHz span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
4. Repeat above procedures until all frequencies measured were complete.

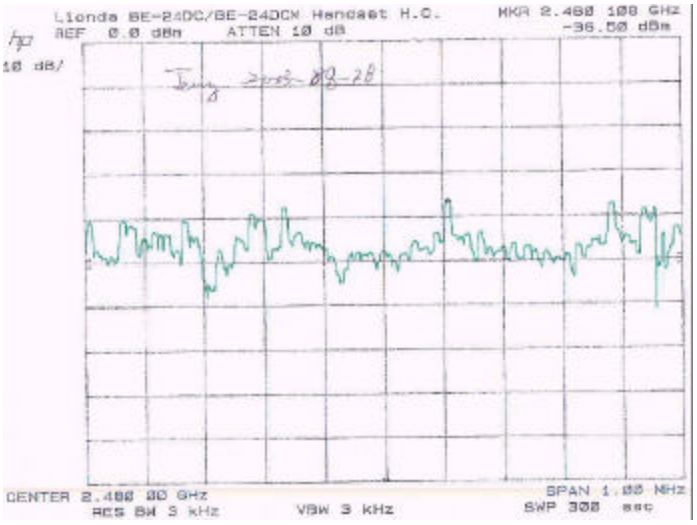
8.3 Test Results

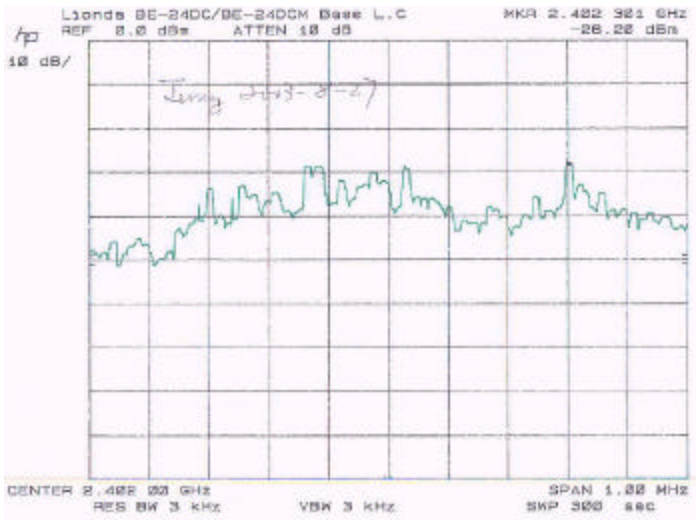
Please refer to the following plot(s).

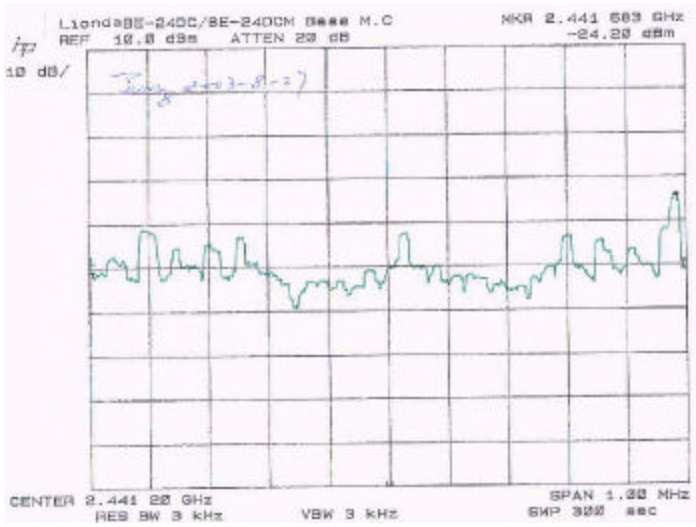
Power Density	Test Result (Base and Handset)
Low Channel	Compliant
Middle Channel	Compliant
High Channel	Compliant

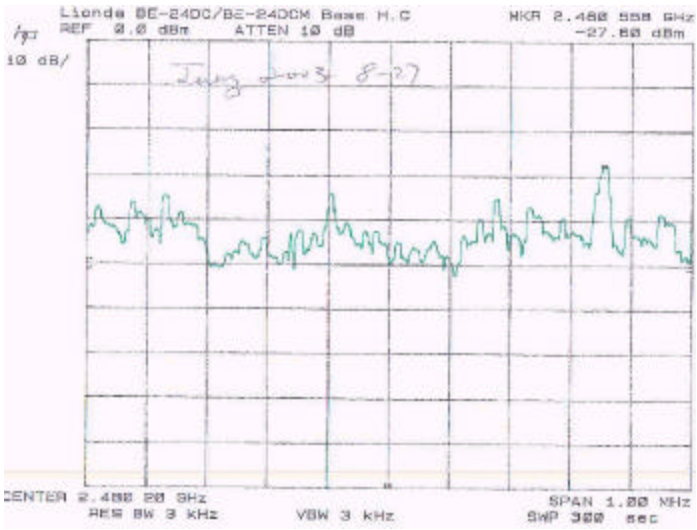

Lionda BE-24DC/BE-24DCM Handset L.C.
MKR 2.401 875 GHz
-46.60 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
CENTER 2.402 00 GHz
SPAN 1.00 MHz
RES BW 3 kHz
VBW 3 kHz
SWP 300 sec


Lionda BE-24DC/BE-24DCM Handset M.C
MKR 2.441 614 GHz
-15.80 dBm
REF 10.0 dBm
ATTEN 20 dB
10 dB/
CENTER 2.441 20 GHz
SPAN 1.00 MHz
RES BW 3 kHz
VBW 3 kHz
SWP 300 sec


Lionda BE-24DC/BE-24DCM Handset H.C.
MKR 2.480 100 GHz
-36.50 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
CENTER 2.480 30 GHz
SPAN 1.00 MHz
RES BW 3 kHz
VBW 3 kHz
SWP 300 sec


Lionda BE-24DC/BE-24DCM Base L.C
MKR 2.402 921 GHz
-28.28 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
CENTER 2.402 00 GHz
RES BW 3 kHz
VBW 3 kHz
SPAN 1.00 MHz
SWP 300 sec


LiondaBE-24DC/BE-24DCM Base M.C
MKR 2.441 683 GHz
-24.20 dBm
REF 10.0 dBm
ATTEN 20 dB
10 dB/
CENTER 2.441 20 GHz
RES BW 3 kHz
VBW 3 kHz
SPAN 1.00 MHz
SWP 300 sec


Lionda BE-24DC/BE-24DCM Base H.C
MKR 2.480 558 GHz
-27.60 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
CENTER 2.480 20 GHz
RES BW 3 kHz
VBW 3 kHz
SPAN 1.00 MHz
SWP 300 sec

9 - ANTENNA REQUIREMENT

9.1 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.

And according to § 15.247 (1), if transmitting antennas of directional gain greater than 6 dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

9.2 Antenna Connected Construction

The directional gain of antenna used for transmitting is 0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

10 - RF SAFETY REQUIREMENTS TO 2.1091

According to section 3 of Supplement C to OET Bulleting 65, Part 15 Transmitters are categorically excluded from Routine Environmental Evaluation by measurement or precise computations unless otherwise required by the Commissions.

According to §15.247(b)(4) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*($180/f^2$)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-15000	/	/	1.0	30

f = frequency in MHz
* = Plane-wave equivalent power density

MPE Prediction

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$S = PG/4\pi R^2$

Where: S = power density
P = power input to antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

For handset of the EUT:
Maximum peak output power at antenna input terminal: -1.6 (dBm)
Maximum peak output power at antenna input terminal: 0.69(mW)
Antenna Gain (maximum): 0 (dBi)
Maximum antenna gain: 1 (numeric)
Prediction distance: 3 (cm)
Predication frequency: 2400 (MHz)
MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm^2)
Power density at predication frequency: 0.006 (mW/cm^2)

Test Result

The predicted power density level at 3 cm is 0.006mW/cm². This is below the uncontrolled exposure limit of 1mW/cm² at 2400 MHz.

11 - SPURIOUS RADIATED EMISSION DATA

11.1 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.

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

The spacing between the peripherals was 10 centimeters.

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

The EUT was tested in 3 orthogonal positions.

11.3 Spectrum Analyzer Setup

According to FCC Rules, 47 CFR §15.33 (a) (1), the system was tested to 25000 MHz.

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

11.4 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 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 dBμV of specification limits), and are distinguished with a "**Qp**" in the data table.

11.5 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

11.6 Summary of Test Results

According to the data in section 11.7, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.207, and 15.247, and had the worst margin of:

Base, 30MHz to 25000MHz, 3 meters

Low channel, --21.0 dBμV at 7206.90 MHz in the Vertical polarization
Middle channel, -17.0 dBμV at 7323.66 MHz in the Horizontal polarization
High channel, --12.5 dBμV at 4960.26 MHz in the Vertical polarization
Unwanted Emission, -11.5 dBμV at 120.00 MHz in the Horizontal polarization

Handset, 30MHz to 25000MHz, 3 meters

Low channel, -13.3 dBμV at 4804.60 MHz in the Vertical polarization
Middle channel, -16.7 dBμV at 7323.66 MHz in the Horizontal polarization
High channel, -18.3 dBμV at 7440.39 MHz in the Vertical polarization
Unwanted Emission, -12.0 dBμV at 48.01MHz in the Horizontal polarization

Base, 30MHz to 25000MHz, 3 meters

Indicated			Table	Antenna		Correction Factor			Corrected Amplitude	FCC 15 Subpart C	
Frequency	Ampl.	Comments	Angle	Height	Polar	Antenna	Cable	Amp.	Corr. Ampl.	Limit	Margin
MHz	dBμV/m		Degree	Meter	H/V	dBμV/m	DB	DB	dBμV/m	dBμV/m	dB
Low Channel											
2402.30	60.2	FUND / Ave.	0	1.5	V	28.1	3.4	35.2	56.4	/	/
2402.30	61.3	FUND / Ave.	30	2.0	H	28.1	3.4	35.2	57.6	/	/
2402.30	99.5	FUND / Peak.	0	1.5	V	28.1	3.4	35.2	95.8	/	/
2402.30	100.5	FUND / Peak.	30	2.0	H	28.1	3.4	35.2	96.8	/	/
7206.90	25.8	AVG	270	1.2	V	35.1	5.6	33.5	33.0	54	-21.0
4804.60	47.9	pk	300	1.5	H	32.5	4.9	32.7	52.6	74	-21.4
7206.90	24.9	AVG	180	1.2	H	35.1	5.6	33.5	32.1	54	-21.9
4804.60	46.8	pk	200	1.2	V	32.5	4.9	32.7	51.5	74	-22.5
4804.60	26.2	AVG	200	1.2	V	32.5	4.9	32.7	30.9	54	-23.1
4804.60	25.1	AVG	300	1.5	H	32.5	4.9	32.7	29.8	54	-24.2
7206.90	41.7	pk	270	1.2	V	35.1	5.6	33.5	48.9	74	-25.1
7206.90	40.8	pk	180	1.2	H	35.1	5.6	33.5	48.0	74	-26.0
Middle Channel											
2441.22	59.4	FUND / Ave.	120	1.2	H	28.1	3.4	35.2	55.7	/	/
2441.22	60.7	FUND / Ave.	90	1.2	V	28.1	3.4	35.2	57.0	/	/
2441.22	102.8	FUND / Peak.	120	1.2	H	28.1	3.4	35.2	99.1	/	/
2441.22	104.2	FUND / Peak.	90	1.2	V	28.1	3.4	35.2	100.5	/	/
7323.66	29.8	AVG	300	1.2	H	35.1	5.6	33.5	37.0	54	-17.0
7323.66	29.7	AVG	90	1.2	V	35.1	5.6	33.5	36.9	54	-17.1
4882.44	30.5	AVG	270	1.2	H	32.5	4.9	32.7	35.2	54	-18.8
4882.44	30.1	AVG	120	1.2	V	32.5	4.9	32.7	34.8	54	-19.2
4882.44	48.5	pk	270	1.2	H	32.5	4.9	32.7	53.2	74	-20.8
4882.44	47.2	pk	120	1.2	V	32.5	4.9	32.7	51.9	74	-22.1
7323.66	42.8	pk	90	1.2	V	35.1	5.6	33.5	50.0	74	-24.0
7323.66	41.3	pk	300	1.2	H	35.1	5.6	33.5	48.5	74	-25.5

High Channel											
2480.13	62.9	FUND / Ave.	90	1.2	V	28.1	3.4	35.2	59.2	/	/
2480.13	55.2	FUND / Ave.	180	1.2	H	28.1	3.4	35.2	51.5	/	/
2480.13	98.8	FUND / Peak.	180	1.0	H	28.1	3.4	35.2	95.1	/	/
2480.13	105.5	FUND / Peak.	90	1.2	V	28.1	3.4	35.2	101.8	/	/
4960.26	36.8	AVG	30	1.2	V	32.5	4.9	32.7	41.5	54	-12.5
7440.39	31.3	AVG	0	1.5	H	35.1	5.6	33.5	38.5	54	-15.5
4960.26	53.5	Pk	30	1.2	V	32.5	4.9	32.7	58.2	74	-15.8
7440.39	30.8	AVG	30	1.2	V	35.1	5.6	33.5	38.1	54	-15.9
4960.26	32.4	AVG	0	1.5	H	32.5	4.9	32.7	37.1	54	-16.9
4960.26	52.3	Pk	0	1.5	H	32.5	4.9	32.7	57.0	74	-17.0
7440.39	45.9	Pk	30	1.2	V	35.1	5.6	33.5	53.1	74	-20.9
7440.39	43.7	Pk	0	1.5	H	35.1	5.6	33.5	50.9	74	-23.1
Unintentional Emission, 30MHz to 1000MHz											
120.00	42.7	/	45	1.2	H	12.1	2.2	25.0	32.0	43.5	-11.5
44.80	40.5	/	180	1.5	H	12.1	0.7	25.0	28.3	40	-11.7
44.90	39.8	/	180	1.2	V	12.1	0.7	25.0	27.6	40	-12.4
66.02	40.7	/	90	1.2	V	9.6	1.2	25.0	26.5	40	-13.5
120.00	40.2	/	180	1.0	V	12.1	2.2	25.0	29.5	43.5	-14.0
300.00	36.2	/	120	1.0	H	15.1	4.6	25.0	30.9	46	-15.1
200.00	36.4	/	200	1.2	V	12.4	4.6	25.0	28.4	43.5	-15.1
200	35.7	/	180	2	H	12.4	4.6	25.0	27.7	43.5	-15.8
168.02	35.2	/	30	1.2	H	13.3	2.1	25.0	25.6	43.5	-17.9
240.020	37.1	/	180	1.2	V	12.6	2.3	25.0	27.0	46	-19.0
240	35.7	/	180	1.2	H	12.6	2.3	25.0	25.6	46	-20.4

Handset, 30MHz to 25000MHz, 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 Channel											
2402.30	63.9	FUND / Ave.	0	1.2	V	28.1	3.4	35.2	60.2	/	/
2402.30	60.8	FUND / Ave.	270	1.8	H	28.1	3.4	35.2	57.1	/	/
2402.30	105.2	FUND / Peak.	0	1.2	V	28.1	3.4	35.2	101.5	/	/
2402.30	104.2	FUND / Peak.	270	2.0	H	28.1	3.4	35.2	100.5	/	/
4804.60	36.0	AVG	90	1.2	V	32.5	4.9	32.7	40.8	54	-13.3
7206.90	30.5	AVG	30	1.2	V	35.1	5.6	33.5	37.7	54	-16.3
4804.60	52.5	pk	90	1.2	H	32.5	4.9	32.7	57.2	74	-16.8
7206.90	28.7	AVG	45	1.5	H	35.1	5.6	33.5	35.9	54	-18.1
4804.60	50.3	pk	90	1.2	V	32.5	4.9	32.7	55.0	74	-19.0
4804.60	29.7	AVG	90	1.2	H	32.5	4.9	32.7	34.5	54	-19.6
7206.90	42.8	pk	30	1.2	V	35.1	5.6	33.5	50.0	74	-24.0
7206.90	40.5	pk	45	1.5	H	35.1	5.6	33.5	47.7	74	-26.3
Middle Channel											
2441.22	60.8	FUND / Ave.	0	1.8	H	28.1	3.4	35.2	57.1	/	/
2441.22	59.3	FUND / Ave.	180	1.2	V	28.1	3.4	35.2	55.6	/	/
2441.22	104.6	FUND / Peak.	0	1.8	H	28.1	3.4	35.2	100.9	/	/
2441.22	103.8	FUND / Peak.	180	1.2	V	28.1	3.4	35.2	100.1	/	/
7323.66	30.1	AVG	90	1.2	H	35.1	5.6	33.5	37.3	54	-16.7
7323.66	28.7	AVG	180	1.2	V	35.1	5.6	33.5	35.9	54	-18.1
4882.44	29.6	AVG	180	1.2	V	32.5	4.9	32.7	34.3	54	-19.7
4882.44	29.5	AVG	90	1.2	H	32.5	4.9	32.7	34.2	54	-19.8
4882.44	48.3	pk	180	1.2	V	32.5	4.9	32.7	53.0	74	-21.0
4882.44	47.6	pk	90	1.2	H	32.5	4.9	32.7	52.3	74	-21.7
7323.66	42.1	pk	90	1.5	H	35.1	5.6	33.5	49.3	74	-24.7
7323.66	40.7	pk	180	1.2	V	35.1	5.6	33.5	47.9	74	-26.1

High Channel											
2480.13	60.1	FUND / Ave.	90	1.2	V	28.1	3.4	35.2	56.4	/	/
2480.13	58.7	FUND / Ave.	120	1.2	H	28.1	3.4	35.2	55.0	/	/
2480.13	102.8	FUND / Peak.	90	1.2	V	28.1	3.4	35.2	99.1	/	/
2480.13	101.2	FUND / Peak.	120	1.2	H	28.1	3.4	35.2	97.5	/	/
7440.39	28.5	AVG	180	1.2	V	35.1	5.6	33.5	35.7	54	-18.3
7440.39	28.4	AVG	90	1.5	H	35.1	5.6	33.5	35.6	54	-18.4
4960.26	29.8	AVG	90	1.2	V	32.5	4.9	32.7	34.5	54	-19.5
4960.60	29.6	AVG	120	1.5	H	32.5	4.9	32.7	34.3	54	-19.7
4960.60	45.9	pk	120	1.5	H	32.5	4.9	32.7	50.6	74	-23.4
7440.39	43.3	pk	180	1.2	V	35.1	5.6	33.5	50.5	74	-23.5
4960.26	44.7	pk	90	1.2	V	32.5	4.9	32.7	49.4	74	-24.6
7440.39	42.1	pk	90	1.5	H	35.1	5.6	33.5	49.3	74	-24.7
Unintentional Emission, 30MHz to 1000MHz											
48.01	41.2	/	90	1.2	H	11.3	0.5	25.0	28.0	40	-12.0
200.00	39.2	/	180	1.5	H	12.4	4.6	25.0	31.2	43.5	-12.3
480.03	37.2	/	180	1.2	V	18.7	2.5	25.0	33.4	46	-12.6
50.01	40.2	/	180	1.2	V	10.5	1.0	25.0	26.7	40	-13.3
144.02	40.8	/	120	1.2	H	13.2	1.0	25.0	30.0	43.5	-13.5
144.01	40.8	/	120	1.5	H	13.2	1.0	25.0	30.0	43.5	-13.5
72.03	40.1	/	270	1.5	H	9.6	1.6	25.0	26.3	40	-13.7
120.00	38.7	/	200	1.2	V	12.1	2.2	25.0	28.0	43.5	-15.5

12 – CONDUCTED EMISSIONS

12.1 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.

12.2 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. The specification used was FCC Class B limits.

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

The spacing between the peripherals was 10 centimeters.

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

12.3 Spectrum Analyzer Setup

The spectrum analyzer was set with the following configurations during the conduction 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

12.4 Test Procedure

During the conducted emission test, the power cord of the host system was connected to the auxiliary outlet of the first LISN.

Maximizing procedure was performed on the six (6) highest emissions of each modes tested to ensure EUT is compliant with 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 dBμV of specification limits). Quasi-peak readings are distinguished with a "**Qp**".

12.5 Summary of Test Results

According to the data in section 12.6, the EUT complied with the FCC Conducted margin for a Class B device and these test results is deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations, with the *worst* margin reading of:

-29.7 dBμV at 27.10 MHz in the Neutral mode, 150kHz – 30 MHz

12.6 Conducted Emissions Test Data

LINE CONDUCTED EMISSIONS				FCC CLASS B	
Frequency MHz	Amplitude dBμV	Detector Qp/Ave/Peak	Phase Line/Neutral	Limit dBμV	Margin dB
27.10	20.3	AVG	Neutral	50	-29.7
27.10	20.8	QP	Neutral	60	-39.2
0.81	6.3	AVG	Neutral	46	-39.7
27.10	9.2	AVG	Line	50	-40.8
0.68	1.3	AVG	Line	46	-44.7
21.50	4.0	AVG	Neutral	50	-46.0
0.81	8.2	QP	Neutral	56	-47.8
27.10	9.6	QP	Line	60	-50.4
0.68	2.1	QP	Line	56	-53.9
21.50	4.6	QP	Neutral	60	-55.4
0.15	0.0	AVG	Line	56	-56.0
0.15	6.6	QP	Line	66	-59.4

12.7 Plot of Conducted Emissions Test Data

Plot(s) of Conducted Emissions Test Data is presented in the following page as reference.

Bay Area Compliance Laboratory Corp 28. Aug 08 11:50

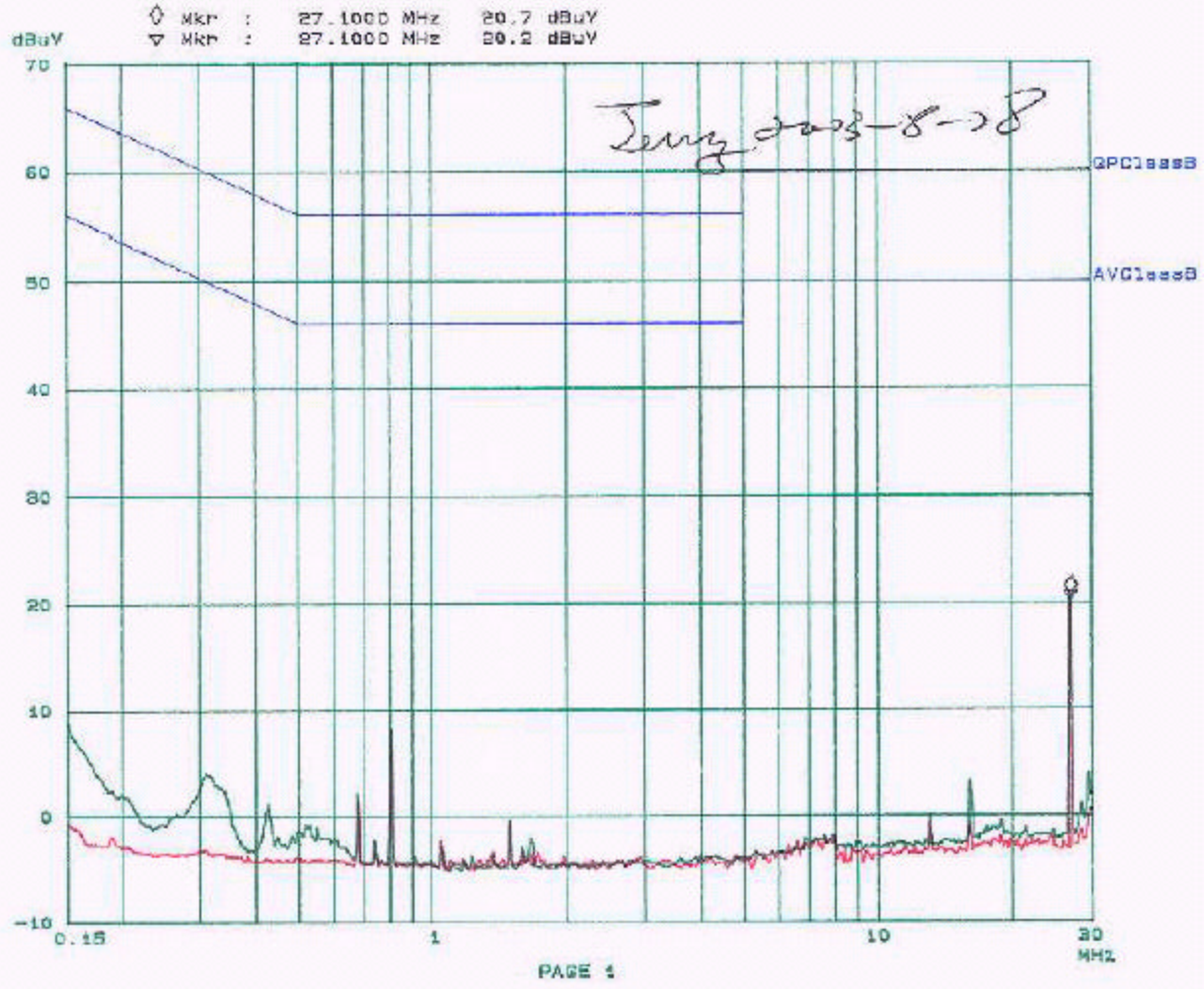
Class B

EUT: BE-24DC/BE-24DCM
Manuf: Lionda
Op Cond: Normal
Operator: JERRY
Comment: N

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	PreAMP
150k	1M	5k	9k	QP+AV	20ms	10dBLN	OFF
1M	3M	10k	9k	QP+AV	1ms	10dBLN	OFF
3M	30M	100k	9k	QP+AV	1ms	10dBLN	OFF

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 6dB



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Bay Area Compliance Laboratory Corp 28. Aug 03 13:45
Class B

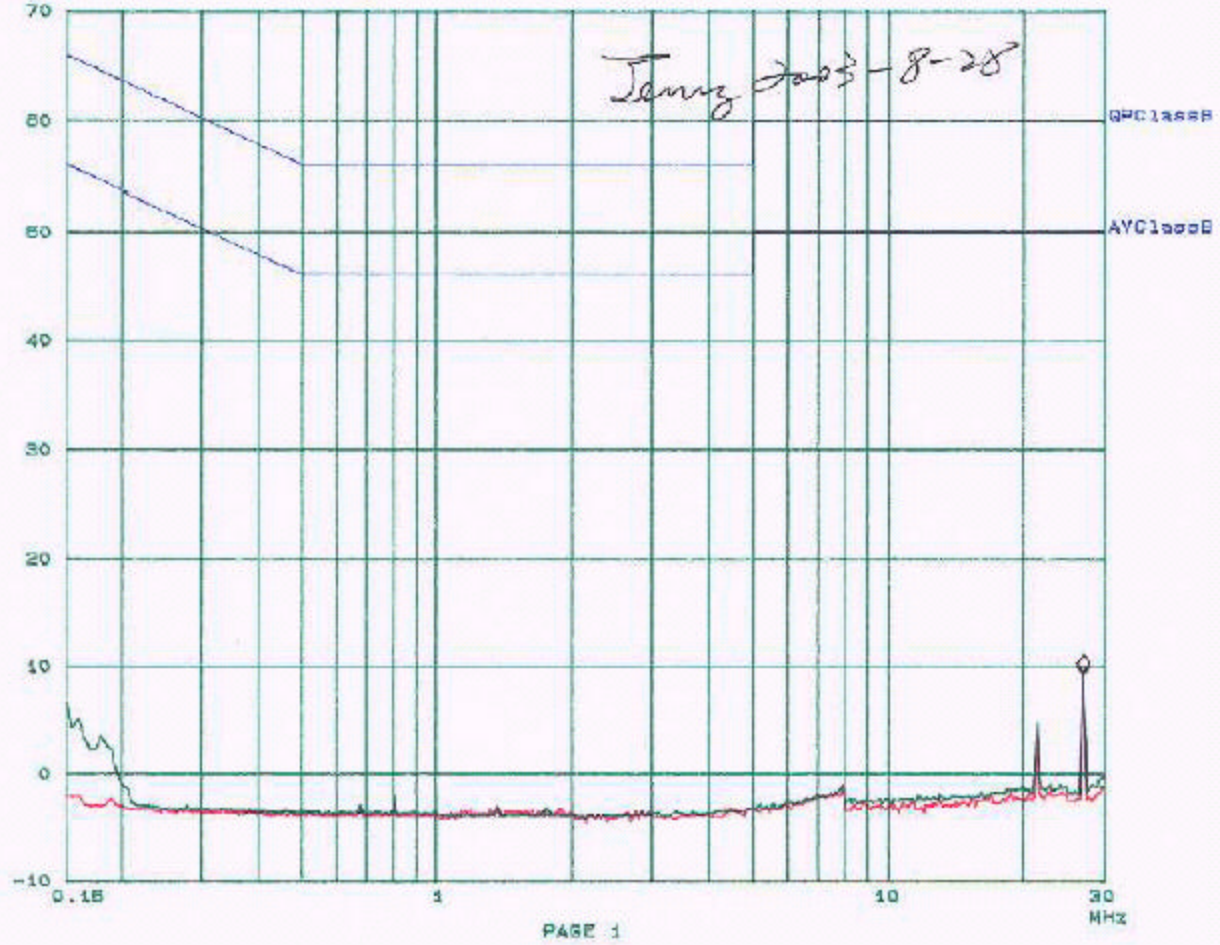
EUT: BE-24DC/BE-24DCM
Manuf: Lionda
Op Cond: Normal
Operator: JERRY
Comment: L

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	1M	5k	9k	QP+AV	20ms	10dBLN	OFF
1M	3M	10k	9k	QP+AV	1ms	10dBLN	OFF
3M	30M	100k	9k	QP+AV	1ms	10dBLN	OFF

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 6dB

◇ Mkr : 27.1000 MHz 9.6 dBuV
▽ Mkr : 27.1000 MHz 9.1 dBuV



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