Standards Council of Canada
Accredited Laboratory
Scope of Accreditation 75

Conseil canadien des normes
Laboratoire accrédité
Portée d'accréditation 75

TM

| | |
|---|---|
| **Test Report:** | 4W31926 |
| **Applicant:** | VTech Engineering Canada Ltd.<br>Suite 200 – 7671 Alderbridge Way<br>Richmond, B.C., Canada<br>V6X 1Z9 |
| **Equipment Under Test: (EUT)** | AT&T E2715B |
| **FCC ID:** | EW780-5312-00 |
| **In Accordance With:** | **FCC Part 15, Subpart C**<br>**Class II Permissive Change**<br>Frequency Hopping Transmitters<br>2400 - 2483.5 MHz |
| **Tested By:** | Nemko Canada Inc.<br>303 River Road, R.R. 5<br>Ottawa, Ontario K1V 1H2 |
| **Authorized By:** | Glen Westwell, Wireless Technologist |
| **Date:** | 22 November 2004 |
| **Total Number of Pages:** | 31 |

# Table of Contents

# Section 1. Summary of Test Results

## General

**All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart C, Paragraph 15.247 for Frequency Hopping Spread Spectrum devices. Radiated tests were conducted is accordance with ANSI C63.4-1992. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.
See " Summary of Test Data".

TESTED BY: _____ DATE: 22 November 2004
Jason Nixon, Telecom Specialist

## Summary Of Test Data

| Name Of Test | Para. No. | Result |
|---|---|---|
| Powerline Conducted Emissions | 15.207(a) | Complies |
| Channel Separation | 15.247(a)(1) | N/A(2) |
| Time of Occupancy | 15.247(a)(1)(iii) | N/A(2) |
| 20 dB Occupied Bandwidth | 15.247(a)(1) | N/A(2) |
| Number of Hopping Channels | 15.247(a)(1)(iii) | N/A(2) |
| Peak Power Output | 15.247(b)(1) | Complies |
| Spurious Emissions (Antenna Conducted) | 15.247(d) | N/A(1) |
| Spurious Emissions (Radiated) | 15.247(d) | Complies (3) |

**Footnotes For N/A's:**

1. The apparatus used an integral antenna.
2. The apparatus was originally approved under FCC ID: EW780-5312-00 and this test assessment is only a supplemental to the original for purpose of a class II permissive change to the product. The modifications to the product can be found below as listed by the customer.
3. The spectrum was searched from 30MHz up to 25GHz. All emissions within 20dB of the limit were reported.
4. Using test software the apparatus could be configured to continuously transmit on Channel 00 to 97.

**Test Conditions:**

| | | |
|---|---|---|
| **Indoor** | Temperature: | 23°C |
| | Humidity: | 22% |
| **Outdoor** | Temperature: | 14°C |
| | Humidity: | 43% |

**Modifications to the product:**

The AT&T E2715B has been derived from the already approved VTECH 2625. The differences between them is that the AT&T E2715B uses a low-cost RF solution, the RF module has been migrated to the main PCB, PCB layout changes to accommodate the migration of RF module and the antenna is the same but the matching has changes.

## Section 2. General Equipment Specification

| | |
|---|---|
| **Manufacturer:** | VTech (Dongguan) Electronics and Communications Ltd. |
| **Model No.:** | AT&T E2715B |
| **Serial No.:** | Base: 131<br>Handset: 131<br>Charger: N/A |
| **Date Received In Laboratory:** | October 20, 2004 |
| **Nemko Identification No.:** | Base: 6<br>Handset: 1<br>Charger: 11 |
| **Frequency Range:** | 2401.056 – 2482.272 MHz |
| **Modulation:** | GFSK |
| **Tunable Bands:** | 1 |
| **Number of Channels:** | 17 |
| **Min. Channel Spacing:** | Base: 864 kHz<br>Handset: 864 kHz |
| **Emissions Designator:** | Base: 733K3F1D<br>Handset: 733K3F1D |
| **User Frequency Adjustment:** | N/A |
| **Rated Output Power:** | Base: 125mW (21dBm)<br>Handset: 125mW (21dBm) |

## Section 3. Powerline Conducted Emissions

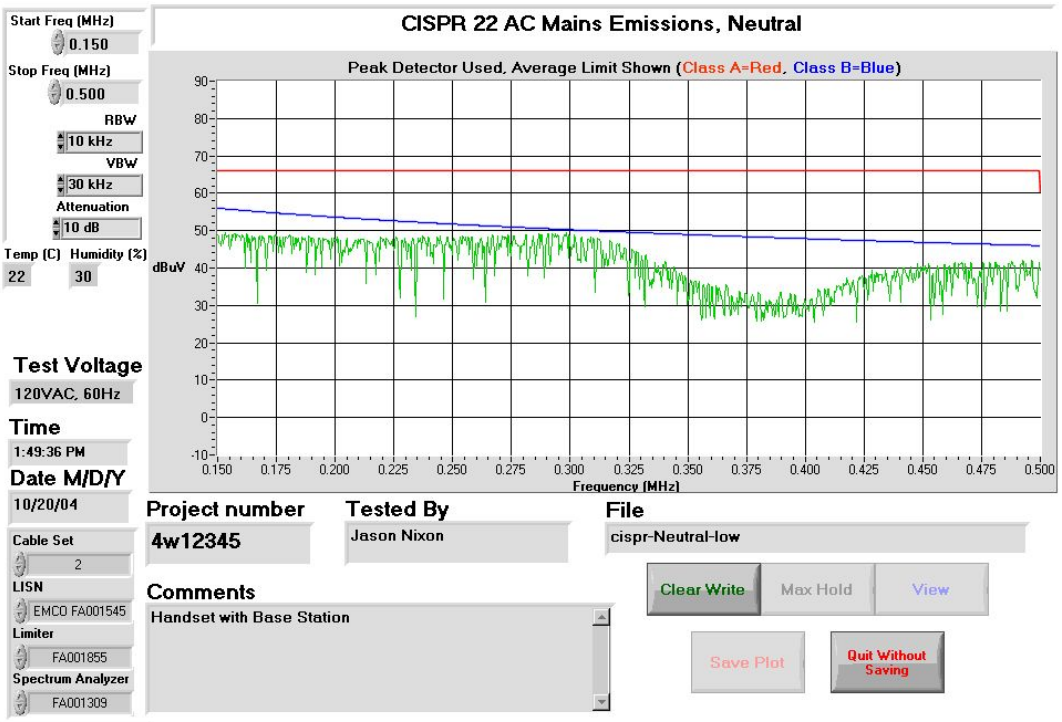
**Para. No.: 15.207 (a)**

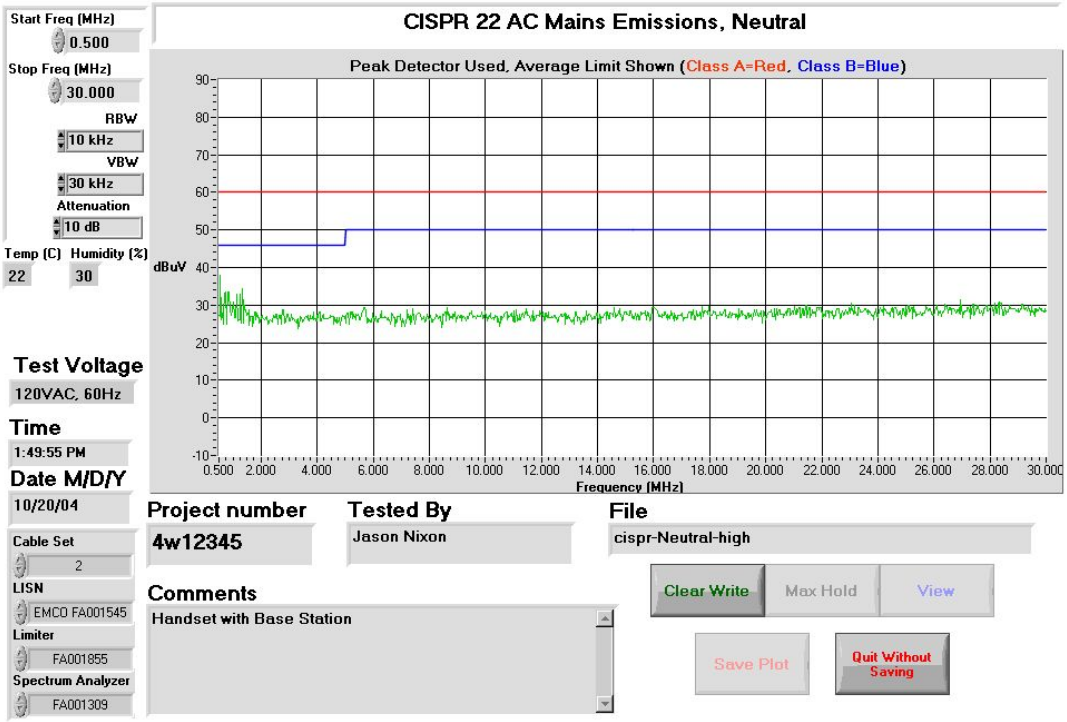
| **Test Performed By: Jason Nixon** | **Date of Test: October 20, 2004** |
|---|---|

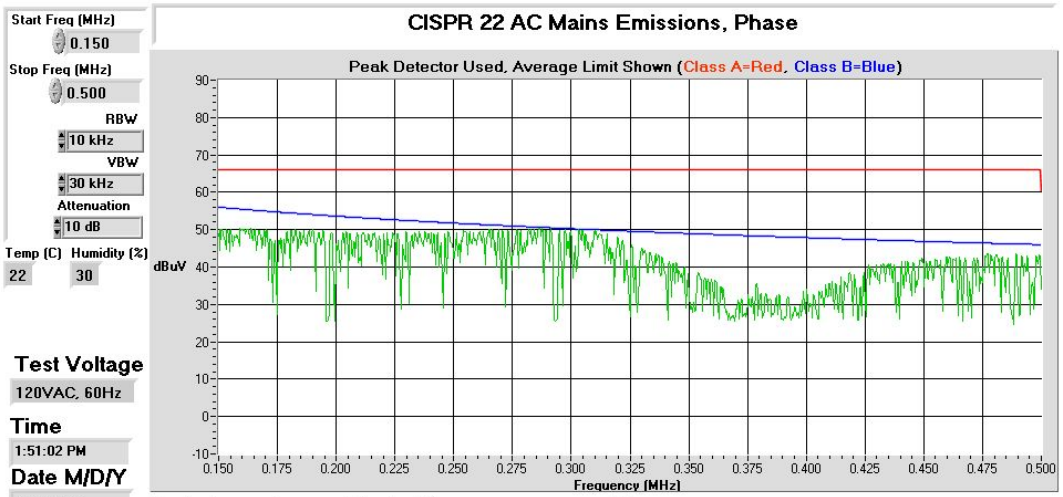
**Test Results:** Complies

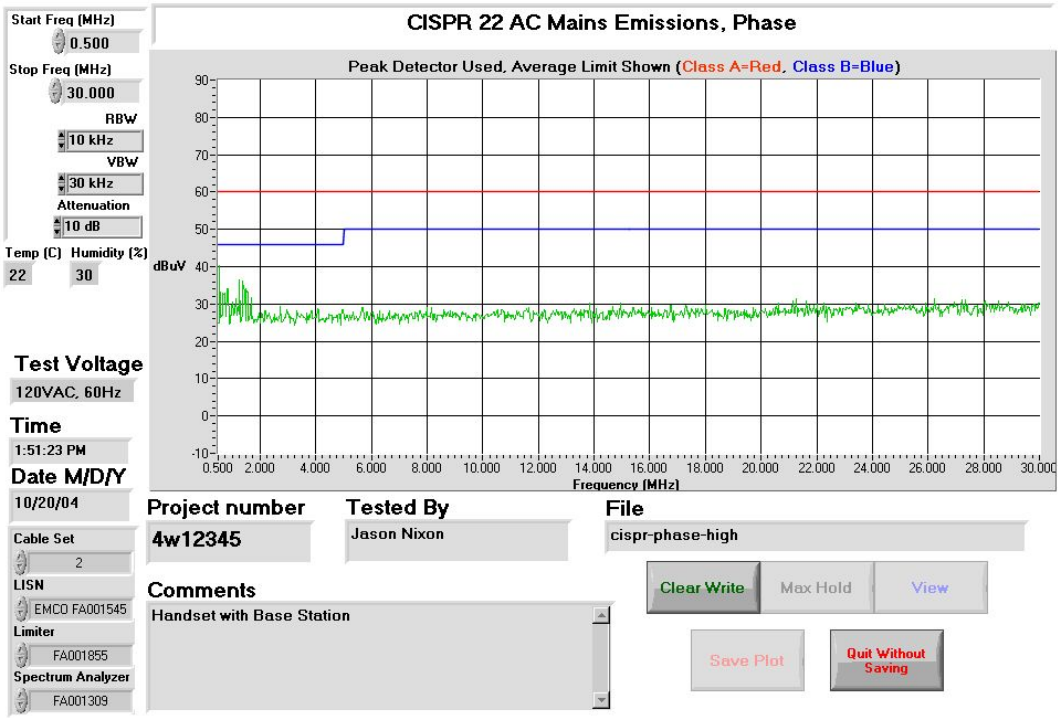
**Measurement Data:** See attached graph(s).

## Powerline Conducted Emission Plots
## Base Station

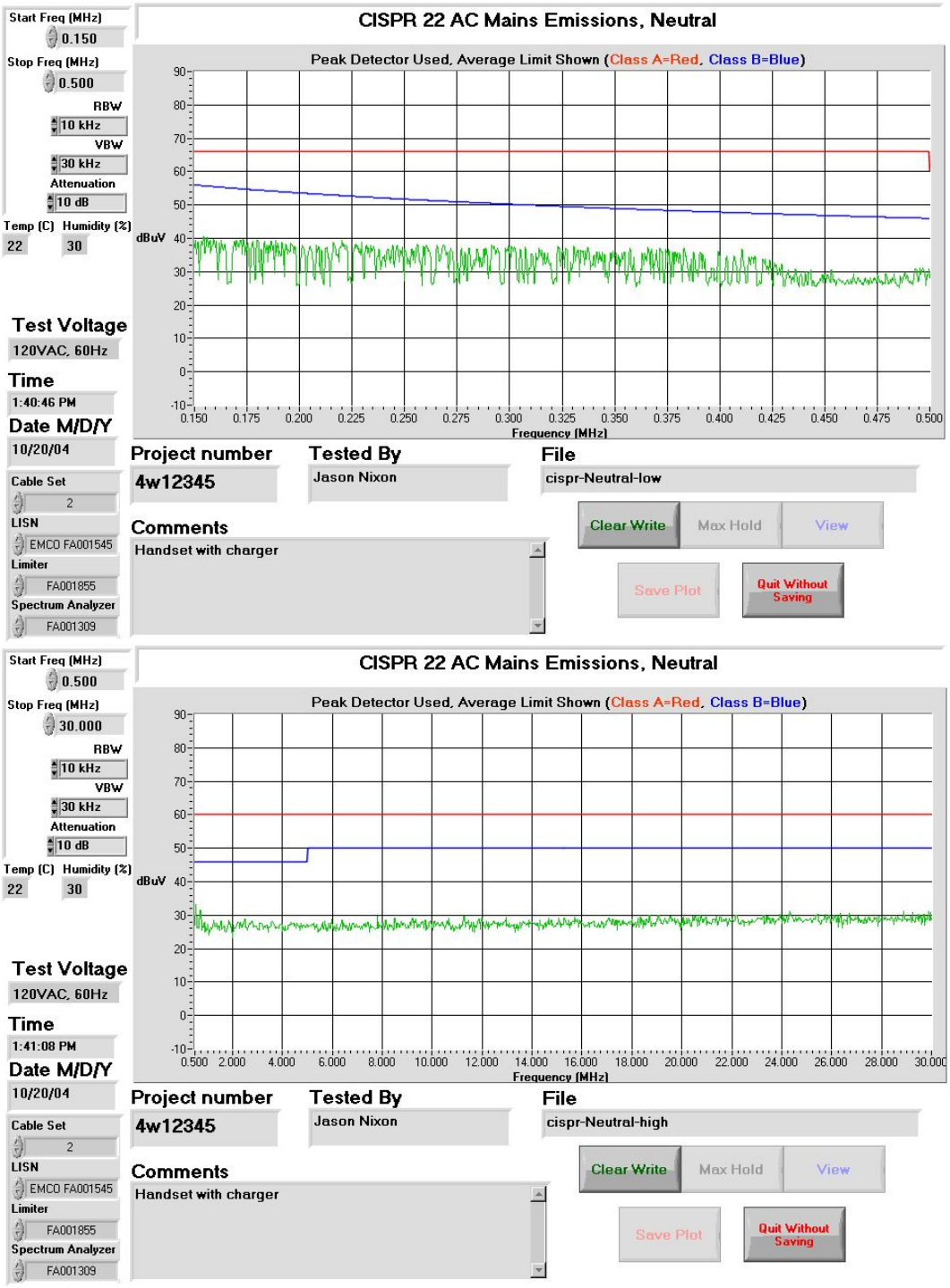


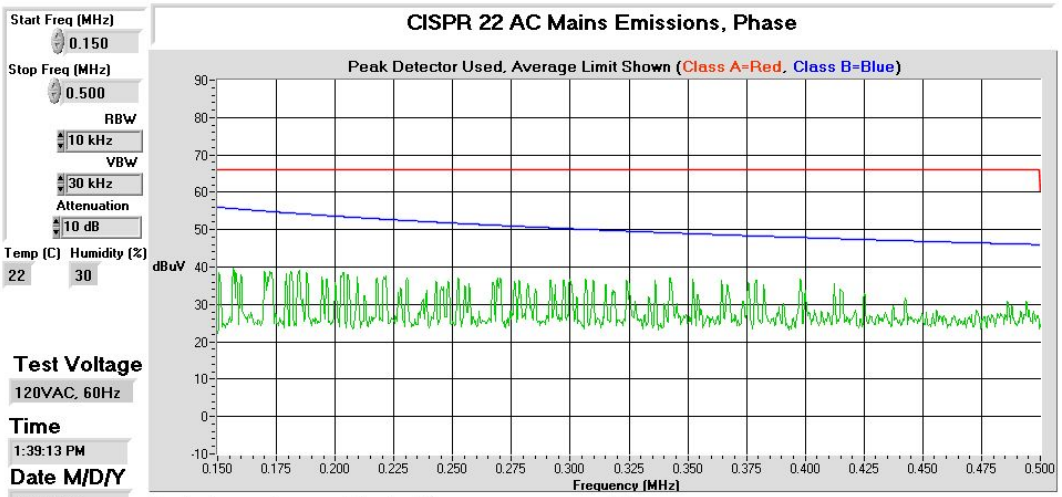



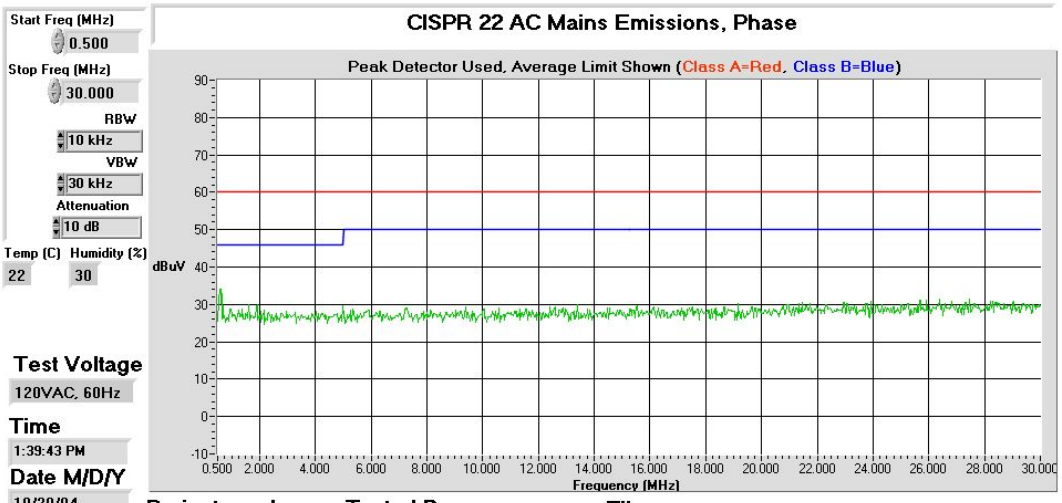

Start Freq (MHz)
0.150
Stop Freq (MHz)
0.500
RBW
10 kHz
VBW
30 kHz
Attenuation
10 dB
Temp (C)
22
Humidity (%)
30
CISPR 22 AC Mains Emissions, Phase
Peak Detector Used, Average Limit Shown (Class A=Red, Class B=Blue)
dBuV
Frequency (MHz)
Test Voltage
120VAC, 60Hz
Time
1:51:02 PM
Date M/D/Y
10/20/04
Project number
4w12345
Tested By
Jason Nixon
File
cispr-phase-low
Cable Set
2
LISN
EMCO FA001545
Limiter
FA001855
Spectrum Analyzer
FA001309
Comments
Handset with Base Station
Clear Write
Max Hold
View
Save Plot
Quit Without Saving


Start Freq (MHz)
0.500
Stop Freq (MHz)
30.000
RBW
10 kHz
VBW
30 kHz
Attenuation
10 dB
Temp (C)
22
Humidity (%)
30
CISPR 22 AC Mains Emissions, Phase
Peak Detector Used, Average Limit Shown (Class A=Red, Class B=Blue)
dBuV
Frequency (MHz)
Test Voltage
120VAC, 60Hz
Time
1:51:23 PM
Date M/D/Y
10/20/04
Project number
4w12345
Tested By
Jason Nixon
File
cispr-phase-high
Cable Set
2
LISN
EMCO FA001545
Limiter
FA001855
Spectrum Analyzer
FA001309
Comments
Handset with Base Station
Clear Write
Max Hold
View
Save Plot
Quit Without Saving

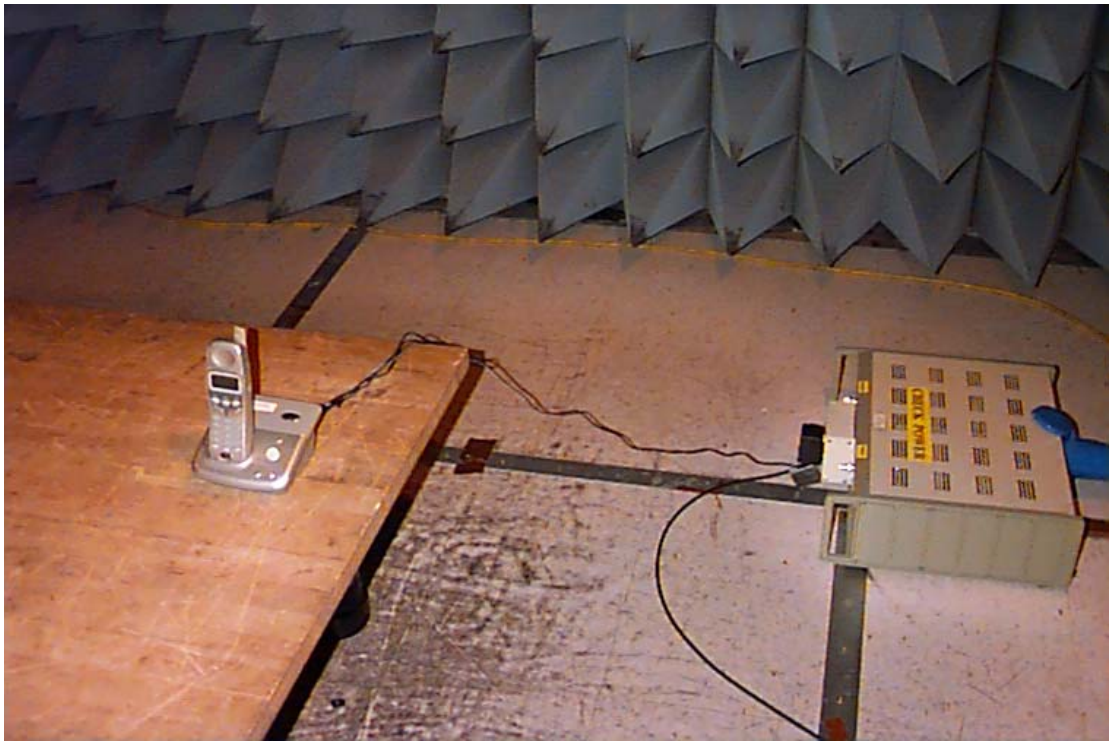
## Handset Charger




Start Freq (MHz)
0.150
Stop Freq (MHz)
0.500
RBW
10 kHz
VBW
30 kHz
Attenuation
10 dB
Temp (C)
22
Humidity (%)
30
CISPR 22 AC Mains Emissions, Phase
Peak Detector Used, Average Limit Shown (Class A=Red, Class B=Blue)
dBuV
Frequency (MHz)
Test Voltage
120VAC, 60Hz
Time
1:39:13 PM
Date M/D/Y
10/20/04
Project number
4w12345
Tested By
Jason Nixon
File
cispr-phase-low
Cable Set
2
LISN
EMCO FA001545
Limiter
FA001855
Spectrum Analyzer
FA001309
Comments
Handset with charger
Clear Write
Max Hold
View
Save Plot
Quit Without Saving


Start Freq (MHz)
0.500
Stop Freq (MHz)
30.000
RBW
10 kHz
VBW
30 kHz
Attenuation
10 dB
Temp (C)
22
Humidity (%)
30
CISPR 22 AC Mains Emissions, Phase
Peak Detector Used, Average Limit Shown (Class A=Red, Class B=Blue)
dBuV
Frequency (MHz)
Test Voltage
120VAC, 60Hz
Time
1:39:43 PM
Date M/D/Y
10/20/04
Project number
4w12345
Tested By
Jason Nixon
File
cispr-phase-high
Cable Set
2
LISN
EMCO FA001545
Limiter
FA001855
Spectrum Analyzer
FA001309
Comments
Handset with charger
Clear Write
Max Hold
View
Save Plot
Quit Without Saving

**Set-up Photo:**
**Base Station**



**Handset Charger**

## Section 4. Peak Power Output

**Para. No.: 15.247 (b)(1)**

| **Test Performed By: Jason Nixon** | **Date of Test: November 4, 2004** |
|---|---|

**Test Results:** Complies. The maximum peak power output of the transmitter is:
Base Station: 0.1047 watts
Handset: 0.1007 watts

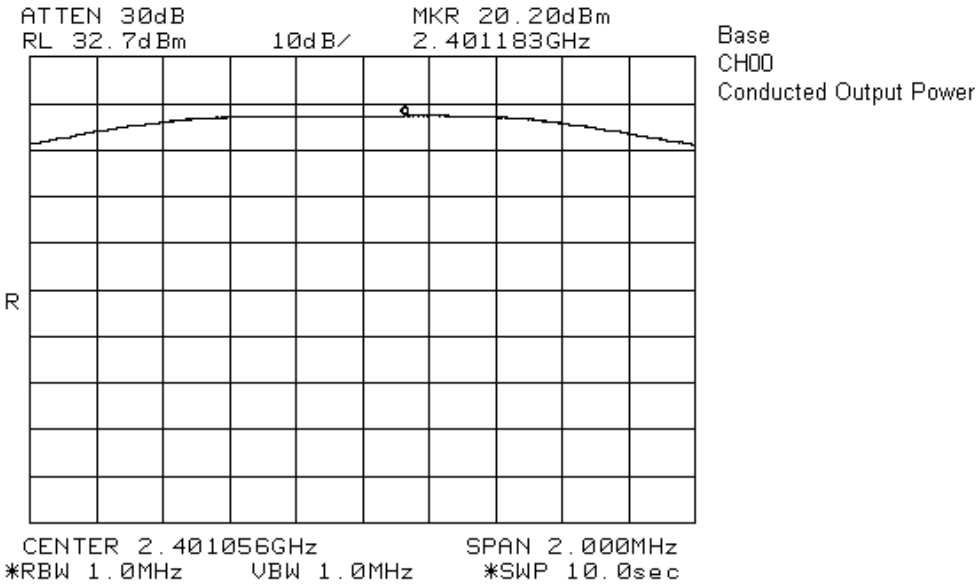
**Measurement Data:** Detachable antenna? ☐ Yes ☒ No

If yes, state the type of non-standard connector used at the antenna port: N/A

Directional Gain of Antenna: 0 dBi or 1 Numeric.

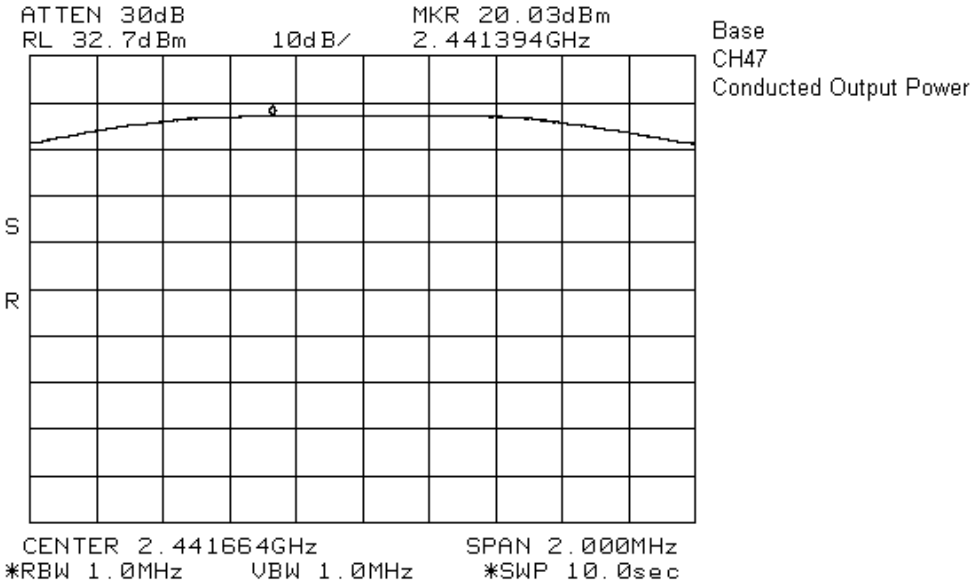
Note: All power measurements were performed using a conducted power method on specially modified samples provided by the customer.

**Base Station CH00**



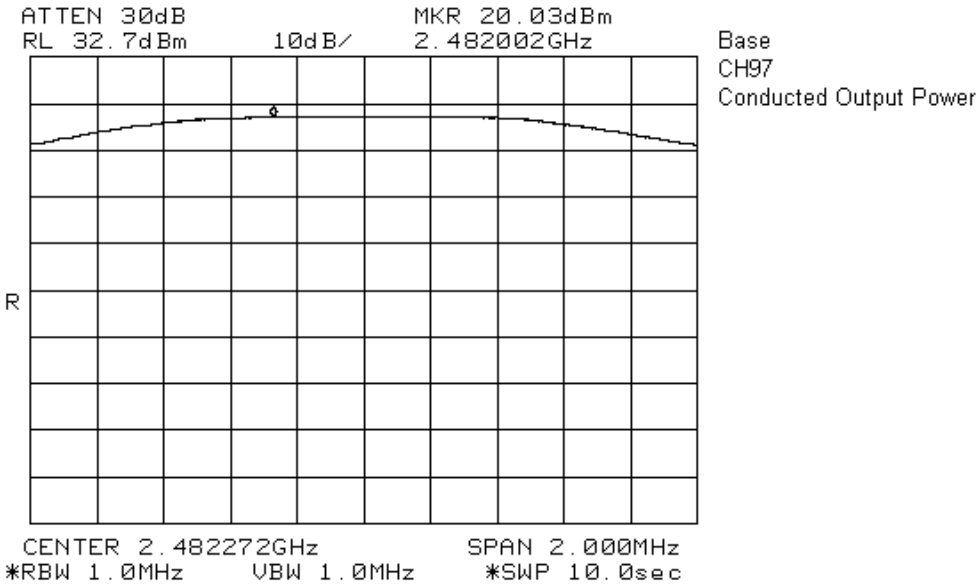

Base
CH00
Conducted Output Power

**Base Station CH47**



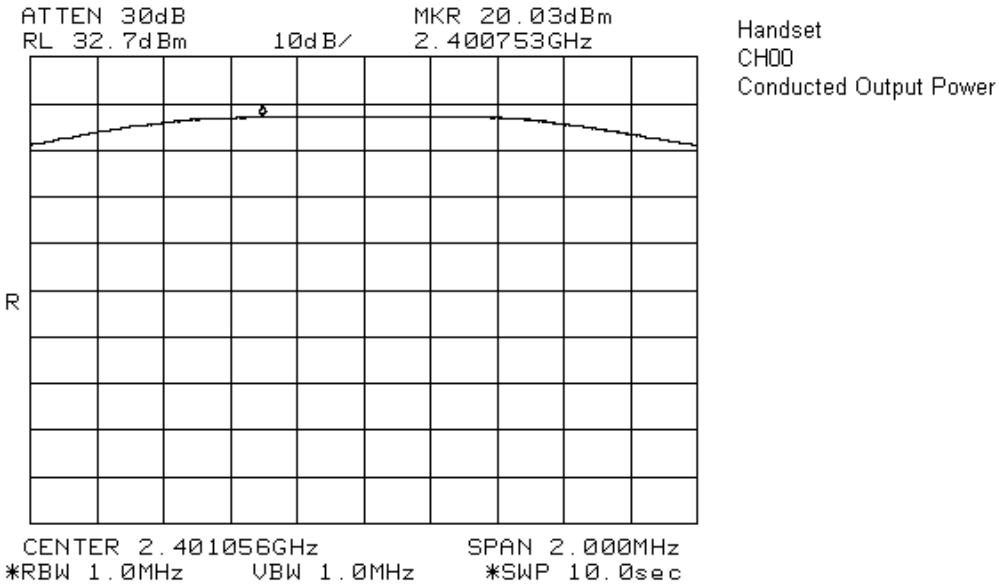

Base
CH47
Conducted Output Power

**Base Station CH94**



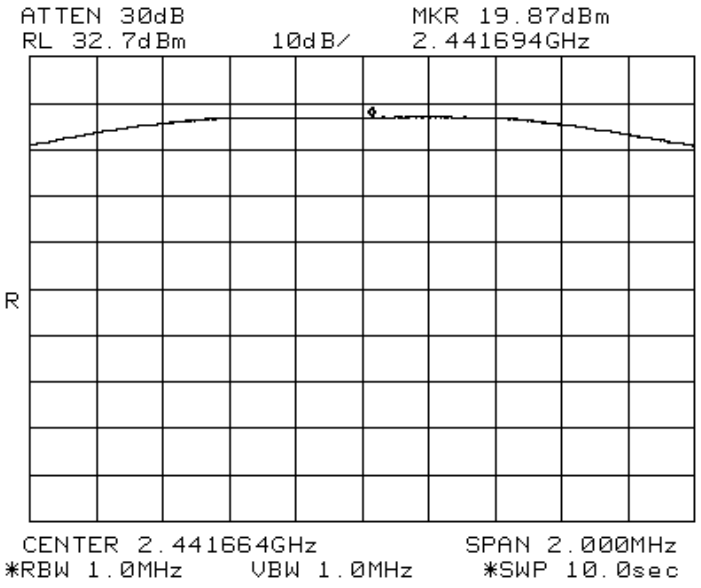

Base
CH97
Conducted Output Power

**Handset CH00**



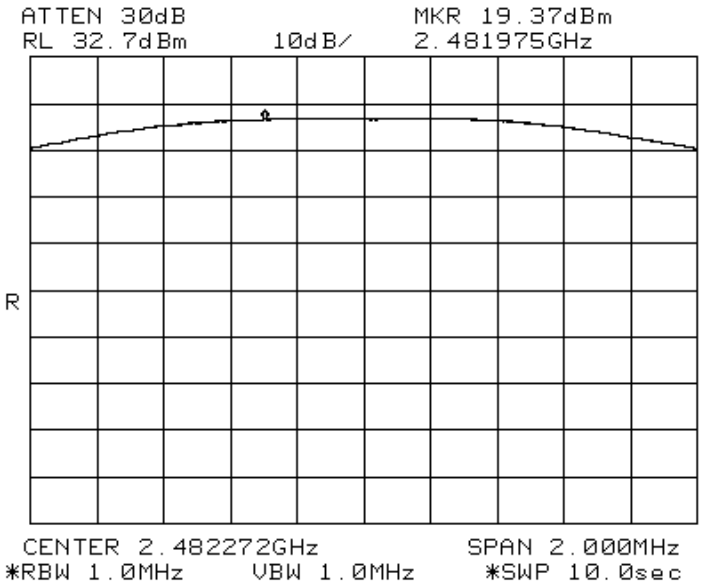

Handset
CH00
Conducted Output Power

**Handset CH47**




Handset
CH47
Conducted Output Power

**Handset CH94**




Handset
CH94
Conducted Output Power

## Section 5. Spurious Emissions (Radiated)

**Para. No.: 15.247 (c)**

| **Test Performed By: Jason Nixon** | **Date of Test: October 22, 2004** |
|---|---|

**Test Results:** Complies

**Measurement Data:** See attached table.

This EUT was searched in 3 orthogonal axis to determine worst case emissions.
The Handset was tested with fresh batteries.
The Base AC mains was varied +/- 15% for worst case emissions.
All detectable emissions within 20dB of the limit were reported.
All emissions were searched up to the $10^{th}$ harmonic.
All harmonics and spurious emissions not located in the restricted bands were compared to the 100kHz RBW field strength measured for the fundamental minus 20dB.

**Duty Cycle Calculation:**

Base: 20Log{(40x800usec)/100}= -9.9dB
Handset: 20Log{(10x800usec)/100}= -21.94dB, therefore –20.0dB

**Radiated Disturbance Test Data: Digital Emissions For Base Station**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test Date: October 26,2004 | | | | | | | | | | | |
| Engineer's Name: Jason Nixon | | | | | | | | | | | |
| Temperature (C°): 14 | | | | | | | Humidity %: 43 | | | | |
| | | | | | | | | | | | |
| **Tested as per (Table Top/Floor Standing):** Table Top | | | | | | | | | | | |
| Test Distance (meters): 3 | | | | | | | Range: A | | | | |
| Emissions within 20 dB of the limit have been recorded. | | | | | | | | | | | |
| Freq. (MHz) | Ant. | Pol. V/H | RCVD Signal (dBµV) | Ant. Factor (dB) | Amp. Gain (dB) | Cable Loss (dB) | Field Strength (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Amp. |
| 41.4736 | BC1 | V | 21.6 | 10.3 | 0.0 | 0.8 | 32.7 | 40.0 | 7.3 | Q-peak | N/A |
| Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole<br>Note 2: Detector Legend: Q-Peak = 120 kHz RBW, Average = 1.0 MHz RBW | | | | | | | | | | | |
| Notes: | | | | | | | | | | | |

**Radiated Disturbance Test Data: Digital Emissions For Handset**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Test Date: October 26,2004 | | | | | | | | | | | |
| Engineer's Name: Jason Nixon | | | | | | | | | | | |
| Temperature (C°): 14 | | | | | | | Humidity %: 43 | | | | |
| | | | | | | | | | | | |
| **Tested as per (Table Top/Floor Standing):** Table Top | | | | | | | | | | | |
| Test Distance (meters): 3 | | | | | | | Range: A | | | | |
| Emissions within 20 dB of the limit have been recorded. | | | | | | | | | | | |
| Freq. (MHz) | Ant. | Pol. V/H | RCVD Signal (dBµV) | Ant. Factor (dB) | Amp. Gain (dB) | Cable Loss (dB) | Field Strength (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Amp. |
| 193.2503 | BC1 | H | 11.9 | 13.7 | 0.0 | 1.8 | 27.4 | 43.5 | 16.2 | Q-peak | N/A |
| 193.5368 | BC1 | H | 10.2 | 13.7 | 0.0 | 1.8 | 25.7 | 43.5 | 17.9 | Q-peak | N/A |
| 207.3292 | BC1 | H | 14.2 | 14.4 | 0.0 | 1.8 | 30.4 | 43.5 | 13.2 | Q-peak | N/A |
| Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole<br>Note 2: Detector Legend: Q-Peak = 120 kHz RBW, Average = 1.0 MHz RBW | | | | | | | | | | | |
| Notes: | | | | | | | | | | | |

**Radiated Disturbance Test Data: Average for the Base Station**

| | |
|---|---|
| Test Date: October 26,2004 | |
| Engineer's Name: Jason Nixon | |
| Temperature (C°): 14 | Humidity %: 43 |
| | |
| **Tested as per (Table Top/Floor Standing):** Table Top | |
| Test Distance (meters): 3 | Range: A |
| Emissions within 20 dB of the limit have been recorded. | |

| Freq. (MHz) | Ant. | Pol. V/H | RCVD Signal (dBµV) | Ant. Factor (dB) | Amp. Gain (dB) | Duty Cycle Corr. Factor (dB) | Cable Loss (dB) | Field Strength (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Amp. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4802.1120 | Horn1 | V | 66.0 | 34.3 | 53.2 | -9.9 | 8.1 | 45.3 | 54.0 | 8.7 | 4-8GHz |
| 4802.1120 | Horn1 | H | 64.8 | 34.1 | 53.2 | -9.9 | 8.1 | 43.9 | 54.0 | 10.1 | 4-8GHz |
| 12005.280 | Horn1 | V | 54.0 | 39.4 | 42.3 | -9.9 | 6.17 | 47.3 | 54.0 | 6.7 | 5-18GHz |
| 12005.280 | Horn1 | H | 52.5 | 39.4 | 42.3 | -9.9 | 6.17 | 45.8 | 54.0 | 8.2 | 5-18GHz |
| | | | | | | | | | | | |
| 4883.3280 | Horn1 | V | 65.5 | 34.4 | 52.6 | -9.9 | 8.9 | 46.2 | 54.0 | 7.8 | 4-8GHz |
| 4883.3280 | Horn1 | H | 64.8 | 34.2 | 52.6 | -9.9 | 8.9 | 45.3 | 54.0 | 8.7 | 4-8GHz |
| 7324.9920 | Horn1 | V | 67.5 | 36.5 | 53.7 | -9.9 | 10.1 | 50.6 | 54.0 | 3.4 | 4-8GHz |
| 7324.9920 | Horn1 | H | 66.2 | 36.5 | 53.7 | -9.9 | 10.1 | 49.2 | 54.0 | 4.8 | 4-8GHz |
| 12208.320 | Horn1 | V | 54.0 | 39.4 | 42.3 | -9.9 | 6.17 | 53.2 | 54.0 | 0.8 | 5-18GHz |
| 12208.320 | Horn1 | H | 52.5 | 39.4 | 42.3 | -9.9 | 6.17 | 50.5 | 54.0 | 3.5 | 5-18GHz |
| | | | | | | | | | | | |
| 4964.5440 | Horn1 | V | 66.7 | 34.4 | 52.3 | -9.9 | 9.5 | 48.3 | 54.0 | 5.7 | 4-8GHz |
| 4964.5440 | Horn1 | H | 67.0 | 34.2 | 52.3 | -9.9 | 9.5 | 48.4 | 54.0 | 5.6 | 4-8GHz |
| 7446.8160 | Horn1 | V | 69.3 | 36.5 | 53.2 | -9.9 | 11.1 | 53.9 | 54.0 | 0.1 | 4-8GHz |
| 7446.8160 | Horn1 | H | 66.2 | 36.5 | 53.2 | -9.9 | 11.1 | 50.7 | 54.0 | 3.3 | 4-8GHz |
| 12411.360 | Horn1 | V | 54.0 | 39.4 | 42.3 | -9.9 | 6.17 | 52.2 | 54.0 | 1.8 | 5-18GHz |
| 12411.360 | Horn1 | H | 52.5 | 39.4 | 42.3 | -9.9 | 6.17 | 50.2 | 54.0 | 3.8 | 5-18GHz |

Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, ED = EMCO Dipole

| | |
|---|---|
| Notes: | All measurements were performed using a Spectrum analyzer with a peak detector of 1MHz RBW/VBW |
| | |

**Radiated Disturbance Test Data: Average for the Handset**

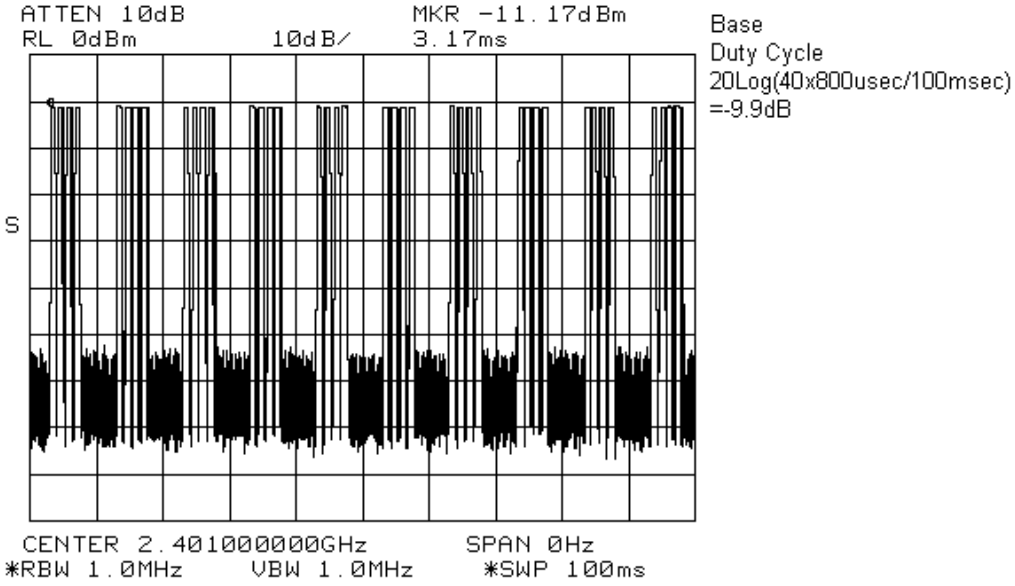
| | |
|---|---|
| Test Date: October 26, 2004 | |
| Engineer's Name: Jason Nixon | |
| Temperature (C°): 14 | Humidity %: 43 |
| | |
| **Tested as per (Table Top/Floor Standing):** Table Top | |
| Test Distance (meters): 3 | Range: A |
| Emissions within 20 dB of the limit have been recorded. | |

| Freq. (MHz) | Ant. | Pol. V/H | RCVD Signal (dBµV) | Ant. Factor (dB) | Amp. Gain (dB) | Duty Cycle Corr. Factor (dB) | Cable Loss (dB) | Field Strength (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Amp. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4802.1120 | Horn1 | V | 68.2 | 34.3 | 53.2 | -20.0 | 8.1 | 37.4 | 54.0 | 16.6 | 4-8GHz |
| 4802.1120 | Horn1 | H | 72.3 | 34.1 | 53.2 | -20.0 | 8.1 | 41.3 | 54.0 | 12.7 | 4-8GHz |
| 7203.1680 | Horn1 | V | 65.7 | 36.5 | 53.7 | -20.0 | 11.3 | 39.8 | 54.0 | 14.2 | 4-8GHz |
| 7203.1680 | Horn1 | H | 65.7 | 36.5 | 53.7 | -20.0 | 11.3 | 39.8 | 54.0 | 14.2 | 4-8GHz |
| 12005.280 | Horn1 | V | 57.0 | 39.4 | 42.3 | -20.0 | 6.17 | 40.2 | 54.0 | 13.8 | 5-18GHz |
| 12005.280 | Horn1 | H | 57.8 | 39.4 | 42.3 | -20.0 | 6.17 | 41.1 | 54.0 | 12.9 | 5-18GHz |
| | | | | | | | | | | | |
| 4883.3280 | Horn1 | V | 68.8 | 34.4 | 52.6 | -20.0 | 8.9 | 39.4 | 54.0 | 14.6 | 4-8GHz |
| 4883.3280 | Horn1 | H | 74.2 | 34.2 | 52.6 | -20.0 | 8.9 | 44.6 | 54.0 | 9.4 | 4-8GHz |
| 7324.9920 | Horn1 | V | 71.7 | 36.5 | 53.7 | -20.0 | 10.1 | 44.6 | 54.0 | 9.4 | 4-8GHz |
| 7324.9920 | Horn1 | H | 70.3 | 36.5 | 53.7 | -20.0 | 10.1 | 43.3 | 54.0 | 10.7 | 4-8GHz |
| 12208.320 | Horn1 | V | 54.2 | 39.4 | 42.3 | -20.0 | 6.17 | 37.4 | 54.0 | 16.6 | 5-18GHz |
| 12208.320 | Horn1 | H | 55.8 | 39.4 | 42.3 | -20.0 | 6.17 | 39.1 | 54.0 | 14.9 | 5-18GHz |
| | | | | | | | | | | | |
| 4964.5440 | Horn1 | V | 70.5 | 34.4 | 52.3 | -20.0 | 9.5 | 42.0 | 54.0 | 12.0 | 4-8GHz |
| 4964.5440 | Horn1 | H | 72.3 | 34.2 | 52.3 | -20.0 | 9.5 | 43.7 | 54.0 | 10.3 | 4-8GHz |
| 7446.8160 | Horn1 | V | 71.7 | 36.5 | 53.2 | -20.0 | 11.1 | 46.1 | 54.0 | 7.9 | 4-8GHz |
| 7446.8160 | Horn1 | H | 69.0 | 36.5 | 53.2 | -20.0 | 11.1 | 43.5 | 54.0 | 10.5 | 4-8GHz |
| 12411.360 | Horn1 | V | 53.8 | 39.4 | 42.3 | -20.0 | 6.17 | 37.1 | 54.0 | 16.9 | 5-18GHz |
| 12411.360 | Horn1 | H | 53.8 | 39.4 | 42.3 | -20.0 | 6.17 | 37.1 | 54.0 | 16.9 | 5-18GHz |

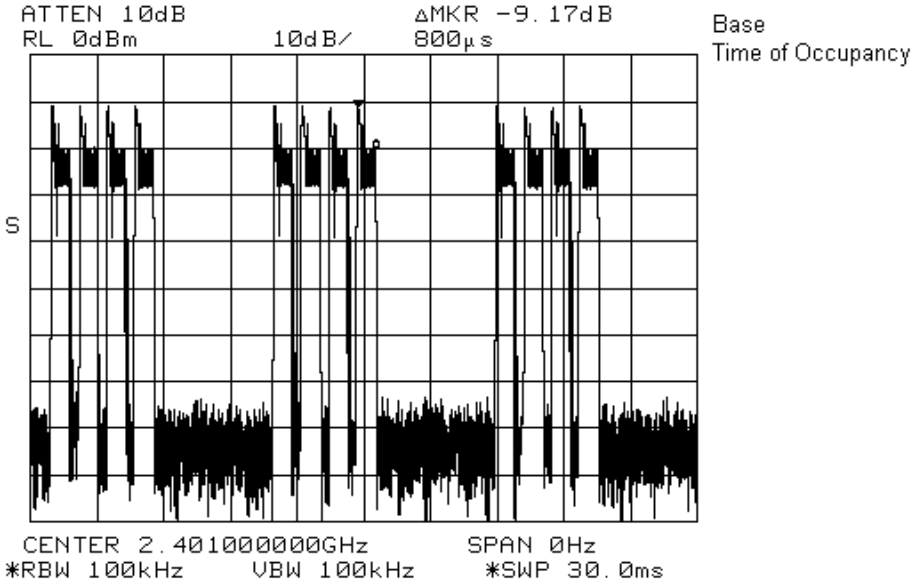
Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, ED = EMCO Dipole

| | |
|---|---|
| Notes: | All measurements were performed using a Spectrum analyzer with a peak detector of 1MHz RBW/VBW |
| | |

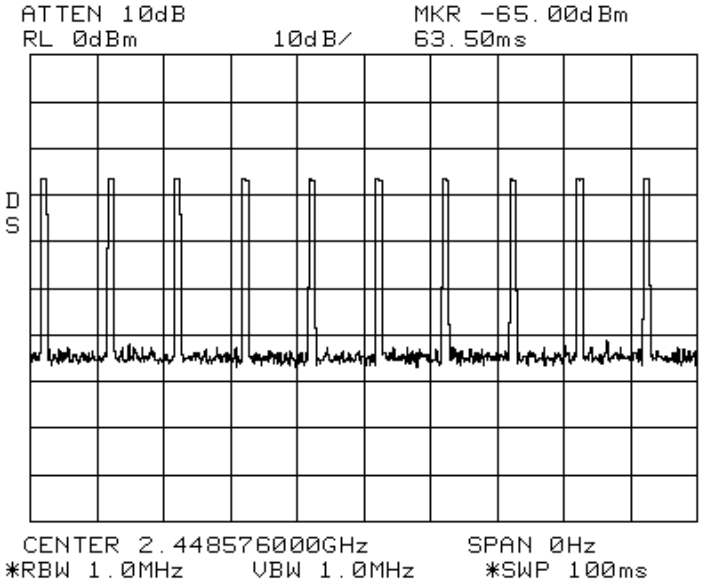
**Duty Cycle Plots**



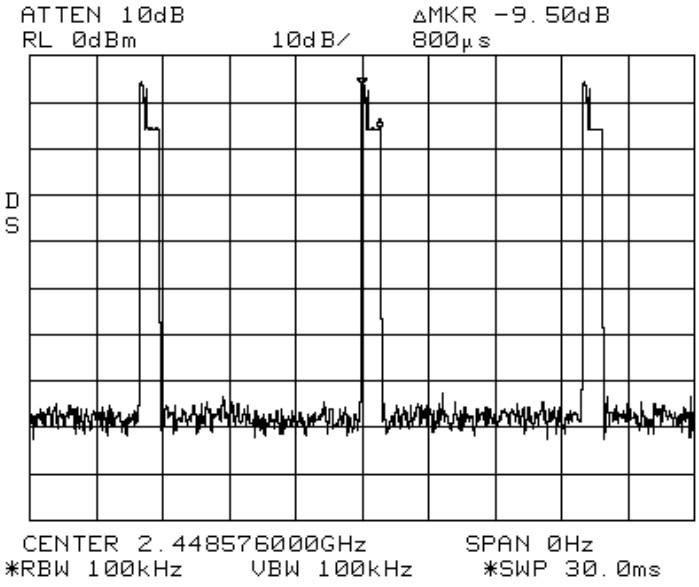

Base
Duty Cycle
20Log(40x800usec/100msec)
=-9.9dB




Base
Time of Occupancy

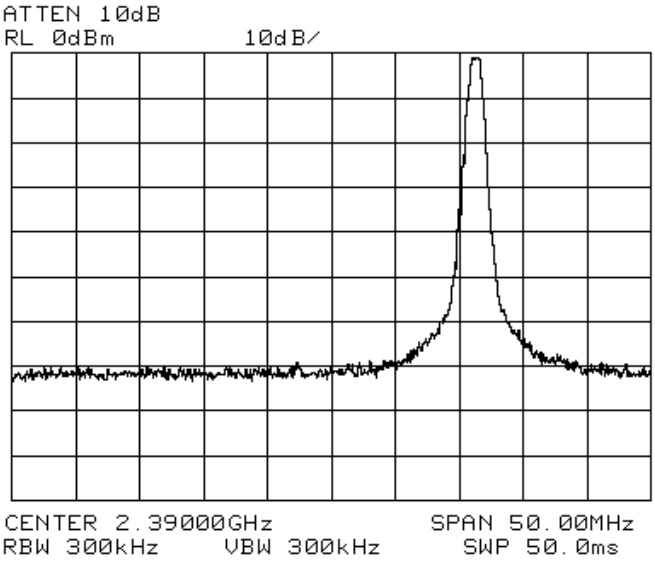



Handset
Duty cycle
20Log(10x800uS/100mS)
= -21.94dB
therefore -20dB



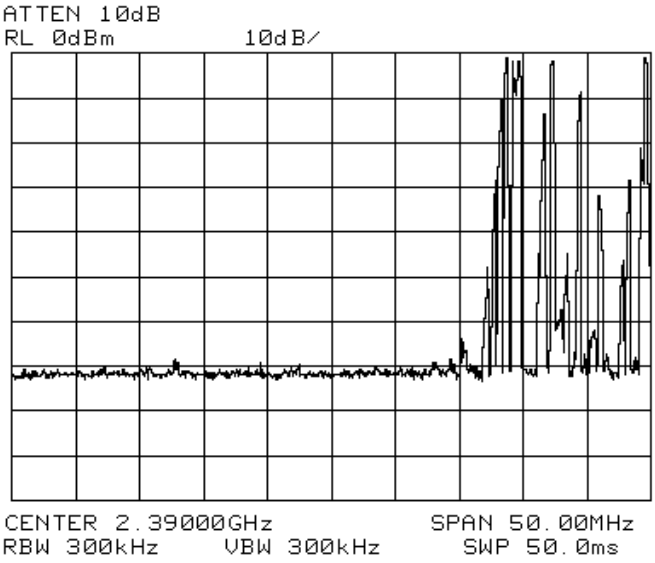

Handset
Time of Occupancy

**Base Station Lower Band Edge**
**Frequency Hopping Off**



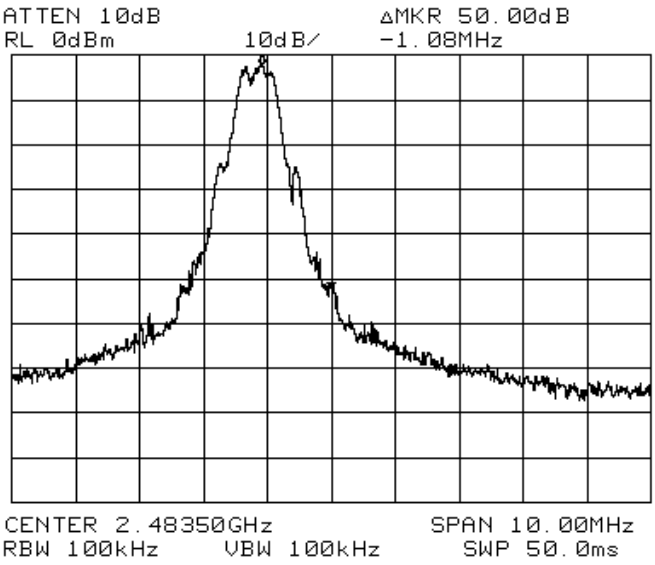

Base
20dB Lower Band Edge
Hopping Off

**Frequency Hopping On**




Base
20dB Lower Band Edge
Hopping On

**Base Station Upper Band Edge**
**Frequency Hopping Off**



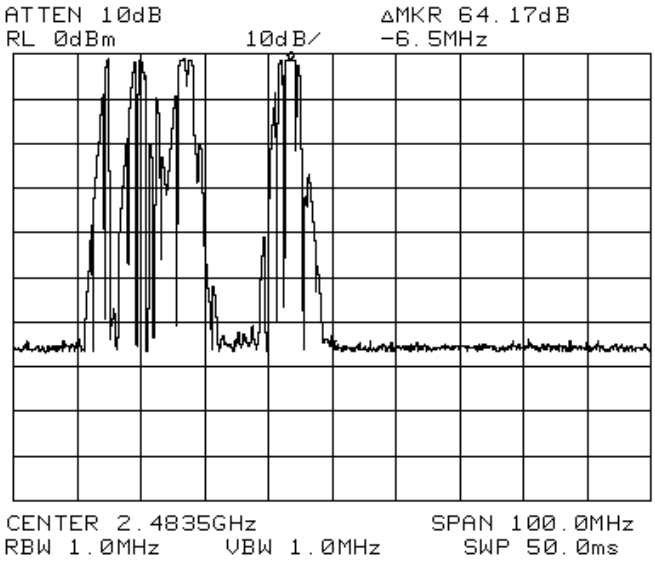

**Band Edge (Restricted Band)**
**Marker Delta Method**

| Freq. (MHz) | Ant. | Pol. V/H | RCVD Signal (dBµV) | Ant. Factor (dB) | Amp. Gain (dB) | Duty Cycle Corr. Factor (dB) | Cable Loss (dB) | Field Strength (dBµV/m) | Amp. |
|---|---|---|---|---|---|---|---|---|---|
| 2482.2720 | Horn2 | V | 76.2 | 28.9 | | | 5.9 | 111.0 | |
| 2482.2720 | Horn2 | H | 74.5 | 28.9 | | | 5.9 | 109.3 | |

Note : The emission was measured using a 1MHz RBW/VBW

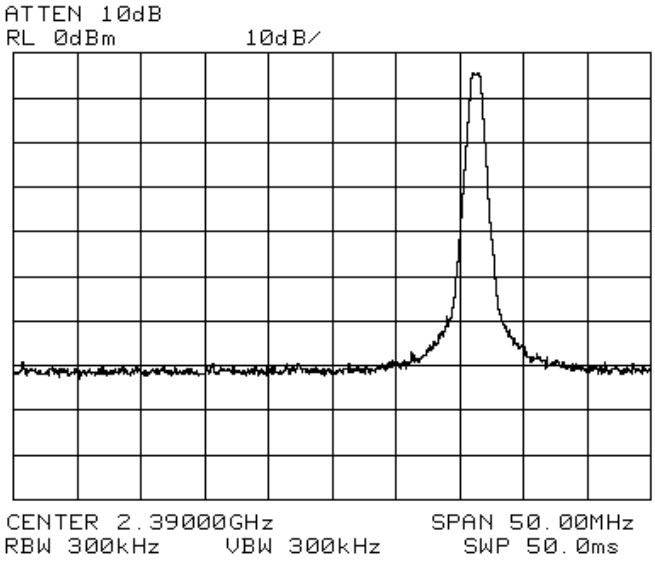
**Peak Level, Band Edge =** 111.0dBuV/m @ 3m
**Peak Band Edge Level (Marker Delta) =** 111.0dBuV - 50dB = 61dBuV/m @ 3m
**Average =** 61.0 – 9.9 = 51.1dBuV/m @ 3m

**Frequency Hopping On**



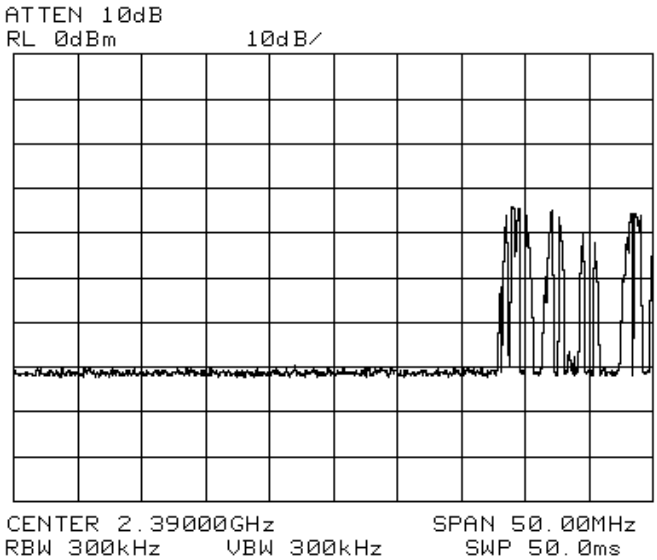

Base
Upper Band Edge
Hopping On

**Handset Lower Band Edge**
**Frequency Hopping Off**



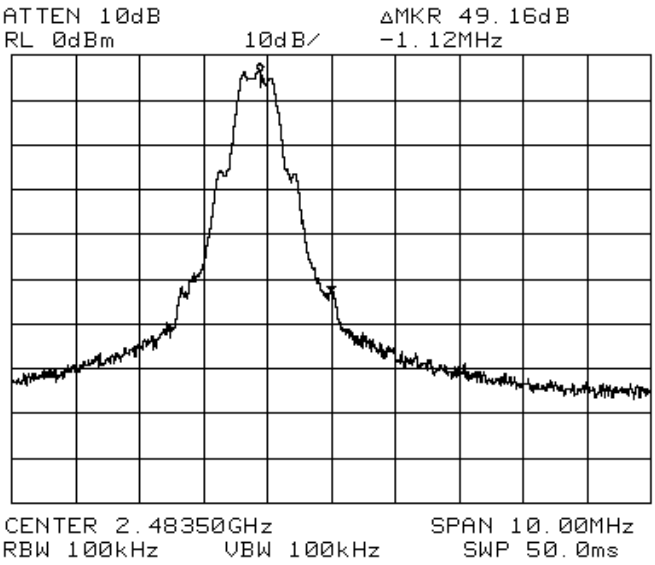

Handset
20dB Lower Band Edge
Hopping Off

**Frequency Hopping On**




Handset
20dB Lower Band Edge
Hopping On

**Handset Upper Band Edge**
**Frequency Hopping Off**



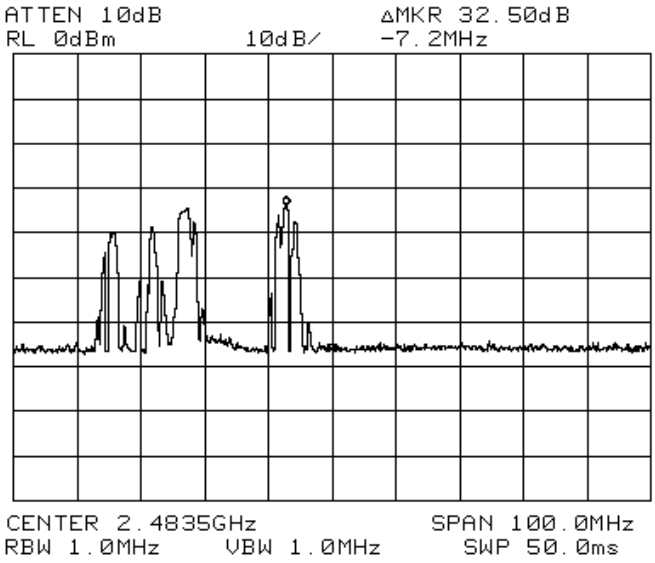

**Band Edge (Restricted Band)**
**Marker Delta Method**

| Freq. (MHz) | Ant. | Pol. V/H | RCVD Signal (dBµV) | Ant. Factor (dB) | Amp. Gain (dB) | Duty Cycle Corr. Factor (dB) | Cable Loss (dB) | Field Strength (dBµV/m) | Amp. |
|---|---|---|---|---|---|---|---|---|---|
| 2482.2720 | Horn2 | V | 73.5 | 28.9 | | | 5.9 | 108.3 | |
| 2482.2720 | Horn2 | H | 76.3 | 28.9 | | | 5.9 | 111.1 | |

Note : The emission was measured using a 1MHz RBW/VBW

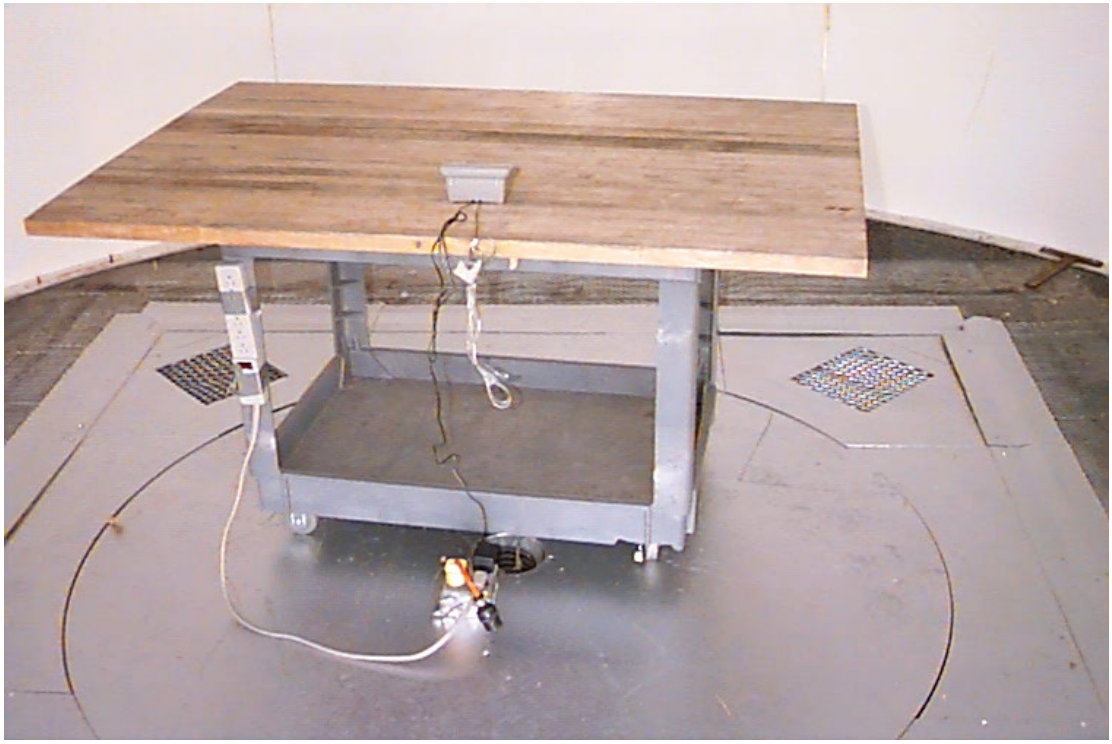
**Peak Level, Band Edge =** 111.1dBuV/m @ 3m
**Peak Band Edge Level (Marker Delta) =** 111.1dBuV – 49.16dB = 61.94dBuV/m @ 3m
**Average =** 61.94 – 20.0 = 41.94dBuV/m @ 3m

**Frequency Hopping On**




Handset
Upper Band Edge
Hopping On

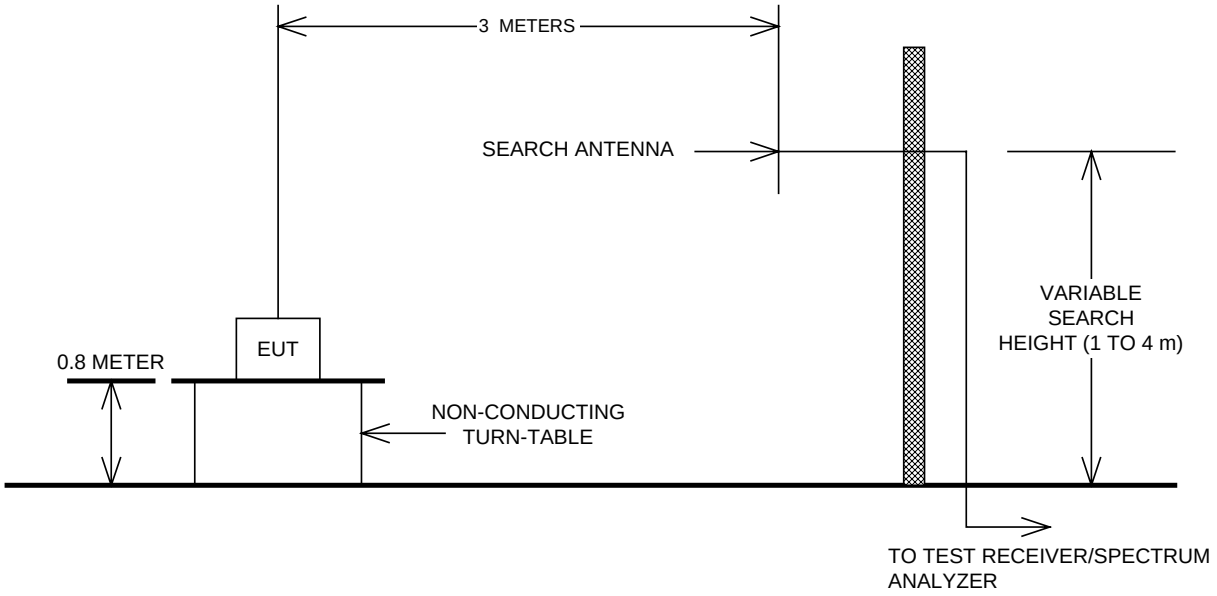
**Set-up Photo:**
**Base**



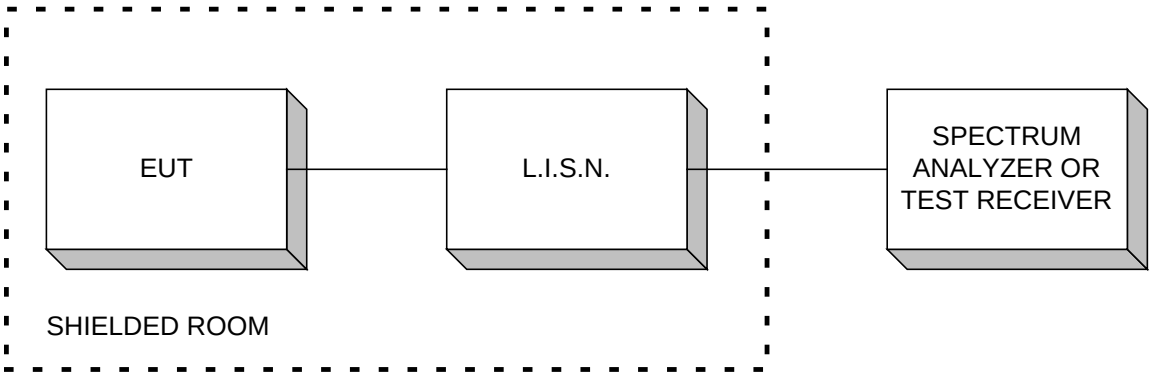
**Handset**

## Section 6. Block Diagrams

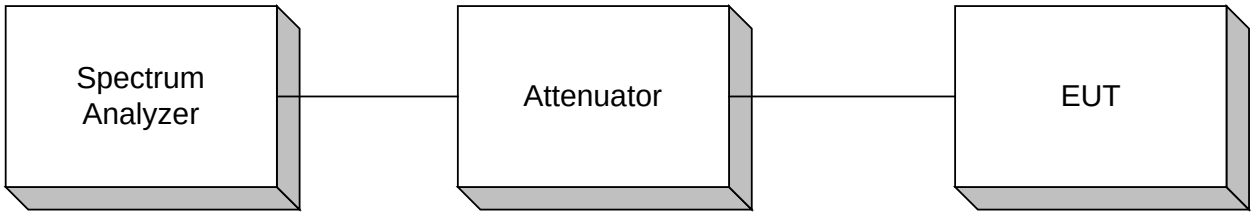
### Test Site For Radiated Emissions




### Conducted Emissions



**Peak Power At Antenna Terminals**



## Section 7. Test Equipment List

| CAL Cycle | Equipment | Manufacturer | Model No. | Asset/Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1 Year | LISN | EMCO | 4825/2 | FA001545 | Oct. 30/03 | Oct. 30/04 |
| 1 Year | Spectrum Analyzer | Hewlett-Packard | 8566B | FA001309 | May 28/04 | May 28/05 |
| 1 Year | Spectrum Analyzer Display | Hewlett-Packard | 85662A | FA001309 | May 28/04 | May 28/05 |
| 1 Year | Transient Limiter | Hewlett-Packard | 11947A | FA000975 | June. 10/04 | June. 10/05 |
| 1 Year | Receiver | Rohde & Schwarz | ESVS-30 | FA001437 | July. 26/04 | July. 26/05 |
| 1 Year | Horn Antenna #2 | EMCO | 3115 | FA000825 | Dec. 10/03 | Dec. 10/04 |
| 1 Year | Horn Antenna #1 | EMCO | 3115 | FA000649 | Dec. 18/03 | Dec. 18/04 |
| 1 Year | 18.0 – 40.0GHz Horn Antenna | EMCO | 3116 | FA001847 | Jan. 19/04 | Jan. 19/05 |
| 1 Year | Log Periodic Antenna #1 | EMCO | LPA-25 | FA000477 | Apr. 23/04 | Apr 23/05 |
| 1 Year | Biconical (1) Antenna | EMCO | 3109 | FA000805 | Aug. 26/04 | Aug. 26/05 |
| 1 Year | Spectrum Analyzer | Hewlett-Packard | 8564E | FA001367 | June 28/04 | June 28/05 |
| 1 Year | 4.0 – 8.0 GHz Amplifier | JCA | 48-600 | FA001497 | June. 18/04 | June. 18/05 |
| 1 Year | 5.0 – 18.0 GHz Amplifier | NARDA | DWT-186N23U40 | FA001409 | Aug. 16/04 | Aug 16/05 |

Note: N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use, OUT = Out For CAL/Repair